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August 31, 2006

GROUNDWATER MONITORING REPORT 3rd Quarter, 2006

796 66th Avenue Oakland, California 94621

AEI Project No. 110566 ACHCSA Case No. RO0002449

Prepared For

Cruise America, Inc.
11 West Hampton Avenue
Mesa, AZ 85210

Prepared By

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August 31, 2006

Mr. Cory Kauffman Cruise America, Inc. 11 West Hampton Avenue Mesa, AZ 85210

Subject: Quarterly Groundwater Monitoring Report

3rd Quarter, 2006 796 66th Avenue Oakland, California AEI Project No. 110566

ACHCSA Case No. RO0002449

Dear Mr. Kauffman:

AEI Consultants (AEI) has prepared this report on behalf of Cruise America, Inc. to document to groundwater monitoring activities performed at the above referenced site (Figure 1: Site Location Map). The mitigation and monitoring has been required by the Alameda County Health Care Services Agency (ACHCSA) to document groundwater quality associated with the release of gasoline fuel from the former underground storage tank (UST) located on the property. This report documents the monitoring and sampling event conducted during the 3rd Quarter 2006 on July 11, 2006.

I Background

The site is currently occupied by Cruise America, a recreational vehicle (RV) rental facility. The property is approximately five acres in size. Currently, two buildings exist on the site, surrounded by paved vehicle storage areas. The buildings consist of an office building located on the eastern side of the property and a service building located centrally on the property. Cruise America acquired the property from McGuire Huster in August 1988.

In July 2001, AEI performed a Phase II investigation on the site that included advancing six (6) soil borings (SB-1 through SB-6). The investigation was performed to assess whether the soil or groundwater beneath the site was impacted by two former UST locations on the property (Figure 2). Although low concentrations of Total Petroleum Hydrocarbons as gasoline (TPH-g) and diesel (TPH-d) were reported in the groundwater beneath the site, high levels of Methyl tertiary-Butyl Ether (MTBE) were detected in boring SB-1.

In September of 2001, AEI advanced five (5) additional soil borings (SB-7 through SB-11) in order to determine the source of the high levels of MTBE found in SB-1. Samples collected from SB-7 and SB-8 did not contain MTBE above laboratory reporting limits. MTBE

concentrations ranged from 630 micrograms per liter (μ g/L) in SB-9 to 13,000 μ g/L in SB-10. These data indicated a leak in the remaining 10,000-gallon gasoline UST on the southern portion of the property as the most likely source of the MTBE.

AEI removed the 10,000-gallon gasoline UST in November of 2001. Concentrations of TPH-g in four of the five soil samples ranged from 4.1 milligrams per kilogram (mg/kg) to 280 mg/kg. Concentrations of MTBE and Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) were also detected in the five soil samples. The highest concentrations of MTBE and Benzene detected in the soil during the tank removal were 53 mg/kg and 13 mg/kg, respectively, detected along the southern and eastern sidewalls of the excavation at approximately 6.5 feet below ground surface (bgs). Elevated concentrations of TPH-g and MTBE were present in the groundwater sample at concentrations of 44,000 µg/L and 42,000 µg/L, respectively.

Following removal of the tank, the ACHCSA requested further investigation of the release from the 10,000 gallon UST. On September 6, 2002, six (6) soil borings (SB-12 through SB-17) were advanced. The data from these soil borings was used to determine the placement of five (5) groundwater monitoring wells, which were installed on September 19, 2002. These five wells have been monitored on a quarterly basis since installation. The locations of these borings and wells are shown on Figures 2 and 3.

Based on the findings of the investigation and monitoring activities, the ACHCSA required that corrective action be undertaken. AEI prepared and submitted an *Interim Corrective Action Plan*, dated April 5, 2004, outlining an evaluation and scope of work to implement a treatment program for the release. A sparging system was installed around the release area in July 2004, major features of which are shown on Figure 4. Implementation of the plan was documented in the *Interim Corrective Action Progress Report*, February 11, 2005, to which the reader is referred for details.

II Summary of Activities

AEI measured depth to groundwater in five (5) wells (MW-1 to MW-5) on July 11, 2006. Wells were first opened and water levels allowed to equilibrate with atmospheric pressure. The depth to water from the top of the well casings was measured prior to sampling with an electric water level indicator. The wells were then purged of at least three well volumes using a battery powered submersible pump.

Temperature, pH, specific conductivity, and dissolved oxygen were measured and the turbidity was visually noted during the purging of the wells. Once the wells were allowed to recharge to a minimum of 90% of their original water volume, a water sample was collected. Groundwater samples were collected from each well using clean, disposable bailers.

Groundwater samples were collected from each well into three 40-milliliter (ml) volatile organic analysis (VOA) vials. The VOAs were capped so that neither head space nor air bubbles were

visible within the sample containers. Samples were labeled with unique identifiers including time and date sampled, stored in a cooler over water ice, and placed under chain of custody. The samples were transported under chain of custody protocol to McCampbell Analytical, Inc. of Bay Point, California (Department of Health Services Certification #1644).

The five (5) groundwater samples were analyzed for TPH-g by EPA Method 8015Cm, BTEX and MTBE by EPA Method 8021B, and MTBE and tertiary-Butyl Alcohol (TBA) by EPA Method 8260B.

III Field Results

No sheen or free product was encountered during monitoring activities. Groundwater levels for the current monitoring episode ranged from 3.80 to 6.67 feet above mean sea level (amsl). These groundwater elevations were an average of 1.04 feet lower than the previous episode, although it should be noted that the groundwater elevation for well MW-3 increased by 0.49 feet. The direction of the groundwater flow at the time of measurement was towards the east-southeast with a hydraulic gradient of approximately 0.03 ft/ft. This flow direction and gradient observed during this episode is generally consistent with previous monitoring events.

Groundwater elevation data is summarized in Tables 1 and 2. The groundwater elevation contours and the groundwater flow direction are shown in Figure 5. Refer to Appendix A for the Groundwater Monitoring Well Field Sampling Forms.

IV Groundwater Quality

Overall, TPH-g and BTEX concentrations remained low to non-detect. TPH-g concentrations TPH-g concentrations decreased in wells MW-1 and MW-2 from 80 μ g/L to non-detect levels and 50 μ g/L to non-detect levels, respectively. Benzene continues to not exceed laboratory detection limits since the first quarter of 2005. Toluene concentrations decreased in all of the wells, ranging from 2.8 μ g/L to non-detect. Ethylbenzene concentrations decreased slightly in wells MW-2 and MW-3 from 1.5 μ g/L to non-detect levels and 0.78 μ g/L to non-detect levels, respectively. Total xylene concentrations decreased slightly in wells MW-2, MW-3 and MW-4 from 6.1 μ g/L to non-detect levels, 3.3 μ g/L to 1.1 μ g/L, and 1.1 μ g/L to non-detect levels, respectively. TBA concentrations increased in wells MW-1 and MW-5 from 160 μ g/L to 240 μ g/L and 806 μ g/L to 1,200 μ g/L, respectively. The TBA concentration in MW-4 remained constant, 120 μ g/L. Using EPA Method 8260, MTBE concentrations slightly increased in all of the wells, excluding MW-1, to concentrations ranging from 0.67 μ g/L (MW-3) to 24 μ g/L (MW-1). No other target analytes were detected exceeding laboratory detection limits in the groundwater samples analyzed.

