



Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: G-1
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604H54-01

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 05/01/96
Reported: 05/07/96

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	430 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 84

ENVIRONMENTAL
PROTECTION
96 AUG 19 PM 2:24

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-01	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	300	840
Benzene	1.5	N.D.
Toluene	1.5	N.D.
Ethyl Benzene	1.5	7.0
Xylenes (Total)	1.5	5.0
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-02	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	17 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	55

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-2 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-02	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
Attention: Brian Busch		

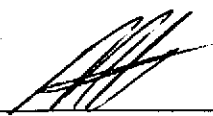
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.0	9.1
Benzene	0.010	0.025
Toluene	0.010	0.34
Ethyl Benzene	0.010	0.072
Xylenes (Total)	0.010	0.93
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-3 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-03	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	11 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-3 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-03	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
Attention: Brian Busch		


QC Batch Number: GC042996BTEXEXA
 Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	4.4
Benzene	0.0050	0.0087
Toluene	0.0050	0.020
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.014
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
 Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: G-4	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: EPA 8015 Mod	Analyzed: 05/01/96
	Lab Number: 9604H54-04	Reported: 05/07/96

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	420 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	83

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-04	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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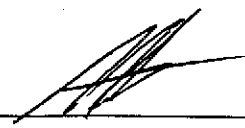
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	300	830
Benzene	1.5	N.D.
Toluene	1.5	N.D.
Ethyl Benzene	1.5	10
Xylenes (Total)	1.5	5.5
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-05	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	5.0	100 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 73

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-05	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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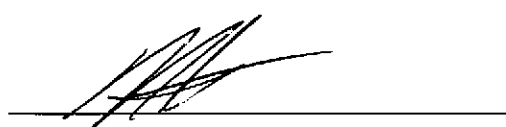
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	20	130
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	0.17
Xylenes (Total)	0.10	0.74
Chromatogram Pattern:		C6-C12
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



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: G-6
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604H54-06

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 05/02/96
Reported: 05/07/96

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	50	1600 C9-C18
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-6 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-06	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
Attention: Brian Busch		

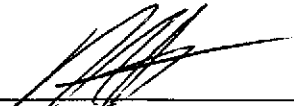
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2000	4100
Benzene	10	N.D.
Toluene	10	N.D.
Ethyl Benzene	10	17
Xylenes (Total)	10	12
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-7 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-07	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/03/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	50	1900 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	50

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-7 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-07	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	600	2700
Benzene	3.0	N.D.
Toluene	3.0	N.D.
Ethyl Benzene	3.0	8.8
Xylenes (Total)	3.0	14
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-8 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-08	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	210 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: G-8 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-08	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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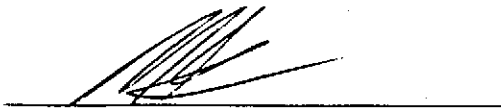
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	340
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	0.25	0.77
Xylenes (Total)	0.25	0.94
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	119

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: D-1 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-09	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	59 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 97

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: D-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-09	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	250
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	0.25	0.89
Xylenes (Total)	0.25	2.7
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	112

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: D-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-10	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	230 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	122

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: D-2	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/29/96
	Lab Number: 9604H54-10	Reported: 05/07/96


QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	25	230
Benzene	0.12	N.D.
Toluene	0.12	N.D.
Ethyl Benzene	0.12	0.46
Xylenes (Total)	0.12	1.3
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	87

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-1 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-11	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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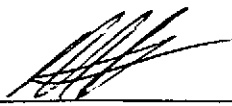
QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	2.0 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 99

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-11	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	0.57
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-12	Sampled: 04/22/96 Received: 04/24/96 Extracted: 05/01/96 Analyzed: 05/02/96 Reported: 05/07/96
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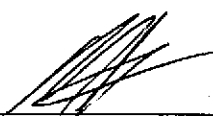
QC Batch Number: GC0429960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	64 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



Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: DISP-2	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/29/96
	Lab Number: 9604H54-12	Reported: 05/07/96

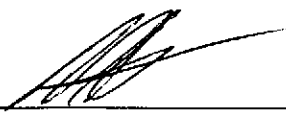
QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	420
Benzene	0.50	N.D.
Toluene	0.50	1.4
Ethyl Benzene	0.50	5.1
Xylenes (Total)	0.50	22
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	100

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: DISP-3
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604H54-13

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 05/02/96
Reported: 05/07/96

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	49 C9-C24
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

Mike Gregory
Project Manager





Weiss Associates Client Proj. ID: Shell 350 Grand Ave., Oakland Sampled: 04/22/96
5500 Shellmound Sample Descript: DISP-3 Received: 04/24/96
Emeryville, CA 94608 Matrix: SOLID Extracted: 04/29/96
Attention: Brian Busch Analysis Method: 8015Mod/8020 Analyzed: 04/29/96
Lab Number: 9604H54-13 Reported: 05/07/96

QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 3 columns: Analyte, Detection Limit mg/Kg, Sample Results mg/Kg. Rows include TPHH as Gas (9.2), Benzene (N.D.), Toluene (0.018), Ethyl Benzene (0.059), Xylenes (Total) (0.29), Chromatogram Pattern (C6-C12), and Surrogates (Control Limits % 70-130, % Recovery 90).

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

SEQUOIA ANALYTICAL - ELAP #1210

Handwritten signature of Mike Gregory.

