Manmohan S. Chopra 4216 Warbler Loop FREMONT, CA 94555

April 7,2003

Alomodo County

Environmontal Hoolin Alameda County Department of Environmental Health

ATTN: Ms. Eva Chu

1131 Harbor Bay Parkway, 2nd. floor Alameda, Ca 94502-6577

SUB: GROUNDWATER MONITORING & SAMPLING REPORT

1401 Grand Ave.

SAN LEANDRO, CA 94577

Dear Ms. Chu,

Attached, for your review and records, please find a copy of latest Ground Water Monitoring & sampling Report for the above site. The report is self explanatory and is in standard format. However, if you have any questions or comments, please contact the undersigned at 510-489-5696 or write at the address above.

sincerely,

Manmohan S. Chopra

P & D ENVIRONMENTAL A Division of Paul H. King, Inc.

Division of Paul H. King, Inc 4020 Panama Court Oakland, CA 94611 (510) 658-6916

May 5, 2003 Report 0055.R16

Mr. Manmohan Chopra 4216 Warbler Loop Fremont, CA 94555

SUBJECT: GROUNDWATER MONITORING AND SAMPLING REPORT

Former ARCO Service Station 1401 Grand Avenue San Leandro, California

Dear Mr. Chopra:

P&D Environmental (P&D) is pleased to present this report documenting the results of the most recent monitoring and sampling of the eight groundwater monitoring wells at or near the subject site. This work was performed in accordance with P&D's proposal 022698.P1 dated February 26, 1998. All of the wells were monitored on April 16, 2003 and sampled on April 16 and 17, 2003. A Site Location Map (Figure 1) and Site Plan (Figure 2) are attached with this report.

BACKGROUND

The site is presently used as an active gasoline station. It is P&D's understanding that on April 24, 1991 Aegis Environmental, Inc. (Aegis) personnel drilled four soil borings, designated as B-1 through B-4, to a vertical depth of approximately 40 feet at the site. The locations of the borings are shown on Figure 2. A total of nine soil samples collected from the boreholes were analyzed for total petroleum hydrocarbons as gasoline (TPH-G); benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260; and for total lead by EPA Method 7420. TPH-G concentrations ranged from below detection limit to 66 parts per million (ppm). Benzene concentrations ranged from not detected to 0.94 ppm. Total lead concentrations ranged from not detected to 3 ppm. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Soil Boring Results Report," dated June 10, 1991.

It is P&D's understanding that on April 14, 1992 Aegis personnel returned to the site to drill three slant borings, designated as B5 through B7, to a total vertical depth of approximately 49 feet at the site. The borings were drilled at an angle of approximately 26 to 28 degrees to collect samples from beneath the underground storage tanks. The locations of the borings are shown on Figure 2. A total of twenty-two soil samples were analyzed for TPH-G using EPA Method 5030; and for BTEX using EPA Method 8240. In addition, one of the samples was analyzed for total lead using EPA Method 7420, and several of the soil samples were analyzed for soluble lead using the California Waste Extraction Test. TPH-G concentrations ranged from not detected to 4,000 ppm. Benzene, concentrations ranged from not detected to 11 ppm. Total lead was not detected, and soluble lead concentrations ranged from not detected to 0.061 ppm. Documentation of the subsurface investigation and results are presented in a report prepared by Aegis titled, "Initial Subsurface Investigation Results Report," dated June 22, 1992.

It is P&D's understanding that between September 15 and 18, 1992 Aegis personnel returned to the site to install five groundwater monitoring wells, designated as MW1 through MW5. The wells were drilled to total depths of between 50 and 55 feet, and were constructed using four-inch diameter PVC pipe. Wells MW1 and MW2 were constructed with perforated casing between the depths of approximately 15 and 55 feet. Wells MW3, MW4 and MW5 were constructed with perforated casing between the depths of approximately 35 and 55 feet. Groundwater was reported to have been first encountered at a depth of 42 feet. The locations of the wells are shown in Figure 2.

A total of thirty-one soil samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. In addition, three soil samples containing TPH-G were analyzed for total metals concentrations of cadmium, chromium, lead, and zinc using EPA Method 6010 and 7421. One soil sample was collected from each borehole from below the airwater interface and analyzed for petrophysical properties, including saturated permeability and grain size distribution.

TPH-G concentrations ranged from not detected to 39 ppm. Benzene concentrations ranged from not detected to 0.27 ppm. The total metals concentrations were all less than 10 times their respective STLC values. The subsurface materials encountered in the borings indicate that soil types vary across the site, but generally consist of silty clay, silt, clayey silt and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered.

It is P&D's understanding that on September 29, 1992 Aegis personnel collected groundwater samples from wells MW1, MW2, MW4 and MW5 at the site. A sample was not collected from well MW-3 due to the reported presence of 0.02 feet of floating hydrocarbons. The measured depth to water ranged from approximately 41.5 to 44.5 feet. The samples were analyzed for TPH-G using EPA Method 5030/8015; and for BTEX using EPA Method 8020. TPH-G concentrations ranged from 0.06 to 20 ppm, and benzene concentrations ranged from 0.16 to 10 ppm. Based upon the water level measurements in the wells, the groundwater flow direction was reported to be to the northwest. The water level measurements are summarized in Table 1. The analytical results are summarized in Table 2.

It is P&D's understanding that on October 7, 1992 Aegis personnel performed rising head slug tests wells MW1, MW2, and MW4 to estimate the saturated hydraulic conductivity at the site. In addition, two short-term soil vapor extraction tests were performed on wells MW1 and MW2. Wells MW-3, MW-4, and MW-5 were used as vacuum influence monitoring points. Documentation of the monitoring well groundwater sample collection, slug test and vapor extraction tests are presented in a report prepared by Aegis titled, "Problem Assessment Report," dated December 16, 1992.

On February 18, 1994 P&D personnel monitored the five groundwater monitoring wells at the site for depth to water and the presence of free product or sheen. The depth to water was

measured using an electric water level indicator, and the presence of free product and sheen was evaluated using a transparent bailer. The measured depth to water in the wells ranged from approximately 39.8 to 42.9 feet. No evidence of free product or sheen was detected in any of the wells. Based on the measured depth to water in the wells, the groundwater flow direction was calculated to be to the north with a gradient of 0.054. In a letter dated October 19, 1995 Mr. Scott Seery of the Alameda County Department of Environmental Health requested that all of the onsite and offsite wells be monitored and sampled for the quarterly monitoring and sampling program. The measured depth to water in the wells is presented in Table 1.

On June 15 and 16, 1995 P&D installed three offsite monitoring wells, designated as MW6 through MW8. The locations of the wells are shown on Figure 2. Documentation of the well installation and sample results is presented in P&D's report 0055.R5 dated August 23, 1995.

The underground storage tanks at the subject site were replaced in the first half of 1997. Following removal of the tanks, excavation of soil was performed in the area surrounding well MW1. As a result of the excavation activities, the elevation at the top of well MW1 was altered. The present elevation for the top of well MW1 is unknown.

EIELD ACTIVITIES

On April 16, 2003 all eight of the wells in the groundwater monitoring network for the site were monitored and on April 16 and 17, 2003 all of the wells were purged and sampled by P&D personnel. The wells were monitored for depth to water and the presence of free product or sheen. Depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of sheen was evaluated using a transparent bailer. No free product or sheen was observed in any of the wells. Depth to water level measurements and monitoring well groundwater surface elevations are presented in Table 1.

Prior to sampling, the wells were purged of a minimum of three casing volumes of water. During purging operations, the field parameters of electrical conductivity, temperature and pH were monitored. Once the field parameters were observed to stabilize, and a minimum of three casing volumes had been purged, water samples were collected using a clean Teflon bailer. The water samples were transferred to 40-milliliter glass Volatile Organic Analysis (VOA) vials which were sealed with Teflon-lined screw caps. The VOA vials were overturned and tapped to assure that no air bubbles were present.