A summary of groundwater sample analytical data is presented in Table 1 and on Figure 6. Laboratory analytical and chain of custody documentation are included in Appendix B.

V Sparging Operations

A manufacturer-based upgrade was performed on the sparging control system in late April 2006. Programming was also adjusted in late April 2006 to focus on residual hotspot areas around wells MW-1, MW-4, and MW-5. The system had since been running with no power outages at approximately 100% of the system's programmed up-time since the upgrade, which is set at 80% of each day. However, the system went down during the early part of the week of July 24, 2006. An AEI engineer inspected the system shortly after and found the problem to be a shorted main switch, likely caused by extreme hot weather.

VI Summary

Overall, TPH-g and BTEX concentrations have been reduced to very low to non-detect levels in all wells. MTBE and TBA concentrations have been reduced appreciably as well. Based on the overall reduction in contaminant concentrations, a site summary report is being prepared in order for case closure evaluation and will be submitted shortly after the delivery of this 3rd Quarter 2006 report. Depending on the results of the 4th quarter sampling, which will be reviewed for an indication of rebound, the system will be restarted if needed.

The next quarterly monitoring episode is tentatively scheduled to occur in October 2006.

VII Report Limitation

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact Mr. McIntyre at (925) 283-6000, extension 104.

Sincerely,

AEI Consultants

Adrian Michael Angel Project Geologist eter McIntyre, P.G.

Semior Project Manager

Figures

Figure 1: Site Location Map

Figure 2: Property Map

Figure 3: Site Plan

Figure 4: Sparge Well Locations

Figure 5: Water Table Contours (7/11/06)

Figure 6: Groundwater Sample Analytical Data (7/11/06)

Tables

Table 1: Groundwater Sample Analytical Data

Table 2: Water Table Data Summary

Attachments

Appendix A: Monitoring Well Field Sampling Forms

Appendix B: Laboratory Analytical and Chain of Custody Documentation

Distribution:

Cruise America, Inc.