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-4 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-14	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	14 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	56

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-14	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	2.6
Benzene	0.0050	0.065
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	0.053
Xylenes (Total)	0.0050	0.095
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	95

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-15	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/03/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	3.3 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	82

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-15	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/29/96 Reported: 05/07/96
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QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	1.4
Benzene	0.0050	N.D.
Toluene	0.0050	0.0056
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0085
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	93

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-6 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-16	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	4.6 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	58

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Brian Busch

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: DISP-6
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604H54-16

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 04/29/96
Reported: 05/07/96

QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	7.2
Benzene	0.0050	0.0072
Toluene	0.0050	0.012
Ethyl Benzene	0.0050	0.012
Xylenes (Total)	0.0050	0.0075
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-7 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-17	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/02/96 Reported: 05/07/96
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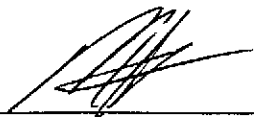
QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	40	2800 C9-C18
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Attention: Brian Busch

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: DISP-7
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604H54-17

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 04/30/96
Reported: 05/07/96

QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2000	4800
Benzene	10	N.D.
Toluene	10	85
Ethyl Benzene	10	35
Xylenes (Total)	10	280
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	102

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-8 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-18	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	20	1400 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	177 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



 Mike Gregory
 Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DISP-8 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-18	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/07/96
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QC Batch Number: GC042996BTEXEXA
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1000	4000
Benzene	5.0	N.D.
Toluene	5.0	120
Ethyl Benzene	5.0	49
Xylenes (Total)	5.0	420
Chromatogram Pattern:		C6-C12

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

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: DISP-9	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: EPA 8015 Mod	Analyzed: 05/01/96
	Lab Number: 9604H54-19	Reported: 05/07/96

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	50	2800 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	146

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: DISP-9	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H54-19	Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	770
Benzene	2.5	3.6
Toluene	2.5	11
Ethyl Benzene	2.5	8.0
Xylenes (Total)	2.5	61
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	107

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-1 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-20	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0429960HBPEXB
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	20	820 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	135

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-20	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/07/96
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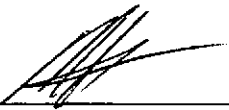
QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	1300
Benzene	0.50	5.5
Toluene	0.50	57
Ethyl Benzene	0.50	24
Xylenes (Total)	0.50	140
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	178 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-21	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
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QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	50	1000 C9-C16
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

Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: P-2
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604H54-21

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 04/30/96
Reported: 05/07/96

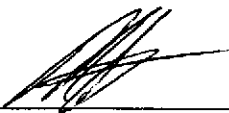
QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	3200
Benzene	2.5	22
Toluene	2.5	130
Ethyl Benzene	2.5	48
Xylenes (Total)	2.5	290
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	135 Q

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-3 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-22	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

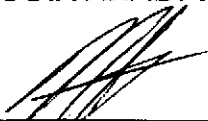
QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	5.8 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	74

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates Client Proj. ID: Shell 350 Grand Ave., Oakland Sampled: 04/22/96
5500 Shellmound Sample Descript: P-3 Received: 04/24/96
Emeryville, CA 94608 Matrix: SOLID Extracted: 04/29/96
Attention: Brian Busch Analysis Method: 8015Mod/8020 Analyzed: 04/30/96
Lab Number: 9604H54-22 Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 3 columns: Analyte, Detection Limit mg/Kg, Sample Results mg/Kg. Rows include TPPH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), and Chromatogram Pattern.

Table with 2 columns: Surrogates, Control Limits % and % Recovery. Row includes Trifluorotoluene with values 70, 130, and 163 Q.

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

SEQUOIA ANALYTICAL - ELAP #1210

Signature of Mike Gregory
Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: P-4	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/30/96
Attention: Brian Busch	Analysis Method: EPA 8015 Mod	Analyzed: 05/02/96
	Lab Number: 9604H54-23	Reported: 05/07/96


QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	10 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	97

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-23	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/07/96
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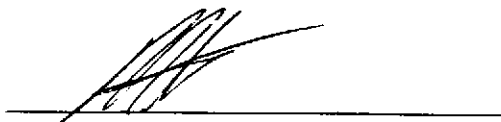
QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	5.0	11
Benzene	0.025	0.23
Toluene	0.025	0.085
Ethyl Benzene	0.025	0.26
Xylenes (Total)	0.025	0.83
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	98

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: P-5
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604H54-24

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/30/96
Analyzed: 05/01/96
Reported: 05/07/96

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	2.1 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	73

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: P-5	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H54-24	Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	1.5
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0077
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	91

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-6 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-25	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.6 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 89

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: P-6	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H54-25	Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	1.1
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	0.0055
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-7 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-26	Sampled: 04/22/96 Received: 04/24/96 Extracted: 05/03/96 Analyzed: 05/05/96 Reported: 05/07/96
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QC Batch Number: GC0429960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	3.7 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	110

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: P-7	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H54-26	Reported: 05/07/96


QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.0	21
Benzene	0.010	N.D.
Toluene	0.010	N.D.
Ethyl Benzene	0.010	0.075
Xylenes (Total)	0.010	0.20
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-8 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-27	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
---	--	--

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	650 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

Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: P-8
Matrix: SOLID
Analysis Method: 8015Mod/8020
Lab Number: 9604H54-27

Sampled: 04/22/96
Received: 04/24/96
Extracted: 04/29/96
Analyzed: 04/30/96
Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	1400
Benzene	2.5	N.D.
Toluene	2.5	17
Ethyl Benzene	2.5	11
Xylenes (Total)	2.5	83
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	96

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-9 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-28	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	610 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	132

