Advanced GeoEnvironmental, Inc.

11 November 2005
AGE-NC Project No. 03-1101

Mr. Jerry Wickham
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: **Quarterly Report - Third Quarter 2005**
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

Dear Mr. Wickham:

At the request of Mr. Reed Rinehart of Rinehart Oil, Inc., *Advanced* GeoEnvironmental, Inc. has prepared the enclosed *Quarterly Report - Third Quarter 2005* for the above-referenced site. The enclosed report documents the results of the September 2005 ground water monitoring and sampling event.

If you have any questions or require further information, please contact our office at (209) 467-1006.

Sincerely,

***Advanced* GeoEnvironmental, Inc.**

Jo'l M. Chapman
Staff Geologist

837 Shaw Road, Stockton, California 95215
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R0234

Quarterly Report - Third Quarter 2005
RINEHART OIL. INC. - OAKLAND TRUCK STOP
1107 5TH Street, Oakland, California

11 November 2005
AGE-NC Project No. 03-1101

PREPARED FOR:

Mr. Reed Rinehart
RINEHART OIL, INC.

PREPARED BY:

Advanced GeoEnvironmental, Inc.

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Quarterly Report - Third Quarter 2005
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5TH Street, Oakland, California

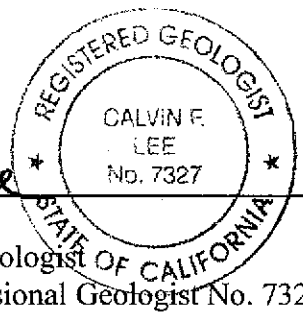
11 November 2005
AGE-NC Project No. 03-1101

***Advanced* GeoEnvironmental, Inc.**
837 Shaw Road, Stockton, California

PREPARED BY:

Jo'l Chapman
Staff Geologist

REVIEWED BY:



Calvin F. Lee
Senior Project Geologist
California Professional Geologist No. 7327

Quarterly Report - Third Quarter 2005
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California

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1107 5th Street, Oakland, California

1.0. INTRODUCTION

At the request of Mr. Reed Rinehart of Rinehart Oil, Inc., *Advanced* GeoEnvironmental, Inc. (AGE) has prepared this *Quarterly Report - Third Quarter 2005* for the site located at 1107 5th Street, Oakland, California. This report documents the results of the September 2005 ground water monitoring and sampling event. The site and surrounding area are illustrated on Figure 1. On-site structures and well locations are illustrated on Figure 2. Site background information is provided in Appendix A.

The goals of the ground water monitoring program are to assess site ground water for seasonal variation of elevation, gradient, and flow direction, and to assess the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. This report has been prepared in accordance with the Regional Water Quality Control Board's *Appendix A - Reports, Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites.*

2.0. PROCEDURES

On 17 September 2005, the third quarter 2005 ground water monitoring event was conducted at the site; the scope of work included the measurement of ground water levels and collection of ground water samples from monitoring wells MW-1, MW-3N, and MW-4 through MW-14 (Figure 2).

2.1. WELL MONITORING AND EVACUATION

On 17 September 2005, a Solinst water level meter was used to measure the depth to ground water in the monitoring wells relative to the tops of the well casings (well heads). After water levels were gauged, disposable plastic bailers were used to evacuate (purge) the wells of a minimum of three casing water volumes per well. Between 3.5 and 8.0 gallons of water were purged from monitoring wells MW-1, MW-3N, MW-4 through MW-6, MW-8 through MW-10, and MW-12 through MW-14. Monitoring well MW-11 drew down before three casing-water volumes could be evacuated. Approximately 2 inches of free petroleum product was encountered in well MW-7; the well was purged of approximately 6 gallons of water until the product was clear. Temperature, pH, and conductivity were measured for stabilization in the wells without any free-phase petroleum at regular intervals using an Oakton water analyzer. Field sheets and data are included in Appendix B. Purged water was stored on-site in properly labeled, Department of Transportation (DOT)-approved 55-gallon drums.

2.2. COLLECTION AND ANALYSIS OF GROUND WATER SAMPLES

Ground water samples were collected from the monitoring wells using dedicated, disposable plastic bailers after allowing the wells to achieve a minimum 80% recovery of the pre-purge water volume. The samples were transferred into three laboratory-supplied, 40-milliliter (ml) EPA-approved volatile organic analysis (VOA) vials containing 0.5 ml 18% hydrochloric acid solution as a sample preservative, and into one 1-liter amber bottle without preservative. The sample containers were labeled with the well designation, date, time, and the sampler's initials and transported in a chilled container under chain of custody to Cal Tech Environmental Laboratories (CTEL), a California Department of Health Services (DHS)-certified analytical laboratory, for analysis. The samples were analyzed for:

- Total petroleum hydrocarbons quantified as gasoline and diesel (TPH-g and TPH-d, respectively) in accordance with EPA Method 8015M; and
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) and fuel additives di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), methyl tertiary-butyl ether (MTBE), tertiary-amyl methyl ether (TAME), and tertiary-butyl alcohol (TBA) and lead scavengers 1,2-dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) in accordance with EPA Method 8260B.

At the request of Alameda County Environmental Health Services (ACEHS-DEP), the ground water sample collected from well MW-10 was analyzed for trihalomethanes (THMs) in accordance with EPA Method 8260B.

3.0. FINDINGS

Ground water elevation, flow direction, and gradient were determined from field data collected on 17 September 2005. The hydrocarbon impact to ground water was quantified by laboratory analysis of ground water samples.

3.1. GROUND WATER GRADIENT AND FLOW DIRECTION

On 17 September 2005, depth to ground water was measured between 2.90 feet (MW-10) and 6.21 feet (MW-13) below the tops of the well casings; because the depth to ground water in well MW-7 was affected by the presence of free product; that depth value was not utilized in the ground water elevation modeling.

Ground water elevations at the site ranged from 4.34 feet (MW-11) to 8.17 feet (MW-10) above mean sea level (MSL) and averaged approximately 6.33 feet above MSL, indicating a decrease in elevation of approximately 0.78 feet since the last monitoring event in June 2005.

During the third quarter 2005 monitoring event, the potentiometric surface at the site is shown as a northeast-plunging ridge; ground water was inferred to be flowing down-ridge towards the north and southeast under hydraulic gradients of 0.02 foot/foot (ft/ft) and 0.005 ft/ft, respectively. Depths to water and ground water elevations are summarized in Table 1. Figure 3 illustrates the contoured ground water elevations as measured on 17 September 2005.

3.2. ANALYTICAL RESULTS OF GROUND WATER SAMPLES

Ground water samples were collected from on-site monitoring wells MW-1, MW-3N, and MW-4 through MW-14. Ground water sample analytical results are detailed below.

TPH-g was detected in ground water samples taken from monitoring wells MW-1, MW-3N, and MW-4 through MW-9 at concentrations ranging from 100 micrograms per liter (µg/l) in wells MW-1 and MW-9 to 100,000 µg/l in well MW-7. TPH-d was detected in the samples from wells MW-5 through MW-8 at concentrations ranging from 630 µg/l (MW-6) to 89,000 µg/l (MW-8). Figures 4 and 5 illustrate the estimated distribution of dissolved TPH-g and TPH-d, respectively.

BTEX constituents were detected in the samples from wells MW-5, MW-7 and MW-8, at maximum concentrations of 31,000 µg/l benzene, 16,000 µg/l toluene, 8,500 µg/l ethylbenzene, and 31,000 µg/l xylenes in well MW-7.

The fuel additives MTBE, TBA, and TAME were detected in selected analyzed samples. MTBE was detected in samples collected from wells MW-1, MW-3N, MW-4 through MW-9, MW-13, and MW-14 at concentrations ranging from 12 µg/l (MW-14) to 28,000 µg/l (MW-7); Figure 6 illustrates the estimated distribution of dissolved MTBE for this monitoring event. TBA was detected in the samples collected from wells MW-3N and MW-4 through MW-8 at concentrations ranging from 770 µg/l (MW-3N) to 180,000 µg/l (MW-4). TAME was detected in well MW-8 at a concentration of 17 µg/l.

The ground water sample collected from well MW-10 was analyzed for THMs in accordance with EPA Method 8260B; no THMs were detected.

A summary of ground water analytical results is presented in Tables 2 and 3. The laboratory analytical report (CTEL Project No. CT214-0509162), quality assurance/quality control (QA/QC) reports, and chain of custody forms are included in Appendix C.

4.0. SUMMARY AND CONCLUSIONS

Based on the findings from this investigation, AGE concludes:

- On 17 September 2005, ground water elevations at the site ranged from 4.34 feet to 8.17 feet above MSL and averaged approximately 6.33 feet above MSL, indicating a decrease in elevation of approximately 0.78 feet since the last monitoring event in June 2005. Because the depth to ground water in well MW-7 was affected by the presence of free product; the depth to ground water was discounted from the ground water elevation modeling.
- Ground water was inferred to be flowing down a northeast-plunging ridge of the potentiometric surface under hydraulic gradients between approximately 0.005 ft/ft and 0.02 ft/ft.
- TPH-g was detected in ground water samples taken from monitoring wells MW-1, MW-3N, and MW-4 through MW-9 at concentrations ranging from 100µg/l in wells MW-1 and MW-9 to 100,000 µg/l in well MW-7. TPH-d was detected in the samples from wells MW-5 through MW-8 at concentrations ranging from 630 µg/l (MW-6) to 89,000 µg/l (MW-8).
- BTEX constituents were detected in the samples from wells MW-5, MW-7, and MW-8 at the following maximum concentrations in well MW-7: 31,000 µg/l benzene, 16,000 µg/l toluene, 8,500 µg/l ethylbenzene, and 31,000 µg/l xylenes.
- MTBE was detected in samples collected from wells MW-1, MW-3N, MW-4 through MW-9, MW-13, and MW-14 at concentrations ranging from 12 µg/l (MW-14) to 28,000 µg/l (MW-7).
- TBA was detected in the samples collected from wells MW-3N and MW-4 through MW-8 at concentrations ranging from 770 µg/l (MW-3N) to 180,000 µg/l (MW-4). TAME was detected in well MW-8 at a concentration of 17 µg/l.
- The fuel additive 1,2-DCA was not detected this quarter in any of the ground water samples analyzed.
- The ground water sample collected from well MW-10 was analyzed for THMs in accordance with EPA Method 8260B; no THMs were detected. Since water treatment by-products are not present in the MW-10 ground water sample, it is unlikely that the ground water mound centered over well MW-10 is due to a leaking sewer line.
- Due to the presence of significant TBA concentrations compared to almost equal MTBE concentrations and the low detections of toluene, specifically lower than benzene, some natural bio-attenuation has been occurring in the dissolved phase media at the central portion of the site.

5.0. RECOMMENDATIONS

Based upon data reviewed and collected at the site, AGE recommends:

- Continued quarterly ground water monitoring.
- In October 2005, ACEHS-DEP approved a work plan to install two additional ground water monitoring wells to the northwest and northeast of the site, as well as the advancement of a total of nine soil probe borings on- and off- site using direct push technology to define the lateral and vertical extents of petroleum hydrocarbon contamination. AGE will acquire all necessary permits and schedule the work to be completed in the first quarter 2006.

6.0. LIMITATIONS

AGE's professional services were performed using that degree of care and skill ordinarily exercised by environmental consultants practicing in this or similar localities. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the hydrogeologic conditions at the site for the purpose of this investigation were made from a limited number of available data points (i.e., monitoring wells and ground water samples) and subsurface conditions may vary beyond these data points. No other warranty, expressed or implied, is made as to the professional interpretations, opinions, and recommendations contained in this report.