11 West Hampton Avenue

Mesa, AZ 85210

Mr. Don Hwang

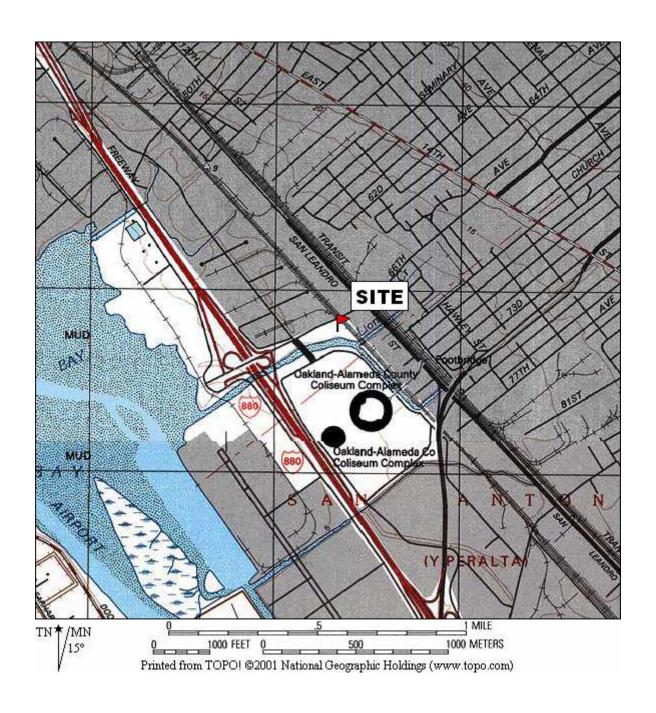
ACHCSA

1131 Harbor Bay Parkway, Suite 250

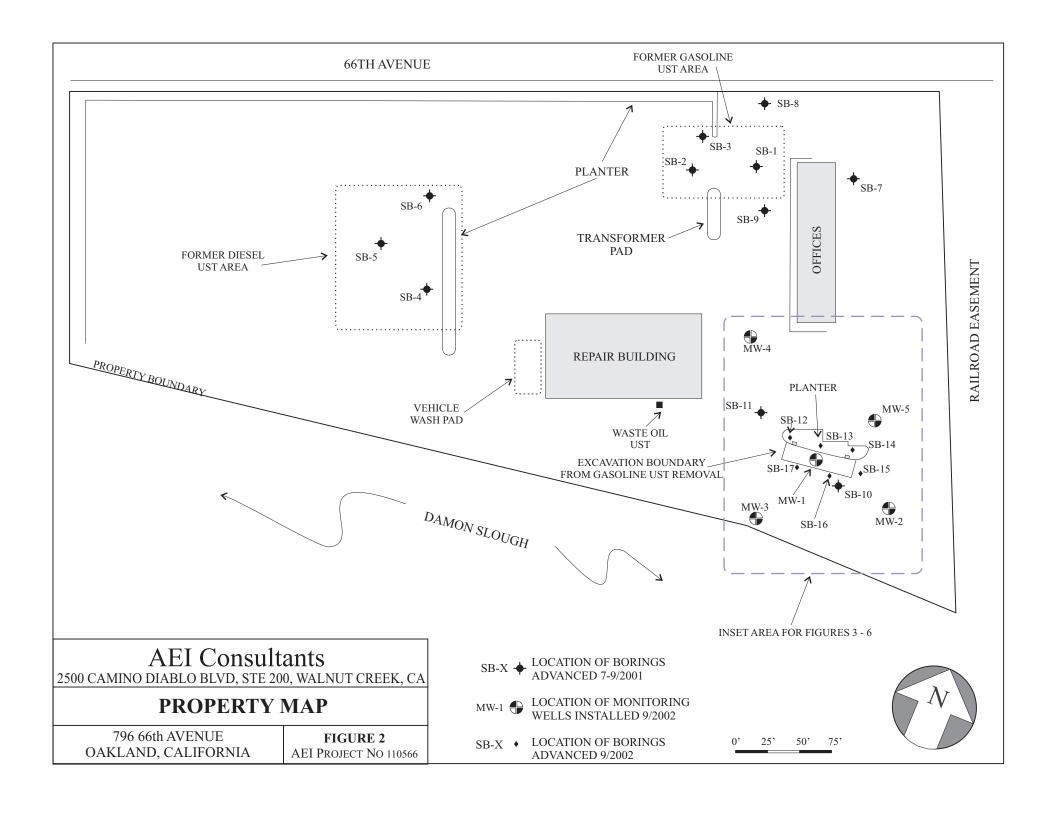
Alameda, CA 94501

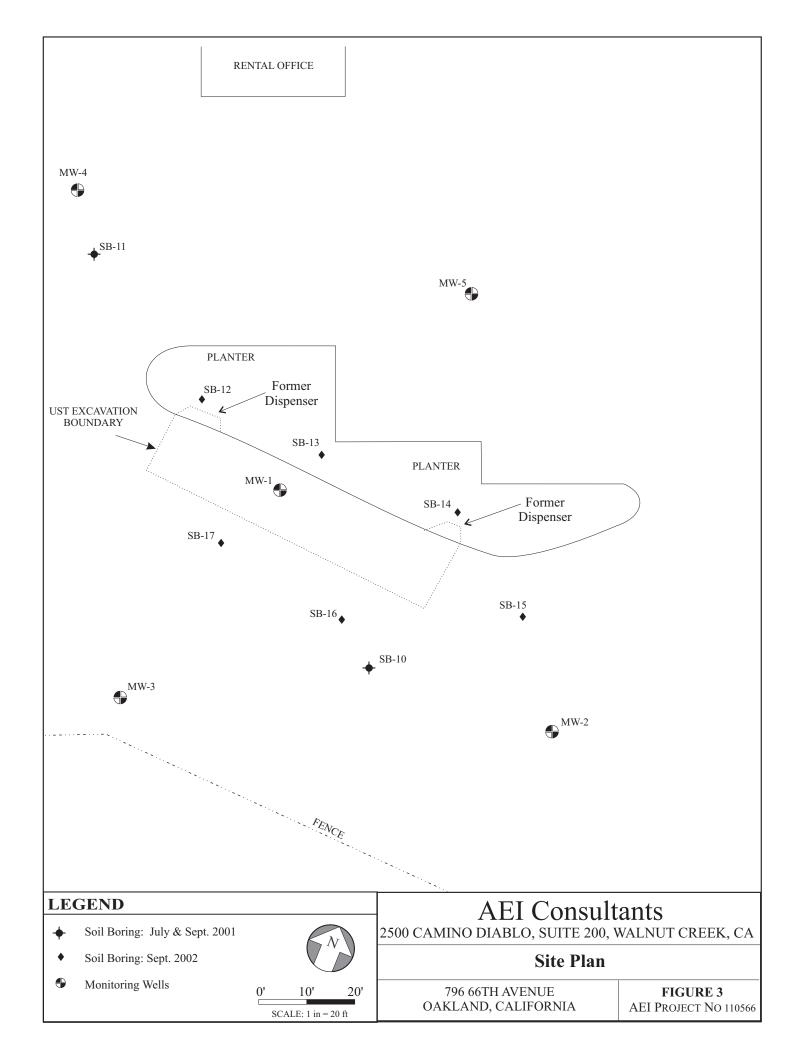
FIGURES

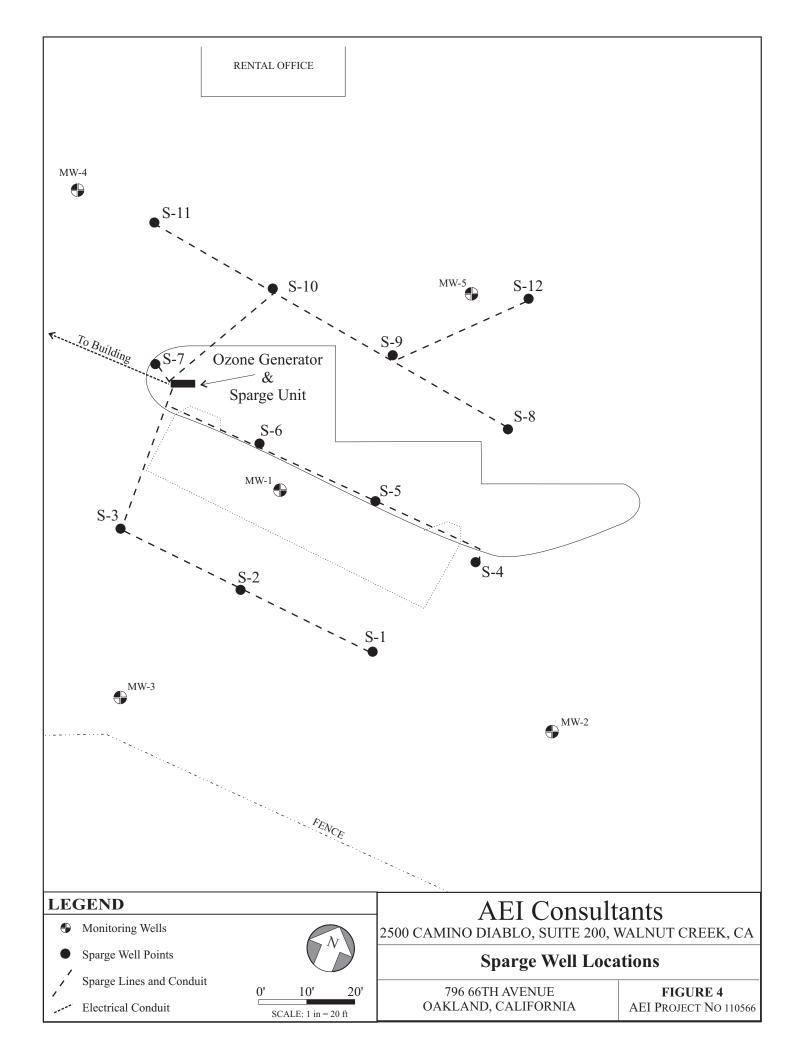


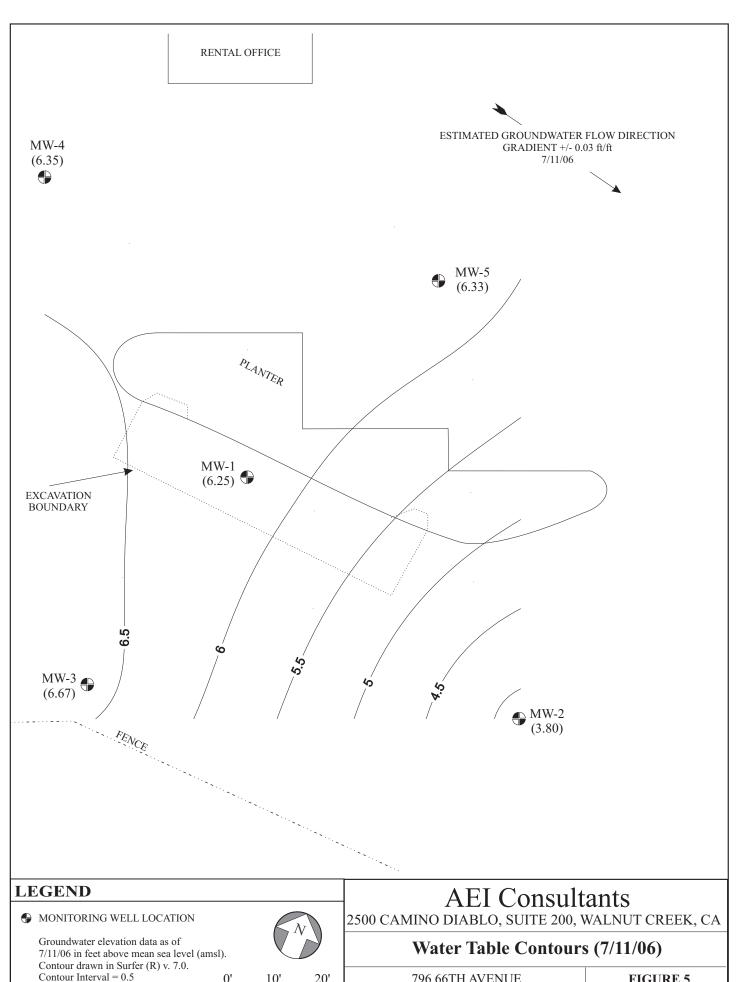


AEI CONSULTANTS SITE LOCATION MAP 796 66th AVENUE OAKLAND, CALIFORNIA FIGURE 1 PROJECT NO. 110566







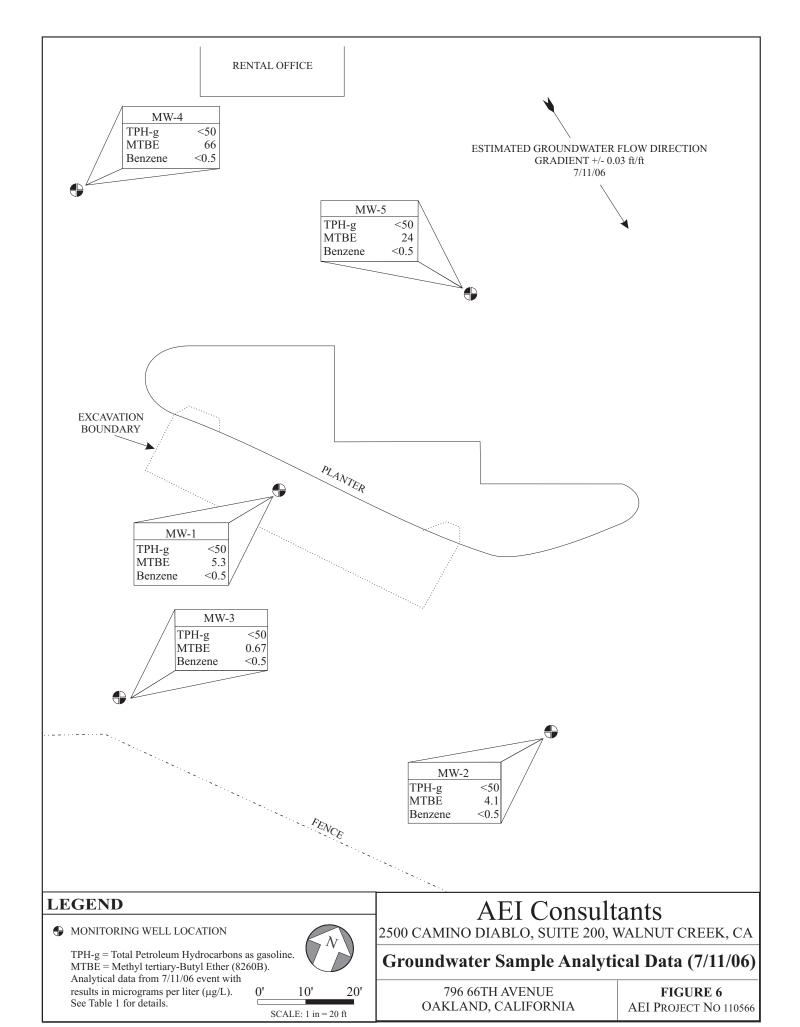


796 66TH AVENUE OAKLAND, CALIFORNIA

SCALE: 1 in = 20 ft

See Table 1 for details.

FIGURE 5AEI PROJECT NO 110566



TABLES



Table 1 Groundwater Monitoring Data

W II ID	D.	Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	M	ГВЕ	TBA
Well ID (screen nterval in ft bgs)	Date Sampled	Elevation	Water	Elevation	(8015Cm)		(EPA me	thod 8021B)	-	(8021B)	(8260B)	(8260B)
mtervai in it bgs)	Sampieu	(ft amsl)	(ft from TOC)	(ft amsl)	μg/L	μg/L	μg/L	μ g/L	$\mu g/L$	μg/L	$\mu g/L$	μg/L
MW-1	9/30/2002	10.88	5.41	5.47	1,800	50	15	16	18	19,000	13,000	<5,000
(4-14)	1/2/2003	10.88	4.77	6.11	660	24	6.4	<2.5	<2.5	7,800	8,900	<5,000
(4-14)	3/31/2003	10.88	4.95	5.93	660	11	6.4	<5.0	<5.0	16,000	20,000	
	6/30/2003	10.88	4.54	6.34	830	< 5.0	6.8	<5.0	<5.0	16,000	17,000	_
	10/1/2003	10.88	4.66	6.22	720	<5.0	<5.0	<5.0	<5.0	14,000	13,000	_
	1/5/2004	10.88	4.07	6.81	<300	7.8	2.9	<3.0	<3.0	-	8,700	_
	4/5/2004	10.88	4.33	6.55	100	2.8	3.0	<1.0	<1.0	2,300	3,000	< 500
	7/7/2004	10.88	4.97	5.91	190	<1.7	2.0	<1.7	<1.7	4,900	5,500	<1,000