The VOA vials were then transferred to a cooler with ice, and later were transported to McCampbell Analytical, Inc. in Pacheco, California. McCampbell Analytical, Inc. is a State-certified hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory. Records of the field parameters measured during well purging are attached with this report.

HYDROGEOLOGY

The subsurface materials encountered in the borings drilled by Aegis indicate that soil types vary across the site, but generally consist of silty clay, silt, clayer silt and sandy silt from the surface to a depth of between 30 and 35 feet. Below the depth of 30 to 35 feet, layers of sand and sandy silt were reported to have been encountered. Groundwater has historically been encountered at the site at depths ranging from approximately 40 to 45 feet below grade.

Based upon the regional groundwater flow direction identified by Woodward-Clyde Consultants in a report titled, "Hydrogeology of Central San Leandro and Remedial Investigation of Regional Groundwater Contamination - San Leandro Plume - San Leandro, California - Volume I," prepared for the California Environmental Protection Agency and dated December 29, 1993 the regional groundwater flow direction to the west of the site appears to be to the southwest. However, based upon the measured depth to water in the five wells at the site on September 29, 1992 Aegis identified a northwesterly groundwater flow direction. Based upon water level measurements collected by P&D from the five wells at the site on February 18, July 5, and October 12, 1994, February 1, and May 4, 1995 the groundwater flow direction at the site was calculated to be to the north, towards San Leandro Creek. Based upon water level measurements collected in wells MW1 through MW8 by P&D personnel on June 23 and December 19, 1995, March 28 and June 21, 1996 the groundwater flow direction was calculated to be to the northwest.

The measured depth to water at or near the site on April 16, 2003 for all of the wells ranged from 37.32 to 40.63 feet. Since the previous monitoring on January 20, 2003, groundwater levels have decreased in all of the wells by between 0.42 and 0.86 feet. Based on the April 16, 2003 water level measurements, the groundwater flow direction on April 16, 2003 was to the northwest with a gradient of 0.048. The calculated water level in well MW3 appears to be inconsistent with the other wells in the groundwater monitoring network.

The groundwater flow direction has not changed and the gradient has decreased since the previous water level measurements on January 20, 2003. The groundwater monitoring data are presented in Table 1. The groundwater flow direction at the site on April 16, 2003 is shown on Figure 2.

LABORATORY RESULTS

All of the groundwater samples collected from the monitoring wells were analyzed for TPH-G using EPA Method 5030 in conjunction with Modified EPA Method 8015 and for Volatile Organic Compounds (VOCs) and fuel oxygenates using EPA Method 8260 in accordance with a request from Ms. Eva Chu of the Alameda County Department of Environmental Health.

The laboratory analytical results for the groundwater samples showed that TPH-G, BTEX, MTBE, and other fuel oxygenates were not detected in wells MW5, MW6, MW7, and MW8. In wells

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MW1, MW3 and MW4, TPH-G was detected at concentrations ranging from 0.052 to 0.38 ppm, and at a concentration of 57 ppm in well MW2. MTBE was detected in wells MW1, MW2, MW3, and MW4 at concentrations of 0.056, 5.6, 0.34, and 5.4 ppm, respectively. Benzene was detected in wells MW1 and MW2 at concentrations of 0.0011 and 3.4 ppm, respectively, and was not detected in wells MW3 and MW4.

Since the previous sampling event, TPH-G concentrations have increased in wells MW2, MW3 and MW4, decreased in well MW1, and remained unchanged (not detected) in wells MW5 through MW8. MTBE concentrations have increased in wells MW2, MW3, and MW4, decreased in wells MW1 and MW6, and remained unchanged (not detected) in wells MW5, MW7 and MW8. Benzene concentrations have increased in wells MW1 and MW2 and remained unchanged (not detected) in wells MW3 through MW8.

The laboratory analytical results are summarized in Table 2. Copies of the laboratory analytical report and chain of custody documentation are attached with this report.

DISCUSSION AND RECOMMENDATIONS

Based on the depth to water measurements on April 16, 2003 from all of the monitoring wells (MW1 through MW8), the groundwater flow direction is to the northwest, and is unchanged since the previous monitoring event. MTBE was detected only in wells MW1 through MW4. Other BTEX and fuel oxygenates were not detected in any of the wells other than well MW2 with the exception of 0.0013 ppm TBA in well MW2.

P&D recommends that a quarterly groundwater monitoring and sampling program be continued at the site. P&D recommends that future groundwater samples collected from all of the wells be analyzed for TPH-G, BTEX and MTBE using EPA Method 8020, based on the absence of fuel oxygenates other than MTBE and TBA in well MW1.

DISTRIBUTION

Copies of this report should be forwarded to Ms. Eva Chu at the Alameda County Department of Environmental Health.

LIMITATIONS

This report was prepared solely for the use of Mr. Manmohan Chopra. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgement based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however,

geological conditions may vary between borings and pits and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly-revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgement based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are

based upon the current regulatory climate and may require revision if future regulatory changes occur.

Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental

Paul H. King President

California Registered Geologist #5901

Paul H. Kring

Expires: 12/31/03

PHK/wrw 0055 R16

Attachments: Tables 1 & 2

Site Location Map (Figure 1)

Site Plan (Figure 2) Field Parameter Forms

Laboratory Analytical Reports Chain of Custody Documentation

TABLE 1 WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MWl	4/16/03	Not Available	38.91	Not Available
	1/20/03	Not Available	38,21	Not Available
	2/16/99	Not Available	34.58	Not Available
	1/25/98	Not Available	33.70	Not Available
	7/14/97	Not Available	39.45	Not Available
	3/11/97	87.98+	36.90	51.08
	6/21/96		38.56	49.42
	3/28/96		37.10	50.88
	12/19/95		40.16	47.82
	6/23/95		38.54	49.44
	5/04/95	87.96++	37,65	50.33
	2/01/95		38.46	49.52
	10/12/94		42.01	45,97
	7/05/94		41,36	46,62
	2/18/94		41.02	4 6,96
	9/29/92		42.77	45,21
MW2	4/16/03	86.61+	37.50	49.11
	1/20/03		37.04	49.57
	2/16/99		33,51	53.10
	1/25/98		32.80	53.81
	7/14/97		38,46	48,15
	3/11/97		35.71	50.90
	6/21/96		37,30	49.31
	3/28/96		35.97	50.64
	12/19/95		38.80	47.81
	6/23/95		37.40	49.21
	5/04/95	86.60++	36.54	50.07
	2/01/95		37,27	49.34
	10/12/94		40.77	45.84
	7/05/94		40.13	46.48
	2/18/94		39.81	46.80
	9/29/92		41.55	45.06

NOTES:

Elevations are in feet Mean Sea Level.

ft. = Feet.

^{+ =} Indicates survey data provided by Kier & Wright dated June 26, 1995.

^{++ =} Indicates survey data provided by Aegis Environmental, Inc.

^{* =} Indicates groundwater elevation corrected for the presence of free product.

TABLE 1 (Continued) WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW3	4/16/03	87.48+	40.60	46.88
	1/20/03		39.81	47.67
	2/16/99		34.91	52.57
	1/25/98		33.91	53.57
	7/14/97		40.61	46.87
	3/11/97		38.71	48.77
	6/21/96		40.61	46.87
	3/28/96		38.75	48.73
	12/19/95		42.20	45.28
	6/23/95		40.65	46.83
	5/04/95	87.50++	39.61	47,87
	2/01/95		40.13	47.35
	10/12/94		43.92	43,56
	7/05/94		43.32	44.16
	2/18/94		43.09	44.39
	9/29/92		44.60	42.88*
MW4	4/16/03	86.21+	37.32	48.89
	1/20/03	•	36.70	49.51
	2/16/99		33.43	52.78
	1/25/98		32,96	53.25
	7/14/97		38.10	48.11
	3/11/97		33,24	52.97
	6/21/96		37.12	49.09
	3/28/96		35.00	51.21
	12/19/95		38.45	47.76
	6/23/95		37.40	48.81
	5/04/95	86.20++	36.33	49.88
	2/01/95		36.96	49.25
	10/12/94		40,48	45.73
	7/05/94		39.69	46.52
	2/18/94		39.36	46.85
	9/29/92		44.29	41.92

NOTES:

Elevations are in feet Mean Sea Level.

ft. = Feet.