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-1 *10.34'* (10'-20' bsg)	10/21/96	5.08	5.26
	11/04/96	3.02	7.32
	03/04/97	2.28	8.06
	06/12/97	4.80	5.54
	07/14/97	2.66	7.68
	09/09/97	2.45	7.89
	09/19/97	2.60	7.74
	02/13/98	2.76	7.58
	07/07/98	2.15	8.19
	10/01/98	3.63	6.71
	12/30/98	4.40	5.94
	03/21/00	2.62	7.72
	08/30/00	3.21	7.13
	11/06/00	3.10	7.24
	02/22/01	3.50	6.84
	05/07/01	2.94	7.40
	08/22/01	3.70	6.64
	11/04/01	3.89	6.45
	02/15/02	2.95	7.39
	05/20/02	3.29	7.05
	08/01/02	3.51	6.83
	11/11/02	4.00	6.34
	02/12/03	3.40	6.94
	05/12/03	3.65	6.69
	08/12/03	3.04	7.30
	01/09/04	4.64	5.70
	04/14/04	6.45	3.89
	07/21/04	3.55	6.79
	10/20/04	4.00	6.34
	03/19/05	2.54	7.80
	06/25/05	2.76	7.58
	09/17/05	3.88	6.46

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-3N *11.67'* (5'-12' bsg)	05/20/02	3.91	7.76
	08/01/02	4.22	7.45
	11/11/02	4.42	7.25
	02/12/03	3.71	7.96
	05/12/03	3.49	8.18
	08/12/03	4.18	7.49
	01/09/04	3.78	7.89
	04/14/04	4.01	7.66
	07/21/04	4.90	6.77
	10/20/04	5.28	6.39
	03/19/05	3.10	8.57
	06/25/05	3.83	7.84
	09/17/05	4.94	6.73
MW-4 *10.46'* (5'-20' bsg)	08/30/00	3.74	6.72
	11/06/00	3.85	6.61
	02/22/01	4.66	5.80
	05/07/01	2.66	7.80
	08/22/01	4.13	6.33
	11/04/01	4.53	5.93
	02/15/02	3.62	6.84
	05/20/02	3.65	6.81
	08/01/02	4.25	6.21
	11/11/02	4.85	5.61
	02/12/03	4.24	6.22
	05/12/03	4.20	6.26
	08/12/03	4.47	5.99
	01/09/04	3.92	6.54
	04/14/04	4.04	6.42
	07/21/04	4.55	5.91
	10/20/04	4.89	5.57
	03/19/05	3.51	6.95
	06/25/05	4.58	5.88
	09/17/05	4.54	5.92

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-5 *10.24'* (5'-20' bsg)	08/30/00	3.01	7.23
	11/06/00	3.35	6.89
	02/22/01	3.00	7.24
	05/07/01	2.73	7.51
	08/22/01	3.88	6.36
	11/04/01	3.95	6.29
	02/15/02	2.84	7.40
	05/20/02	2.86	7.38
	08/01/02	3.21	7.03
	11/11/02	4.04	6.20
	02/12/03	3.12	7.12
	05/12/03	3.18	7.06
	08/12/03	3.75	6.49
	01/09/04	3.18	7.06
	04/14/04	3.15	7.09
	07/21/04	4.00	6.24
	10/20/04	4.49	5.75
	03/19/05	2.39	7.85
	06/25/05	2.77	7.47
	09/17/05	3.91	6.33
MW-6 *10.62'* (5'-20' bsg)	08/30/00	3.40	7.22
	11/06/00	3.72	6.90
	02/22/01	3.34	7.28
	05/07/01	3.08	7.54
	08/22/01	3.77	6.85
	11/04/01	4.33	6.29
	02/15/02	3.22	7.40
	05/20/02	3.24	7.38
	08/01/02	3.60	7.02
	11/11/02	4.41	6.21
	02/12/03	3.52	7.10
	05/12/03	3.34	7.28
	08/12/03	3.91	6.71
	01/09/04	3.35	7.27
	04/14/04	3.40	7.22
	07/21/04	4.21	6.41
	10/20/04	4.63	5.99
	03/19/05	2.54	8.08
	06/25/05	2.92	7.70
	09/17/05	4.06	6.56

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-7 *11.69'* (5'-20' bsg)	08/30/00	6.72	4.97
	11/06/00	6.85	4.84
	02/22/01	6.00	5.69
	05/07/01	6.35	5.34
	08/22/01	6.86	4.83
	11/04/01	6.66	5.03
	02/15/02	6.45	5.24
	05/20/02	6.59	5.10
	08/01/02	6.72	4.97
	11/11/02	6.61	5.08
	02/12/03	5.64	6.05
	05/12/03	5.68	6.01
	08/12/03	6.24	5.45
	01/09/04	5.65	6.04
	04/14/04	6.40	5.29
	07/21/04	6.31	5.38
	10/20/04	6.42	5.27
	03/19/05	5.48	6.21
	06/25/05	6.00	5.69
	09/17/05	6.55	5.14
MW-8 *10.06'* (5'-20' bsg)	08/30/00	3.06	7.00
	11/06/00	2.98	7.08
	02/22/01	2.46	7.60
	05/07/01	2.76	7.30
	08/22/01	3.56	6.50
	11/04/01	3.76	6.30
	02/15/02	2.72	7.34
	05/20/02	2.82	7.24
	08/01/02	3.06	7.00
	11/11/02	3.54	6.52
	02/12/03	3.07	6.99
	05/12/03	2.69	7.37
	08/12/03	3.10	6.96
	01/09/04	2.85	7.21
	04/14/04	3.45	6.61
	07/21/04	4.56	5.50
	10/20/04	4.72	5.34
	03/19/05	3.31	6.75
	06/25/05	3.05	7.01
	09/17/05	4.22	5.84

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-9 *10.03'* (5'-20' bsg)	08/30/00	2.81	7.22
	11/06/00	2.68	7.35
	02/22/01	2.20	7.83
	05/07/01	2.75	7.28
	08/22/01	3.80	6.23
	11/04/01	3.61	6.42
	02/15/02	2.92	7.11
	05/20/02	2.38	7.65
	08/01/02	2.72	7.31
	11/11/02	2.87	7.16
	02/12/03	2.43	7.60
	05/12/03	2.41	7.62
	08/12/03	2.61	7.42
	01/09/04	2.87	7.16
	04/14/04	3.65	6.38
	07/21/04	3.70	6.33
	10/20/04	4.20	5.83
	03/19/05	3.75	6.28
	06/25/05	3.85	6.18
	09/17/05	3.38	6.65
MW-10 *11.07'* (5'-12' bsg)	05/20/02	4.54	6.53
	06/18/02	4.25	6.82
	08/01/02	1.80	9.27
	11/11/02	1.50	9.57
	02/12/03	1.07	10.00
	05/12/03	1.01	10.06
	08/12/03	1.44	9.63
	01/09/04	0.90	10.17
	04/14/04	2.05	9.02
	07/21/04	2.78	8.29
	10/20/04	1.05	10.02
	03/19/05	0.75	10.32
	06/25/05	1.91	9.16
	09/17/05	2.90	8.17

TABLE 1

GROUND WATER ELEVATION DATA
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(feet)

Well I.D. *Casing Elevation* (Screen Interval)	Date	Depth to Ground Water	Ground Water Elevation
MW-11 *9.64'* (5'-12' bsg)	05/20/02	0.84	8.80
	06/18/02	1.71	7.93
	08/01/02	4.88	4.76
	11/11/02	5.18	4.46
	02/12/03	3.85	5.79
	05/12/03	4.00	5.64
	08/12/03	4.31	5.33
	01/09/04	3.74	5.90
	04/14/04	5.73	3.91
	07/21/04	5.80	3.84
	10/20/04	-	-
	03/19/05	4.81	4.83
	06/25/05	4.56	5.08
	09/17/05	5.30	4.34
MW-12 - (5'-20' bsg)	10/20/04	5.41	-
	03/19/05	5.74	-
	06/25/05	5.23	-
	09/17/05	5.74	-
MW-13 - (5'-20' bsg)	10/20/04	5.67	-
	03/19/05	4.82	-
	06/25/05	5.78	-
	09/17/05	6.21	-
MW-14 - (5'-20' bsg)	10/20/04	6.36	-
	03/19/05	5.20	-
	06/25/05	5.56	-
	09/17/05	6.09	-

Notes:
All measurements reported in feet.
bsg: below surface grade
-: information not available

