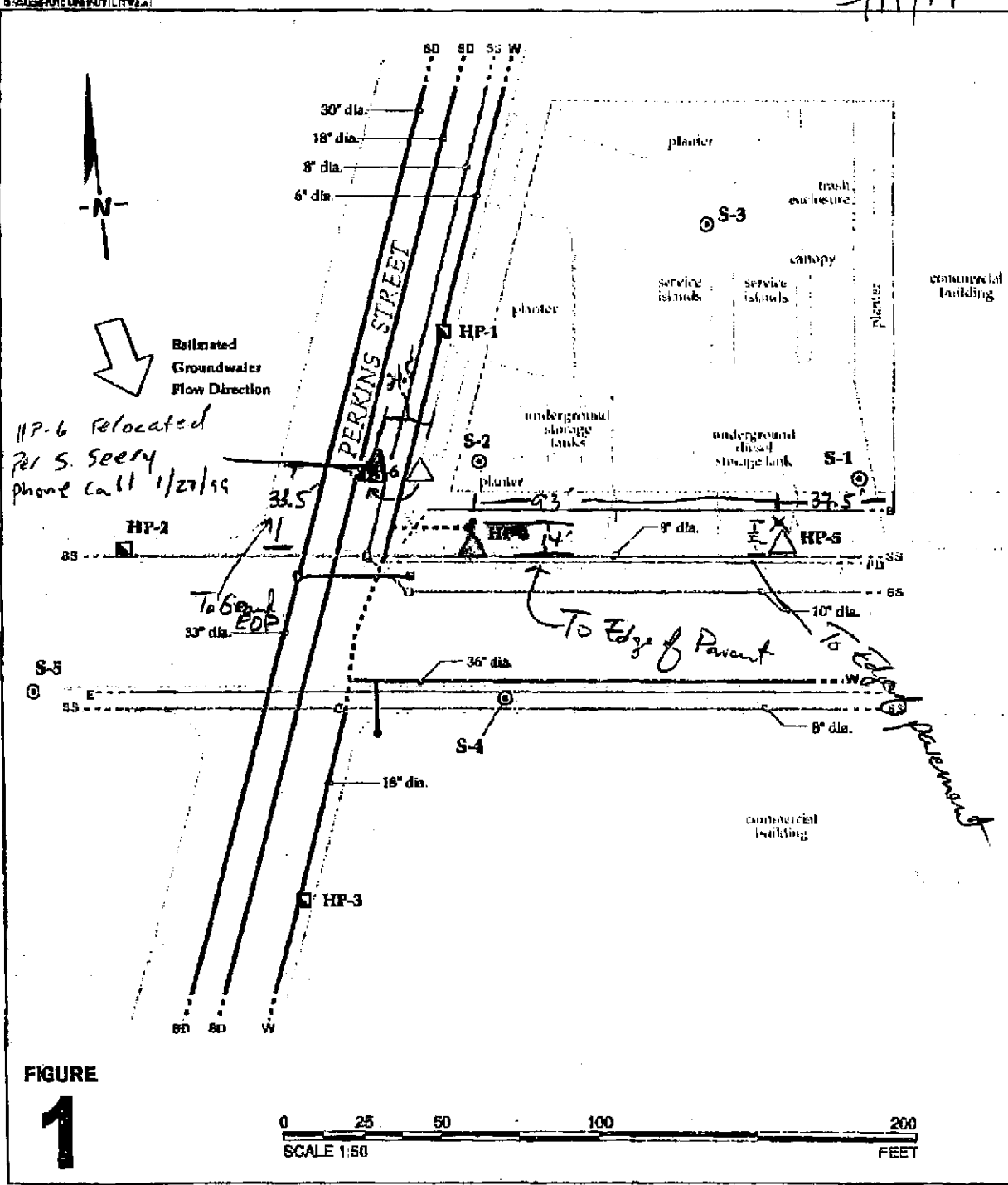


3/17/99 boring locations

DATE: 2/29/99	PROJECT: S-0
TO: Scott Seery	FROM: Tray Bugge
CO./DEPT:	CO./DEPT:
PHONE: 337-9335	PHONE: 510 420-3333
FAX:	F-MAIL:
NOTE: S-0 pays.	

QUICK FAX OFFERINGS



- S-1 ○ Monitoring Well Location
 - HP-1 □ Hydropunch Boring Location (1983)
 - HP-4 △ Proposed Boring Location
 - E --- Electric Utility Line
 - W --- Water Main Utility Line
 - G --- Gas Utility Line
 - SS --- Sanitary Sewer Utility Line
 - SD --- Storm Drain Utility Line
 - PB --- Pacific Bell Utility Line
 - Storm Drain Inlet
 - Manhole
 - Fire Hydrant
- NOTE: Utilities lines are dashed where inferred.