	7/19/2004	10.88	5.12	5.76	340	<2.5	4.0	<2.5	<2.5	8,000	9,200	<1,700
	8/6/2004	10.88	5.13	5.75	280	< 0.5	5.6	<0.5	< 0.5	7,200	5,900	<1,000
	8/20/2004	10.88	5.31	5.57	<250	<2.5	<2.5	<2.5	<2.5	4,600	-	-
	9/3/2004	10.88	5.22	5.66	<250	<2.5	<2.5	<2.5	<2.5	5,700	4,700	<1,000
	10/13/2004	10.88	5.23	5.65	170	<0.5	4.8	<0.5	< 0.5	3,700	4,400	-
	1/11/2005	10.88	4.69	6.19	110	8.8	4.2	<0.5	< 0.5	880	990	910
	4/13/2005	10.88	5.02	5.86	230	< 0.5	9.0	<0.5	< 0.5	140	100	2,600
	7/6/2005	10.88	5.06	5.82	200	< 0.5	8.3	<0.5	< 0.5	<75	50	1,600
	10/6/2005	10.88	4.92	5.96	110	< 0.5	6.8	< 0.5	< 0.5	<20	8.4	640
	1/9/2006	10.88	3.90	6.98	< 50	< 0.5	1.8	< 0.5	< 0.5	260	280	560
	4/10/2006	10.88	3.97	6.91	80	< 0.5	3.1	< 0.5	< 0.5	100	70	160
	7/11/2006	10.88	4.63	6.25	<50	< 0.5	2.8	< 0.5	<0.5	<5.0	5.3	240
MW-2	9/30/2002	10.77	8.00	2.77	<50	<0.5	< 0.5	<0.5	< 0.5	<5.0	0.84	<5.0
(4-14)	1/2/2003	10.77	5.91	4.86	<50	<0.5	< 0.5	<0.5	<0.5	19	20	-
(3/31/2003	10.77	5.15	5.62	<50	< 0.5	< 0.5	<0.5	< 0.5	< 5.0	3.9	_
	6/30/2003	10.77	5.91	4.86	<50	< 0.5	< 0.5	<0.5	< 0.5	7.0	9.6	_
	10/1/2003	10.77	6.69	4.08	<50	< 0.5	< 0.5	<0.5	< 0.5	7.7	6.7	_
	1/5/2004	10.77	6.18	4.59	71	4.7	13	2.7	12	-	7.8	-
	4/5/2004	10.77	7.22	3.55	210	14	39	6.6	27	16	13	< 5.0
	7/7/2004	10.77	6.83	3.94	<50	< 0.5	< 0.5	<0.5	<0.5	5.7	5.6	<5.0
	10/13/2004	10.77	7.18	3.59	<50	< 0.5	< 0.5	<0.5	< 0.5	<5.0	2.6	-
	1/11/2005	10.77	7.27	3.50	74	2.6	11	2.1	10	<5.0	4.4	< 5.0
	4/13/2005	10.77	6.66	4.11	<50	< 0.5	< 0.5	<0.5	< 0.5	<5.0	<0.5	<5.0