^{+ =} Indicates survey data provided by Kier & Wright dated June 26, 1995.

^{++ =} Indicates survey data provided by Aegis Environmental, Inc.

^{** =} Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 1 (Continued) WELL MONITORING DATA

Well No.	Date Monitored	Top of Casing Elev. (ft.)	Depth to Water (ft.)	Water Table Elev. (ft.)
MW5	4/16/03	89.10+	39.92	49.18
	1/20/03		39,50	49,60
	2/16/99		35.08	54.02
	1/25/98		34.08	55,02
	7/14/97		41.20	47.90
	3/11/97		38.02	51.08
	6/21/96		40.03	49.07
	3/28/96		38,30	50.80
	12/19/95		41.79	47,31
	6/23/95		39.87	49.23
	5/04/95	89.06++	38.94	50.16
	2/01/95		39.94	49.16
	10/12/94		43.81	45,29
	7/05/94		43,08	46.02
	2/18/94		42.88	46,22
	9/29/92		44.53	44.57
MW6	4/16/03	84.02+	38.00	46.02
	1/20/03		37.21	46.81
	2/16/99		32.82	51.20
	1/25/98		31.64	52.38
	7/14/97		39.04	44.98
	3/11/97		36.32	47.70
	6/21/96		38.00	46.02
	3/28/96		36.18	47.84
	12/19/95		39.25	44,77
	6/23/95		38.17	45.85
	6/21/95**		38.11	45.91

NOTES:

Elevations are in feet Mean Sea Level.

ft. = Feet.

^{+ =} Indicates survey data provided by Kier & Wright dated June 26, 1995.

^{++ =} Indicates survey data provided by Aegis Environmental, Inc.

^{** =} Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 1 (Continued) WELL MONITORING DATA

Well	Date	Top of Casing	Depth to	Water Table
No.	Monitored	Elev. (ft.)	Water (ft.)	Elev. (ft.)
MW7	4/16/03	87.11+	40.63	46.48
	1/20/03		39.77	47.34
	2/16/99		34.59	52.52
	1/25/98		33.47	53.64
	7/14/97		41.97	45.14
	3/11/97		38,96	48,15
	6/21/96		40.80	46.31
	3/28/96		38,94	48.17
	12/19/95		42.26	44.85
	6/23/95		41.00	46.11
	6/21/95**		40.30	46.81
MW8	4/16/03	89.70+	39.52	50.18
	1/20/03		38.94	50.76
	2/16/99		33.92	55.78
	1/25/98		32.73	56,97
	7/14/97		39.98	49.72
	3/11/97		36.74	52.96
	6/21/96		38.69	51.01
	3/28/96		36.98	52.72
	12/19/95		40.35	49.35
	6/23/95		38.36	51.34
	6/21/95**		38,20	51.50

NOTES:

Elevations are in feet Mean Sea Level.

ft. = Feet.

^{+ =} Indicates survey data provided by Kier & Wright dated June 26, 1995.

^{** =} Indicates depth to water measurements prior to groundwater monitoring well development.

TABLE 2 GROUNDWATER LABORATORY ANALYTICAL RESULTS

(Samples Collected April 16 & 17, 2003)

Well No.	ТРН-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Other VOCs by EPA 8260
MW1	0.052	0.056	0.0011	ND<0.00 1	ND<0.001	ND<0.001	ND, except t-Butyl Alcohol (TBA) = 0.013
MW2	57	5.6	3.4	5.1	2.8	10	ND, except Naphthanlene = 0.43 1,2,4-Trimethylbenzene = 2.2 n-proylbenzene = 0.26 1,3,5-Trimethylbenzene = 0.55
MW3	0.18	0.34	ND	ND	ND	ND	ND
MW4	0.38	5.4	ND<0.12	ND<0.12	ND<0.12	ND<0.12	ND
MW5	ND<0.05	ND	ND	ND	ND	ND	ND
MW6	ND<0.05	ND	ND	ND	ND	ND	ND, except
MW7	ND<0.05	ND	ND	ND	ND	ND	Chloroform = 0.0012 ND, except Chloroform = 0.00075 Tetrachloroethene = 0.0012
MW8	ND<0.05	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0018

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl Tert Butyl Ether.

VOCs = Volatile Organic Compounds

ND = Not Detected below 0.0005 ppm for MW5-MW8 & 0.00067 ppm for MW3 unless otherwise noted

TABLE 2 (Continued) GROUNDWATER LABORATORY ANALYTICAL RESULTS

(Samples Collected January 20, 2003)

Well No.	ТРН-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Other VOCs by EPA 8260
MWl	0.17	0.085	ND<0.005	ND<0.005	ND<0.005	ND<0,005	ND
MW2	48	3.8	2.9	3.0	2.0	11	ND, except Naphthanlene = 0.35 1,2,4-Trimethylbenzene = 1.4 1,3,5-Trimethylbenzene = 0.32 Isopropylbenzene = 0.069 n-proylbenzene = 0.16
MW3	0.12	0.25	ND<0.005	ND<0.005	ND<0.005	0.0052	ND
MW4	0.21	3.0	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND
MW5	ND	ND	ND	ND	ND	ND	ND
MW6	ND	0.0012	ND	ND	ND	ND	ND, except Chloroform = 0.0011
MW7	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.00056
MW8	ND	ND	ND	ND	ND	ND	ND, except Chloroform = 0.0013

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl Tert Butyl Ether.

VOCs = Volatile Organic Compounds

ND = Not Detected.

TABLE 2 (Continued) GROUNDWATER LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
NU.		On	Samples Collecte February 16 & 17,		benzene	Aylenes
MW1	0.97	0.29	0.067	0.12	0.0093	0.058
MW2	7.3	0.56	0.42	1.0	0.38	1.8
MW3	ND	0.021	ND	ND	ND	ND
MW4	0.23	0.20	0.065	0,0022	0.0096	0.033
MW5	0.17	ND	ND	0.00074	ND	ND
MW6	ND	ND	ND	ND	ND	ND
MW7	ND	ND	ND	ND	ND	ND
MW8	ND	ND	ND	ND	ND	ND

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl Tert Butyl Ether.

ND = Not Detected.

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TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes				
710.	Samples Collected On January 25, 1998									
MW1	0.30	ND<0.014	0.021	0.00073	0.0076	0.0010				
MW2	24	2.7	. 2.7	4.9	0,70	4.0				
MW3	0.49	0.71	0.0079	0.0061	0.0053	0.029				
MW4	0.91	0.23	0.15	0.019	0.31	0.14				
MW5	ND	ND	ND	ND	ND	ND				
MW6	ND	ND	ND	ND	ND	ND				
MW7	ND	ND	ND	ND	ND	ND				
MW8	ND	ND	ND	ND	ND	ND				
			mples Collected n July 14, 1997							
MWI	0.20	0.035	0.020	0.0055	0.0012	0.0023				
MW2	43	1.6	6.2	8.9	1.5	7.4				
MW3	0.40	0.11	0.00093	0.0010	0.0013	0.00068				
MW4	0.98	0.40	0.21	0.0017	0.090	0.046				
MW5	ND	ND	ND	ND	ND	ND				
MW6	ND	0.019	ND	ND	ND	ND				
MW7	ND	ND	ND	ND	ND	ND				
MW8	ND	ND	ND	ND	ND	ND				

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl Tert Butyl Ether.