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-1	11/04/96	ND	**220**	ND	ND	ND	ND	NA	NA
	03/05/97	ND	**230**	ND	ND	ND	ND	NA	NA
	06/12/97	ND	**290**	ND	ND	ND	ND	NA	NA
	09/09/97	ND	**180**	ND	ND	ND	ND	NA	NA
	02/13/98	ND	**590**	ND	ND	ND	ND	NA	NA
	07/07/98	ND	**1,400**	ND	ND	ND	ND	NA	NA
	10/01/98	ND	**1,100**	ND	ND	ND	ND	NA	NA
	12/30/98	ND	**1,700**	ND	ND	ND	ND	NA	NA
	03/21/00	**220**	**3,100**	**11**	ND	ND	ND	NA	NA
	08/30/00	**140**	**1,600**	**5.3**	<0.5	<0.5	<0.5	**2,900**	NA
	11/06/00	**51**	**1,500**	**1.0**	<0.5	<0.5	<0.5	**1,700**	NA
	02/22/01	**140**	**3,000**	<0.5	<0.5	<0.5	<0.5	**1,00**	NA
	05/07/01	<50	**3,800**	<0.5	<0.5	<0.5	<0.5	**780**	NA
	08/22/01	<110	**1,800**	<0.5	<0.5	<0.5	<0.5	**1,900**	NA
	11/04/01	<50	**1,300**	<0.5	<0.5	<0.5	<0.5	**1,600**	NA
	02/15/02	<50	**2,000**	<0.5	<0.5	<0.5	<0.5	**610**	NA
	05/20/02	<50	**160**	<0.5	<0.5	<0.5	<0.5	**570**	NA
	08/01/02	<50	**600**	<0.5	<0.5	<0.5	<0.5	**480**	NA
	11/11/02	<50	**2,200**	<0.5	<0.5	<0.5	<0.5	**510**	NA
	02/12/03	<50	**1,200**	<0.5	<0.5	<0.5	<0.5	**540**	NA
	05/12/03	<50	**520**	<0.5	<0.5	<0.5	<0.5	**610**	NA
	08/11/03	<50	**180**	<0.5	<0.5	<0.5	<0.5	**740**	NA
	01/09/04	**610**	<50	<0.5	<0.5	<0.5	**4.2**	NA	NA
	04/14/04	**730**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	**900**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	**100**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-1	09/17/05	**100**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
MW-3N	05/20/02	<50	**1,800**	<0.5	<0.5	<0.5	<0.5	**1,100**	NA
	08/01/02	<50	**2,900**	<0.5	<0.5	<0.5	<0.5	**350**	NA
	11/11/02	<50	**1,100**	<0.5	<0.5	<0.5	<0.5	**280**	NA
	02/12/03	<50	**1,300**	<0.5	<0.5	<0.5	<0.5	**380**	NA
	05/12/03	<50	**1,500**	<0.5	<0.5	<0.5	<0.5	**330**	NA
	08/11/03	<50	**720**	<0.5	<0.5	<0.5	<0.5	**250**	NA
	01/09/04	**230**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	04/14/04	**230**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	**400**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	**190**	<50	**3.5**	<0.5	<0.5	**5.2**	NA	NA
	03/19/05	**300**	<50	**2.6**	<0.5	<0.5	**5.2**	NA	NA
	06/25/05	**1,200**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	**1,900**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-4	08/30/00	**1,300**	**390**	**64**	**63**	**9.7**	**110**	**210,000**	NA
	11/06/00	<3,300	**170**	**80**	<4.0	<5.0	<3.0	**130,000**	NA
	11/06/00†	<3,300	NA	**86**	<4.0	<7.0	<6.0	**130,000**	NA
	02/22/01	<3,300	**120**	**30**	<3.0	<3.0	<3.0	**120,000**	NA
	05/07/01	<4,200	**240**	<20	<10.0	<5.0	<5.0	**150,000**	NA
	08/22/01	<5,400	**300**	<5.0	<5.0	<5.0	<5.0	**160,000**	NA
	11/04/01	<5,000	**210**	<5.0	<5.0	<5.0	<5.0	**130,000**	NA
	02/15/02	<5,000	**340**	<5.0	<5.0	<5.0	<10	**160,000**	NA
	05/20/02	<2,500	**200**	<25	<25	<25	<25	**98,000**	NA
	08/01/02	<2,500	**200**	<25	<25	<25	<25	**89,000**	NA
	11/11/02	<3,000	**200**	<25	<25	<25	<25	**99,000**	NA
	02/12/03	<2,500	**88**	<25	<25	<25	<25	**78,000**	NA
	05/12/03	<2,500	**88**	<25	<25	<25	<25	**88,000**	NA
	08/11/03	<2,500	**66**	<25	<25	<25	<25	**77,000**	NA
	01/09/04	**50,000**	<50	**120**	<0.5	<0.5	<0.6	NA	NA
	04/14/04	**27,000**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	**27,000**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	**22,000**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	**3,500**	<0.05	**25**	<0.5	<0.5	<0.6	NA	NA
	06/25/05	**3,000**	<0.05	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	**3,200**	<0.05	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-5	08/30/00	**1,000**	**450**	<5.0	<5.0	<5.0	<5.0	**52,000**	NA
	11/06/00	<1,000	**520**	<1.0	<1.0	<1.0	<1.0	**44,000**	NA
	02/22/01	<1,000	**270**	<1.0	<1.0	<1.0	<1.0	**30,000**	NA
	05/07/01	<1,800	**470**	<5.0	<2.0	<2.0	<2.0	**48,000**	NA
	08/22/01	<2,200	**780**	<3.0	<3.0	<3.0	<3.0	**63,000**	NA
	11/04/01	<1,700	**670**	<2.0	<2.0	<2.0	<2.0	**44,000**	NA
	02/15/02	<1,100	**480**	<1.0	<1.0	<1.0	<1.0	**33,000**	NA
	05/20/02	<500	**1,600**	<5.0	<5.0	<5.0	<5.0	**21,000**	NA
	08/01/02	<500	**810**	<5.0	<5.0	<5.0	<5.0	**21,000**	NA
	11/11/02	<500	**2,100**	<5.0	<5.0	<5.0	<5.0	**10,000**	NA
	02/12/03	<170	**2,900**	**30**	<1.7	<1.7	<1.7	**3,700**	NA
	05/12/03	<500	**1,500**	**13**	<5.0	<5.0	<5.0	**19,000**	NA
	08/11/03	**71**	**2,200**	**9.5**	<0.5	<0.5	<0.5	**1,500**	NA
	01/09/04	**1,500**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	04/14/04	**500**	<50	**20**	<0.5	<0.5	<0.6	NA	NA
	07/21/04	**2,000**	<50	**2.2**	<0.5	<0.5	<0.6	NA	NA
	10/20/04	**1,900**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	**1,000**	**860**	**2.3**	<0.5	**5.0**	**40**	NA	NA
	06/25/05	**1,500**	**1,200**	**11**	<0.5	**3.6**	**37**	NA	NA
	09/17/05	**2,500**	**1,600**	**42**	<0.5	<0.5	**10**	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-6	08/30/00	**1,300**	**1,300**	**55**	<0.5	**16**	**27**	**23,000**	NA
	11/06/00	<630	**1,100**	**7**	**8.1**	<3.0	**5.2**	**26,000**	NA
	02/22/01	<200	**420**	<5.0	<5.0	<5.0	<5.0	**6,500**	NA
	05/07/01	<1,000	**900**	<2.0	<2.0	<1.0	<1.0	**37,000**	NA
	08/22/01	<350	**520**	<2.0	<1.0	<0.5	<0.5	**8,600**	NA
	11/04/01	<500	**420**	<2.0	<2.0	<0.5	<0.5	**12,000**	NA
	02/15/02	<960	**910**	**2.6**	**4.5**	<1.0	**4.2**	**23,000**	NA
	05/20/02	<620	**690**	<6.2	<6.2	<6.2	<6.2	**25,000**	NA
	08/01/02	<250	**1,100**	**8.0**	<2.5	<2.5	<2.5	**8,100**	NA
	11/11/02	<500	**1,000**	<5.0	<5.0	<5.0	<5.0	**11,000**	NA
	02/12/03	<250	**970**	<2.5	<2.5	<2.5	<2.5	**7,400**	NA
	05/12/03	<1,000	**2,100**	<10	<10	<10	<10	**32,000**	NA
	08/11/03	**110**	**630**	**6.8**	<1	<1.0	<1.0	**2,800**	NA
	01/09/04	**700**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	04/14/04	**200**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	**200**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	**7,700**	**4.5**	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	**1,600**	**1,300**	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	**400**	**630**	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	**590**	**630**	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-7	08/30/00	**160,000**	**2,600**	**28,000**	**15,000**	**1,200**	**5,900**	**800,000**	NA
	11/06/00	**80,000**	**1,700**	**23,000**	**12,000**	**1,200**	**5,000**	**540,000**	NA
	.02/22/01	**80,000**	**2,000**	**19,000**	**12,000**	**1,100**	**3,200**	**440,000**	NA
	02/22/01†	**84,000**	**2,400**	**20,000**	**13,000**	**1,200**	**3,400**	**400,000**	NA
	05/07/01	**100,000**	**7,600**	**25,000**	**16,000**	**1,700**	**6,600**	**460,000**	NA
	05/07/01†	**100,000**	**8,200**	**25,000**	**17,000**	**1,700**	**6,700**	**530,000**	NA
	08/22/01	**110,000**	**22,000**	**18,000**	**12,000**	**2,000**	**9,400**	**240,000**	NA
	11/04/01	**85,000**	**6,500**	**17,000**	**2,700**	**2,100**	**9,700**	**150,000**	NA
	02/15/02	**96,000**	**21,000**	**21,000**	**7,300**	**2,600**	**13,000**	**180,000**	NA
	02/15/02†	**160,000**	**29,000**	**30,000**	**27,000**	**3,700**	**19,000**	**170,000**	NA
	05/20/02	**140,000**	**310,000**	**24,000**	**21,000**	**3,800**	**20,000**	**180,000**	NA
	08/01/02	**110,000**	**160,000**	**15,000**	**16,000**	**4,000**	**21,000**	**120,000**	NA
	11/11/02	**110,000**	**240,000**	**14,000**	**11,000**	**4,100**	**19,000**	**74,000**	NA
	02/12/03	**130,000**	**75,000**	**25,000**	**8,900**	**3,400**	**17,000**	**87,000**	NA
	05/12/03	**98,000**	**7,100**	**25,000**	**520**	**2,600**	**12,000**	**140,000**	NA
	08/11/03	**90,000**	**12,000**	**15,000**	**1,100**	**2,600**	**12,000**	**140,000**	NA
	01/09/04	**130,000**	**18,000**	**9,500**	**340**	**190**	**3,700**	NA	NA
	04/14/04	**330,000**	**22**	**23,000**	**300**	**1,900**	**5,600**	NA	NA
	07/21/04	**120,000**	**14**	**11,000**	**730**	**1,000**	**1,250**	NA	NA
	10/20/04	**130,000**	**8.4**	**14,000**	**420**	**600**	**380**	NA	NA
	03/19/05	**130,000**	**22,000**	**23,000**	**1,400**	**2,200**	**6,800**	NA	NA
	06/25/05	**1,100,000**	**45,000**	**31,000**	**31,000**	**7,500**	**32,000**	NA	NA
	09/17/05	**100,000**	**38,000**	**31,000**	**16,000**	**8,500**	**31,000**	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-8	08/30/00	<1,000	**690**	**18**	<1.0	<1.0	<1.0	**28,000**	NA
	11/06/00	<3,300	**810**	<8.0	<5.0	<3.0	<7.0	**120,000**	NA
	02/22/01	<2,500	**1,100**	**53**	<3.0	<3.0	<3.0	**99,000**	NA
	05/07/01	<5,00	**1,300**	**32**	<10	<5.0	<5.0	**110,000**	NA
	08/22/01	<4,000	**1,200**	<5.0	<5.0	<5.0	**16**	**76,000**	NA
	11/04/01	**590**	**1,100**	**6.9**	<0.5	<0.5	<0.5	**60,000**	NA
	02/15/02	<3,400	**1,500**	<5.0	<5.0	<5.0	<5.0	**110,000**	NA
	05/20/02	<1,700	**2,200**	<17	<17	<17	<17	**66,000**	NA
	08/01/02	<1,200	**2,800**	<12	<12	<12	<12	**53,000**	NA
	11/11/02	<2,000	**11,000**	<10	**18**	<10	<10	**48,000**	NA
	02/12/03	<1,700	**5,800**	<17	<17	<17	<17	**49,000**	NA
	05/12/03	<2,500	**4,500**	**94**	<25	<25	<25	**52,000**	NA
	08/11/03	<2,500	**23,000**	**92**	<25	<25	<25	**42,000**	NA
	01/09/04	**51,000**	**12,000**	**2.4**	<0.5	<0.5	**2.1**	NA	NA
	04/14/04	NS	NS	NS	NS	NS	NS	NS	NA
	07/21/04	NS	NS	NS	NS	NS	NS	NS	NA
	10/20/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/19/05	**80,000**	**100,000**	**45**	**38**	**77**	**530**	NA	NA
	06/25/05	**60,000**	**82,000**	**18**	**5.9**	**3.0**	**54**	NA	NA
	09/17/05	**80,000**	**89,000**	**23**	**2.7**	<0.5	**25**	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-9	08/30/00	<50	**770**	<0.5	<0.5	<0.5	<0.5	**97**	NA
	11/06/00	<50	**390**	<0.5	<0.5	<0.5	<0.5	**190**	NA
	02/22/01	<50	**240**	<0.5	<0.5	<0.5	<0.5	**120**	NA
	05/07/01	<50	**190**	<0.5	<0.5	<0.5	<0.5	**120**	NA
	08/22/01	<50	**120**	<0.5	<0.5	<0.5	<0.5	**120**	NA
	11/04/01	<50	**160**	<0.5	<0.5	<0.5	<0.5	**130**	NA
	02/15/02	<50	**150**	<0.5	<0.5	<0.5	<0.5	**92**	NA
	05/20/02	<50	**380**	<0.5	<0.5	<0.5	<0.5	**79**	NA
	08/01/02	<50	**320**	<0.5	<0.5	<0.5	<0.5	**74**	NA
	11/11/02	<50	**150**	<0.5	<0.5	<0.5	<0.5	**76**	NA
	02/12/03	<50	**350**	<0.5	<0.5	<0.5	<0.5	**55**	NA
	05/12/03	<50	**380**	<0.5	<0.5	<0.5	<0.5	**45**	NA
	08/11/03	<50	**88**	<0.5	<0.5	<0.5	<0.5	**36**	NA
	01/09/04	**200**	<50	<0.5	<0.5	<0.5	**4.7**	NA	NA
	04/14/04	**180**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	**80**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	**100**	<50	**10**	<0.5	<0.5	<0.6	NA	NA
	06/25/05	**100**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	**100**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-10	08/01/02	<50	**720**	**1.0**	<0.5	<0.5	<.05	<5.0	NA
	11/11/02	<50	**100**	**0.72**	<0.5	<0.5	<0.5	<5.0	NA
	02/12/03	<50	**71**	**0.63**	<0.5	<0.5	<0.5	<5.0	NA
	05/12/03	<50	**96**	**0.56**	<0.5	<0.5	<5.0	<5.0	NA
	08/11/03	<50	**110**	**0.93**	<0.5	<0.5	<0.5	<5.0	NA
	01/09/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	04/14/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	<1.0
MW-11	05/20/02	<50	**95**	**1.5**	**3.0**	<0.5	**1.4**	**260**	NA
	08/01/02	<50	**190**	<0.5	**1.9**	**0.6**	<0.5	**52**	NA
	11/11/02	<50	**140**	<0.5	**2.1**	**1.1**	<0.5	**23**	NA
	02/12/03	<50	**86**	<0.5	**1.7**	<0.5	<0.5	<5.0	NA
	05/12/03	<50	**62**	<0.5	**1.1**	<0.5	<0.5	<5.0	NA
	08/11/03	<50	**72**	<0.5	**0.66**	<0.5	<0.5	<5.0	NA
	01/09/04	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	04/14/04	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	07/21/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	10/20/04	NS	NS	NS	NS	NS	NS	NS	NA
	03/19/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA

TABLE 2

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Methods 8015M/8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well I.D.	Date	TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE (8021)	THMs
MW-12	10/20/04	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
MW-13	10/20/04	**100**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
MW-14	10/20/04	**490**	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	03/19/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	06/25/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
	09/17/05	<50	<50	<0.5	<0.5	<0.5	<0.6	NA	NA
MCL		**NE**	**NE**	**1**	**150**	**700**	**1,750**	**13**	**NE**

Notes:

µg/l: micrograms per liter
†: duplicate sample
NA: not analyzed
NS: not sampled
TPH-g: total petroleum hydrocarbons quantified as gasoline
TPH-d: total petroleum hydrocarbons quantified as diesel
MTBE: methyl tertiary-butyl ether
THMs: trihalomethanes
MCL: primary Maximum Contaminant Level for drinking water in California
NE: no MCL has been established

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-1	11/04/96	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/05/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/12/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/09/97	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/13/98	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/07/98	**2.7**	NA	NA	NA	NA	NA	NA	NA	NA
	10/01/98	**1.8**	NA	NA	NA	NA	NA	NA	NA	NA
	12/30/98	**2.3**	NA	NA	NA	NA	NA	NA	NA	NA
	03/21/00	**4,800**	NA	NA	NA	NA	NA	NA	NA	NA
	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**2,100**	<50	<50	<50	<250	NA	NA	<50	<50
	02/22/01	**1,100**	<20	<20	<20	<100	<4,000	<1,000	<20	<20
	05/07/01	**1,100**	<20	<20	<20	<100	<10,000	<1,000	<20	<20
	08/22/01	**1,600**	<25	<25	<25	<130	NA	NA	<25	<25
	11/04/01	**1,500**	<50	<50	<50	<250	NA	NA	<50	<50
	02/15/02	**770**	<20	<20	<20	<100	<10,000	<1,000	<20	<20
	05/20/02	**730**	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	08/01/02	**610**	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	11/11/02	**600**	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	02/12/03	**640**	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	05/12/03	**580**	<10	<10	<10	<100	<10,000	<1,000	<10	<10
	08/11/03	**660**	<12	<12	<12	<120	<12,000	<1,200	<12	<12
	01/09/04	**590**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**730**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**620**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	10/20/04	**60**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	**100**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-1	06/25/05	**100**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	**83**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
MW-3N	05/20/02	**1,500**	<25	<25	<25	<250	<25,000	<2,500	<25	<25
	08/01/02	**540**	<10	<10	**14**	<100	<10,000	<1,00	<10	<10
	11/11/02	**270**	<5.0	<5.0	**7.1**	<50	<5,000	<500	<5.0	<5.0
	02/12/03	**410**	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	05/12/03	**360**	<6.2	<6.2	<6.2	<62	<6,200	<620	<6.2	<6.2
	08/11/03	**280**	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	01/09/04	**230**	<1.0	<1.0	**2.5**	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**220**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**370**	<1.0	<1.0	**4.4**	<10	NA	NA	<0.5	<0.5
	10/20/04	**180**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	**300**	<1.0	<1.0	**2.4**	<10	NA	NA	<0.5	<0.5
	06/25/05	**1,100**	<1.0	<1.0	<1.0	**330**	NA	NA	<0.5	<0.5
	09/17/05	**1,100**	<1.0	<1.0	<1.0	**770**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-4	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**120,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	11/06/00†	**120,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/22/01	**150,000**	<2,500	<2,500	<2,500	<13,000	<500,000	<130,000	<2,500	<2,500
	05/07/01	**200,000**	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	08/22/01	**190,000**	<5,000	<5,000	<5,000	<25,000	NA	NA	<5,000	<5,000
	11/04/01	**170,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	**160,000**	<2,500	<2,500	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
	05/20/02	**130,000**	<1,700	<1,700	<1,700	<17,000	<2,500,000	<170,000	<1,700	<1,700
	08/01/02	**100,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	11/11/02	**84,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	02/12/03	**70,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	05/12/03	**86,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	08/11/03	**74,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	01/09/04	**50,000**	<1.0	<1.0	**85**	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**27,000**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**5,300**	<1.0	<1.0	**3.6**	**150,000**	NA	NA	<0.5	<0.5
	10/20/04	**840**	<1.0	<1.0	<1.0	**110,000**	NA	NA	<0.5	<0.5
	03/19/05	**900**	<1.0	<1.0	**4.6**	**2,900**	NA	NA	<0.5	<0.5
	06/25/05	**620**	<1.0	<1.0	<1.0	**54,000**	NA	NA	<0.5	<0.5
	09/17/05	**370**	<1.0	<1.0	<1.0	**180,000**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-5	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**42,000**	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	02/22/01	**39,000**	<500	<500	<500	<2,500	<100,000	<25,000	<500	<500
	05/07/01	**59,000**	<1,000	<1,000	<1,000	<5,000	<500,000	<50,000	<1,000	<1,000
	08/22/01	**70,000**	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	11/04/01	**37,000**	<1,000	<1,000	<1,000	<5,000	NA	NA	<1,000	<1,000
	02/15/02	**33,000**	<1,250	<1,250	<1,250	<6,250	<625,000	<62,500	<1,250	<1,250
	05/20/02	**28,000**	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	08/01/02	**24,000**	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	11/11/02	**8,800**	<200	<200	<200	**10,000**	<200,000	<20,000	<200	<200
	02/12/03	**3,200**	<100	<100	<100	**4,100**	<100,000	<10,000	<100	<100
	05/12/03	**21,000**	<500	<500	<500	**5,200**	<500,000	<50,000	<500	<500
	08/11/03	**1,700**	<50	<50	<50	**14,000**	<50,000	<5,000	<50	<50
	01/09/04	**1,500**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**430**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**320**	<1.0	<1.0	<1.0	**15,000**	NA	NA	<0.5	<0.5
	10/20/04	**23**	<1.0	<1.0	<1.0	**11,000**	NA	NA	<0.5	<0.5
	03/19/05	**71**	<1.0	<1.0	<1.0	**500**	NA	NA	<0.5	<0.5
	06/25/05	**54**	<1.0	<1.0	<1.0	**2,700**	NA	NA	<0.5	<0.5
	09/17/05	**16**	<1.0	<1.0	<1.0	**12,000**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-6	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**27,000**	<630	<630	<630	<3,200	NA	NA	<630	<630
	02/22/01	**8,000**	<100	<100	<100	<500	<20,000	<5,000	<100	<100
	05/07/01	**40,000**	<500	<500	<500	<2,500	<250,000	<25,000	<500	<500
	08/22/01	**8,800**	<200	<200	<200	<1,000	NA	NA	<200	<200
	11/04/01	**17,000**	<250	<250	<250	<1,300	NA	NA	<250	<250
	02/15/02	**26,000**	<1,000	<1,000	<1,000	<5,000	<500,000	<50,000	<1,000	<1,000
	05/20/02	**37,000**	<500	<500	<500	<5,000	<500,000	<50,000	<500	<500
	08/01/02	**9,100**	<170	<170	<170	**3,800**	<170,000	<17,000	<170	<170
	11/11/02	**11,000**	<250	<250	<250	**8,600**	<250,000	<25,000	<250	<250
	02/12/03	**8,300**	<120	<120	<120	**4,600**	<120,000	<12,000	<120	<120
	05/12/03	**29,000**	<500	<500	<500	**8,700**	<500,000	<50,000	<500	<500
	08/11/03	**2,300**	<100	<100	<100	**27,000**	<100,000	<10,000	<100	<100
	01/09/04	**690**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**190**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**140**	<1.0	<1.0	<1.0	**15,000**	NA	NA	<0.5	<0.5
	10/20/04	**3,400**	<1.0	<1.0	<1.0	**77,000**	NA	NA	<0.5	<0.5
	03/19/05	**57**	<1.0	<1.0	<1.0	**1,300**	NA	NA	<0.5	<0.5
	06/25/05	**58**	<1.0	<1.0	<1.0	**3,600**	NA	NA	<0.5	<0.5
	09/17/05	**28**	<1.0	<1.0	<1.0	**5,300**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-7	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**920,000**	<13,000	<13,000	<13,000	<63,000	NA	NA	<13,000	<13,000
	02/22/01	**460,000**	<5,000	<5,000	<5,000	<2,500	<1,000,000	<250,000	<5,000	<5,000
	02/22/01†	**500,000**	<5,000	<5,000	<5,000	<25,000	<1,000,000	<250,000	<5,000	<5,000
	05/07/01	**520,000**	<5,000	<5,000	<5,000	<2,500	<2,500,000	<250,000	<5,000	<5,000
	05/07/01†	**500,000**	<5,000	<5,000	<5,000	<25,000	<2,500,000	<5,000	<5,000	<5,000
	08/22/01	**250,000**	<5,000	<5,000	<5,000	<25,000	NA	NA	<5,000	<5,000
	11/04/01	**180,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	**200,000**	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	02/15/02†	**200,000**	<5,000	<5,000	<5,000	<25,000	<2,500,000	<250,000	<5,000	<5,000
	05/20/02	**220,000**	<5,000	<5,000	<5,000	<50,000	<5,000,000	<500,000	<5,000	<5,000
	08/01/02	**150,000**	<2,500	<2,500	<2,500	<25,000	<2,500,000	<250,000	<2,500	<2,500
	11/11/02	**77,000**	<1,200	<1,200	<1,200	<12,000	<1,200,000	<120,000	<1,200	<1,200
	02/12/03	**110,000**	<1,700	<1,700	<1,700	<17,000	<1,700,000	<170,000	<1,700	<1,700
	05/12/03	**220,000**	<5,000	<5,000	<5,000	<5,000	<5,000,000	<500,000	<5,000	<5,000
	08/11/03	**140,000**	<5,000	<5,000	<5,000	<5,000	<5,000,000	<500,00	<5,000	<5,000
	01/09/04	**120,000**	<1.0	<1.0	**900**	<10	<1,000	<50	<0.5	**420**
	04/14/04	**220,000**	<1.0	<1.0	**660**	<10	<1,000	<50	<0.5	**400**
	07/21/04	**71,000**	<1.0	<1.0	**370**	<10	NA	NA	<0.5	**300**
	10/20/04	**39,000**	<1.0	<1.0	**290**	<10	NA	NA	<0.5	**180**
	03/19/05	**40,000**	<1.0	<1.0	**17**	**290**	NA	NA	<0.5	**29**
	06/25/05	**49,000**	<1.0	<1.0	**93**	**400**	NA	NA	<0.5	**75**
	09/17/05	**28,000**	<1.0	<1.0	<1.0	**7,400**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-8	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**76,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/22/01	**130,000**	<2,000	<2,000	<2,000	<10,000	<400,000	<100,000	<2,000	<2,000
	05/07/01	**120,000**	<2,500	<2,500	<2,500	<13,000	<1,300,000	<13,000	<2,500	<2,500
	08/22/01	**86,000**	<1,700	<1,700	<1,700	<8,500	NA	NA	<1,700	<1,700
	11/04/01	**49,000**	<2,500	<2,500	<2,500	<13,000	NA	NA	<2,500	<2,500
	02/15/02	**91,000**	<2,500	<2,500	<2,500	<12,500	<1,250,000	<125,000	<2,500	<2,500
	05/20/02	**86,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	08/01/02	**67,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	11/11/02	**51,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	02/12/03	**51,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	05/12/03	**60,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	08/11/03	**42,000**	<1,000	<1,000	<1,000	<10,000	<1,000,000	<100,000	<1,000	<1,000
	01/09/04	**50,000**	<1.0	<1.0	**160**	<10	<1,000	<50	<0.5	<0.5
	04/14/04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/21/04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/20/04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/05	**13,000**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	**1,600**	<1.0	<1.0	**12**	**3,700**	NA	NA	<0.5	<0.5
	09/17/05	**1,400**	<1.0	<1.0	**17**	**88,000**	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-9	08/30/00	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/06/00	**220**	<25	<25	<25	<125	NA	NA	<5.0	<5.0
	02/22/01	**160**	<2.0	<2.0	<2.0	<1.0	<400	<100	<2.0	<2.0
	05/07/01	**150**	<2.5	<2.5	<2.5	<13	<1,300	<130	<2.5	<2.5
	08/22/01	**120**	<5.0	<5.0	<5.0	<25	NA	NA	<5.0	<5.0
	11/04/01	**120**	<5.0	<5.0	<5.0	<25	NA	NA	<5.0	<5.0
	02/15/02	**98**	<2.5	<2.5	<2.5	<12.5	<1,250	<125	<2.5	<2.5
	05/20/02	**85**	<2.5	<2.5	<2.5	<25	<2,500	<250	<2.5	<2.5
	08/01/02	**84**	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	11/11/02	**61**	<2.5	<2.5	<2.5	<25	<2,500	<250	<2.5	<2.5
	02/12/03	**50**	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	05/12/03	**45**	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	08/11/03	**42**	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	01/09/04	**140**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	**180**	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	**24**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	10/20/04	**78**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	**87**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	**92**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	**85**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5