Shell-branded Service Station
 350 Grand Avenue
 Oakland, California
 WIC #204-5510-0204



CAMBRIA

Underground Utility and Proposed Boring Locations

Client:
Address: 350 Grand Ave., Oakland

SB- HP-4

MW-

Project Number: Boring Location: Date: 3/17/99
Geologist: Tony Bugle (Scientist) Drilling Method: Powerprobe Time: 10:30

Depth (ft)	Sample Interval	Time/Blow Cnt.	Well Const.	USC Class.	Soil Type and Comments	Color	Pen. Resist.	Moisture	Odor	Percentages				Plasticity	Permeability
										Clay	Silt	Gravel	Gravel		
0					3-4" concrete										
5	5-5.5		1999 (max)	6	gray brown mixed sandy clay w/ silt (FIW)	Brown grey	Soft	slightly moist	-		60	20	20	low med.	med
6					- some gravels	brown-grey		moist	odor		60	10	30	low med.	med.
10			1999 (max)		gravelly, sandy, clay	grey brown	soft	wet	strong		70		25	5	low med.
15			1999		stiff clay	grey brown	hard	slight moist.	odor		85	5	10	-	med-low
20															
25															
30															
35															

Client: Shell
Address: 350 Grand Ave, Oakland

SB- HP 5 MW-

Project Number:
 Geologist: *Tammy Bugge (Scientist)*
 Boring Location:
 Drilling Method: Power Probe
 Date: 3/17/99
 Time:

Depth (ft)	Sample Interval	Time/Blow Cnt.	D/D Well Const.	USC Class.	Soil Type and Comments	Color	Pen. Resist.	Moisture	Odor	Percentages				Plasticity	Permeability
										Clay	Silt	Sand	Gravel		
0-3.5					3-4" concrete										
3.5-5.5			∅		Fill - brown clayey sand (some gravel)	br	soft	moist	no	15	80	5	low	med	
5.5-7.5			∅		Fill - brown/grey clayey sand	br/gi	soft	wet		20	75	5	low	med	
7.5-10.5			107pp		Fill brown grey clayey sand (10')	br/gi	soft	wet		25	70	5	low	med	
10.5-12.5			∅		clay	br/red	stiff	-	no	90	5	5	med	low	
12.5-14.5			∅		clay	br/red	stiff	-	no	90	5	5	med	low	

Client:
Address: 350 Grand

SB- ~~AD-6~~ MW-

Project Number: Boring Location: Date: 3/17/99
Geologist: Troy Buggie (Scientist) Drilling Method: Power Probe Time: 12:00

Depth (ft)	Sample Interval	Time/Blow Cnt.	Well Const. DID	USC Class.	Soil Type and Comments	Color	Pen. Resist.	Moisture	odor	Percentages				Plasticity	Permeability	
										Clay	Silt	Sand	Gravel			
0-5	5				Asphalt - ~4-5" Brown fill/Roadbase clayey sand	brown	soft	Dry	-		25	5	65	5	low	high
5-10			5.5		Same	brown	soft	Slightly moist			25	5	65	5	low med	med
10-15			11		clayey sand	Dr. Brown	Soft	wet	none		10	5	80	5	low	med. high
15-20			19		Sandy clay	Brown	Stiff	moist	φ		60	5	35		med	low
20-25			19		Sandy clay	brown	med. stiff	sl. moist	φ		60	5	35		med	low
25-30			19		Sandy clay	brown	med. stiff	sl. moist	φ		60	5	35		Med	low

QUICK FAX OfficeMax

Date: _____ # of Pages: _____

To: Scott Seery From: T. BUGGLE

Co./Dept. _____ Co./Dept. _____

Fax: 337-9335 Fax: _____

Phone: _____ Phone: _____

Note: 3 pages E-Mail: _____



**Sequoia
Analytical**

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Proj. ID: Shell 350 Grand Ave, Oakland

Received: 03/18/99

Lab Proj. ID: 9903A94

Reported: 04/13/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 55 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Notes:

EPA Method 8020/8015(mod.)-Gas:

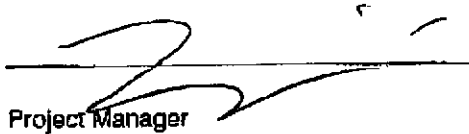
The analyses for Total Purgeable Hydrocarbons, BTEX, and MTBE were subcontracted to Sequoia Analytical-San Carlos.

Sample 9903A94-16 had a high surrogate recovery due to the sample's matrix effect.

General Chemical Properties:

The analyses for Porosity, Permeability, and Bulk Density were subcontracted to Core Laboratories.

SEQUOIA ANALYTICAL


Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-19.5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-01	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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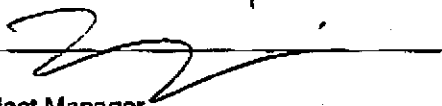
QC Batch Number: GC0329990HBPEXA
 Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	5.8 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-15' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-02	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	3.8 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 93

Analytes reported as N.D. were not present above the stated limit of detection.

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Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-10' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-03	Sampled: 03/17/99 Received: 03/16/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	3.1
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave. Oakland Sample Descript: HP-6-B Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-04	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329990HBPEXA
 Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	5.2
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	96

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager



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FAX (650) 232-9612

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
	Sample Descript: HP-6-5'	Received: 03/18/99
	Matrix: SOLID	Extracted: 03/29/99
	Analysis Method: EPA 8015 Mod	Analyzed: 03/31/99
	Lab Number: 9903A94-05	Reported: 04/13/99


QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	83

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-5-14.5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-06	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329890HBPEXA
 Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	5.6 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 57

Analytes reported as N.D. were not present above the stated limit of detection.