ND = Not Detected.

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TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	МТВЕ	Benzene	Toluene	Ethyl- benzene	Total Xylenes				
	Samples Collected On March 11, 1997									
MW1	0.60	0.014	0.053	0.00095	0.003	0.0015				
MW2	28	0.71	4.0	4.5	0.99	4.3				
MW3	1.1	0.68	0.053	0.013	0.063	0.017				
MW4	3.8	1.1	1.1	0.053	0.24	0.26				
MW5	ND	ND	ND	ND	ND	0.00077				
MW6	ND	ND	ND	ND	ND	ND				
MW7	ND	ND	ND	ND	ND	ND				
MW8	ND	ND	ND	ND	ND	ND				
			mples Collected 1 June 21, 1996							
MW1	1.4	0.019	0.30	0.0087	0.033	0.0098				
MW2	49	0.53	6.6	6.3	1.4	6.2				
MW3	1.3	0.3	0.094	0.0021	0.039	0.002				
MW4	11	1.2	2.4	0.083	0.53	0.91				
MW5	ND	ND	ND	ND	ND	ND				
MW6	ND	ND	ND	ND	ND	ND				
MW7	ND	ND	ND	ND	ND	ND				
MW8	ND	ND	ND	ND	ND	ND				

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

MTBE = Methyl Tert Butyl Ether.

ND = Not Detected.

TABLE 2 (Continued) GROUNDWATER LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
			amples Collected March 28, 1996			
MW1	1.3	0.022	0.32	0.0023	0.034	0.0046
MW2	38	0.45	5.8	4.7	1.1	5.1
MW3	4.6	1.1	1.4	0.012	0.17	0.020
MW4	5.6	0.64	1.4	0.038	0.31	0.30
MW5	ND	ND	ND	ND	ND	ND
MW6	ND	ND	ND	ND	ND	ND
MW7	ND	ND	ND	ND	ND	ND
MW8	ND	ND	ND	ND	ND	ND
			amples Collected December 19, 1999	5		
MW1	0.50	0.0081	0.087	0.0015	0.011	0.0035
MW2	25	0.45	5,2	3.8	0,86	3.8
MW3	0.95	0.12	0.16	0.0023	0.015	0.0016
MW4	2.0	0.21	0.70	0.029	0.089	0.15
MW5	ND	ND	ND	ND	ND	ND
MW6	ND	0.01	ND	ND	ND	ND
MW7	ND	ND	ND	ND	ND	ND
MW8	ND	ND	ND	ND	ND	ND

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

Results in parts per million (ppm), unless otherwise indicated.

TABLE 2 (Continued) GROUNDWATER LABORATORY ANALYTICAL RESULTS

Well No.	ТРН-G	МТВЕ	Benzene	Toluene	Ethyl- benzene	Total Xylenes
			mples Collected 1 June 23, 1995			
MW6	ND	0.003	ND	ND	ND	ND
MW7	ND	ND	ND	ND	ND	ND
MW8	ND	ND	ND	ND	ND	ND
			mples Collected In May 4, 1995			
MW1	2.4	NA	0,67	0.0028	0.076	0.0060
MW2	63	NA	10	11	1.6	8.8
MW3	7.2	NA	3.1	0.038	0.20	0.062
MW4	3.3	NA	0.89	0.068	0.15	0.30
MW5	ND	NA	ND	ND	ND	ND
			mples Collected February 1, 1995			
MW1	4.6	NA	1.8	0.0099	0.23	0.030
MW2	45	NA	7.0	5.1	1.2	6.1
MW3	11	NA	4.2	0.031	0.33	0.29
MW4	1.4	NA	0.39	0.055	0.049	0.18
MW5	ND	NA	ND	ND	ND	ND

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

Results in parts per million (ppm), unless otherwise indicated.

May 5, 2003 Report 0055.R16

TABLE 2 (Continued)
GROUNDWATER
LABORATORY ANALYTICAL RESULTS

Well No.	TPH-G	MTBE	Benzene	Toluene	Ethyl- benzene	Total Xylenes
110.			mples Collected October 12, 1994		bolizono	, ty 101103
MWI	2.5	NA	0.82	0.0039	0.10	0.020
MW2	24	NA	4.4	2.8	0.73	3.5
MW3	1.7	NA	0.39	0.00090	0.018	0,0057
MW4	0.68	NA	0.14	0.0087	0.014	0.052
MW5	ND	NA	ND	ND	ND	ND
			mples Collected On July 5, 1994			
MW1	3.0	NA	1.3	0.0038	0.035	0.0025
MW2	46.0	NA	9.1	7.0	1.4	7.3
MW3	3.6	NA	1.6	0.0083	0.076	0.047
MW4	2.6	NA	0.47	0.045	0.084	0.25
MW5	ND	NA	ND	ND	ND	0.0010
			mples Collected eptember 29, 1992	2		
MW1	3.1	NA	0.16	ND	ND	0.0060
MW2	20	NA	4.6	3.8	0.26	3.3
MW3	NA	NA	NA	NA	NA	NA
MW4	0.63	NA	0.17	0.06	0.0073	0.65
MW5	0.06	NA	10	0.0071	ND	0.0069

NOTES:

TPH-G = Total Petroleum Hydrocarbons as Gasoline.

ND = Not Detected.

NA = Not Analyzed.

Results in parts per million (ppm), unless otherwise indicated.

P & D Environmental

4020 Panama Court Oakland, CA 94611 Telephone (510) 658-6916



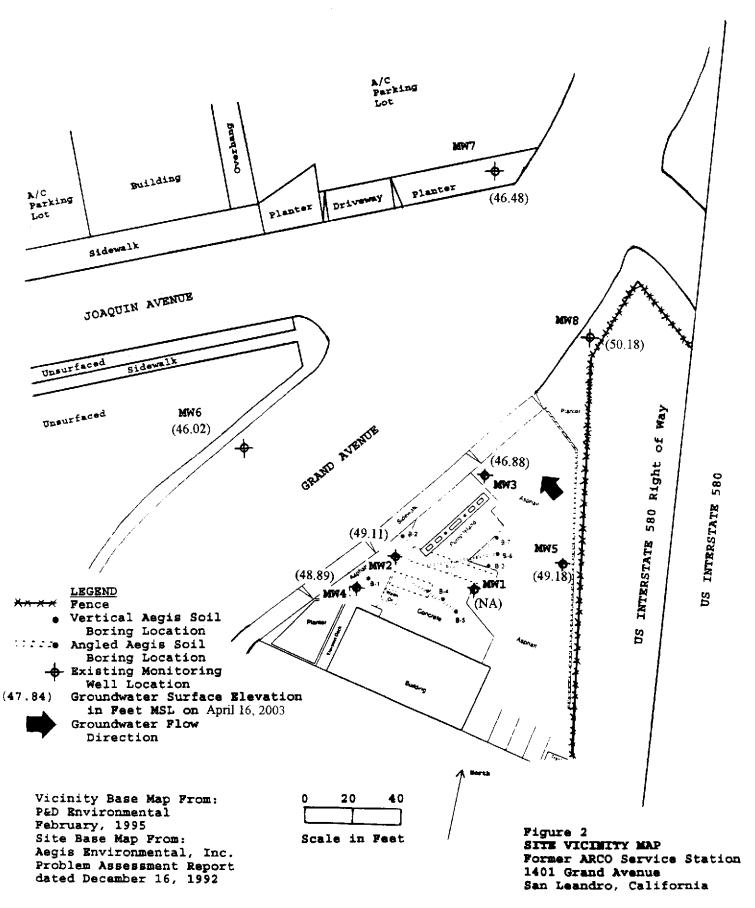
Base Map from: U.S. Geological Survey San Leandro, Calif. 7.5 Minute Quadrangle Photorevised 1980