TABLE 3

ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-10	08/01/02	**1.1**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	11/11/02	**0.7**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	02/12/03	<0.5	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	05/12/03	**0.59**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	08/11/03	**0.73**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	01/09/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	10/20/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
MW-11	05/20/02	**310**	<5.0	<5.0	<5.0	<50	<5,000	<500	<5.0	<5.0
	08/01/02	**65**	<1.0	<1.0	<1.0	<10	<1,000	<100	<1.0	<1.0
	11/11/02	**15**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	02/12/03	**2.6**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	05/12/03	**2.3**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	08/11/03	**2.3**	<0.5	<0.5	<0.5	<5.0	<500	<50	<0.5	<0.5
	01/09/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	04/14/04	<1.0	<1.0	<1.0	<1.0	<10	<1,000	<50	<0.5	<0.5
	07/21/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	10/20/04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5

TABLE 3

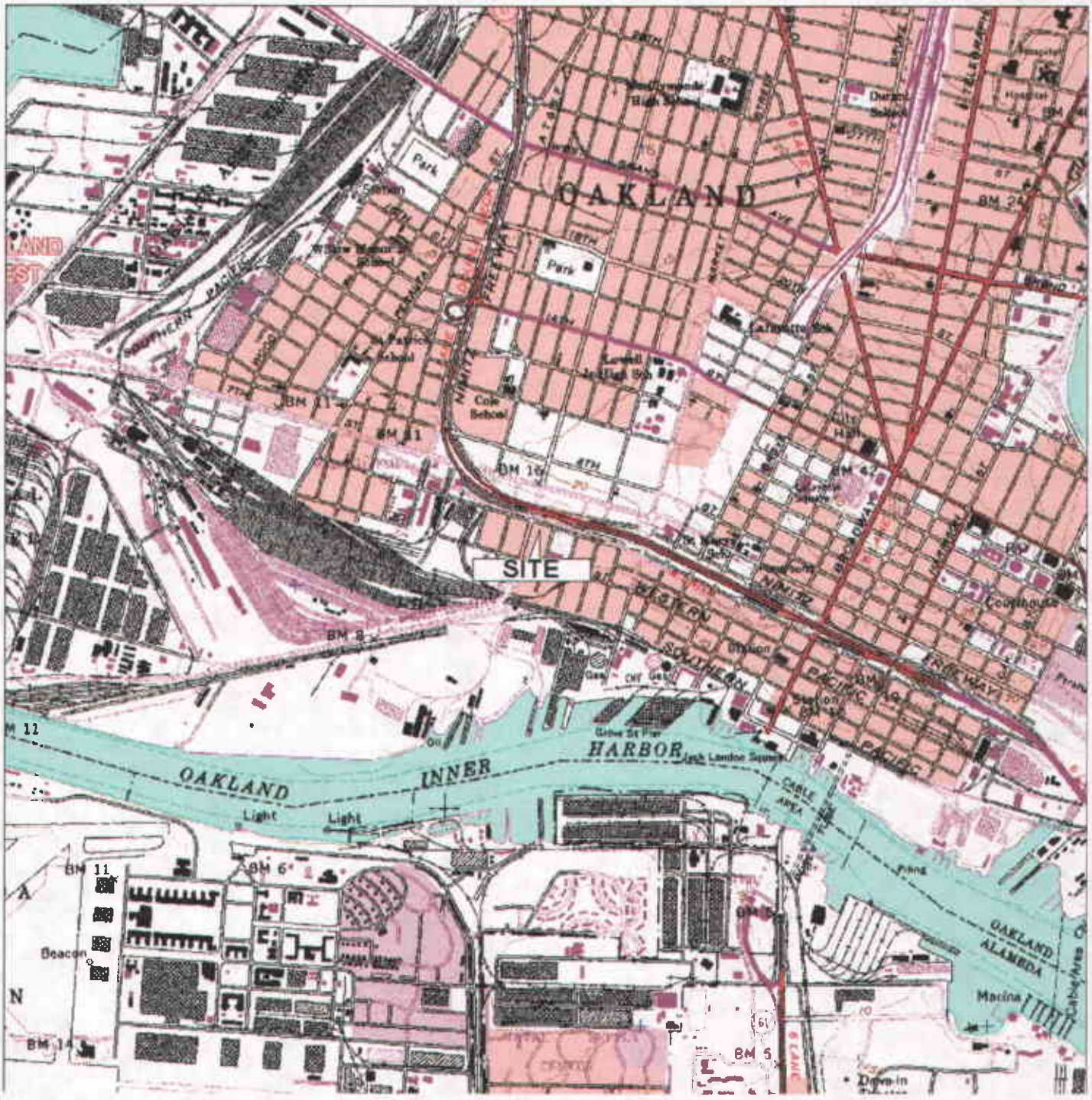
ANALYTICAL RESULTS OF GROUND WATER SAMPLES - EPA Method 8260B
RINEHART OIL, INC. - OAKLAND TRUCK STOP
1107 5th Street, Oakland, California
(µg/l)

Well ID	Date	MTBE (8260B)	DIPE	ETBE	TAME	TBA	Methanol	Ethanol	EDB	1,2-DCA
MW-12	10/20/04	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
MW-13	10/20/04	**99**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	**31**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	**40**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
MW-14	10/20/04	**90**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	03/19/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	06/25/05	<1.0	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
	09/17/05	**12**	<1.0	<1.0	<1.0	<10	NA	NA	<0.5	<0.5
MCL		**13**	**NE**	**NE**	**NE**	**12****	**NE**	**NE**	**0.05**	**0.5**

Notes:

µg/l: micrograms per liter
†: duplicate sample
NA: not analyzed
NS: not sampled
MTBE: methyl tertiary-butyl ether
DIPE: di-isopropyl ether
ETBE: ethyl tertiary-butyl ether
TAME: tertiary-amyl methyl ether
TBA: tertiary-butyl alcohol
EDB: 1,2-dibromoethane
1,2-DCA: 1,2-dichloroethane
MCL: primary Maximum Contaminant Level for drinking water in California
NE: no MCL has been established

**: Action Level, not MCL



OAKLAND WEST QUADRANGLE, CALIFORNIA
7.5 MINUTE SERIES (U.S. GEOLOGICAL SURVEY)

LOCATION MAP

RINEHART – OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101	FILE: LOCATION	FIGURE:
DATE: 27 SEPTEMBER 2004	DRAWN BY: MAC	1

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

Property Line

Scale

Scale House

PUMP ISLAND

Former USTs

PUMP ISLAND Diesel

PUMP ISLAND Diesel and Gasoline

Main Building

Oliver's Hoffbrau

MW-1
MW-3N
MW-4
MW-5
MW-6
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14

B-1
B-2
B-3
B-4
B-5
B-6
B-7
B-8

OZ1
OZ2
OZ3
OZ4
OZ5
OZ6
OZ7
OZ8
OZ9
OZ10
OZ11
OZ12
OZ13
OZ14
OZ15
OZ16
OZ17
OZ18
OZ19
OZ20

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 GROUND WATER MONITORING WELL LOCATION & DESIGNATION
- B-6 BORING LOCATION & DESIGNATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

N

SCALE
0 35 70
FEET

SITE PLAN
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: [illegible] | FIGURE: 2
DATE: 11 NOVEMBER 2005 | DRAWN BY: MAC

17 SEPTEMBER 2005

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

MW-12

MW-13

MW-14

MW-1 6.46

MW-3N 6.73

MW-4 5.92

MW-5 6.33

MW-6 6.56

MW-7 (5.14)

MW-8 5.84

MW-9 6.65

MW-10 8.17

MW-11 4.34

Scale / Scale House

PUMP ISLAND

PUMP ISLAND

PUMP ISLAND

PUMP ISLAND

Former USTs

Main Building

Oliver's Hofbrau

0.02 ft/ft

0.005 ft/ft

8.00 7.60 7.20 6.80 6.40 6.00 5.60 5.20 5.80 4.40

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 GROUND WATER MONITORING WELL LOCATION & DESIGNATION
- B-6 BORING LOCATION & DESIGNATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SEWER LINE
- 0.07 ft/ft GROUND WATER GRADIENT & FLOW DIRECTION
- ROSE DIAGRAM ILLUSTRATING FREQUENCY OF GROUND WATER FLOW DIRECTION: 01-09-04 TO 09-17-05