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Darryk Atalde

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-5-10'
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9903A94-07

Sampled: 03/17/99
Received: 03/18/99
Extracted: 03/29/99
Analyzed: 03/31/99
Reported: 04/13/99

QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	1.8 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager





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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-5-7 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-08	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329990HBPEXA
 Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	4.8
		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	124

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Project Manager





Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-5-5
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9903A94-09

Sampled: 03/17/99
Received: 03/18/99
Extracted: 03/29/99
Analyzed: 03/31/99
Reported: 04/13/99

Attention: Darryk Atalde


QC Batch Number: GC0329990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	1.0	1.1
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





Sequoia Analytical

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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-4-5.5' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-10	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
Attention: Darryk Ataide		


QC Batch Number: GC0329990HBPEXA
 Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	87

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Project Manager





Sequoia Analytical

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31 Cambria	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
1144 65th St. Suite C	Sample Descript: HP-4-10'	Received: 03/18/99
Oakland, CA 94608	Matrix: SOLID	Extracted: 03/30/99
Attention: Darryk Ataide	Analysis Method: EPA 8015 Mod	Analyzed: 04/01/99
	Lab Number: 9903A94-11	Reported: 04/13/99


QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel	20	140
Chromatogram Pattern: Unidentified HC		C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	111

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





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FAX (650) 232-9612

<p>Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide</p>	<p>Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-4-15.0' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-12</p>	<p>Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99</p>
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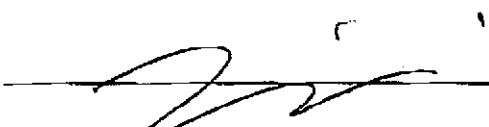
QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	52

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Project Manager





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FAX (916) 921-0100
FAX (707) 792-0342
FAX (650) 232-9612

Cambria 1144 65th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-6-20' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-13	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	1.4 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 84

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





**Sequoia
Analytical**

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Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-5-15' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-14	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99
Attention: Darryk Ataide		
QC Batch Number: GC0330990HBPEXA		
Instrument ID: GCHP5A		

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	68

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager

Page:

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Sequoia Analytical

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Cambria 1144 85th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland Sample Descript: HP-4-15.5' Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-15	Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/30/99 Analyzed: 04/01/99 Reported: 04/13/99
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QC Batch Number: GC0330990HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern: Unidentified HC	1.0	5.1 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 150 67

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





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FAX (650) 232-9612

Cambria 1144 85th St. Suite C Oakland, CA 94608 Attention: Darryk Ataide	Client Proj. ID: Shell Sample Description: HP-4 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9903A94-16	350 Grand Ave, Oakland Sampled: 03/17/99 Received: 03/18/99 Extracted: 03/29/99 Analyzed: 03/31/99 Reported: 04/13/99
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QC Batch Number: GC0329990HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	5000	83000 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager



Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-4
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9903A94-16

Sampled: 03/17/99
Received: 03/18/99

Analyzed: 03/29/99
Reported: 04/13/99

Attention: Darryk Ataide

QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	20000	100000
Methyl Butyl Ether	1000	2000
Benzene	200	1600
Toluene	200	420
Ethyl Benzene	200	590
Xylenes (Total)	200	280
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70	130
		134 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Project Manager





Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Darryk Ataide

QC Batch Number: GC0329990HBPEXB
Instrument ID: GCHP5A

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-5
Matrix: LIQUID
Analysis Method: EPA 8015 Mod
Lab Number: 9903A94-17


Sampled: 03/17/99
Received: 03/18/99
Extracted: 03/29/99
Analyzed: 03/31/99
Reported: 04/13/99

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern: Unidentified HC	50	160
Surrogates n-Pentacosane (C25)	Control Limits % 50	% Recovery 95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





Sequoia Analytical

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Cambria
1144 65th St. Suite C
Oakland, CA 94608

Attention: Darryk Ataide

QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Client Proj. ID: Shell 350 Grand Ave, Oakland
Sample Descript: HP-5
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9903A94-17


Sampled: 03/17/99
Received: 03/18/99
Analyzed: 03/29/99
Reported: 04/13/99

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





Sequoia Analytical

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Cambria
 1144 65th St. Suite C
 Oakland, CA 94608

Client Proj. ID: Shell 350 Grand Ave, Oakland
 Sample Descript: HP-6
 Matrix: LIQUID
 Analysis Method: EPA 8015 Mod
 Lab Number: 9903A94-18

Sampled: 03/17/99
 Received: 03/18/99
 Extracted: 03/29/99
 Analyzed: 03/31/99
 Reported: 04/13/99

Attention: Darryk Ataide


QC Batch Number: GC0329990HBPEXB
 Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


 Project Manager





Sequoia Analytical

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FAX (650) 232-9612

Cambria 1144 65th St. Suite C Oakland, CA 94608	Client Proj. ID: Shell 350 Grand Ave, Oakland	Sampled: 03/17/99
	Sample Descript: HP-5	Received: 03/18/99
Attention: Darryk Atalde	Matrix: LIQUID	Analyzed: 03/29/99
	Analysis Method: 8015Mod/8020	Reported: 04/13/99
	Lab Number: 9903A94-18	


QC Batch Number: GC032999BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	5.2
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210


Project Manager





**Sequoia
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Cambria
1144 85th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 01-10

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015M
Analyst: J.BONNVILLE

ANALYTE Diesel

QC Batch #: GC0329990HBPEXA

Sample No.: 9903812-13
Date Prepared: 3/25/99
Date Analyzed: 3/26/99
Instrument I.D.#: GCHP4B

Sample Conc., mg/Kg: 16 mg/Kg
Conc. Spiked, mg/Kg: 17

Matrix Spike, mg/Kg: 28
% Recovery: 71

Matrix
Spike Duplicate, mg/Kg: 28
% Recovery: 71

Relative % Difference: 0.0

RPD Control Limits: 0-50

MS/MSD ARE REFERRED FROM
GC0325990HBPEXA

LCS Batch#: BLK032999AS

Date Prepared: 3/29/99
Date Analyzed: 3/30/99
Instrument I.D.#: GCHP6A

Conc. Spiked, mg/Kg: 17

Recovery, mg/Kg: 13
LCS % Recovery: 76

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL


Kayvan Kimyar
Project Manager

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



**Sequoia
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FAX (650) 232-9612Cambria
1144 85th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 16-18