Table 1 Groundwater Monitoring Data

W II ID /	D /	Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	M	ГВЕ	TBA
Well ID (screen	Date Sampled	Elevation	Water	Elevation	(8015Cm)		(EPA me	thod 8021B)		(8021B)	(8260B)	(8260B)
interval in ft bgs)	Sampled	(ft amsl)	(ft from TOC)	(ft amsl)	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
MW-2 cont.	7/6/2005	10.77	6.83	3.94	< 50	< 0.5	0.77	< 0.5	< 0.5	< 5.0	2.9	< 5.0
	10/6/2005	10.77	7.05	3.72	< 50	< 0.5	0.81	< 0.5	0.54	< 5.0	2.1	< 5.0
	1/9/2006	10.77	6.18	4.59	< 50	< 0.5	< 0.5	< 0.5	< 0.5	6.1	7.6	< 5.0
	4/10/2006	10.77	6.27	4.50	50	< 0.5	8.0	1.5	6.1	< 5.0	1.1	< 5.0
	7/11/2006	10.77	6.97	3.80	<50	<0.5	0.72	< 0.5	<0.5	<5.0	4.1	<5.0
MW-3	9/30/2002	10.20	5.21	4.99	<50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 5.0
(4-14)	1/2/2003	10.20	5.31	4.89	< 50	0.89	0.50	< 0.5	0.72	15	14	-
, ,	3/31/2003	10.20	4.58	5.62	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	0.62	-
	6/30/2003	10.20	3.83	6.37	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	1.6	-
	10/1/2003	10.20	4.02	6.18	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	-
	1/5/2004	10.20	6.18	4.02	71	4.7	13	2.7	12	-	7.8	-
	4/5/2004	10.20	3.79	6.41	120	8.8	22	3.2	13	< 5.0	< 0.5	< 5.0
	7/7/2004	10.20	3.76	6.44	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	4.0	< 5.0
	10/13/2004	10.20	4.45	5.75	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	-
	1/11/2005	10.20	5.21	4.99	68	2.2	9.0	1.7	8.5	< 5.0	< 0.5	< 5.0
	4/13/2005	10.20	4.44	5.76	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 5.0
	7/6/2005	10.20	3.91	6.29	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 5.0
	10/6/2005	10.20	4.16	6.04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 5.0
	1/9/2006	10.20	4.44	5.76	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 5.0
	4/10/2006	10.20	4.02	6.18	< 50	< 0.5	4.0	0.78	3.3	< 5.0	< 0.5	< 5.0
	7/11/2006	10.20	3.53	6.67	<50	<0.5	0.51	< 0.5	1.1	<5.0	0.67	<5.0
MW-4	9/30/2002	11.07	5.50	5.57	<100	< 0.5	< 0.5	< 0.5	< 0.5	790	750	<100
(4-14)	1/2/2003	11.07	4.90	6.17	< 50	< 0.5	< 0.5	< 0.5	< 0.5	420	460	-
	3/31/2003	11.07	4.81	6.26	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1,500	1,400	-
	6/30/2003	11.07	4.61	6.46	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1,600	1,200	-
	10/1/2003	11.07	4.76	6.31	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1,800	1,400	-
	1/5/2004	11.07	4.32	6.75	< 50	3.0	6.7	1.4	6.1	-	1,200	-
	4/5/2004	11.07	4.43	6.64	< 50	0.79	2.0	< 0.5	2.2	800	840	<250
	7/7/2004	11.07	5.08	5.99	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1,400	2,100	<250
	7/19/2004	11.07	5.19	5.88	< 50	< 0.5	< 0.5	< 0.5	< 0.5	1,200	1,300	< 500