N

SCALE

0 35 70

FEET

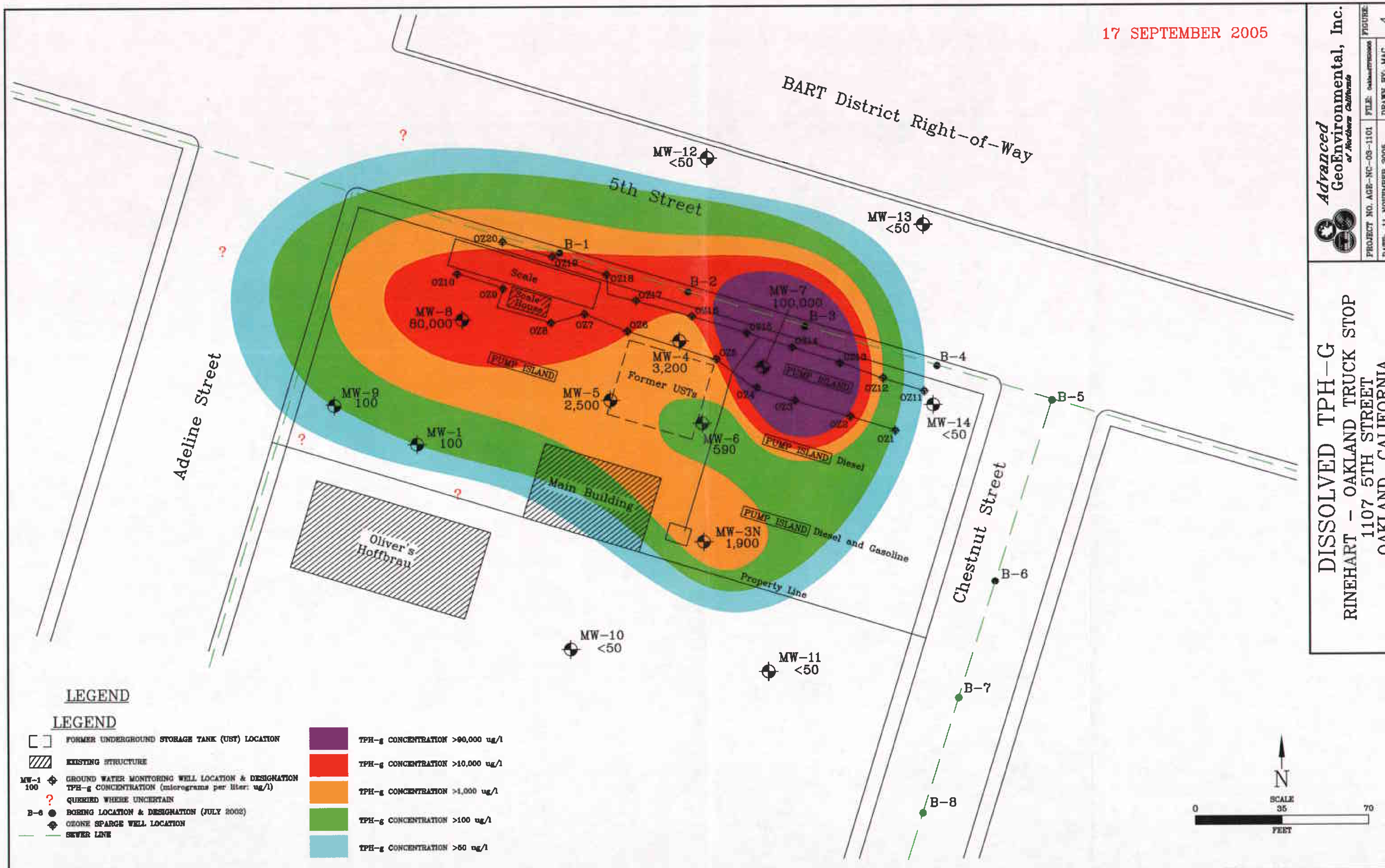
GROUND WATER ELEVATION

RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: [illegible] | FIGURE: 3

DATE: 11 NOVEMBER 2005 | DRAWN BY: MAC


17 SEPTEMBER 2005
BART District Right-of-Way
5th Street
Adeline Street
Chestnut Street
MW-12
<50
MW-13
<50
MW-7
100,000
MW-8
80,000
MW-4
3,200
MW-5
2,500
MW-6
590
MW-9
100
MW-1
100
MW-3N
1,900
MW-14
<50
MW-10
<50
MW-11
<50
B-1
B-2
B-3
B-4
B-5
B-6
B-7
B-8
Scale
Scale House
Former USTs
PUMP ISLAND
PUMP ISLAND
PUMP ISLAND Diesel
PUMP ISLAND Diesel and Gasoline
Main Building
Oliver's Hoffbrau
Property Line
?
LEGEND
LEGEND
FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
EXISTING STRUCTURE
MW-1 100 GROUND WATER MONITORING WELL LOCATION & DESIGNATION TPH-g CONCENTRATION (micrograms per liter: ug/l)
QUERIED WHERE UNCERTAIN
B-6 BORING LOCATION & DESIGNATION (JULY 2002)
OZONE SPARGE WELL LOCATION
SEWER LINE
TPH-g CONCENTRATION >90,000 ug/l
TPH-g CONCENTRATION >10,000 ug/l
TPH-g CONCENTRATION >1,000 ug/l
TPH-g CONCENTRATION >100 ug/l
TPH-g CONCENTRATION >50 ug/l
N
SCALE
0
35
70
FEET
Advanced GeoEnvironmental, Inc.
of Northern California
PROJECT NO. AGE-NC-03-1101
DATE: 11 NOVEMBER 2005
DRAWN BY: MAC
FIGURE: 4
DISSOLVED TPH-G
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

17 SEPTEMBER 2005

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

Property Line

MW-12 <50

MW-13 <50

MW-14 <50

MW-9 <50

MW-1 <50

MW-10 <50

MW-11 <50

MW-3N <50

MW-8 89,000

MW-4 <0.05

MW-7 38,000

MW-5 1,600

MW-6 630

B-1

B-2

B-3

B-4

B-5

B-6

B-7

B-8

OZ1 OZ2 OZ3 OZ4 OZ5 OZ6 OZ7 OZ8 OZ9 OZ10 OZ11 OZ12 OZ13 OZ14 OZ15 OZ16 OZ17 OZ18 OZ19 OZ20

Scale

Scale House

PUMP ISLAND

Former USTs

PUMP ISLAND

PUMP ISLAND Diesel

PUMP ISLAND Diesel and Gasoline

Main Building

Oliver's Hoffbrau

LEGEND

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 <50 GROUND WATER MONITORING WELL LOCATION & DESIGNATION TPH-d CONCENTRATION (micrograms per liter: ug/l)
- ? QUERIED WHERE UNCERTAIN
- B-6 BORING LOCATION & DESIGNATION (JULY 2005)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- TPH-d CONCENTRATION >10,000 ug/l
- TPH-d CONCENTRATION >1,000 ug/l
- TPH-d CONCENTRATION >100 ug/l
- TPH-d CONCENTRATION >50 ug/l

N

SCALE 0 35 70 FEET

DISSOLVED TPH-D
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Advanced GeoEnvironmental, Inc.

PROJECT NO. AGE-NC-03-1101 | FILE: | FIGURE: 5
DATE: 11 NOVEMBER 2005 | DRAWN BY: MAC

17 SEPTEMBER 2005

BART District Right-of-Way

5th Street

Adeline Street

Chestnut Street

Property Line

MW-12 <50

MW-13 40

MW-7 26,000

MW-4 370

MW-8 1,400

MW-5 16

MW-6 28

MW-3N 1,100

MW-9 85

MW-1 83

MW-14 12

MW-10 <50

MW-11 <50

B-1

B-2

B-3

B-4

B-5

B-6

B-7

B-8

OZ20 OZ19 OZ18 OZ17 OZ16 OZ15 OZ14 OZ13 OZ12 OZ11 OZ10 OZ9 OZ8 OZ7 OZ6 OZ5 OZ4 OZ3 OZ2 OZ1

Scale

Scale House

PUMP ISLAND

Former USTs

PUMP ISLAND Diesel

Main Building

PUMP ISLAND Diesel and Gasoline

Oliver's Hofbrau

?

LEGEND

LEGEND

- FORMER UNDERGROUND STORAGE TANK (UST) LOCATION
- EXISTING STRUCTURE
- MW-1 83 — GROUND WATER MONITORING WELL LOCATION & DESIGNATION MTBE CONCENTRATION (micrograms per liter: ug/l)
- ? — QUERIED WHERE UNCERTAIN
- B-6 — BORING LOCATION & DESIGNATION (JULY 2002)
- OZONE SPARGE WELL LOCATION
- SEWER LINE

- MTBE CONCENTRATION >10,000 ug/l
- MTBE CONCENTRATION >1,000 ug/l
- MTBE CONCENTRATION >100 ug/l
- MTBE CONCENTRATION >50 ug/l

N

SCALE 0 35 70 FEET

Advanced GeoEnvironmental, Inc.
of Northern California

PROJECT NO. AGE-NC-03-1101 | FILE: | FIGURE: 6
DATE: 11 NOVEMBER 2005 | DRAWN BY: MAC

DISSOLVED MTBE
RINEHART - OAKLAND TRUCK STOP
1107 5TH STREET
OAKLAND, CALIFORNIA

Site Background Information
Rinehart Oil, Inc - Oakland Truck Stop
1107 5th Street, Oakland, California

BACKGROUND

The site is located at 1107 5th Street in a commercial and industrial area of west Oakland, California (Figure 1). The property contains a service station building, four fuel dispenser islands, a truck scale, scale house, and two underground storage tanks (USTs). The site has been operating as a truck stop for the past 40 years.

REGIONAL GEOLOGIC/HYDROGEOLOGIC SETTING

The site is situated within the Coast Range Geomorphic Province of California. This geopmorphic province contains coastal foothills and mountains and extends from the Tehachapi Mountains in the south to the Klamath Mountains in the north. The western and eastern boundaries of this province are comprised of the Pacific Ocean and the Great Valley Geomorphic Province, respectively.

The site is located in the Franciscan Complex, which is subdivided into four major divisions identified as the Northern Coast Range, the Franciscan Block, the Diablo Range, and the Nacimiento Block. The site is situated within the Franciscan Block, an assemblage of variably deformed and metamorphosed rock units. The surface is composed of Quaternary alluvium; at depth, the site is underlain by rocks of the Franciscan Complex, which are composed predominately of detrital sedimentary rocks with volcanic tuffs and deep ocean marine sediments. The Franciscan lithologies typically have low porosity and permeability.

Based upon the General Soil Map from the *Soil Survey of Alameda County, Western Part*, issued by the United States Department of Agriculture Soil Conservation Service in 1981, the site area is situated within the Urban Land-Danville complex. This complex is located on low terraces and alluvial fans at an elevation of about 20 feet to 300 feet above mean sea level (MSL), and consists of approximately 60% Urban Land, 30% Danville soil, and 10% other soils. Danville soil is a silty clay loam that formed in alluvium originating primarily from sedimentary rock; Urban land consists of areas covered by roads, parking lots, and buildings. The nearest surface water feature in the vicinity of the property is the Oakland Estuary, approximately 2,400 feet to the south of the property.

Beginning in October 1996, ground water monitoring has been conducted at the site to assess the seasonal variation of elevation, gradient, and flow direction, and to define the impact of petroleum hydrocarbon compounds and fuel oxygenating compounds in shallow ground water beneath the site. Based on data from previous monitoring events, ground water at the property varies seasonally between approximately 10 inches to 6 feet below surface grade (bsg). The ground water flow has varied from southwest to north. This may be affected by changing recharge and discharge patterns, as well as leaking pipes.

UNDERGROUND STORAGE TANK REMOVAL

In March 1999, two 10,000-gallon diesel USTs, one 10,000-gallon gasoline UST, and one 8,000-gallon gasoline UST were removed from the site. The approximate location of the former USTs is shown on Figure 2.

Interim remedial action was performed during the UST removal to address contaminated soil and ground water. Approximately 2,100 tons of contaminated soil were removed from the excavation. Soil samples were collected from the excavation and stockpiles as directed by the Fire Inspector. Contaminated ground water was removed from the excavation pit; approximately 33,000 gallons of water were pumped into temporary storage tanks, which were then transported and disposed off-site. Approximately 1,700 tons of backfill was placed in the excavation. Results of the soil samples taken during the excavation are not available.

PREVIOUS SITE ASSESSMENT ACTIVITIES

In November 1996, ground water monitoring wells MW-1 through MW-3 were installed to a depth of 20 feet bsg to assess contamination from an unauthorized release of fuel, which was repaired as soon as it was discovered. Product recovery sumps equipped with skimmers were installed in the wells and approximately 6 gallons of gasoline were recovered.

Monitoring well MW-2 was destroyed in January 1999. Additional monitoring wells MW-4 through MW-9 were installed to a total depth of 20 feet bsg in August 2000. Contamination was detected in each of the wells, and free product was occasionally evident in well MW-7.

Monitoring wells MW-10 and MW-11 were installed in May 2002 to a total depth of 12 feet bsg. At this time, well MW-3 was abandoned and well MW-3N was installed to a depth of 12 feet bsg.

In July 2002, eight soil borings were advanced on 5th Street and Chestnut Street to total depths between 5 feet and 8 feet bsg to determine if contamination was migrating off-site along preferential pathways (i.e. utility trenches). Sample results indicated high methyl tertiary-butyl ether (MTBE) concentrations that ranged from 170,000 micrograms per liter (µg/l) to 460,000 µg/l in grab ground water samples from borings drilled directly north of the site, along the 5th Street sewer line. Borings east of the site had little to no contamination.

In January 2003, a passive skimmer was placed inside monitoring well MW-7 to remove free product. During monitoring activities in April 2004, free-product was noted in MW-8. The passive skimmer in MW-7 was moved to MW-8 to remove the free product.

On 04 and 05 October 2004, a total of thirteen soil borings were advanced at the site. Boring MW14

and the ten ozone sparge well borings were advanced at the north edge of the property to vertical depths of 20 feet and 15 feet below surface grade (bsg), respectively. Borings MW12 and MW13 were advanced in the 5th Street right of way to the north of the property to a vertical depth of 20 feet bsg. Pilot borings MW12 through MW14 were completed as ground water monitoring wells using 2-inch diameter polyvinylchloride (PVC) casing with a 0.020-inch slotted screen installed from 5 feet to 20 feet bsg. The ozone sparge well soil borings were completed with manufacturer-assembled, 2-inch by 24-inch microporous sparge points and blank casing extended to the surface, with a filter pack (No. 2/12 Lonestar sand) installed from 9 feet to 13 feet bsg. A total of three soil samples, taken from the monitoring well pilot borings, were analyzed for petroleum hydrocarbon constituents. In sample MW14-10, 1.8 milligrams per kilogram (mg/kg) TPH-d and 2.0 mg/kg MTBE were detected.