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORTMatrix: Liquid
Method: EPA 8020
Analyst: MM

ANALYTE Benzene Toluene Ethylbenzene Xylenes

QC Batch #: GC032999BTEX03A

Sample No.:	9903A64-1			
Date Prepared:	3/28/99	3/28/99	3/28/99	3/28/99
Date Analyzed:	3/28/99	3/28/99	3/28/99	3/28/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Matrix Spike Duplicate, ug/L:	11	11	11	32
% Recovery:	110	110	110	107
Relative % Difference:	0.0	0.0	0.0	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#: GC032999BTEX03A

Date Prepared:	3/29/99	3/29/99	3/29/99	3/29/99
Date Analyzed:	3/29/99	3/29/99	3/29/99	3/29/99
Instrument I.D.#:	GCHP03	GCHP03	GCHP03	GCHP03
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.3	11	11	32
LCS % Recovery:	93	110	110	107

Percent Recovery Control Limits:

MS/MSD	80-140	50-140	80-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL


Kavan Kimyal
Project Manager




**Sequoia
Analytical**

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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 11-15

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix: Solid
Method: EPA 8015M
Analyst: J.BONNVILLE

ANALYTE Diesel

QC Batch #: GC0330990HBPEXA

Sample No.: 9903A94-13
Date Prepared: 3/30/99
Date Analyzed: 3/31/99
Instrument I.D.#: GCHP5A

Sample Conc., mg/Kg: 1.4 mg/Kg
Conc. Spiked, mg/Kg: 17

Matrix Spike, mg/Kg: 11
% Recovery: 56

Matrix
Spike Duplicate, mg/Kg: 11
% Recovery: 56

Relative % Difference: 0.0

RPD Control Limits: 0-50

LCS Batch#: BLK033099AS

Date Prepared: 3/30/99
Date Analyzed: 3/31/99
Instrument I.D.#: GCHP5A

Conc. Spiked, mg/Kg: 17

Recovery, mg/Kg: 14
LCS % Recovery: 82

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	80-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kayleen Kimysi
Project Manager

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





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Cambria
1144 65th St. Suite C
Oakland, CA 94608
Attention: Darryk Ataide

Client Project ID: Shell 350 Grand Ave, Oakland

QC Sample Group: 9903A94 16-18

Reported: Apr 14, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015A
Analyst: J.BONNVILLE

ANALYTE Diesel

QC Batch #: GC0329990HBPEXB

Sample No.: 9903924-1
Date Prepared: 3/29/99
Date Analyzed: 3/30/99
Instrument I.D.#: GCHP5A

Sample Conc., ug/L: N.D.
Conc. Spikad, ug/L: 1000

Matrix Spike, ug/L: 860
% Recovery: 86

Matrix
Spike Duplicate, ug/L: 820
% Recovery: 82

Relative % Difference: 4.8

RPD Control Limits: 0-50

LCS Batch#: BLK03299985

Date Prepared: 3/29/99
Date Analyzed: 3/30/99
Instrument I.D.#: GCHP5A

Conc. Spikad, ug/L: 1000

Recovery, ug/L: 670
LCS % Recovery: 67

Percent Recovery Control Limits:

MS/MSD 50-150
LCS 60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Kayvan Kimyaz
Project Manager



**CORE LABORATORIES**

April 5, 1999

K. Kimyai
Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063

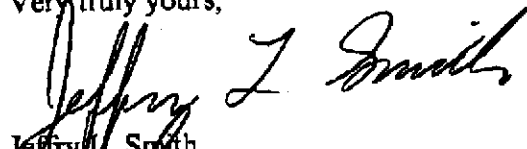
Subject : Transmittal of Geotechnical Analysis Data
SA Work order # P9903A94
Core Lab File No. 57111-99065

Dear K. Kimyai :

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density, total porosity, permeability to air and water saturation were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities, water saturations, permeability to air and total porosity measurements and calculations were performed as described in API RP-40, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,


Jeffrey L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw

1 original report, 1 cc report. Addressee



Sequoia Analytical
 (Redwood City)
 Cambria -9903A94

File No.:57111-99065

Sample ID		Permeability Vertical (Kair)		Porosity (Total) %	Water Saturation %PV	Density			Description
Fraction	Desc.	md	cm/sec			Dry Bulk g/cc	Natural Bulk g/cc	Grain g/cc	
13	HP-8-20.0'	442.0	3.79E-04	26.0	99.4	1.95	2.21	2.63	Gray v silty vf-gran clayey sd
14	HP-5-15.0'	<1.0	< 8.58E-07	40.4	99.8	1.55	1.95	2.59	Gray clayey silt
15	HP-4-15.5'	<1.0	< 8.58E-07	30.5	99.7	1.81	2.12	2.61	Gray vf-pbly sandy silty clay

Permeability to air, total porosity, fluid saturations, grain and pore volumes were determined as per API RP-40.

Sequoia Analytical
(Redwood City)
Cambria -9903494

File No.:57111-99065

Sample ID		Permeability Horizontal (Kair)		Porosity (Total)	Water Saturation	Density			Description
						Dry Bulk	Natural Bulk	Grain	
Fraction	Desc.	md	cm/sec	%	%PV	g/cc	g/cc	g/cc	
13	HP-6-20'	442.0	3.79E-04	26.0	99.4	1.95	2.21	2.63	Gray v silty vf-gran clayey sd
14	HP-5-15'	<1.0	8.58E-07	40.4	99.8	1.55	1.95	2.59	Gray clayey slit
15	HP-4-15.5'	<1.0	8.58E-07	30.5	99.7	1.81	2.12	2.61	Gray vf-pbly sandy silty clay

Permeability to air, total porosity, fluid saturations, grain and pore volumes were determined as per API RP-40.