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/22/96
5500 Shellmound	Sample Descript: P-9	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H54-28	Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	500	4200
Benzene	2.5	6.8
Toluene	2.5	210
Ethyl Benzene	2.5	74
Xylenes (Total)	2.5	490
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	123

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-10 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-29	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

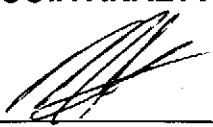
QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	3.7 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



Mike Gregory
Project Manager





Weiss Associates Client Proj. ID: Shell 350 Grand Ave., Oakland Sampled: 04/22/96
5500 Shellmound Sample Descript: P-10 Received: 04/24/96
Emeryville, CA 94608 Matrix: SOLID Extracted: 04/29/96
Attention: Brian Busch Analysis Method: 8015Mod/8020 Analyzed: 04/30/96
Lab Number: 9604H54-29 Reported: 05/07/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 3 columns: Analyte, Detection Limit mg/Kg, Sample Results mg/Kg. Rows include TPHH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), Chromatogram Pattern, and Surrogates (Trifluorotoluene).

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

SEQUOIA ANALYTICAL - ELAP #1210

Signature of Mike Gregory
Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-11 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-30	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/05/96 Reported: 05/07/96
Attention: Brian Busch		

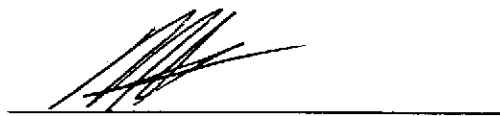
QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	13 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 106

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-11 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-30	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 05/01/96 Reported: 05/07/96
Attention: Brian Busch		

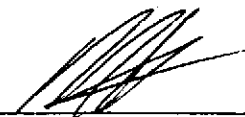
QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	360
Benzene	0.25	1.9
Toluene	0.25	17
Ethyl Benzene	0.25	6.5
Xylenes (Total)	0.25	45
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



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-12 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H54-31	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/02/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	50	460 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	Q

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-12 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H54-31	Sampled: 04/22/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/07/96
Attention: Brian Busch		

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP22

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	240
Benzene	0.50	4.7
Toluene	0.50	N.D.
Ethyl Benzene	0.50	4.8
Xylenes (Total)	0.50	2.1
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	154 Q

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Proj. ID: Shell 350 Grand Ave., Oakland
Lab Proj. ID: 9604H54

Received: 04/24/96
Reported: 05/07/96

LABORATORY NARRATIVE

Q - Surrogate diluted out.
#Q - Surrogate coelution was confirmed.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Weiss & Associates Client Project ID: Shell 350 Grand Ave., Oakland
 5500 Shellmound Matrix: Solid
 Emeryville, CA 94608
 Attention: Brian Busch Work Order #: 9604H54 -01 - 18 Reported: May 7, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042996BTEXEXA	GC042996BTEXEXA	GC042996BTEXEXA	GC042996BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	9604A97-06	9604A97-06	9604A97-06	9604A97-06
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.17	0.17	0.17	0.51
MS % Recovery:	85	85	85	85
Dup. Result:	0.17	0.17	0.17	0.50
MSD % Recov.:	85	85	85	83
RPD:	0.0	0.0	0.0	2.0
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK042996BS	GBLK042996BS	BLK042996BS	GBLK042996BS
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.18	0.18	0.19	0.56
LCS % Recov.:	90	90	95	93

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

SEQUOIA ANALYTICAL


 Mike Gregory
 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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9604H54.WAA < 1 >





Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Project ID: Shell 350 Grand Ave., Oakland Matrix: Solid	Work Order #: 9604H54 -19 - 31	Reported: May 7, 1996
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QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042996BTEXEXB	GC042996BTEXEXB	GC042996BTEXEXB	GC042996BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9604I28-01	9604I28-01	9604I28-01	9604I28-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.16	0.16	0.16	0.49
MS % Recovery:	80	80	80	82
Dup. Result:	0.15	0.16	0.16	0.48
MSD % Recov.:	75	80	80	80
RPD:	6.5	0.0	0.0	2.1
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK042996BS	GBLK042996BS	BLK042996BS	GBLK042996BS
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.20	0.19	0.20	0.59
LCS % Recov.:	100	95	100	98

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

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

[Signature]
Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604H54.WAA <2>





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604H54 -01 - 11,13-20

Reported: May 7, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0429960HBPEXB
Analy. Method: EPA 8015 M
Prep. Method: EPA 3550

Analyst: B. Ali
MS/MSD #: 9604H54-01
Sample Conc.: 430
Prepared Date: 4/29/96
Analyzed Date: 5/1/96
Instrument I.D.#: GCHP5B
Conc. Spiked: 25 mg/kg

Result: 290
MS % Recovery: -560 *

Dup. Result: 520
MSD % Recov.: 360

RPD: 57
RPD Limit: 0-50

* -Matrix Interference

LCS #: BLK042996AS

Prepared Date: 4/29/96
Analyzed Date: 5/1/96
Instrument I.D.#: GCHP5B
Conc. Spiked: 25 mg/kg

LCS Result: 21
LCS % Recov.: 84

MS/MSD 38-122
LCS
Control Limits

SEQUOIA ANALYTICAL


Mike Gregory
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9604H54.WAA <3>





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604H54 -21 - 25, 27-31

Reported: May 7, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0430960HBPEXA

Analy. Method: EPA 8015 M

Prep. Method: EPA 3550

Analyst: J. Hills

MS/MSD #: 9604H86-01

Sample Conc.: N.D.