Table 1 Groundwater Monitoring Data

W.II ID /	Det	Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MT	ГВЕ	TBA
Well ID (screen interval in ft bgs)	Date Sampled	Elevation	Water	Elevation	(8015Cm)		(EPA me	thod 8021B)		(8021B)	(8260B)	(8260B)
mtervai iii it bgs)	Sampied	(ft amsl)	(ft from TOC)	(ft amsl)	μg/L	μg/L	μg/L	μg/L	$\mu g/L$	μg/L	μg/L	μg/L
MW-4 cont.	8/6/2004	11.07	5.20	5.87	< 50	0.76	< 0.5	< 0.5	< 0.5	1,300	1,200	< 500
	8/20/2004	11.07	5.37	5.70	< 50	< 0.5	< 0.5	< 0.5	< 0.5	460	-	-
	9/3/2004	11.07	5.35	5.72	< 50	< 0.5	< 0.5	< 0.5	< 0.5	440	370	< 50
	10/13/2004	11.07	5.35	5.72	< 50	< 0.5	< 0.5	< 0.5	< 0.5	330	360	-
	1/11/2005	11.07	4.99	6.08	< 50	1.0	2.1	< 0.5	1.8	450	430	<100
	4/13/2005	11.07	5.17	5.90	< 50	< 0.5	< 0.5	< 0.5	< 0.5	340	200	< 50
	7/6/2005	11.07	5.18	5.89	< 50	< 0.5	< 0.5	< 0.5	< 0.5	300	290	330
	10/6/2005	11.07	5.03	6.04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	380	350	430
	1/9/2006	11.07	4.11	6.96	< 50	< 0.5	< 0.5	< 0.5	< 0.5	140	150	200
	4/10/2006	11.07	4.13	6.94	< 50	< 0.5	1.0	< 0.5	1.1	52	39	120
	7/11/2006	11.07	4.72	6.35	< 50	<0.5	< 0.5	<0.5	< 0.5	56	66	120
MW-5	9/30/2002	11.18	5.62	5.56	<2,000	< 5.0	< 5.0	< 5.0	< 5.0	19,000	18000	<2,500
(4-14)	1/2/2003	11.18	5.12	6.06	< 50	< 0.5	< 0.5	< 0.5	< 0.5	7,000	7,000	-
	3/31/2003	11.18	4.93	6.25	< 500	< 5.0	< 5.0	< 5.0	< 5.0	14,000	12,000	-
	6/30/2003	11.18	4.75	6.43	< 500	< 5.0	< 5.0	< 5.0	< 5.0	13,000	15,000	-
	10/1/2003	11.18	4.88	6.30	< 500	< 5.0	< 5.0	< 5.0	< 5.0	12,000	11,000	-
	1/5/2004	11.18	4.19	6.99	<1,000	<10	<10	<10	<10	-	11,000	-
	4/5/2004	11.18	4.57	6.61	<250	<2.5	< 2.5	< 2.5	< 2.5	9,400	13,000	<2,500
	7/7/2004	11.18	5.19	5.99	< 500	< 5.0	< 5.0	< 5.0	< 5.0	15,000	19,000	<2,000
	7/19/2004	11.18	5.32	5.86	< 500	< 5.0	< 5.0	< 5.0	< 5.0	16,000	14,000	<2,500
	8/6/2004	11.18	5.33	5.85	110	< 0.5	< 0.5	< 0.5	< 0.5	12,000	11,000	<2,500
	8/20/2004	11.18	5.49	5.69	< 500	< 5.0	< 5.0	< 5.0	< 5.0	7,200	-	-
	9/3/2004	11.18	5.48	5.70	< 500	<2.5	< 2.5	<2.5	< 2.5	8,500	7,200	<1,700
	10/13/2004	11.18	5.49	5.69	<250	<2.5	< 2.5	<2.5	< 2.5	6,700	7,700	-
	1/11/2005	11.18	5.08	6.10	<100	1.5	3.3	<1.0	2.3	3,000	4,800	1,200
	4/13/2005	11.18	5.24	5.94	< 50	< 0.5	< 0.5	< 0.5	< 0.5	510	320	2,600
	7/6/2005	11.18	5.27	5.91	< 50	< 0.5	< 0.5	< 0.5	< 0.5	43	51	4,900
	10/6/2005	11.18	5.14	6.04	< 50	< 0.5	< 0.5	< 0.5	< 0.5	25	<25	1,900
	1/9/2006	11.18	4.23	6.95	< 50	< 0.5	< 0.5	< 0.5	< 0.5	70	84	2,000

Table 1 Groundwater Monitoring Data

Wall ID (same	Data	Well	Depth to	Water Table	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	МТ	BE	TBA
Well ID (screen interval in ft bgs)	Date Sampled	Elevation	Water	Elevation	(8015Cm)		(EPA me	thod 8021B)		(8021B)	(8260B)	(8260B)
interval in it bgs)		(ft amsl)	(ft from TOC)	(ft amsl)	μg/L	μg/L	μg/L	μg/L	$\mu g/L$	μg/L	μg/L	μg/L
] 		
MW-5 cont.	4/10/2006	11.18	4.24	6.94	< 50	< 0.5	0.59	< 0.5	< 0.5	13	11	860
	7/11/2006	11.18	4.85	6.33	< 50	<0.5	< 0.5	<0.5	<0.5	20	24	1,200
										į		į

Notes:

bgs = below ground surface

ft amsl = feet above mean sea level

TOC = Top of Casing; all well elevations and depths to water are measured from TOC

TPH-g = Total Petroleum Hydrocarbons as gasoline

 $\mu g/L = micrograms per liter$

MTBE = Methyl tertiary-Butyl Ether

TBA = tertiary-Butyl Alcohol

- = Sample not analyzed by this method

Table 2
Water Table Data Summary

Episode	Date Sampled	Average Water Table Elevation*	Change From Previous Episode	Gradient (direction)
1	9/30/2002	4.87	-	0.005 (S)
2	1/2/2003	5.62	0.75	0.022 (SSE)
3	3/31/2003	5.94	0.32	0.006 (SSE)
4	6/30/2003	6.09	0.16	0.020 (SE)
5	10/1/2003	5.82	-0.27	0.029-0.001 (SE)
6	1/5/2004	6.06	0.24	0.03 (SE)
7	4/5/2004	5.95	-0.11	0.02 (E)
8	7/7/2004	5.65	-0.30	0.02 (E)
9	7/19/2004	5.83	0.18	nc
10	8/6/2004	5.82	-0.01	nc
11	8/20/2004	5.65	-0.17	nc
12	9/3/2004	5.69	0.04	nc
13	10/13/2004	5.28	-0.41	0.02 (E)
14	1/11/2005	5.37	0.09	0.02 (E)
15	4/13/2005	5.51	0.14	0.02 (E)
16	7/6/2005	5.57	0.06	0.024 (E)
17	10/6/2005	5.56	-0.01	0.03 (E)
18	1/9/2006	6.25	0.69	0.04 (ESE)
19	4/10/2006	6.29	0.05	0.03 (ESE)
20	7/11/2006	5.88	-0.41	0.03 (ESE)

Notes:

^{*}Average Water Table Elevation value calculated in Microsoft Excel nc = not calculated

APPENDIX A MONITORING WELL FIELD SAMPLING FORMS



Monitoring Well Number: MW-1

	Project Name:	Cruise America	Date of Sampling: 7/11/2006	
Ī	Job Number:	110566	Name of Sampler: Adrian Nieto	
Ī	Project Address:	796 - 66th Avenue, Oakland, CA 94621		

MONITORIN	G WELL DA	TA					
Well Casing Diameter (2"/4"/6")		4					
Wellhead Condition	OK T						
Elevation of Top of Casing (feet above msl)		10.88					
Depth of Well		14.00					
Depth to Water (from top of casing)	4.63						
Water Elevation (feet above msl)	6.25						
Well Volumes Purged	3						
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		18.3					
Actual Volume Purged (gallons)	21.0						
Appearance of Purge Water	Initially grey, clears at 1.5 gallons						
Free Product Present?	No	Thickness (ft):	n/a				

	GROUNDWATER SAMPLES									
Number of Sampl	Number of Samples/Container Size									
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments			
	4	21.11	7.20	4249	3.13	-104.2				
	8	21.30	7.24	3972	2.76	-103.3				
	12	21.42	7.21	3889	2.00	-98.8				
	16	21.42	7.21	3895	1.83	-97.6				
	20	21.43	7.20	3910	1.74	-96.7				

Light petroleum odors noted.								