Figure 1 SITE LOCATION MAP Former ARCO Service Station 1401 Grand Avenue San Leandro, California

P & D ENVIRONMENTAL

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916



Site Name Torm	er Haber O.		Well No.	MWI	
Job No. 005	5	-(Date	117/03	
TOC to Water (ft	., 38.91	_	Sheen	NONE	
Well Depth (ft.)		_		t Thickness Ø	
Well Diameter	411	_		ection Method	
Gal./Casing Vol.	89	_	teflo		
£ =	26.7		(of)	ELECTRICAL (45/cm	×100
TIME GAL.	PURGED	<u>コ</u> イン	TEMPERATURE /	CONDUCTIVITY	<i>)</i> '
9143	5	711) Zui	071	0.75	
	0	<u> </u>	65,1 65,2	0112	
<u> </u>	12	7.50	(5)	0,73	
9.57	7.2	7.55	105,0	0.70	
	28	7.62	65,0	0.70	
		1102	0310		
				,	
	-				
		· · · · · · · · · · · · · · · · · · ·			
	- ···				
	 .	· · · · · · · · · · · · · · · · · · ·	·		
	 				
	<u></u>				
		···············			
			 		
		 -			
NOTES:	\				
/an,	the odor	- 10	:05 am.		
No P	tic odor	or sheen	.		

	DATA S	SHEET	
Site Name torner Haber	0;\	Well No	MWZ
Job No. <u>6055</u>	, 	Date 4/	17/03
TOC to Water (ft.) 37.50		Sheen	NONE
Well Depth (ft.) 52,4		·	act Thickness Ø
Well Diameter 4 "			lection Method
Gal./Casing Vol. 96		-tr	flor biler
€= 28.8		(of)	ELECTRICAL /1/6
TIME GAL. PURGED	DH C	TEMPERATURE	CONDUCTIVITY
12:09m 1	7.29	65,8	0,78
12:13 5	7.22	66.6	0.78
12:4 12	7,22	664	0,78
12:22 18	7.21	66.4	0.77
12:24 _ 24	7.32	66.9	0,78
12:31 30	7.32	68.4	0.83
	7.29	67.7	0,78
			···
			
NOTES:		\overline{C}	d.
NOTES: Black particles in	engender	tor Tirst 10 a	allons;
- no PIIC sheen, bu	it slight	odor, Sampling	time - 12:40 on
PURGE10.92	J	٠ ,	1 F

SheenFree Produ	MU3 (/17/03 WONF ct Thickness Ø
SheenFree Produ	MONE
Free Produ	
	ct Thickness 🔗
010-1	
Samble Col	lection Method
Tell	an bailen
(of)	ELECTRICAL (45/cm)
	0.67
i a	0.67
(50)	() /-(-
<u>ਾਪ</u> ਨਿੰਪ	0.60
7.6	0.69
	
62:4	0,69
	· · · · · · · · · · · · · · · · · · ·
-	
 :	-
	-
no wester N	a Sharia
-	- John College

Site Name _	Former Habe	x Dil	Well No	MwY
Job No			Date	WE 4/17/03
	er (ft.) 37.32	-	Sheen	NONE
Well Depth	~ ⁷ ⁷	_	Free Produc	t Thickness Ø
Well Diame	/		Sample Coll	ection Method
Gal./Casing	g Vol. 46.0	10.3	10+10	n bailer
	£=30,9		(of)	ELECTRICAL (M)
TIME	GAL, PURGED	ᄜ 7.50	TEMPERATURE	ONDUCTIVITY / V)
11:27		7,50	65.9	0.86
11 : 20	12	7.53 7.53	66.4	0.86
11 70	18	7.5	1511	() ()
11 37 11 1 ()	75	753	165	0.87
11.40	21	7.52	66.0	0.85
(1.4)		1:) 4	_60.	
				,
<u></u>				
			· · · · · · · · · · · · · · · · · · ·	
				
•				
				
		<u>*</u>		
				
NOTES:		1	<u> </u>	
	No odor or	- Steen	or Purge water	<u> </u>
	Dampling Time		: 70 am.	
PURGE10.92	!			

· / 11.4	DATA S			
Site Name tormer take	<u>v</u> 011	Well No. <u>W</u>	NW 5	
Job No. 0059	_	Date4/	16/03	
TOC to Water (ft.) 39.92		Sheen	NONE	
Well Depth (ft.) 54.7		Free Produc	ct Thickness Ø	
Well Diameter 4"		Sample Col	lection Method	
Gal./Casing Vol. 9.6		Tetlon	bailer	
2=28.4		(aF)	ELECTRICAL MS/cm)x 100c
TIME GAL. PURGED	크 그 그 (TEMPERATURE 64.9	CONDUCTIVITY	/ (· -
1.64	7.7	64.7	0.72	
	7101	641/	<u> </u>	
15.58 10	7,6	64.6	0.75	
2:07 19	7 66	675	0.70	
$\frac{200}{25}$	7,66		0.68	
2.16	7 24 7 2 C	64.4	010	
2.15 _ 30	7,71		<u> </u>	

			-	
				
				
				
				
		 		
	100	 		
NOTES: Sampling Time No ptic odor or	: 2:2	Opm		
No ptic odor or	sheen		,	

site Name Former Haber Oil	Well No. MW6
Job No. <u>-00-50- 0055</u>	Date 4/1603
TOC to Water (ft.) 36.00	Sheen NONE
Well Depth (ft.) 49.	Free Product Thickness
Well Diameter 2"	Sample Collection Method
Gal./Casing Vol. \.\	teflow hailer
£ = 5.4	COE ELECTRICAL W.C.
TIME GAL, PURGED DH	TEMPERATURE CONDUCTIVITY ()
273pm 0.5 7018	65.5
2743 1 7.09	65,7
2:44 2 7.90	<u>65.5</u> 0.68
2:45 3 7.91	65.4 0.68
2:45 4.5 7.94	65.3 0.68
z:46 6 7.93	65,3 0,66
· — ·	
	
	
Notes: In Christie box above	TOC.
	2:50 pm Noftle odwar sheen.
PURGE10.92	ı

Site Name _	Former Hayer	<u> </u>	Well No.	MWZ	
Job No. O	055		Date	1/16/03	
TOC to Wate	er (ft.) 40.63		Sheen	NONE	
Well Depth	(ft.) 49.8		Free Produ	ct Thickness	
Well Diamet	er211		Sample Col	lection Method	
Gal./Casing			Tefle	n bailer	
TIME	£ = 4.5		(of)	ELECTRICAL (4)	in JK Ta
TIME	GAL. PURGED O 2		TEMPERATURE /	CONDUCTIVITY	
1.05	0.8	000	660	<u> 0,67</u>	
1:06	1,5	7.98	165	<u> </u>	
	7.0	<u> </u>	<u> </u>		
1107	2.8-2.5	7.99	66.1	0,65	
1:07	3.5	7.97	65,9	0.67	
1:08	4.5	7.97	65,9	0,65	
		 ,			
					
·					
			-		
·					
NOTES:	Eam line I'm	10 -	1:15 pm		
	North afor o	r sheen			
			·· ·····		

size Name Former Haver Oil	MW8
	Well No.
Job No. 0055	Date 4/16/03
TOC to Water (ft.) 31.52	Sheen NONE
Well Depth (ft.) 46.0	Free Product Thickness
Well Diameter 211	Sample Collection Method
Gal./Casing Vol.	Teflon bailer
£=4,2	(of) ELECTRICAL (4) S/Com V/O
TIME GAL, PURGED PH	TEMPERATURE CONDUCTIVITY
2:00 0,2 8,	$\frac{63}{65}$ $\frac{65}{1}$ $\frac{0.92}{1}$
12:01 0.8	29 64,2 0,64
1.5 8	21 64.1 0.66
12:02 2,5	119 64,0 0,66
12:03 3.0 8.	19 63.9 0.6 >
12:04 4.0 81	2 64.0 6.6
12:04 445 8	19 63.9 0.66
	