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April 5, 1999

Kayvan Kimyai
Sequoia - Redwood City
680 Chesapeake Drive
Redwood City, CA 94063

RE: Kayvan Kimyai/L903297

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 30, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Gregory
Project Manager D.M.





**Sequoia
Analytical**

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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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ANALYTICAL REPORT FOR L903297

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
9903A94-01/HP-6-19.5'	L903297-01	Soil	3/17/99
9903A94-02/HP-6-15'	L903297-02	Soil	3/17/99
9903A94-03/HP-6-10'	L903297-03	Soil	3/17/99
9903A94-04/HP-6-8'	L903297-04	Soil	3/17/99
9903A94-05/HP-6-5'	L903297-05	Soil	3/17/99
9903A94-06/HP-5-14.5'	L903297-06	Soil	3/17/99
9903A94-07/HP-5-5-10'	L903297-07	Soil	3/17/99
9903A94-08/HP-5-7'	L903297-08	Soil	3/17/99
9903A94-09/HP-5-5'	L903297-09	Soil	3/17/99
9903A94-10/HP-4-5'	L903297-10	Soil	3/17/99
9903A94-11/HP-4-10'	L903297-11	Soil	3/17/99
9903A94-12/HP-4-15.0'	L903297-12	Soil	3/17/99
9903A94-13/HP-6-20'	L903297-13	Soil	3/17/99
9903A94-14/HP-5-15'	L903297-14	Soil	3/17/99
9903A94-15/HP-4-15.5'	L903297-15	Soil	3/17/99





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-01/HP-6-19.5'**
 Laboratory Sample Number: **L903297-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			93.5	%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130				





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-02/HP-6-15'**
 Laboratory Sample Number: **L903297-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>o,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		90.5	%	





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-03/HP-6-10***
 Laboratory Sample Number: **L903297-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			84.5	%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130				





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: 9903A94-04/HP-6-8'
Laboratory Sample Number: L903297-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		90.5	%	





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: 9903A94-05/HP-6-5'
Laboratory Sample Number: L903297-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>o,p,p'</i> -Trifluorotoluene	"	"	"	70.0-130		89.5	%	



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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-06/HP-5-14.5'**
 Laboratory Sample Number: **L903297-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			87.5	%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130				





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description:

Laboratory Sample Number:

9903A94-07/HP-5-5-10'
L903297-07

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			91.5	%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130				





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-08/HP-5-7'**
 Laboratory Sample Number: **L903297-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		91.5	%	





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-09/HP-5-5'**
 Laboratory Sample Number: **L903297-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		84.5	%	





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: **9903A94-10/HP-4-5'**
Laboratory Sample Number: **L903297-10**

Analytic	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		89.0	%	





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Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
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Sample Description: 9903A94-11/HP-4-10'
 Laboratory Sample Number: L903297-11

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		50.0	408	mg/kg	1
Benzene	"	"	"		0.250	2.22	"	
Toluene	"	"	"		0.250	2.57	"	
Ethylbenzene	"	"	"		0.250	ND	"	
Xylenes (total)	"	"	"		0.250	0.350	"	
Methyl tert-butyl ether	"	"	"		2.50	2.52	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		11.4	%	





Sequoia Analytical

680 Chesapeake Drive
 404 N. Wiget Lane
 819 Striker Avenue, Suite 8
 1455 McDowell Blvd. North, Ste. D
 1551 Industrial Road

Redwood City, CA 94063 (650) 364-9600
 Walnut Creek, CA 94598 (925) 988-9600
 Sacramento, CA 95834 (916) 921-9600
 Petaluma, CA 94954 (707) 792-1865
 San Carlos, CA 94070-4111 (650) 232-9600

FAX (650) 364-9233
 FAX (925) 988-9673
 FAX (916) 921-0100
 FAX (707) 792-0342
 FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Sample Description: **9903A94-12/HP-4-15.0'**
 Laboratory Sample Number: **L903297-12**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	1.91	mg/kg	1
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	0.0151	"	
Xylenes (total)	"	"	"		0.00500	0.00510	"	
Methyl tert-butyl ether	"	"	"		0.0500	0.132	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	70.0-130		93.5	%	





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 FAX (916) 921-0100
 FAX (707) 792-0342
 FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Sample Description: **9903A94-13/HP-6-20'**
 Laboratory Sample Number: **L903297-13**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			86.0	%	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130				





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 FAX (916) 921-0100
 FAX (707) 792-0342
 FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Sample Description: **9903A94-14/HP-5-15'**
 Laboratory Sample Number: **L903297-14**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	ND	"	
Methyl tert-butyl ether	"	"	"			82.0	%	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	70.0-130				





Sequoia Analytical

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 (707) 792-1865
 (650) 232-9600

510 420 9170 P. 47756
 FAX (650) 354-9633
 FAX (925) 988-9673
 FAX (916) 921-0100
 FAX (707) 792-0342
 FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Sample Description: **9903A94-15/HP-4-15.5'**
 Laboratory Sample Number: **L903297-15**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9040012	3/30/99	3/30/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	0.00560	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.0500	0.110	"	
Methyl tert-butyl ether	"	"	"			87.5	%	
Surrogate: <i>o,o,o</i> -Trifluorotoluene	"	"	"	70.0-130				