To date, the vertical extent of petroleum hydrocarbon contamination is undefined at the site. The lateral extent of contamination is defined to the north by monitoring well MW-12, to the east by monitoring well MW-14, and to the south by monitoring well MW-10.

Advanced
GeoEnvironmental, Inc.
837 Shaw Road, Stockton, CA 95205 (209) 467-1006 Fax (209) 467-1118

Ground Water Depth & Dissolved Oxygen Field Log

Project: Oakland truck stop Date: 9/17/05

Field Personnel: LL, CT Page: 1 of 1

Well I.D.	Time	Casing Elev.	Depth to Free Product	Depth to Water	Ground Water Elev.	Measured Depth	Total Depth	ORP	Dissolved Oxygen		
									mg/l	%	°C
MW-1	1014	10.31		3.88	6.46	17.80					
3N	1025	11.67		4.94	6.73	11.75					
4	1010	10.46		4.54	5.92	20.00					
5	1019	10.24		3.91	6.33	14.30		-121.0	2.14	35.0	24.2
6	1022	10.62		4.06	6.56	14.30		-160.2	3.91	45.6	23.2
7	1029	11.69		(6.55)	(5.14)	19.05		-75.9	2.70	31.5	23.1
8	1034	10.06		4.22	5.84	18.60		-119.2	2.52	30.2	24.5
9	1016	10.03		3.38	6.65	20.00					
10	1037	11.07		2.90	8.17	11.20					
11	1039	9.64		5.30	4.34	11.80					
12	1043	—		5.74	—	20.20					
13	1046	—		6.21	—	19.70					
14	1030	—		6.09	—	19.85		-71.8	4.84	59.6	22.3

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 3.88	Time: 1014	Well I.D.: MW- 1	
Post-Purge DTW: 15.10	Time: 1327		
Total Depth of Well: 17.80	Well Volume: 2.22	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): (KL)/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW- 1 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1314	0	6.96	24.4	1840	clear	slight odor
1321	2.5	6.96	24.3	1842	"	"
1323	5.0	6.79	23.0	3.04 mS	"	"
1326	7.0	6.80	22.5	1820	"	"
	- Drew down to (15.10)					waiting
	for recharge to sample.					
	- DTW at (5.21) at sample time.					

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1320	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 4.94	Time: 1025	Well I.D.: MW- 3N	
Post-Purge DTW: 10.18	Time: 1157		
Total Depth of Well: 11.75	Well Volume: 1.08	Casing Diameter: 0.5" / 2" / 4" / 6"	Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47
Sampler(s): (KL)/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW- /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1150	0	6.50	24.2	814	clear	odor/sheen
1152	1	6.53	24.1	822	"	"
1154	2	6.50	24.1	844	"	"
1156	3.5	6.50	23.9	846	cloudy	"
	-Draw down to (10.18) waiting for recharge to sample.					
	-DTW at (6.50) at sample time.					

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1456	Dissolved O_2:	C
ICM	Hydac Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 4.54	Time: 1010	Well I.D.: MW-4	
Post-Purge DTW: 16.64	Time: 1342		
Total Depth of Well: 20.00	Well Volume: 2.47	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): (KL)/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-4 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1333	0	6.77	25.4	1127	clear	odor
1335	2.5	6.65	25.2	1046	"	"
1337	5.0	6.54	23.7	1295	"	"
1341	7.5	6.50	21.2	1661	cloudy	"
	~~16~~	- Drew down to (16.54) waiting				
		for recharge to sample.				
		- DTW at (7.59) at sample time				

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1526	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 3.91	Time: 1019	Well I.D.: MW- 5	
Post-Purge DTW: 3.91	Time: 1408		
Total Depth of Well: 14.30	Well Volume: 1.66	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-5 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1402	0	6.80	24.9	706	clear	odor/sheen
1404	2	6.70	24.5	776	cloudy	"
1406	4	6.75	24.6	735	"	"
1407	5	6.77	24.5	744	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1409	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 4.06	Time: 1022	Well I.D.: MW- 6	
Post-Purge DTW: 4.08	Time: 1355		
Total Depth of Well: 14.30	Well Volume: 1.63	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.0107 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-6 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1349	0	6.85	23.7	950	clear	odor
1351	2	6.82	25.5	672	cloudy	"
1353	4	6.80	25.4	653	"	"
1354	5	6.75	25.3	771	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1356	Dissolved O_2:	C
ICM	Hydac Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 6.55	Time: 1029	Well I.D.: MW- 7	
Post-Purge DTW: 10.06	Time: 1430		
Total Depth of Well: 19.05	Well Volume: 2.0	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW- 7 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
	0					
	2	-found free product, bailer showed				
	4	about 2" of product				
	6	-Purging three volumes before				
		sampling.				
	-	Drew down to (10.06) waiting for				
		recharge to sample.				
	-	DTW at (6.86) at sample time.				

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1532	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 4.22	Time: 1034	Well I.D.: MW-8	
Post-Purge DTW: 9.87	Time: 1447		
Total Depth of Well: 18.60	Well Volume: 2.30	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-8 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1440	0	6.73	25.5	1063	clear	odor/sheen
1442	2.5	6.81	25.2	1085	cloudy	"
1444	5.0	6.78	23.8	1163	"	"
1446	7.0	6.71	23.2	1204	"	"
	- Drew down to (9.87) waiting for					
	recharge to sample.					
	- DTW at (4.66) at sample time.					

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1546	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 3.38	Time: 1016	Well I.D.: MW-9	
Post-Purge DTW: 16.66	Time: 1315		
Total Depth of Well: 20.00	Well Volume: 2.65	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-9 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1307	0	6.44	24.9	1573	cloudy	No odor
1310	3	6.56	24.4	1606	"	slight odor
1312	6	6.55	23.1	1687	"	"
1314	8	6.52	21.6	1957	"	"
	- Draw down to (16.66) waiting for recharge to sample.					
	- DTW at (4.50) at sample time.					

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1314	Dissolved O_2:	C
ICM	Hydac Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 2.90	Time: 1037	Well I.D.: MW-10	
Post-Purge DTW: 3.24	Time: 1106		
Total Depth of Well: 11.20	Well Volume: 1.32	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-10 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1100	0	6.61	22.9	734	cloudy	slight odor
1102	2	6.72	23.1	709	"	"
1103	3	6.85	23.0	655	"	"
1105	4	6.87	23.2	656	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1107	Dissolved O_2:	C
ICM	Hydac Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 5.30	Time: 1039	Well I.D.: MW-11	
Post-Purge DTW: 11.10	Time: 1130		
Total Depth of Well: 11.80	Well Volume: 1.04	Casing Diameter: 0.5" / 2" / 4" / 6"	
Sampler(s): KI/CT		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sample I.D.: MW-11 /09-17-05		Sample Containers: 3 VOAS & 1 AMBER LITER	
		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1120	0	6.85	24.8	907	clear	odor
1122	1	6.86	24.2	911	"	"
1125	2	6.91	23.8	933	cloudy	"
	3.25					
	- Draw down to (11.10) waiting for					
	recharge to sample.					
	- DTW at (5.40) at sample time.					

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1503	Dissolved O_2:	C
ICM	Hydac Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 5.74	Time: 1043	Well I.D.: MW- 12	
Post-Purge DTW: 5.99	Time: 1110		
Total Depth of Well: 20.20	Well Volume: 7.31	Casing Diameter: 0.5" (0.01074) 2" (0.16) 4" (0.65) 6" (1.47)	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW- 12 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1102	0	6.34	21.7	628	Clear	no odor
1104	2.5	6.44	21.0	586	Cloudy	"
1106	5	6.47	21.4	593	Clear	"
1108	7	6.49	21.3	603	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1112	Dissolved O_2:	C
ICM Hydac Oakton		%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 6.21	Time: 1040	Well I.D.: MW- 13	
Post-Purge DTW: 6.93	Time: 1131		
Total Depth of Well: 19.70	Well Volume: 2.15	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): KL/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW- 13 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1122	0	9.26	20.5	615	Clear	Odor
1124	2.5	9.37	20.3	630	"	"
1127	4.5	9.39	20.2	639		"
1130	6.5	9.46	20.2	647		

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1134	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

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Monitoring Well Field Log

Well Data

Project Name: OAKLAND TRUCK STOP		Project No.:	Date: 9/17/05
Pre-Purge DTW: 6.09	Time: 1030	Well I.D.: MW-14	
Post-Purge DTW: 7.10	Time: 1223		
Total Depth of Well: 19.85	Well Volume: 2.20	Casing Diameter: 0.5" / 2" / 4" / 6"	
		Gal./Ft.: 0.01074 / 0.16 / 0.65 / 1.47	
Sampler(s): (KL)/CT		Sample Containers: 3 VOAS & 1 AMBER LITER	
Sample I.D.: MW-14 /09-17-05		Analysis: TPH-g/D/BTEX/5 FUEL OXY'S/ EDB/1,2 DCA	

Stabilization Data

Time	Volume (gallons)	pH	Temp.	Cond µS/cm X 100	Color/ Turbidity	Notes
1215	0	6.79	24.9	58.8	clear	odor
1217	2.5	6.81	23.7	565	fair/cloudy	"
1220	5.0	6.86	22.3	567	"	"
1222	7.0	6.84	22.4	559	"	"

Purge Method:	DISPOSABLE BAILER		
Sample Method:	DISPOSABLE BAILER	Well Integrity:	
Sample Time:	1224	Dissolved O_2:	C
ICM	Hydac / Oakton	%	mg/L

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT214-0509162
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 09/17/05 @ 13:20 p.m.
Matrix: Water
Date Received: 09/20/05 @ 09:00 am
Date Analyzed 09/20/05 – 09/21/05

Laboratory ID:	0509-162-1	0509-162-2	0509-162-3	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	MW1	MW3N	MW4			
Dilution	1	1	10			
TPH - Gasoline	100	1900	3200	EPA 8015M	ug/L	50
TPH – Diesel	ND	ND	ND<0.05	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1	1	1-100			
Methyl-tert-butyl-ether(MtBE)	83	1100	370	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	770	180000	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	ND<1	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	ND<0.5	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	ND	ND	ND<0.5	SW846 8260B	ug/L	0.5
Toluene	ND	ND	ND<0.5	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	ND<0.5	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND<0.6	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	ND<0.6	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	103	105	109	70-130
1,2 Dichloroethaned4	99	106	112	70-130
Toluene-d8	112	109	115	70-130
Bromofluorobenzene	117	116	120	70-130

CTEL Project No: CT214-0509162
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 09/17/05 @ 14:09 p.m.
Date Received: 09/20/05 @ 09:00 am
Date Analyzed 09/20/05 – 09/21/05
Matrix: Water

Laboratory ID:	0509-162-4	0509-162-5	0509-162-6	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	MW5	MW6	MW7			
Dilution	1	1	10-500			
TPH - Gasoline	2500	590	100000	EPA 8015M	ug/L	50
TPH – Diesel	1600	630	38000	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1-10	1-10	1-500			
Methyl-tert-butyl-ether(MtBE)	16	28	28000	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	12000	5300	7400	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND<1	ND<1	ND<1	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND<0.5	ND<0.5	SW846 8260B	ug/L	0.5
Benzene	42	ND<0.5	31000	SW846 8260B	ug/L	0.5
Toluene	ND<0.5	ND<0.5	16000	SW846 8260B	ug/L	0.5
Ethylbenzene	ND<0.5	ND<0.5	8500	SW846 8260B	ug/L	0.5
m,p-Xylene	10	ND<0.6	20000	SW846 8260B	ug/L	0.6
o-Xylene	ND<0.6	ND<0.6	11000	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	104	100	109	70-130
1,2 Dichloroethaned4	96	98	96	70-130
Toluene-d8	105	107	108	70-130
Bromofluorobenzene	110	108	110	70-130

CTEL Project No: CT214-0509162
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 09/17/05 @ 15:46 p.m.
Date Received: 09/20/05 @ 09:00 am
Date Analyzed 09/20/05 – 09/21/05
Matrix: Water