Prepared Date: 4/30/96

Analyzed Date: 5/1/96

Instrument I.D.#: GCHP4A

Conc. Spiked: 25 mg/kg

Result: 6.5

MS % Recovery: 26

Dup. Result: 18

MSD % Recov.: 72

RPD: 94

RPD Limit: 0-50

LCS #: BLK043096S

Prepared Date: 4/30/96

Analyzed Date: 5/1/96

Instrument I.D.#: GCHP4A

Conc. Spiked: 25 mg/kg

LCS Result: 13

LCS % Recov.: 52

MS/MSD 38-122

LCS

Control Limits

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

Mike Gregory
Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604H54.WAA <4>





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604H54 -12, -26

Reported: May 7, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC0429960HBPEXA
Analy. Method: EPA 8015 M
Prep. Method: EPA 3550

Analyst: B. Ali
MS/MSD #: 9604G91-01
Sample Conc.: N.D.
Prepared Date: 4/29/96
Analyzed Date: 4/30/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/kg

Result: 19
MS % Recovery: 76

Dup. Result: 19
MSD % Recov.: 76

RPD: 0.0
RPD Limit: 0-50

LCS #: BLK050196C

Prepared Date: 4/29/96
Analyzed Date: 5/1/96
Instrument I.D.#: GCHP4B
Conc. Spiked: 25 mg/kg

LCS Result: 20
LCS % Recov.: 80

MS/MSD 38-122
LCS
Control Limits

SEQUOIA ANALYTICAL


Mike Gregory
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.

** MS= Matrix Spike, MSD= MS Duplicate, RPD= Relative % Difference

9604H54.WAA <5>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-22-96

Page 1 of 4

Site Address:
 350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF BYRAM
 Phone No: (510) 675-6146
 Fax #: 675-6130

Consultant Name & Address: WEISS ASSOCIATES
 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH
 WA JOB # 81-0701-10
 Phone No: (510) 450-6000
 Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							no

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: 9604H54

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	Analysis Required										MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
							TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N		
G-1	4/22/96		X			1	X	X	X								Soil	01 A
G-2			X			1	X	X	X									02
G-3			X			1	X	X	X									03
G-4			X			1	X	X	X									04
G-5			X			1	X	X	X									05
G-6			X			1	X	X	X									06
G-7			X			1	X	X	X									07
G-8			X			1	X	X	X									08

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 4/24/96 Time: 10:34	Received (signature): <i>W. Male</i>	Printed Name: W. MALE	Date: 4/22/96 Time: 10:34
Relinquished By (signature): <i>W. Male</i>	Printed Name: W. MALE	Date: 4/14/96 Time: 12:30	Received (signature): _____	Printed Name: _____	Date: _____ Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): <i>A Holmes</i>	Printed Name: A HOLMES	Date: 4/24/96 Time: 12:24

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4/22/96

Page 2 of 4

Site Address:
350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF BYRAM Phone No.:(510) 675-6146
Fax #: 675-6130

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH Phone No.:
WA JOB # 81-0701-10 (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							No

LAB: _____

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: 1604HS4

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)		TPH (EPA 8015 Mod. Diesel)		BTEX (EPA 8020/602)		Volatile Organics (EPA 8240)		Test for Disposal		Combination TPH 8015 & BTEX 8020		Asbestos		Container Size		Preparation Used		Composite Y/N		MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
D-1	4-22-96		X			1	X	X	X																	Soil	09 A	
D-2			X			1	X	X	X																		10	
DISP-1			X			1	X	X	X																		11	
DISP-2			X			1	X	X	X																		12	
DISP-3			X			1	X	X	X																		13	
DISP-4			X			1	X	X	X																		14	
DISP-5			X			1	X	X	X																		15	
DISP-6			X			1	X	X	X																		16	

Relinquished By (signature): <u>Brian Busch</u>	Printed Name: <u>BRIAN BUSCH</u>	Date: <u>4/24/96</u> Time: <u>10:34</u>	Received (signature): <u>W. Male</u>	Printed Name: <u>W. MALE</u>	Date: <u>4/24/96</u> Time: <u>10:34</u>
Relinquished By (signature): <u>W. Male</u>	Printed Name: <u>W. MALE</u>	Date: <u>4/24/96</u> Time: <u>12:30</u>	Received (signature): _____	Printed Name: _____	Date: _____ Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): <u>A. Holmes</u>	Printed Name: <u>A. HOLMES</u>	Date: <u>4/24/96</u> Time: <u>12:24</u>

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

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SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-22-96

Page 3 of 4

Site Address: 350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF BYRAM
Phone No.: (510) 675-6146
Fax #: 675-6130

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH
WA JOB # 81-0701-10
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X							

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DY	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: 9609H54

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)		TPH (EPA 8015 Mod. Diesel)		BTEX (EPA 8020/602)		Volatile Organics (EPA 8240)		Test for Disposal		Combination TPH 8015 & BTEX 8020		Asbestos		Container Size		Preparation Used		Composite Y/N		MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DISP-7	4-22-96		X			1	X	X	X																	Soil	17 A	
DISP-8			X			1	X	X	X																			18
DISP-9			X			1	X	X	X																			19
P-1			X			1	X	X	X																			20
P-2			X			1	X	X	X																			21
P-3			X			1	X	X	X																			22
P-4			X			1	X	X	X																			23
P-5			X			1	X	X	X																			24