<u> </u>	
·	
	<u> </u>
NOTES:	12 in hole Tax
Water in Christie Dox	~3, in. below Toc. 2:10 pm - NoPHC odor or Seen.
Kimpling time - 17	2:10 pm - NOVIIC odor or Jeen
PURGE10.92	

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
O.1.1	Client Contact: Paul King	Date Extracted: 04/22/03-04/24/03
Oakland, CA 94611-4931	Client P.O.:	Date Analyzed: 04/22/03-04/24/03

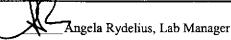
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline* Analytical methods: 8015Cm Work Order: 0304307					
Lab ID	Client ID	Matrix	TPH(g)	DF	% S
001A	MWI	w	52,a	1	101
002A	MW2	w	57,000,a	100	103
003A	MW3	w	180,a	1	10
004A	MW4	W	380,a	5	10
005A	MW5	w	ND	1	97.
006A	MW6	w	ND	1	98.
007A	MW7	W	ND	1	99.
008A	MW8	w :	ND	1	99.
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<u> </u>					
<u> </u>	<u> </u>			<u> </u>	<u>.</u>
	Limit for DF =1; not detected at or	W	50		g/L
	reporting limit	S	NA	: N	ΙA

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/L.

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 ~2 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.



P & D Environmental	l '	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Outland, Cri 94011-4991	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 0304307
Lab ID	0304307-001B	
Client ID	MWl	
Matrix	Water	

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10	2.0	5.0	tert-Amyl methyl ether (TAME)	ND<1.0	2.0	0.5
Benzene	1.1	2.0	0.5	Bromobenzene	ND<1.0	2.0	0.5
Bromochloromethane	ND<1.0	2.0	0.5	Bromodichloromethane	ND<1.0	2.0	0.5
Bromoform	ND<1.0	2.0	0.5	Bromomethane	ND<1.0	2.0	0.5
2-Butanone (MEK)	ND<2.0	2.0	1.0	t-Butyl alcohol (TBA)	13	2.0	5.0
n-Butyl benzene	ND<1.0	2.0	0.5	sec-Butyl benzene	ND<1.0	2.0	0.5
tert-Butyl benzene	ND<1.0	2.0	0.5	Carbon Disulfide	ND<1.0	2.0	0.5
Carbon Tetrachloride	ND<1.0	2.0	0.5	Chlorobenzene	ND<1.0	2.0	0.5
Chloroethane	ND<1.0	2.0	0.5	2-Chloroethyl Vinyl Ether	ND<1.0	2.0	0.5
Chloroform	ND<1.0	2.0	0.5	Chloromethane	ND<1.0	2.0	0.5
2-Chlorotoluene	ND<1.0	2.0	0.5	4-Chlorotoluene	ND<1.0	2.0	0.5
Dibromochloromethane	ND<1.0	2.0	0.5	1,2-Dibromo-3-chloropropane	ND<1.0	2.0	0.5
1,2-Dîbromoethane (EDB)	ND<1.0	2.0	0.5	Dibromomethane	ND<1.0	2.0	0.5
1,2-Dichlorobenzene	ND<1.0	2.0	0.5	1,3-Dichlorobenzene	ND<1.0	2.0	0.5
1,4-Dichlorobenzene	ND<1.0	2.0	0.5	Dichlorodifluoromethane	ND<1.0	2.0	0.5
1,1-Dichloroethane	ND<1.0	2.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND<1.0	2.0	0.5
1,1-Dichloroethene	ND<1.0	2.0	0.5	cis-1,2-Dichloroethene	ND<1.0	2.0	0.5
trans-1,2-Dichloroethene	ND<1.0	2.0	0.5	1,2-Dichloropropane	ND<1.0	2.0	0.5
1,3-Dichloropropane	ND<1.0	2.0	0.5	2,2-Dichloropropane	ND<1.0	2.0	0.5
I,1-Dichloropropene	ND<1.0	2.0	0.5	cis-1,3-Dichloropropene	ND<1.0	2.0	0.5
trans-1,3-Dichloropropene	ND<1.0	2.0	0.5	Diisopropyl ether (DIPE)	ND<1.0	2.0	0.5
Ethylbenzene	ND<1.0	2.0	0.5	Ethyl tert-butyl ether (ETBE)	ND<1.0	2.0	0.5
Hexachlorobutadiene	ND<1.0	2.0	0.5	2-Hexanone	ND<1.0	2.0	0.5
Iodomethane (Methyl iodide)	ND<1.0	2.0	0.5	Isopropylbenzene	ND<1.0	2.0	0.5
4-Isopropyl toluene	ND<1.0	2.0	0.5	Methyl-t-butyl ether (MTBE)	56	2.0	0.5
Methylene chloride	ND<1.0	2.0	0.5	4-Methyl-2-pentanone (MIBK)	ND<1.0	2.0	0.5
Naphthalene	ND<1.0	2.0	0.5	n-Propyl benzene	ND<1.0	2.0	0.5
Styrene	ND<1.0	2.0	0.5	1,1,1,2-Tetrachloroethane	ND<1.0	2.0	0.5
1,1,2,2-Tetrachloroethane	ND<1.0	2.0	0.5	Tetrachloroethene	ND<1.0	2.0	0.5
Toluene	ND<1.0	2.0	0.5	1,2,3-Trichlorobenzene	ND<1.0	2.0	0.5
1,2,4-Trichlorobenzene	ND<1.0	2.0	0.5	1,1,1-Trichloroethane	ND<1.0	2.0	0.5
1,1,2-Trichloroethane	ND<1.0	2.0	0.5	Trichloroethene	ND<1.0	2.0	0.5
Trichlorofluoromethane	ND<1.0	2.0	0.5	1,2,3-Trichloropropane	ND<1.0	2.0	0.5
1,2,4-Trimethylbenzene	ND<1.0	2.0	0.5	1,3,5-Trimethylbenzene	ND<1.0	2.0	0.5
Vinyl Acetate	ND<10	2.0	5.0	Vinyl Chloride	ND<1.0	2.0	0.5
Xylenes	ND<1.0	2.0	0.5				
		Sur	rogate Ro	coveries (%)			
%SS1: 111 %SS2: 85.2							

%SS3: Comments: 109

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

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

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Oakland, CA 94011-4951	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

	Extraction Method. SW 3030B	Analytical Method: Sw8260B	Work Order: 0304307
	Lab ID	0304307-002B	
	Client ID	MW2	
	Matrix	Water	
ı			10