Monitoring Well Number: MW-2

Project Name:	Cruise America	Date of Sampling: 7/11/2006
Job Number:	110566	Name of Sampler: Adrian Nieto
Project Address:	796 - 66th Avenue, Oakland, CA 94621	

MONITORIN	G WELL DA	TA					
Well Casing Diameter (2"/4"/6")		2					
Wellhead Condition	OK •						
Elevation of Top of Casing (feet above msl)		10.77					
Depth of Well		14.00					
Depth to Water (from top of casing)		6.97					
Water Elevation (feet above msl)		3.80					
Well Volumes Purged	3						
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)		3.4					
Actual Volume Purged (gallons)	4.0						
Appearance of Purge Water	Initially yellowish brown, clears quickly						
Free Product Present?	No	Thickness (ft):	n/a				

	GROUNDWATER SAMPLES									
Number of Sample	Number of Samples/Container Size									
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments			
	1	20.79	7.32	10306	5.20	-144.5				
	3	22.54	7.18	17799	3.56	-157.7				
	4	21.13	7.25	18897	3.14	-156.3				

No petroleum odors noted.		

Monitoring Well Number: MW-3

Project Name:	Cruise America	Date of Sampling: 7/11/2006
Job Number:	110566	Name of Sampler: Adrian Nieto
Project Address:	796 - 66th Avenue, Oakland, CA 94621	

MONITORING WELL DATA						
Well Casing Diameter (2"/4"/6")	2					
Wellhead Condition	OK					
Elevation of Top of Casing (feet above msl)		10.20				
Depth of Well	14.00					
Depth to Water (from top of casing)	3.53					
Water Elevation (feet above msl)		6.67				
Well Volumes Purged		3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	5.0					
Actual Volume Purged (gallons)	6.0					
Appearance of Purge Water	Clear					
Free Product Present?	No	Thickness (ft):	n/a			

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	21.18	7.06	14331	6.28	-146.5	
	4	21.88	7.02	14122	4.60	-147.8	
	6	21.75	6.99	14111	3.82	-147.9	

No petroleum odor noted.		

Monitoring Well Number: MW-4

Project Name:	Cruise America	Date of Sampling: 7/11/2006	
Job Number:	110566	Name of Sampler: Adrian Nieto	
Project Address:	796 - 66th Avenue, Oakland, CA 94621		

MONITORING WELL DATA						
Well Casing Diameter (2"/4"/6")	2					
Wellhead Condition	OK		▼			
Elevation of Top of Casing (feet above msl)		11.07				
Depth of Well		14.00				
Depth to Water (from top of casing)	4.72					
Water Elevation (feet above msl)	6.35					
Well Volumes Purged		3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.5					
Actual Volume Purged (gallons)	5.0					
Appearance of Purge Water	Initially very dark brown, clears quickly					
Free Product Present?	No	Thickness (ft):	n/a			

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	22.67	8.01	2330	2.91	-177.9	
	4	22.81	8.09	2322	2.50	-191.9	
	6	22.89	8.25	2327	2.02	-215.7	

No petroleum odors noted.		

Monitoring Well Number: MW-5

Project Name:	Cruise America	Date of Sampling: 7/11/2006
Job Number:	110566	Name of Sampler: Adrian Nieto
Project Address:	796 - 66th Avenue, Oakland, CA 94621	

MONITORING WELL DATA						
Well Casing Diameter (2"/4"/6")	2					
Wellhead Condition	OK		▼			
Elevation of Top of Casing (feet above msl)		11.18				
Depth of Well		14.00				
Depth to Water (from top of casing)	4.85					
Water Elevation (feet above msl)	6.33					
Well Volumes Purged		3				
Calculated Gallons Purged: formula valid only for casing sizes of 2" (.16 gal/ft), 4" (.65 gal/ft), and 6" (1.44 gal/ft)	4.4					
Actual Volume Purged (gallons)	6.0					
Appearance of Purge Water	Initially milky brown, clears at 2.5 gallons					
Free Product Present?	No	Thickness (ft):	n/a			

GROUNDWATER SAMPLES							
Number of Sample	es/Container S	Size		4 40-ml VOA	vials		
Time	Vol Removed (gal)	Temperature (deg C)	рН	Conductivity (μS/cm)	DO (mg/L)	ORP (meV)	Comments
	2	23.10	7.43	4616	3.84	-126.1	
	4	23.25	7.45	4375	3.02	-135.3	
	6	23.34	7.44	4136	2.35	-148.9	

Light petroleum odors noted.			

APPENDIX B

LABORATORY ANALYTICAL AND CHAIN OF CUSTODY DOCUMENTATION



1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #110566; Cruise America	Date Sampled: 07/11/06
2500 Camino Diablo, Ste. #200		Date Received: 07/11/06
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Reported: 07/18/06
Wallat Crock, Cri 7 1377	Client P.O.:	Date Completed: 07/18/06

WorkOrder: 0607128

July 18, 2006

Dear Adrian:

Enclosed are:

- 1). the results of 5 analyzed samples from your #110566; Cruise America project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

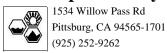
Best regards,

Angela Rydelius, Lab Manager

1667128

McCAMPBELL ANALYTICAL INC CHAIN OF CUSTODY RECORD 110 2nd AVENUE SOUTH, #D7 TURN AROUND TIME PACHECO, CA 94553-5560 RUSH 24 HR 48 HR 5 DAY **72 HR Telephone:** (925) 798-1620 Fax: (925) 798-1622 EDF Required? Yes Email PDF Report: YES Report To: Adrian Angel Bill To: Same **Analysis Request** Other **Comments** Company: AEI Consultants Grease (5520 E&F/B&F) 2500 Camino Diablo, Suite 200 8015)/MTBE E-Mail: aangel@aeiconsultants.com PAH's / PNA's by EPA 625 / 8270 / 8310 Walnut Creek, CA 94597 Total Petroleum Hydrocarbons (418.1) Tel: (925) 944-2899, extension 132 Fax: (925) 944-2895 **Project Name: Cruise America** Project #: 110566 BTEX ONLY (EPA 602 / 8020) BTEX & TPH as Gas (602/8020+ HVOCs EPA 8260 (8010 list) Project Location: Oakland, CA Lead (7240/7421/239.2/6010) Pesticides EPA 608 / 8080 BTEX + MTBE by 8021B Sampler Signature: [//www VICAL MTBE + TBA by 8260B VOCs EPA 624 / 8260 METHOD TPH as Diesel (8015) **SAMPLING** MATRIX **Type Containers** PRESERVED TPH-g by 8015Cm # Containers CAM-17 Metals EPA 625 / 8270 SAMPLE ID LOCATION (Field Point Name) Sludge Water Other HNO3 **Date** Time Other HCI Ice MW-1 $X \mid X$ X X X MW-2 MW-3 $X \mid X \mid X$ MW-4 $X \mid X \mid X$ 1:25 MW-5 X X X Received By: Relinquished By: Date: Time: 166 VOAS O&G METALS OTHER PRESERVATION Relinguished By: Date: Time: Received By: GOOD CONDITION **APPROPRIATE** HEAD SPACE ABSENT **CONTAINERS** DECHLORINATED IN LAB Relinquished By: PERSERVED IN LAB Date: Time: Received By:

McCampbell Analytical, Inc.