Relinquished By (signature): *Brian Busch*

Printed Name: BRIAN BUSCH
Date: 4/24/96
Time: 10:34

Received (signature): *W. W. Hale*

Printed Name: W. W. HALE
Date: 4/24/96
Time: 12:27

Relinquished By (signature): *W. W. Hale*

Printed Name: W. W. HALE
Date: 4/24/96
Time: 12:27

Received (signature): *W. W. Hale*

Printed Name: W. W. HALE
Date: 4/24/96
Time: 12:27

Relinquished By (signature): _____

Printed Name: _____
Date: _____
Time: _____

Received (signature): _____

Printed Name: ARON HOLMES
Date: 4/24/96
Time: 12:24

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

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Page 4 of 4

Site Address: 350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF BYRAM Phone No.: (510) 675-6146
 Fax #: 675-6130

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH Phone No.: (510) 450-6000
WA JOB # 81-0701-10 Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
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LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: 9604H54

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
P-6	4-22-96		X			1	X	X	X								NO	Soil	25 A
P-7			X			1	X	X	X										26
P-8			X			1	X	X	X										27
P-9			X			1	X	X	X										28
P-10			X			1	X	X	X										29
P-11			X			1	X	X	X										30
P-12			X			1	X	X	X										31

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>BRIAN BUSCH</u>	Date: <u>4/24/96</u> Time: <u>10:34</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>W. HALL</u>	Date: <u>4/24/96</u> Time: <u>12:30</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>W. HALL</u>	Date: <u>4/24/96</u> Time: <u>12:30</u>	Received (signature): <u>[Signature]</u>	Printed Name: _____	Date: _____ Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>A. HOLMES</u>	Date: <u>4/24/96</u> Time: <u>12:24</u>

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



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Project: Shell 350 Grand Ave., Oakland

Enclosed are the results from samples received at Sequoia Analytical on April 24, 1996.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9604G51 -01	SOLID, DB-1	04/23/96	TPHD S Extractable TPH
9604G51 -01	SOLID, DB-1	04/23/96	TPHGBS Purgeable TPH/BTEX
9604G51 -02	SOLID, DB-2	04/23/96	TPHD S Extractable TPH
9604G51 -02	SOLID, DB-2	04/23/96	TPHGBS Purgeable TPH/BTEX
9604G51 -03	SOLID, DB-3	04/23/96	TPHD S Extractable TPH
9604G51 -03	SOLID, DB-3	04/23/96	TPHGBS Purgeable TPH/BTEX
9604G51 -04	SOLID, P-1 7.0	04/23/96	TPHD S Extractable TPH
9604G51 -04	SOLID, P-1 7.0	04/23/96	TPHGBS Purgeable TPH/BTEX
9604G51 -05	SOLID, P-13	04/23/96	TPHD S Extractable TPH
9604G51 -05	SOLID, P-13	04/23/96	TPHGBS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DB-1 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604G51-01	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/24/96 Analyzed: 04/25/96 Reported: 04/25/96
---	---	--

QC Batch Number: GC0418960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	5.2 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	92

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: DB-1	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/24/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/24/96
	Lab Number: 9604G51-01	Reported: 04/25/96

QC Batch Number: GC042496BTEXEXB
Instrument ID: GCHP18


Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	46
Benzene	0.050	0.091
Toluene	0.050	0.13
Ethyl Benzene	0.050	0.66
Xylenes (Total)	0.050	1.7
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	107

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DB-2 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604G51-02	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/24/96 Analyzed: 04/25/96 Reported: 04/25/96
---	---	--


QC Batch Number: GC0418960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	4.5 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	99

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: DB-2	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/24/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/24/96
	Lab Number: 9604G51-02	Reported: 04/25/96

QC Batch Number: GC042496BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	2.5	8.1
Benzene	0.012	0.081
Toluene	0.012	0.078
Ethyl Benzene	0.012	0.11
Xylenes (Total)	0.012	0.34
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	94

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

SEQUOIA ANALYTICAL - ELAP #1210


Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: DB-3
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604G51-03

Sampled: 04/23/96
Received: 04/24/96
Extracted: 04/24/96
Analyzed: 04/25/96
Reported: 04/25/96

Attention: Brian Busch

QC Batch Number: GC0418960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	3.6 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	77

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates Client Proj. ID: Shell 350 Grand Ave., Oakland Sampled: 04/23/96
5500 Shellmound Sample Descript: DB-3 Received: 04/24/96
Emeryville, CA 94608 Matrix: SOLID Extracted: 04/24/96
Attention: Brian Busch Analysis Method: 8015Mod/8020 Analyzed: 04/24/96
Lab Number: 9604G51-03 Reported: 04/25/96

QC Batch Number: GC042496BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Table with 3 columns: Analyte, Detection Limit mg/Kg, Sample Results mg/Kg. Rows include TPHH as Gas, Benzene, Toluene, Ethyl Benzene, Xylenes (Total), Chromatogram Pattern, Surrogates, and Trifluorotoluene.

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

SEQUOIA ANALYTICAL - ELAP #1210

Signature of Mike Gregory
Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-1 7.0 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604G51-04	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/24/96 Analyzed: 04/25/96 Reported: 04/25/96
Attention: Brian Busch		

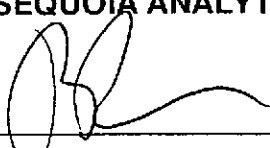
QC Batch Number: GC0418960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	6.2 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	94

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: P-1 7.0	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/24/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/24/96
	Lab Number: 9604G51-04	Reported: 04/25/96

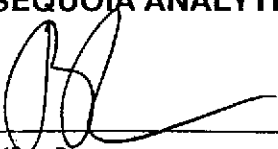
QC Batch Number: GC042496BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	68
Benzene	0.050	0.80
Toluene	0.050	N.D.
Ethyl Benzene	0.050	0.32
Xylenes (Total)	0.050	0.28
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	115