**Sequoia
Analytical**

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FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9040012		Date Prepared: 3/30/99		Extraction Method: EPA 5030B [P/T]						
Blank	9040012-BLK1									
Purgeable Hydrocarbons as Gasoline	3/30/99			ND	mg/kg	1.00				
Benzene	"			ND	"	0.00500				
Toluene	"			ND	"	0.00500				
Ethylbenzene	"			ND	"	0.00500				
Xylenes (total)	"			ND	"	0.00500				
Methyl tert-butyl ether	"			ND	"	0.0500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.185	"	70.0-130	92.5			
LCS		9040012-BS1								
Benzene	3/30/99	0.200		0.211	mg/kg	70.0-130	105			
Toluene	"	0.200		0.218	"	70.0-130	109			
Ethylbenzene	"	0.200		0.227	"	70.0-130	113			
Xylenes (total)	"	0.600		0.675	"	70.0-130	112			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.210	"	70.0-130	105			
Matrix Spike		9040012-MS1		L903297-01						
Benzene	3/30/99	0.200	ND	0.156	mg/kg	60.0-140	78.0			
Toluene	"	0.200	ND	0.159	"	60.0-140	79.5			
Ethylbenzene	"	0.200	ND	0.167	"	60.0-140	83.5			
Xylenes (total)	"	0.600	ND	0.499	"	60.0-140	83.2			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.167	"	70.0-130	83.5			
Matrix Spike Dup		9040012-MSD1		L903297-01						
Benzene	3/30/99	0.200	ND	0.185	mg/kg	60.0-140	92.5	25.0	17.0	
Toluene	"	0.200	ND	0.189	"	60.0-140	94.5	25.0	17.2	
Ethylbenzene	"	0.200	ND	0.202	"	60.0-140	101	25.0	19.0	
Xylenes (total)	"	0.600	ND	0.596	"	60.0-140	99.3	25.0	17.6	
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.185	"	70.0-130	92.5			





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FAX (650) 232-9612

Sequoia - Redwood City 680 Chesapeake Drive Redwood City, CA 94063	Project: Kayvan Kimyai Project Number: 9903A94(Cambria) Project Manager: Kayvan Kimyai	Sampled: 3/17/99 Received: 3/30/99 Reported: 4/5/99
--	--	---

Notes and Definitions

#	Note
1	Chromatogram Pattern: C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference



510 420 9170 P.50/56

CAMBRIA

APR-28-1999 16:40

L903297

SEQUOIA ANALYTICAL
880 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

SUB-CHAIN OF CUSTODY

PROJECT SUBBED TO:

San Carlos

TAT REQUESTED:

<input type="checkbox"/>	24H	<input type="checkbox"/>	5D
<input type="checkbox"/>	48H	<input type="checkbox"/>	10D
<input type="checkbox"/>	72H		

DUE DATE: 3/30

REPORT TO: K. King

WORKORDER #
99-03-A94

PROJECT NAME:
San Carlos

ANALYSIS REQUESTED

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPH GAS	DTEX FTDE	ANALYSIS REQUESTED						REMARKS	
01	HP-6-19.5'	S	1		3/27	X									
02	15'														
03	10'														
04	8'														
05	5'														
06	HP-5-14.5'														
07	10'														
08	7'														
09	5'														
10	HP-4-5'														
11	10'														

RELINQUISHED FROM SEQUOIA BY: [Signature] DATE 3/27 TIME

RECEIVED BY: [Signature] DATE 3/30/99 TIME 1430

SAMPLE CONDITION? YES

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

TEMP? 8.2°C

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

510 420 9170 P.51756

CAMBRIA

APR-28-1999 16:40

L903297

SEQUOIA ANALYTICAL
880 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-384-9600 FAX415-364-9233

SUB-CHAIN OF CUSTODY

PROJECT SUBBED TO:

San Carlos

TAT REQUESTED:

<input type="checkbox"/>	24H	<input type="checkbox"/>	5D
<input type="checkbox"/>	48H	<input type="checkbox"/>	10D
<input type="checkbox"/>	72H		

DUE DATE: 3/30

REPORT TO:

R. Kintari

WORKORDER #

99-03-A94

PROJECT NAME:

COMBAT

ANALYSIS REQUESTED

FRACTION NUMBER

SAMPLE DESCRIPTION

MATRIX

NUMBER OF CONT.

TYPE CONT.

SAMPLING TIME/DATE

TPH YES
BTX METS

REMARKS

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPH YES	BTX METS	ANALYSIS REQUESTED	REMARKS
12	HP-4-15.0"	S	1		3/17	Y			
13	6-20"	↓	↓		↓	↓			
14	5-15"	↓	↓		↓	↓			
15	4-15.5"	↓	↓		↓	↓			

RELINQUISHED FROM SEQUOIA BY: DATE TIME

[Signature]

3/29

RECEIVED BY: DATE TIME

[Signature]

133099

1430

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

RELINQUISHED BY: DATE TIME

RECEIVED BY: DATE TIME

SAMPLE CONDITION?
YES
TEMP?
6.2°C



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No. _____

Date: _____
Page 1 of 3

Silo Address: 350 Grand Ave, Oakland CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petelyna
Phone No: 559-645-1306
Fax #: 559-5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Attide
Phone No: 420-0700
Fax #: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGLE

Printed Name: Troy Buggle

Analysts Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8000/8001) <u>+MTBE</u>	Volatile Organics (EPA 2200)	Test for Disposal	Concentration TPH 8015 & STEX 8000	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							