117dG17X	·			77 0.01			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1200	250	5.0	tert-Amyl methyl ether (TAME)	ND<120	250	0.5
Benzene	3400	250	0.5	Bromobenzene	ND<120	250	0.5
Bromochloromethane	ND<120	250	0.5	Bromodichloromethane	ND<120	250	0.5
Bromoform	ND<120	250	0.5	Bromomethane	ND<120	250	0.5
2-Butanone (MEK)	ND<250	250	1.0	t-Butyl alcohol (TBA)	ND<1200	250	5.0
n-Butyl benzene	ND<120	250	0.5	sec-Butyl benzene	ND<120	250	0.5
tert-Butyl benzene	ND<120	250	0.5	Carbon Disulfide	ND<120	250	0.5
Carbon Tetrachloride	ND<120	250	0.5	Chlorobenzene	ND<120	250	0.5
Chloroethane	ND<120	250	0.5	2-Chloroethyl Vinyl Ether	ND<120	250	0.5
Chloroform	ND<120	250	0.5	Chloromethane	ND<120	250	0.5
2-Chlorotoluene	ND<120	250	0.5	4-Chlorotoluene	ND<120	250	0.5
Dibromochloromethane	ND<120	250	0.5	1,2-Dibromo-3-chloropropane	ND<120	250	0.5
1,2-Dibromoethane (EDB)	ND<120	250	0.5	Dibromomethane	ND<120	250	0.5
1,2-Dichlorobenzene	ND<120	250	0.5	1,3-Dichlorobenzene	ND<120	250	0.5
1,4-Dichlorobenzene	ND<120	250	0.5	Dichlorodifluoromethane	ND<120	250	0.5
1,1-Dichloroethane	ND<120	250	0.5	1,2-Dichloroethane (1,2-DCA)	ND<120	250	0.5
1,1-Dichloroethene	ND<120	250	0.5	cis-1,2-Dichloroethene	ND<120	250	0.5
trans-1,2-Dichloroethene	ND<120	250	0.5	1,2-Dichloropropane	ND<120	250	0.5
1,3-Dichloropropane	ND<120	250	0.5	2,2-Dichloropropane	ND<120	250	0.5
1,1-Dichloropropene	ND<120	250	0.5	cis-1,3-Dichloropropene	ND<120	250	0.5
trans-1,3-Dichloropropene	ND<120	250	0.5	Diisopropyl ether (DIPE)	ND<120	250	0.5
Ethylbenzene	2800	250	0.5	Ethyl tert-butyl ether (ETBE)	ND<120	250	0.5
Hexachlorobutadiene	ND<120	250	0.5	2-Hexanone	ND<120	250	0.5
lodomethane (Methyl iodide)	ND<120	250	0.5	Isopropylbenzene	ND<120	250	0.5
4-Isopropyl toluene	ND<120	250	0.5	Methyl-t-butyl ether (MTBE)	5600	250	0.5
Methylene chloride	ND<120	250	0.5	4-Methyl-2-pentanone (MIBK)	ND<120	250	0.5
Naphthalene	430	250	0.5	n-Propyl benzene	260	250	0.5
Styrene	ND<120	250	0.5	1,1,1,2-Tetrachloroethane	ND<120	250	0.5
1,1,2,2-Tetrachloroethane	ND<120	250	0.5	Tetrachloroethene	ND<120	250	0.5
Toluene	5100	250	0.5	1,2,3-Trichlorobenzene	ND<120	250	0.5
1,2,4-Trichlorobenzene	ND<120	250	0.5	1,1,1-Trichloroethane	ND<120	250	0.5
1,1,2-Trichloroethane	ND<120	250	0.5	Trichloroethene	ND<120	250	0.5
Trichlorofluoromethane	. ND<120	250	0.5	1,2,3-Trichloropropane	ND<120	250	0.5
1,2,4-Trimethylbenzene	2200	250	0.5	1,3,5-Trimethylbenzene	550	250	0.5
Vinyl Acetate	ND<1200	250	5.0	Vinyl Chloride	ND<120	250	0.5
Xylenes	10,000	250	0.5				
			rogate Ro	ecoveries (%)			
%SS1:	105	5		%SS2:	82.3		

Surrogate Recoveries (%)					
%SS1:	105	%SS2:	82.3		
%SS3:	110				
_					

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

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

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Oakiaild, CA 94011-4931	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

	Chem P.O.			Da	te Analyzed: 04/23/03-0	4/24/(13
Volatile	es Organics + Ox		_	P&T and GC/MS (Basi		Order: 0	204207
		An	alyticai Me	thod: SW8260B	WOTK	Order: 0	304307
Lab ID				0304307-003B			
Client ID				MW3	27.		
Matrix				Water			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<67	13	5.0	tert-Amyl methyl ether (TAN	(E) ND<6.7	13	0.5
Benzene	ND<6.7	13	0.5	Bromobenzene	ND<6.7	13	0.5
Bromochloromethane	ND<6.7	13	0.5	Bromodichloromethane	ND<6.7	13	0.5
Bromoform	ND<6.7	13	0.5	Bromomethane	ND<6.7	13	0.5
2-Butanone (MEK)	ND<13	13	1.0	t-Butyl alcohol (TBA)	ND<67	13	5.0
n-Butyl benzene	ND<6.7	13	0.5	sec-Butyl benzene	ND<6.7	13	0.5
tert-Butyl benzene	ND<6.7	13	0.5	Carbon Disulfide	ND<6.7	13	0.5
Carbon Tetrachloride	ND<6.7	13	0.5	Chlorobenzene	ND<6.7	13	0.5
Chloroethane	ND<6.7	13	0.5	2-Chloroethyl Vinyl Ether	ND<6.7	13	0.5
Chloroform	ND<6.7	13	0.5	Chloromethane	ND<6.7	13	0.5
2-Chlorotoluene	ND<6.7	13	0.5	4-Chlorotoluene	ND<6.7	13	0.5
Dibromochloromethane	ND<6.7	13		1,2-Dibromo-3-chloropropar		13	0.5
1,2-Dibromoethane (EDB)	ND<6.7	13	0.5	Dibromomethane	ND<6.7	13	0.5
1,2-Dichlorobenzene	ND<6.7	13	**	1.3-Dichlorobenzene	ND<6.7	13	0.5
1,4-Dichlorobenzene	ND<6.7	13	0.5	Dichlorodifluoromethane	ND<6.7	13	0.5
1,1-Dichloroethane	ND<6.7	13	0.5	1,2-Dichloroethane (1,2-DC	The state of the s	13	0.5
1.1-Dichloroethene	ND<6.7	13	0.5	cis-1,2-Dichloroethene	ND<6.7	13	0.5
trans-1,2-Dichloroethene	ND<6.7	13	0.5	1,2-Dichloropropane	ND<6.7	13	0.5
1,3-Dichloropropane	ND<6.7	13	0.5	2,2-Dichloropropane	ND<6.7	13	0.5
1,1-Dichloropropene	ND<6.7	13	0.5	cis-1,3-Dichloropropene	ND<6.7	13	0.5
trans-1,3-Dichloropropene	ND<6.7	13	0.5	Diisopropyl ether (DIPE)	ND<6.7	13	0.5
Ethylbenzene	ND<6.7	13	0.5	Ethyl tert-butyl ether (ETBE		13	0.5
Hexachlorobutadiene	ND<6.7	13	0.5	2-Hexanone	ND<6.7	13	0.5
Iodomethane (Methyl iodide)	ND<6.7	13	0.5	Isopropylbenzene	ND<6.7	13	0.5
4-Isopropyl toluene	ND<6.7	13	0.5	Methyl-t-butyl ether (MTBE		13	0.5
Methylene chloride	ND<6.7	13	0.5	4-Methyl-2-pentanone (MIB		13	0.5
Naphthalene	ND<6.7	13	0.5	n-Propyl benzene	ND<6.7	13	0.5
Styrene	ND<6.7	13	0.5	1,1,2-Tetrachloroethane	ND<6.7	13	0.5
1,1,2,2-Tetrachloroethane	ND<6.7	13	0.5	Tetrachloroethene	ND<6.7	13	0.5
Toluene	ND<6.7	13	0.5	1,2,3-Trichlorobenzene	ND<6.7	13	0.5
1,2,4-Trichlorobenzene	ND<6.7	13	0.5	1,1,1-Trichloroethane	ND<6.7	13	0.5
1.1.2-Trichloroethane	ND<6.7	13	0.5	Trichloroethene	ND<6.7	13	0.5
Trichlorofluoromethane	ND<6.7	13	0.5	1,2,3-Trichloropropane	ND<6.7	13	0.5
1,2,4-Trimethylbenzene	ND<6.7	13	0.5	1,3,5-Trimethylbenzene	ND<6.7	13	0.5
Vinyl Acetate	ND<67	13	5.0	Vinyl Chloride	ND<6.7	13	0.5
Xylenes	ND<6.7	<u>13</u>	0.5	1 myr Chloride	1415~0.7	10	
A Trongs	· 11D\0.7			coveries (%)			
8/001.	105		ogate Kt		95.5		
%SS1:	107			%SS2:	85.5		
%SS3:	110	1					