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: P-13 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604G51-05	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/24/96 Analyzed: 04/25/96 Reported: 04/25/96
---	---	--

QC Batch Number: GC0418960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.6 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 90

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: P-13	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/24/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/24/96
	Lab Number: 9604G51-05	Reported: 04/25/96

QC Batch Number: GC042496BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	3.8
Benzene	0.0050	0.053
Toluene	0.0050	0.0083
Ethyl Benzene	0.0050	0.0098
Xylenes (Total)	0.0050	0.020
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	106

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604G51 -01 -05

Reported: Apr 26, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042496BTEXEXB	GC042496BTEXEXB	GC042496BTEXEXB	GC042496BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	J. Heider	J. Heider	J. Heider	J. Heider
MS/MSD #:	9604A97-04	9604A97-04	9604A97-04	9604A97-04
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/24/96	4/24/96	4/24/96	4/24/96
Analyzed Date:	4/24/96	4/24/96	4/24/96	4/24/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.17	0.17	0.18	0.52
MS % Recovery:	85	85	90	87
Dup. Result:	0.18	0.18	0.18	0.55
MSD % Recov.:	90	90	90	92
RPD:	5.7	5.7	0.0	5.6
RPD Limit:	0-50	0-50	0-50	0-50

LCS #:	GBLK042496BS	GBLK042496BS	BLK042496BS	GBLK042496BS
Prepared Date:	4/24/96	4/24/96	4/24/96	4/24/96
Analyzed Date:	4/24/96	4/24/96	4/24/96	4/24/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.19	0.19	0.19	0.58
LCS % Recov.:	95	95	95	97

MS/MSD LCS	50-150	50-150	50-150	50-150
Control Limits	50-150	50-150	50-150	50-150

SEQUOIA ANALYTICAL

Mike Gregory
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.





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604G51 -01 -05

Reported: Apr 26, 1996

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC041896OHBPEXA
Analy. Method: EPA 8015 M
Prep. Method: EPA 3550

Analyst: J. Minkel
MS/MSD #: 9604C31-01
Sample Conc.: 20
Prepared Date: 4/18/96
Analyzed Date: 4/21/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/kg

Result: 32
MS % Recovery: 48

Dup. Result: 68
MSD % Recov.: 192

RPD: 72
RPD Limit: 0-50

LCS #: BLK041896BS

Prepared Date: 4/18/96
Analyzed Date: 4/21/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/kg

LCS Result: 18
LCS % Recov.: 72

MS/MSD 50-150
LCS
Control Limits

SEQUOIA ANALYTICAL

Mike Gregory
Mike Gregory
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.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

9604G51.WAA <2>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-23-96

Page 1 of 2

Site Address: 350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF GRANBERRY
Phone No. (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH
WA JOB # 81-0701-10
Phone No. (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input checked="" type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
DSW-1	4-23-96		X			1	X	X	X								Soil	normal TAT
DSW-2			X			1	X	X	X									
DSW-3			X			1	X	X	X									
DSW-4			X			1	X	X	X									
DSW-5			X			1	X	X	X									
DB-1			X			1	X	X	X									24 hr. TAT
DB-2			X			1	X	X	X									24 hr. TAT
DB-3			X			1	X	X	X									24 hr. TAT

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 4/24/96 Time: 10:34	Received (signature): <i>[Signature]</i>	Printed Name: L. HALE	Date: 4/27/96 Time: 10:34
Relinquished By (signature): <i>[Signature]</i>	Printed Name: W. HALE	Date: 4/24/96 Time: 12:30	Received (signature): <i>[Signature]</i>	Printed Name: SLOTT ROSS	Date: 4-24-96 Time: 12:24
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): _____	Printed Name: _____	Date: _____ Time: _____

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

12 21

*As seen
Jeff Granberry
Approval*



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-23-96

Page 2 of 2

9604651

Site Address:
350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF GRANBERRY
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH
WA JOB # 81-0701-10
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input checked="" type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
P-1 7.0	4-23-96		X			1	X	X	X							NO	Soil	24 hr. TAT
P-13	↓		X			1	X	X	X						↓	↓	↓	24 hr. TAT

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 4/24/96 Time: 10:34	Received (signature): <i>[Signature]</i>	Printed Name: W. MALE	Date: 4/24/96 Time: 10:34
Relinquished By (signature): <i>[Signature]</i>	Printed Name: W. MALE	Date: 4/24/96 Time: 12:30	Received (signature): <i>[Signature]</i>	Printed Name: SCOT ROSS	Date: 4-24-96 Time: 12:24
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

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

12 24

As per Jeff Granberry Approval



Sequoia Analytical

680 Chesapeake Drive
404 N. Wiget Lane
819 Striker Avenue, Suite 8

Redwood City, CA 94063
Walnut Creek, CA 94598
Sacramento, CA 95834

(415) 364-9600
(510) 988-9600
(916) 921-9600

FAX (415) 364-9233
FAX (510) 988-9673
FAX (916) 921-0100

Weiss Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Project: Shell 350 Grand Ave., Oakland