LAI: Sequim - Redwood City

CHECK ONE (IF BOX EMPTY)	CI/MI	TURN AROUND TIME
Q.W. Monitoring	<input type="checkbox"/> 4465	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4466	48 hours <input type="checkbox"/>
Soil Classify/Disposal	<input type="checkbox"/> 4467	60 days <input checked="" type="checkbox"/> (Mount)
Water Classify/Disposal	<input type="checkbox"/> 4468	60 days <input type="checkbox"/>
Soil/Air Tests of Vols. O & M	<input type="checkbox"/> 4469	11000; (Monthly tests as soon as possible of 24/16 hrs. T&L)
Water Tests of Vols. O & M	<input type="checkbox"/> 4470	
Other	<input type="checkbox"/>	

TEST AGENCY: _____

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
01	See
02	Page 3
03	- Confirm
04	highest soil
05	and highest water MTBE
06	concentration
07	via EPA 8260
08	

Sample ID	Date	Mud	Soil	Water	Air	No. of canis.
HP-6-195'	3/17/99		X			1
HP-6-15'			X			1
HP-6-10'			X			1
HP-6-8'			X			1
HP-6-5'			X			1
HP-5-14.5'			X			1
HP-5-10.5'			X			1
HP-5-7'			X			1

Authorized By (signature): Troy Buggle
Printed Name: TROY BUGGLE
Date: 3/18/99

Received (signature): [Signature]
Printed Name: LANCE DAVISON
Date: 3-18-99

Printed Name: LANCE DAVISON
Printed Name: WELLS LANE
Date: 3-18-99

THE LABORATORY MUST PROVIDE A COPY OF THE CHAIN OF CUSTODY WITH INVOICE AND RESULTS

510 420 9170 P.52756

CAMBRIA

APR-28-1999 16:40



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
 Serial No: _____

Date: 2 of 3
 Page 2 of 3

Site Address: 350 Grand Ave, Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna
 Phone No: 559-645-9306
 Fax #: 559-5143

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryl Attaide
 Phone No: 420-0700
 Fax #: 420-9170

Combitels: 9903AG4

Sampled by: Troy Buggle

Printed Name: Troy Buggle

Analysis Required

TPH EPA 8015 Mod. GSA	TPH EPA 8015 Mod. Diesel	TEX EPA 8002/8002 + MRE	Volatile Organics (EPA 8210)	Test for Disposal	Concentration TPH 8015 & BTEX 8002	Soil Properties	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X								
X	X	X								

LAL: Sequoia Redwood City

CHECK ONE (1) OR OTHER	CA/DT	DURATION
Q.W. Monitoring	<input type="checkbox"/> 4401	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4402	48 hours <input type="checkbox"/>
Initial Classification	<input type="checkbox"/> 4403	15 days <input checked="" type="checkbox"/> (initial)
Water Classification	<input type="checkbox"/> 4404	Other <input type="checkbox"/>
Soil/Air Resp. or Sp. O & M	<input type="checkbox"/> 4405	11/11/11 (Hobby) or as soon as Possible of 24/48 hrs. LAL
Water Resp. or Sp. O & M	<input type="checkbox"/> 4406	
Other	<input type="checkbox"/>	

TEST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
09	
10	
11	
12	
13	Soil Prop.
14	↓
15	↓

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.
HP-5-5'	3/17/99		X			1
HP-4-55'			X			1
HP-4-10'			X			1
HP-4-15.0'			X			1
HP-6-20'			X			1
HP-5-15'			X			1
HP-4-155'			X			1

Requested By (signature): [Signature]
 Requested By (signature): [Signature]
 Requested By (signature): [Signature]

Printed Name: TROY BUGGLE
 Printed Name: CANCEZ DAVIDSON
 Printed Name: _____

Date: 3/18/99
 Time: 10:30
 Date: 3/18/99
 Time: _____
 Date: _____
 Time: _____

Received (signature): [Signature]
 Received (signature): [Signature]
 Received (signature): _____

Printed Name: CANCEZ DAVIDSON
 Printed Name: NOELLE LANE
 Printed Name: _____

Date: 3/18/99
 Time: 13:50
 Date: 3/18/99
 Time: 16:11
 Date: _____
 Time: _____

APR-28-1999 16:41 CAMBRIA 510 420 9170 P.53/56



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 3/3
Page 3 of 3

Site Address: 350 Grand Ave, Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petersen Phone No: 559-645-9306
Fax #: -5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Danyk Ataide Phone No: 510-420-0700
Fax #: 420-9170

Comments: 9903A94

Sampled by: Troy Buggle

Printed Name: Troy Buggle

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combustion TPH 8015 & BTX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							

LAB: Sequia - Redwood City

CHECK ONE (1) BOX ONLY	CI/ID	TURB AROUND TIME
n.w. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Int. Classification	<input type="checkbox"/> 4442	96 days <input checked="" type="checkbox"/> (Classified)
Water Chemistry/Disposal	<input type="checkbox"/> 4443	Other <input type="checkbox"/>
Leachate Test at Site, O & M	<input type="checkbox"/> 4444	(NOTE: Daily Lab on such as Permits of 24/68 hrs. IAL)
Water Test at Site, O & M	<input type="checkbox"/> 4445	
Other	<input type="checkbox"/>	

TEST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
16	X Confirm
17	highest MTP
18	in Water/so
	Samples by
	EPA Method
	8260/4
	Hold
	Hold
	Hold

x
x
x
x
x
x
x

Requested By (Signature): Troy Buggle
Requested By (Signature): LAUCE S. DAVIDSON
Requested By (Signature): _____