Laboratory ID:	0509-162-7	0509-162-8	0509-162-9	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	MW8	MW9	MW10			
Dilution	1-50	1	1			
TPH - Gasoline	80000	100	ND	EPA 8015M	ug/L	50
TPH – Diesel	89000	ND	ND	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1-100	1	1			
Methyl-tert-butyl-ether(MtBE)	1400	85	ND	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	88000	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND<1	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND<1	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	17	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND<0.5	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND<0.5	ND	ND	SW846 8260B	ug/L	0.5
Benzene	23	ND	ND	SW846 8260B	ug/L	0.5
Toluene	2.7	ND	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND<0.5	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	21	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	4.0	ND	ND	SW846 8260B	ug/L	0.6
THM's			ND	SW846 8260B	ug/L	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	110	110	104	70-130
1,2 Dichloroethaned4	108	112	108	70-130
Toluene-d8	119	107	121	70-130
Bromofluorobenzene	114	116	112	70-130

CTEL Project No: CT214-0509162
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215

Phone:(209) 467-1006
Fax: (209) 467-1118

Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 09/17/05 @ 15:03 p.m.
Date Received: 09/20/05 @ 09:00 am
Date Analyzed 09/20/05 – 09/21/05

Matrix: Water

Laboratory ID:	0509-162-10	0509-162-11	0509-162-12	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	MW11	MW12	MW13			
Dilution	1	1	1			
TPH - Gasoline	ND	ND	ND	EPA 8015M	ug/L	50
TPH – Diesel	ND	ND	ND	EPA 8015M	ug/L	50
VOC, 8260B						
Dilution	1	1	1			
Methyl-tert-butyl-ether(MtBE)	ND	ND	40	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	ND	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	ND	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	ND	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	ND	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	ND	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	ND	ND	SW846 8260B	ug/L	0.5
Benzene	ND	ND	ND	SW846 8260B	ug/L	0.5
Toluene	ND	ND	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	ND	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	ND	ND	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY			Control Limit
Dibromofluoromethane	119	109	111	70-130
1,2 Dichloroethaned4	115	113	112	70-130
Toluene-d8	114	117	97	70-130
Bromofluorobenzene	112	112	106	70-130

CTEL Project No: CT214-0509162
Client Name: Advanced Geo Environmental, Inc.
837 Shaw Road
Stockton, CA 95215
Phone:(209) 467-1006
Fax: (209) 467-1118
Attention: Ms. Jo'l Chapman

Project ID: Global ID: T0607700
Project Name: Oakland Truck Stop

Date Sampled: 09/17/05 @ 12:24 p.m.
Date Received: 09/20/05 @ 09:00 am
Date Analyzed 09/20/05 – 09/21/05

Matrix: Water

		Method	Units:	Detection Limit
Laboratory ID:	0509-162-13			
Client Sample ID:	MW14			
Dilution	1			
TPH - Gasoline	ND	EPA 8015M	ug/L	50
TPH – Diesel	ND	EPA 8015M	ug/L	50
VOC, 8260B				
Dilution	1			
Methyl-tert-butyl-ether(MtBE)	12	SW846 8260B	ug/L	1
t-Butyl Alcohol (TBA)	ND	SW846 8260B	ug/L	10
Diisopropyl Ether (DIPE)	ND	SW846 8260B	ug/L	1
Ethyl-t-butyl ether (ETBE)	ND	SW846 8260B	ug/L	1
t-Amyl Methyl Ether (TAME)	ND	SW846 8260B	ug/L	1
1,2-Dichloroethane	ND	SW846 8260B	ug/L	0.5
1,2-Dibromoethane(EDB)	ND	SW846 8260B	ug/L	0.5
Benzene	ND	SW846 8260B	ug/L	0.5
Toluene	ND	SW846 8260B	ug/L	0.5
Ethylbenzene	ND	SW846 8260B	ug/L	0.5
m,p-Xylene	ND	SW846 8260B	ug/L	0.6
o-Xylene	ND	SW846 8260B	ug/L	0.6

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	104	70-130
1,2 Dichloroethaned4	97	70-130
Toluene-d8	108	70-130
Bromofluorobenzene	106	70-130

Greg Tejirian
Laboratory Director

*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8015M

Matrix: Water

Date Analyzed: 9/21/05

Date Extracted: 9/21/05

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	LCS	LCSD		LCS	LCSD	Rec.	RPD	
TPH - Gasoline	1044	1036	1000	104	104	70-130	20	0
TPH - Diesel	2100	2080	2000	105	104	70-130	20	1

Perimeters	Method Blank	Units	Det. Limit
TPH - Gasoline	ND	ug/L	50
TPH - Diesel	ND	ug/L	50

LCS: Laboratory Control Standard
LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

QA/QC Report

Method: 8260B

Matrix: Water

Date Analyzed: 9/21/05

Date Extracted: 9/21/05

Perimeters	Conc. ug/L		Spike Added	Recovery %		Control Limits		RPD
	LCS	LCSD		LCS	LCSD	Rec.	RPD	
1,1-Dichloroethene	45	44	50	90	88	70-130	20	2
Benzene	48	49	50	96	98	70-130	20	2
Trichloroethene	43	47	50	86	94	70-130	20	9
Toluene	46	48	50	92	96	70-130	20	4
Chlorobenzene	47	48	50	94	96	70-130	20	2
m,p-Xylenes	94	106	100	94	106	70-130	20	13

LCS: Laboratory Control Standard
LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

Perimeters	Method Blank	Units	Det. Limit
1,1-Dichloroethene	ND	ug/L	1
Benzene	ND	ug/L	0.5
Trichloroethene	ND	ug/L	0.5
Toluene	ND	ug/L	0.5
Chlorobenzene	ND	ug/L	0.5
m,p-Xylenes	ND	ug/L	0.6
MTBE	ND	ug/L	1
TBA	ND	ug/L	10
DIPE	ND	ug/L	1
ETBE	ND	ug/L	1
TAME	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	0.5
EDB	ND	ug/L	0.5
Ethylbenzene	ND	ug/L	0.5
o-Xylene	ND	ug/L	0.6
TCE	ND	ug/L	0.5
PCE	ND	ug/L	0.5

CHAIN OF CUSTODY RECORD

09-162 Date 9/17/05 Page 1 of 2

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

Client Reed Rinehart

Project Manager Jill Chapman

Phone Number (209) 467-1006

Samplers: (Signature)

Project Name Oakland truck stop

Invoice: AGE ☒ Client ☐

Tests Required

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Sample Type: Water Grab.	Sample Type: Air	Solid	No. of Conts.	TPH-G	BTEX	5 Fuel oxys	1,2 DCA & EDB	Notes
MW-1/091705	MW-1	9/17/05	1320		X			4	X	X	X	X	
MW-3N	MW-3N		1456		X			4	X	X	X	X	
MW-4	MW-4		1526		X			4	X	X	X	X	
MW-5	MW-5		1409		X			4	X	X	X	X	
MW-6	MW-6		1356		X			4	X	X	X	X	
MW-7	MW-7		1532		X			4	X	X	X	X	
MW-8	MW-8		1546		X			4	X	X	X	X	

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 9/19/05 1613

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

STAT

Dispatched by: (Signature) — Received for Laboratory by: — Date/Time 9/20/05 0900

Method of Shipment: Cal overnight

Laboratory Name Cal tech

Special Instructions: "NEED EDF"

I hereby authorize the performance of the above indicated work.

CHAIN OF CUSTODY RECORD

09-162 Date 9/17/05 Page 1 of 2

Advanced
GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

Client Reed Rinehart

Project Manager Jill Chapman

Phone Number (209) 467-1006

Samplers: (Signature)

Project Name Oakland truck stop

Invoice: AGE ☒ Client ☐

Tests Required

Sample Number	Location Description	Date	Time	Sample Type: Water Comp.	Sample Type: Water Grab.	Sample Type: Air	Solid	No. of Conts.	TPH-G	BTEX	5 Fuel oxys	1,2 DCA & EDB	Notes
MW-1/091705	MW-1	9/17/05	1320		X			4	X	X	X	X	
MW-3N	MW-3N		1456		X			4	X	X	X	X	
MW-4	MW-4		1526		X			4	X	X	X	X	
MW-5	MW-5		1409		X			4	X	X	X	X	
MW-6	MW-6		1356		X			4	X	X	X	X	
MW-7	MW-7		1532		X			4	X	X	X	X	
MW-8	MW-8		1546		X			4	X	X	X	X	

Relinquished by: (Signature) — Received by: (Signature) — Date/Time 9/19/05 1613

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

STAT

Dispatched by: (Signature) — Received for Laboratory by: — Date/Time 9/20/05 0900

Method of Shipment: Cal overnight

Laboratory Name Cal tech

Special Instructions: "NEED EDF"

I hereby authorize the performance of the above indicated work.

Advanced GeoEnvironmental, Inc.
837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

09-162

CHAIN OF CUSTODY RECORD

Date 9/16/05 Page 2 of 2

Client: Reed Reinhart

Project Manager: Jo'L Chapman

Phone Number: (209) 467-1006

Samplers: (Signature) [signature]

Project Name: Oakland Truck

Tests Required: TPH-G.P; BTEX; 5 Fuel oxys; 1,2 DCA + EDB; Trihalomethanes

Invoice: AGE ☒ Client ☐

Sample Number	Location Description	Date	Time	Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-G.P	BTEX	5 Fuel oxys	1,2 DCA + EDB	Trihalomethanes				Notes
MW9-091705	MW9	9/17/05	1514		X			4	X	X	X	X					
MW10	MW10	↓	1107		X			4	X	X	X	X	X				
MW11	MW11	↓	1503		X			4	X	X	X	X					
MW12	MW12	↓	1112		X			4	X	X	X	X					
MW13	MW13	↓	1134		X			4	X	X	X	X					
MW14	MW14	↓	1224		X			4	X	X	X	X					

Relinquished by: (Signature) [signature]	Received by: (Signature)	Date/Time 091905/1030
Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Received by Mobile Laboratory for field analysis: (Signature)	Date/Time
Dispatched by: (Signature)	Date/Time	Received for Laboratory by: Robert Lee — Date/Time 9/20/05 0900

STAT

Method of Shipment: Cal overnight

Laboratory Name: Cal Tech

Special Instructions: "Need EDF"

I hereby authorize the performance of the above indicated work. [signature]

Advanced GeoEnvironmental, Inc.

837 Shaw Road - Stockton, California - 95215 - (209) 467-1006 - Fax (209) 467-1118

09-162

CHAIN OF CUSTODY RECORD

Date 9/16/05 Page 2 of 2

Client: Reed Reinhart

Project Manager: Jo'L Chapman

Phone Number: (209) 467-1006

Samplers: (Signature) [signature]

Project Name: Oakland Truck

Tests Required: TPH-G,P; BTEX; 5 FUEL OXYS; 1,2 DCA + EDB; Trihalomethanes

Invoice: AGE [X] Client [ ]

Sample Number	Location Description	Date	Time	Water Comp.	Water Grab.	Air	Solid	No. of Conts.	TPH-G,P	BTEX	5 FUEL OXYS	1,2 DCA + EDB	Trihalomethanes			Notes
MW9/091705	MW9	9/17/05	1514		X			4	X	X	X	X				
MW10/	MW10	↓	1107		X			4	X	X	X	X	X			
MW11/	MW11	↓	1503		X			4	X	X	X	X				
MW12/	MW12	↓	1112		X			4	X	X	X	X				
MW13/	MW13	↓	1134		X			4	X	X	X	X				
MW14/	MW14	↓	1224		X			4	X	X	X	X				

Relinquished by: (Signature) [signature] — Received by: (Signature) — Date/Time 091905/1030

Relinquished by: (Signature) — Received by: (Signature) — Date/Time

Relinquished by: (Signature) — Received by Mobile Laboratory for field analysis: (Signature) — Date/Time

STAT

Dispatched by: (Signature) — Date/Time — Received for Laboratory by: Robert Lee [signature] — Date/Time 9/20/05 0900

Method of Shipment: Cal overnight

Laboratory Name: Cal-Tech

Special Instructions: "Need EDF"

I hereby authorize the performance of the above indicated work. [signature]