Enclosed are the results from samples received at Sequoia Analytical on April 24, 1996.
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9604H55 -01	SOLID, DSW-1	04/23/96	TPHD S Extractable TPH
9604H55 -01	SOLID, DSW-1	04/23/96	TPHGBS Purgeable TPH/BTEX
9604H55 -02	SOLID, DSW-2	04/23/96	TPHD S Extractable TPH
9604H55 -02	SOLID, DSW-2	04/23/96	TPHGBS Purgeable TPH/BTEX
9604H55 -03	SOLID, DSW-3	04/23/96	TPHD S Extractable TPH
9604H55 -03	SOLID, DSW-3	04/23/96	TPHGBS Purgeable TPH/BTEX
9604H55 -04	SOLID, DSW-4	04/23/96	TPHD S Extractable TPH
9604H55 -04	SOLID, DSW-4	04/23/96	TPHGBS Purgeable TPH/BTEX
9604H55 -05	SOLID, DSW-5	04/23/96	TPHD S Extractable TPH
9604H55 -05	SOLID, DSW-5	04/23/96	TPHGBS Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: DSW-1	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/30/96
Attention: Brian Busch	Analysis Method: EPA 8015 Mod	Analyzed: 05/02/96
	Lab Number: 9604H55-01	Reported: 05/06/96


QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	10	130 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	114

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-1 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H55-01	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/06/96
---	--	--

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	100	510
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	1.2
Xylenes (Total)	0.50	3.0
Chromatogram Pattern:		C6-C12

Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	89

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: DSW-2	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/30/96
Attention: Brian Busch	Analysis Method: EPA 8015 Mod	Analyzed: 05/01/96
	Lab Number: 9604H55-02	Reported: 05/06/96

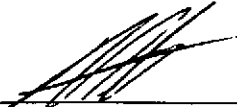
QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	13 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	51

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates	Client Proj. ID: Shell 350 Grand Ave., Oakland	Sampled: 04/23/96
5500 Shellmound	Sample Descript: DSW-2	Received: 04/24/96
Emeryville, CA 94608	Matrix: SOLID	Extracted: 04/29/96
Attention: Brian Busch	Analysis Method: 8015Mod/8020	Analyzed: 04/30/96
	Lab Number: 9604H55-02	Reported: 05/06/96

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	10	87
Benzene	0.050	0.34
Toluene	0.050	2.2
Ethyl Benzene	0.050	0.94
Xylenes (Total)	0.050	7.1
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	123

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates
5500 Shellmound
Emeryville, CA 94608

Client Proj. ID: Shell 350 Grand Ave., Oakland
Sample Descript: DSW-3
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9604H55-03

Sampled: 04/23/96
Received: 04/24/96
Extracted: 04/30/96
Analyzed: 05/01/96
Reported: 05/06/96

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	1.6 C9-C24
Surrogates n-Pentacosane (C25)	Control Limits % 50 150	% Recovery 56

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-3 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H55-03	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/06/96
Attention: Brian Busch		


QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	N.D.
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Xylenes (Total)	0.0050	N.D.
Chromatogram Pattern:		
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	81

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-4 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H55-04	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/01/96 Reported: 05/06/96
Attention: Brian Busch		

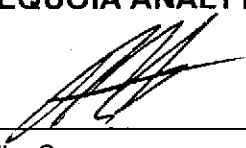
QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	1.0	2.5 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	78

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-4 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H55-04	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/06/96
Attention: Brian Busch		

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	1.0	3.8
Benzene	0.0050	N.D.
Toluene	0.0050	0.014
Ethyl Benzene	0.0050	0.028
Xylenes (Total)	0.0050	0.077
Chromatogram Pattern:		C6-C12
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

Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-5 Matrix: SOLID Analysis Method: EPA 8015 Mod Lab Number: 9604H55-05	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/30/96 Analyzed: 05/03/96 Reported: 05/06/96
Attention: Brian Busch		

QC Batch Number: GC0430960HBPEXA
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TEPH as Diesel Chromatogram Pattern:	2.0	31 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	71

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

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager





Weiss Associates 5500 Shellmound Emeryville, CA 94608	Client Proj. ID: Shell 350 Grand Ave., Oakland Sample Descript: DSW-5 Matrix: SOLID Analysis Method: 8015Mod/8020 Lab Number: 9604H55-05	Sampled: 04/23/96 Received: 04/24/96 Extracted: 04/29/96 Analyzed: 04/30/96 Reported: 05/06/96
Attention: Brian Busch		

QC Batch Number: GC042996BTEXEXB
Instrument ID: GCHP18

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	50	270
Benzene	0.25	N.D.
Toluene	0.25	N.D.
Ethyl Benzene	0.25	0.68
Xylenes (Total)	0.25	1.6
Chromatogram Pattern:		C6-C12
Surrogates	Control Limits %	% Recovery
Trifluorotoluene	70 130	90

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

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager





Weiss & Associates 5500 Shellmound Emeryville, CA 94608 Attention: Brian Busch	Client Project ID: Shell 350 Grand Ave., Oakland Matrix: Solid	Work Order #: 9604H55 -01 - 05	Reported: May 6, 1996
---	---	--------------------------------	-----------------------

QUALITY CONTROL DATA REPORT

Analyte: Diesel
QC Batch#: GC043096OHBPEXA
Analy. Method: EPA 8015 M
Prep. Method: EPA 3550

Analyst: J. Hills
MS/MSD #: 9604H86-01
Sample Conc.: N.D
Prepared Date: 4/30/96
Analyzed Date: 5/1/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/kg

Result: 6.5
MS % Recovery: 26

Dup. Result: 18
MSD % Recov.: 72

RPD: 94
RPD Limit: 0-50

LCS #: BLK043096S
Prepared Date: 4/30/96
Analyzed Date: 5/1/96
Instrument I.D.#: GCHP4A
Conc. Spiked: 25 mg/kg

LCS Result: 13
LCS % Recov.: 52

MS/MSD 85-115
LCS
Control Limits

SEQUOIA ANALYTICAL

[Signature]
Mike Gregory
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.