Printed Name: Troy Buggle
Printed Name: LAUCE S. DAVIDSON
Printed Name: _____

Date: 3/18/99
Time: 10:30
Date: 3/18/99
Time: _____
Date: _____
Time: _____

Received (Signature): [Signature]
Received (Signature): [Signature]
Received (Signature): _____

Printed Name: LAUCE S. DAVIDSON
Printed Name: Noelle Lane
Printed Name: _____

Date: 3/18/99
Time: 13:30
Date: 3/18/99
Time: 1011
Date: _____
Time: _____

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

APP-28-1-1999 16:41
CAMBRIA
510 420 9170 P. 54/56



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
 Serial No: _____

Date: _____
 Page 1 of 3

Site Address: 350 Grand Ave, Oakland CA

WIC#: 204-5510-0204

Shell Engineer: Karen Petryna Phone No: 559-645-7306
 Fax No: 559-5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Attarde Phone No: 510-420-0700
 Fax No: 420-9170

Comments: 9903A94

Sampled by: TROY BUGGE

Printed Name: Troy Bugge

Analysis Required

TPH (EPA 8015 Mod. C03)	TPH (EPA 8015 Mod. D100)	STX (EPA 8020/8021)	Volatile Organics (EPA 8210)	Test for Disposal	Combustion TPH 8015 & STX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							

LAB: Saguica - Redwood City

CHECK ONE (S) BOX ONLY	CI/DT	TURID AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4661	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	443	48 hours <input type="checkbox"/>
Soil Chemistry/Inorganic <input type="checkbox"/>	4443	16 days <input checked="" type="checkbox"/> (Plaster)
Water Chemistry/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Water Tests of Eye, O & M <input type="checkbox"/>	4657	
Water Tests of Eye, O & M <input type="checkbox"/>	4657	
Other <input type="checkbox"/>		

TEST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
01	See
02	Page 3.
03	- Confirm
04	highest soil
05	and highest water mTBE
06	concentration
07	via EPA 8261
08	

Sample ID	Date	Sludge	Sol	Water	At	No. of conds.
HP-6-19.5'	3/17/99		X			1
HP-6-15'			X			1
HP-6-10'			X			1
HP-6-8'			X			1
HP-6-5'			X			1
HP-5-14.5'			X			1
HP-5-10.5'			X			1
HP-5-7'			X			1

Retrieved By (Signature): Troy Bugge

Printed Name: TROY BUGGE
 Retrieved By (Signature): LANCE DAVISON
 Printed Name: LANCE DAVISON

Date: 3/18/99
 Time: 10:30
 Date: 3-18-99
 Name: _____
 Date: _____
 Name: _____

Received (Signature): [Signature]
 Received (Signature): [Signature]
 Received (Signature): _____

Printed Name: LANCE DAVISON
 Retrieved By (Signature): [Signature]
 Printed Name: _____

Date: 3-18-99
 Time: 13:28
 Date: 3/18/99
 Name: [Signature]
 Date: _____
 Name: _____

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN OF CUSTODY WITH INVOICE AND RESULTS.

APP-28-1999 16:42 CAMBRIA 5101 420 9170 P.33/36



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 2/3
Page 2 of 3

Site Address: 350 Grand Ave, Oakland, CA

WICH: 204-5510-0204

Shell Engineer: Karen Petryna Phone No: 559-645-9306
Fax #: 559-5643

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide Phone No: 510-420-0700
Fax #: 510-9170

Comments: 9903A94

Sampled by: TRAY BUGGLE

Printed Name: Tray Buggle

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gen)	TPH (EPA 8015 Mod. Dissol)	STEX (EPA 8020/8021 4-MIBE)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEX 8020	Soil Properties	Asbestos	Container Size	Preparation Used	Composite Y/N	
HP-5-5'	3/17/99		X			1	X	X	X									
HP-4-55'			X			1												
HP-4-10'			X			1												
HP-4-15.0'			X			1	X	X	X									
HP-6-20'			X			1							X					
HP-5-15'			X			1							X					
HP-4-155'			X			1							X					

LAD: Sequoia Redwood City

CHECK ONE (1) BOX ONLY	CODE	TURN AROUND TIME
<input type="checkbox"/>	4401	24 hours <input type="checkbox"/>
<input checked="" type="checkbox"/>	4401	48 hours <input type="checkbox"/>
<input type="checkbox"/>	4403	14 days <input checked="" type="checkbox"/> (Minimum)
<input type="checkbox"/>	4403	Other <input type="checkbox"/>
<input type="checkbox"/>	4402	NOI: Study to be done at Facility of 24716 sq. ft. IAL
<input type="checkbox"/>	4403	
<input type="checkbox"/>		

TEST AGENCY: _____

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
09	
10	
11	
12	
13	Soil Prop.
14	
15	

Requested by (signature): [Signature]
Requested by (signature): [Signature]
Requested by (signature): [Signature]

Printed Name: TRAY BUGGLE
Printed Name: KAREN PETRYNA
Printed Name: _____

Date: 3/18/99
Time: 10:30
Date: 3/14/99
Time: _____
Date: _____
Time: _____

Received (signature): [Signature]
Received (signature): [Signature]
Received (signature): _____

Printed Name: CAROL DAVIDSON
Printed Name: NOEL LANE
Printed Name: _____

Date: 5/1/99
Time: 134
Date: 3/18/99
Time: 10:11
Date: _____
Time: _____

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

TOTAL P. 56

APP-28-1999 16:42 CAMBRIA 510 420 9170 P. 56/56