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0607128 ClientID: AEL EDF: YES

Report to: Bill to: Requested TAT: 5 days

Adrian Angel TEL: (925) 283-6000 Denise Mockel AEI Consultants FAX: (925) 283-6121 AEI Consultants

2500 Camino Diablo, Ste. #200 ProjectNo: #110566; Cruise America 2500 Camino Diablo, Ste. #200 Date Received: 07/11/2006
Walnut Creek, CA 94597 PO: Walnut Creek, CA 94597 Date Printed: 07/11/2006

		Requested Tests (See legend below)														
Sample ID	ClientSampID	Matrix	Collection Date H	lold	1	2	3	4	5	6	7	8	9	10	11	12
0607128-001	MW-1	Water	7/11/06 11:50:00		В	Α	Α									
0607128-002	MW-2	Water	7/11/06 11:39:00		В	Α										
0607128-003	MW-3	Water	7/11/06 11:45:00		В	Α										
0607128-004	MW-4	Water	7/11/06 11:25:00		В	Α										
0607128-005	MW-5	Water	7/11/06 11:33:00		В	Α										

Test Legend:

1 5-OXYS_W	2 G-MBTEX_W	3 PREDF REPORT	4	5
6	7	8	9	10
11	12			

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants	Client Project ID: #110566; Cruise	Date Sampled: 07/11/06
2500 Camino Diablo, Ste. #200	America	Date Received: 07/11/06
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 07/15/06-07/18/06
Wallat Crock, Cri y 1377	Client P.O.:	Date Analyzed: 07/15/06-07/18/06

Methyl-t-butyl ether and t-Butyl alcohol by P&T and GC/MS*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0607128

50В	2 mary trea	i mediods. B W 6266B		Work Order, 000712		
Client ID	Matrix	t-Butyl alcohol (TBA)	Methyl-t-butyl ether (MTBE)	DF	% SS	
MW-1	W	240	5.3	3.3	100	
MW-2	W	ND	4.1	1	107	
MW-3	W	ND	0.67	1	97	
MW-4	W	120	66	5	99	
MW-5	W	1200	24	20	99	
	MW-1 MW-2 MW-3 MW-4	Client ID Matrix MW-1 W MW-2 W MW-3 W MW-4 W	Client ID Matrix t-Butyl alcohol (TBA) MW-1 W 240 MW-2 W ND MW-3 W ND MW-4 W 120	Client ID Matrix t-Butyl alcohol (TBA) Methyl-t-butyl ether (MTBE) MW-1 W 240 5.3 MW-2 W ND 4.1 MW-3 W ND 0.67 MW-4 W 120 66	Client ID Matrix t-Butyl alcohol (TBA) Methyl-t-butyl ether (MTBE) DF MW-1 W 240 5.3 3.3 MW-2 W ND 4.1 1 MW-3 W ND 0.67 1 MW-4 W 120 66 5	

Reporting Limit for DF =1; ND means not detected at or	W	5.0	0.5	μg/L
above the reporting limit	S	NA	NA	mg/Kg

^{*} water and vapor samples are reported in $\mu g/L$, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in $\mu g/wipe$.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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AEI Consultants	Client Project ID: #110566; Cruise America	Date Sampled: 07/11/06
2500 Camino Diablo, Ste. #200		Date Received: 07/11/06
Walnut Creek, CA 94597	Client Contact: Adrian Angel	Date Extracted: 07/15/06
Wallet Greek, G.17 1897	Client P.O.:	Date Analyzed: 07/15/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0607128 Client ID TPH(g) MTBE Matrix Toluene Ethylbenzene DF % SS Lab ID Benzene Xylenes 001A MW-1 W ND ND ND 2.8 ND ND 110 002A MW-2 W ND ND ND 0.72 ND ND 95 003A MW-3 W ND ND ND 0.51 ND 1.1 1 96 ND ND 004A MW-4 W 56 ND ND ND 99 005A MW-5 W ND ND ND ND 20 ND 1 96

above the reporting limit	S	NA	NA	NA	NA	NA	NA	1	mg/Kg
ND means not detected at or	**	30	3.0	0.5	0.5	0.5	0.5	1	μg/L

^{*} water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

Reporting Limit for DF =1:

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

1534 Willow Pass Road, Pittsburg, CA 94565-1701

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8021B/8015Cm

QC Matrix: Water WorkOrder: 0607128 W.O. Sample Matrix: Water

EPA Method: SW8021B/80150	Cm E	xtraction:	SW5030	В	Batch	ID: 22606	i	Spiked Sample ID: 0607133-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
,	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) [£]	ND	60	120	107	10.9	107	105	2.08	70 - 130	70 - 130	
MTBE	ND	10	105	103	1.21	95.3	98.3	3.10	70 - 130	70 - 130	
Benzene	ND	10	96.9	96.4	0.499	93.7	94.7	1.00	70 - 130	70 - 130	
Toluene	ND	10	88.9	87.8	1.22	87.3	88.5	1.39	70 - 130	70 - 130	
Ethylbenzene	ND	10	94.1	97.1	3.14	94.6	95.8	1.33	70 - 130	70 - 130	
Xylenes	ND	30	87.3	92	5.20	92.7	96.3	3.88	70 - 130	70 - 130	
%SS:	97	10	91	94	2.92	89	91	2.09	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

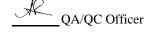
BATCH 22606 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0607128-001A	7/11/06 11:50 AM	7/15/06	7/15/06 2:41 PM	0607128-002A	7/11/06 11:39 AM	7/15/06	7/15/06 3:17 PM
0607128-003A	7/11/06 11:45 AM	7/15/06	7/15/06 3:53 PM	0607128-004A	7/11/06 11:25 AM	7/15/06	7/15/06 5:24 PM
0607128-005A	7/11/06 11:33 AM	7/15/06	7/15/06 4:29 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



[%] Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

[£] TPH(btex) = sum of BTEX areas from the FID.

[#] cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0607128

EPA Method: SW8260B	E	SW5030	В	Batch	nID: 22607	•	Spiked Sample ID: 0607121-014B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
, way to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
tert-Amyl methyl ether (TAME)	ND	10	101	102	1.27	97.3	96.6	0.751	70 - 130	70 - 130
t-Butyl alcohol (TBA)	ND	50	99.1	100	1.16	91	95.2	4.47	70 - 130	70 - 130
Diisopropyl ether (DIPE)	ND	10	110	103	6.90	100	96.5	3.67	70 - 130	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	104	105	0.814	96.9	94.1	2.85	70 - 130	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	104	104	0	105	102	2.92	70 - 130	70 - 130
%SS1:	99	10	102	96	5.63	97	96	1.41	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

BATCH 22607 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0607128-001B	7/11/06 11:50 AM	7/18/06	7/18/06 7:28 AM	0607128-002B	7/11/06 11:39 AM	7/15/06	7/15/06 8:00 PM
0607128-003B	7/11/06 11:45 AM	7/15/06	7/15/06 8:48 PM	0607128-004B	7/11/06 11:25 AM	7/18/06	7/18/06 8:11 AM
0607128-005B	7/11/06 11:33 AM	7/18/06	7/18/06 8:55 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer

NONE