Weiss & Associates
5500 Shellmound
Emeryville, CA 94608
Attention: Brian Busch

Client Project ID: Shell 350 Grand Ave., Oakland
Matrix: Solid

Work Order #: 9604H55 -01 - 05

Reported: May 6, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC042996BTEXEXB	GC042996BTEXEXB	GC042996BTEXEXB	GC042996BTEXEXB
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	D. Jirsa	D. Jirsa	D. Jirsa	D. Jirsa
MS/MSD #:	9604I28-01	9604I28-01	9604I28-01	9604I28-01
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
Result:	0.16	0.16	0.16	0.49
MS % Recovery:	80	80	80	82
Dup. Result:	0.15	0.16	0.16	0.48
MSD % Recov.:	75	80	80	80
RPD:	6.5	0.0	0.0	2.1
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	GBLK042996BS-B	GBLK042996BS-B	GBLK042996BS-B	GBLK042996BS-B
Prepared Date:	4/29/96	4/29/96	4/29/96	4/29/96
Analyzed Date:	4/29/96	4/29/96	4/29/96	4/29/96
Instrument I.D.#:	GCHP1	GCHP1	GCHP1	GCHP1
Conc. Spiked:	0.20 mg/kg	0.20 mg/kg	0.20 mg/kg	0.60 mg/kg
LCS Result:	0.20	0.19	0.20	0.59
LCS % Recov.:	100	95	100	98

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

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

Mike Gregory
Project Manager

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9604H55.WAA <2>





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-23-96

Page 1 of 2

Site Address:
350 GRAND AVENUE, OAKLAND, CA

Analysis Required

LAB: SEQUOIA

WIC#: 204-5510-0204

Shell Engineer: JEFF GRANBERRY
Phone No.: (510) 675-6168
Fax #: 675-6173

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH
WA JOB # 81-0701-10
Phone No.: (510) 450-6000
Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input checked="" type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: 9604 HSS

Sample ID	Date	Sludge	Soil	Water	Air	No. of confs.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS	
DSW-1	4-23-96		X			1	X	X	X										NO	Soil	normal TAT
DSW-2			X			1	X	X	X												
DSW-3			X			1	X	X	X												
DSW-4			X			1	X	X	X												
DSW-5			X			1	X	X	X												
DB-1			X			1	X	X	X												24 hr. TAT
DB-2			X			1	X	X	X												24 hr. TAT
DB-3			X			1	X	X	X												24 hr. TAT

12 2
01
02
03
04
25

As per Jeff Granberry Approval

Relinquished By (signature): <i>Brian Busch</i>	Printed Name: BRIAN BUSCH	Date: 4/24/96 Time: 10:34	Received (signature): <i>W. Hale</i>	Printed Name: W. HALE	Date: 4/24/96 Time: 10:34
Relinquished By (signature): <i>W. Hale</i>	Printed Name: W. HALE	Date: 4/24/96 Time: 12:30	Received (signature): <i>Slot Ross</i>	Printed Name: SLOT ROSS	Date: 4-24-96 Time: 12:34
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): _____	Printed Name: _____	Date: _____ Time: _____

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: _____

Date: 4-23-96
Page 2 of 2

Site Address:
350 GRAND AVENUE, OAKLAND, CA

WIC#: 204-5510-0204

Shell Engineer: JEFF GRANBERRY Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: BRIAN BUSCH Phone No.: (510) 450-6000
WA JOB # 81-0701-10 Fax #: 547-5043

Comments:

Sampled by: BRIAN BUSCH

Printed Name:

Analysis Required

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input checked="" type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input checked="" type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hrs. TAT.

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
P-1 7.0	4-23-96		X			1	X	X	X								Soil	24 hr. TAT
P-13	↓		X			1	X	X	X								↓	24 hr. TAT

Relinquished By (signature): <u>Brian Busch</u>	Printed Name: <u>BRIAN BUSCH</u>	Date: <u>4/24/96</u> Time: <u>10:34</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>W. HALE</u>	Date: <u>4/24/96</u> Time: <u>10:34</u>
Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>W. HALE</u>	Date: <u>4/24/96</u> Time: <u>12:30</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>SCOT ROSS</u>	Date: <u>4-24-96</u> Time: <u>12:24</u>
Relinquished By (signature): _____	Printed Name: _____	Date: _____ Time: _____	Received (signature): _____	Printed Name: _____	Date: _____ Time: _____

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

122
Aspen
Jeff Granberry
Approv

ATTACHMENT B

SOIL DISPOSAL CONFIRMATION SHEET

DISPOSAL CONFIRMATION

Consultant:	WEISS ASSOCIATES
Contact:	BRIAN BUSH
Phone/Fax:	(510) 547-5420 FAX (510) 547-5043
Client:	SHELL OIL CO. - JEFF BYRAM
Station #/Wic #:	204-5510-0204
Site Address:	350 GRAND AVE.
City/State:	OAKLAND, CA
Estimated YD/Ton:	2,000 TONS
Actual YD/Ton:	781.36 TONS 4/24/96 201.43 TONS 5/1/96 385.19 TONS 5/2/96 196.14 TONS 5/9/96 ≈ 1563 tons
Disposal Facility:	FORWARD LANDFILL
Disposal Date:	APRIL 24, MAY 1, 2, & 9, 1996
Contact:	CORINNA MATHEWS
Phone #:	(209) 982-4298
Hauler:	MANLEY & SONS TRUCKING, INC.
Contact:	TIM A. MANLEY
Phone #:	(916) 381-6864
Fax #:	(916) 381-1573

Date & Time Faxed

4526