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

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

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Oakland, CA 94011-4931	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

 Extraction Method:
 SW5030B
 Analytical Method:
 SW8260B
 Work Order:
 0304307

 Lab ID
 0304307-004B
 O304307-004B
 O304

Matrix	Matrix Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1200	250	5.0	tert-Amyl methyl ether (TAME)	ND<120	250	0.5
Веплепе	ND<120	250	0.5	Bromobenzene	ND<120	250	0.5
Bromochloromethane	ND<120	250	0.5	Bromodichloromethane	ND<120	250	0.5
Bromoform	ND<120	250	0.5	Bromomethane	ND<120	250	0.5
2-Butanone (MEK)	ND<250	250	1.0	t-Butyl alcohol (TBA)	ND<1200	250	5.0
n-Butyl benzene	ND<120	250	0.5	sec-Butyl benzene	ND<120	250	0.5
tert-Butyl benzene	ND<120	250	0.5	Carbon Disulfide	ND<120	250	0.5
Carbon Tetrachloride	ND<120	250	0.5	Chlorobenzene	ND<120	250	0.5
Chloroethane	ND<120	250	0.5	2-Chloroethyl Vinyl Ether	ND<120	250	0.5
Chloroform	ND<120	250	0.5	Chloromethane	ND<120	250	0.5
2-Chlorotoluene	ND<120	250	0.5	4-Chlorotoluene	ND<120	250	0.5
Dibromochloromethane	ND<120	250	0.5	1,2-Dibromo-3-chloropropane	ND<120	250	0.5
1,2-Dibromoethane (EDB)	ND<120	250	0.5	Dibromomethane	ND<120	250	0.5
I,2-Dichlorobenzene	ND<120	250	0.5	1,3-Dichlorobenzene	ND<120	250	0.5
1,4-Dichlorobenzene	ND<120	250	0.5	Dichlorodifluoromethane	ND<120	250	0.5
1,1-Dichloroethane	ND<120	250	0.5	1,2-Dichloroethane (1,2-DCA)	ND<120	250	0.5
1,1-Dichloroethene	ND<120	250	0.5	cis-1,2-Dichloroethene	ND<120	250	0.5
trans-1,2-Dichloroethene	ND<120	250	0.5	1,2-Dichloropropane	ND<120	250	0.5
1,3-Dichloropropane	ND<120	250	0.5	2,2-Dichloropropane	ND<120	250	. 0.5
1,1-Dichloropropene	ND<120	250	0.5	cis-1,3-Dichloropropene	ND<120	250	0.5
trans-1,3-Dichloropropene	ND<120	250	0.5	Diisopropyl ether (DIPE)	ND<120	250	0.5
Ethylbenzene	ND<120	250	0.5	Ethyl tert-butyl ether (ETBE)	ND<120	250	0.5
Hexachlorobutadiene	ND<120	250	0.5	2-Hexanone	ND<120	250	0.5
Iodomethane (Methyl iodide)	ND<120	250	0.5	Isopropylbenzene	ND<120	250	0.5
4-Isopropyl toluene	ND<120	250	0.5	Methyl-t-butyl ether (MTBE)	5400	250	0.5
Methylene chloride	ND<120	250	0.5	4-Methyl-2-pentanone (MIBK)	ND<120	250	0.5
Naphthalene	ND<120	250	0.5	n-Propyl benzene	ND<120	250	0.5
Styrene	ND<120	250	0.5	1,1,2-Tetrachloroethane	ND<120	250	0.5
1,1,2,2-Tetrachloroethane	ND<120	250	0.5	Tetrachloroethene	ND<120	250	0.5
Toluene	ND<120	250	0.5	1,2,3-Trichlorobenzene	ND<120	250	0.5
1,2,4-Trichlorobenzene	ND<120	250	0.5	1,1,1-Trichloroethane	ND<120	250	0.5
1,1,2-Trichloroethane	ND<120	250	0.5	Trichloroethene	ND<120	250	0.5
Trichlorofluoromethane	ND<120	250	0.5	1,2,3-Trichloropropane	ND<120	250	0.5
1,2,4-Trimethylbenzene	ND<120	250	0.5	1,3,5-Trimethylbenzene	ND<120	250	0.5
Vinyl Acetate	ND<1200	250	5.0	Vinyl Chloride	ND<120	250	0.5
Xylenes	ND<120	250	0.5		7.70		

Surrogate Recoveries (%)					
%SS1:	109	%SS2:		83.7	
%SS3:	110				

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than -2 vol. % sediment; j) sample diluted due to high organic content.



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

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

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Ounidio, On 74011-4751	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 0304307
Lab ID	0304307-005B	
Client ID	MW5	
	IVI W 3	

Matrix Water									
Сотроила	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit		
Acetone	: ND	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5		
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5		
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5		
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5		
2-Butanone (MEK)	ND	1.0	1.0	t-Butyl alcohol (TBA)	ND	1.0	5.0		
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5		
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5		
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5		
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5		
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5		
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5		
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5		
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5		
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5		
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5		
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5		
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5		
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5		
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5		
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5		
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5		
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5		
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5		
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5		
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5		
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5		
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5		
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5		
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5		
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5		
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5		
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5		
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5		
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5		
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5		
Xylenes	ND	1.0	0.5						
		Sur	rogate Re	coveries (%)					
%SS1:	110)		%SS2: 84.9					
%SS3:	110)							

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

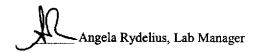
ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03				
4020 Panama Court	Oil	Date Received: 04/18/03				
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03				
Oakiaiid, CA 94011-4931	Client P.O.:	Date Analyzed: 04/23/03-04/24/03				

		maryzea: 01/25/05-0	172 170				
Volatile Extraction Method: SW5030B	es Organics + Ox		-	P&T and GC/MS (Basic T		Order: 03	304307
Lab ID			<u> </u>	0304307-006B	and the second s		
Client ID				MW6	<u> </u>		
<u>Matrix</u>			Reporting	Water			Reporting
Compound	Concentration *	DF	Limit	Compound	Concentration *	DF	Limit
Acetone	ND	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	1.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	1.2	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
I.1-Dichloropropene	ND :	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND		0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND		0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND '	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND :	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND ND	1.0	0.5	Trichloroethene	ND ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND ND	1.0	0.5
Vinyl Acetate	ND ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xvlenes	ND	1.0	0.5	+ myr cmorroe	עאו		0.5
***************************************	1110			coverles (%)			
%SS1:	100		ogate Ke		*^^		
	108			%SS2:	103		
%SS3:	106	·					

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

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

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03
4020 Panama Court	Oil	Date Received: 04/18/03
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03
Oakianu, CA 94011-4931	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B	Analytical Method: SW8260B	Work Order: 0304307
Lab ID	0304307-007B	•
Client ID	MW7	
Matrix	Water	
	Denoting	Panagina

Matrix	Matrix Water						
Сотроилд	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	1.0 1.0 t-Butyl alcohol (TBA) ND		ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	0.75	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	1.2	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	ND	1.0	0.5				
		Surr	ogate Re	ecoveries (%)			
%SS1:	109	,		%SS2:	101		
				1 · · · · · · · · · · · · · · · · · · ·			

%SS1:

%SS3:

Comments:

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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P & D Environmental	Client Project ID: #0055; Former Haber	Date Sampled: 04/16/03-04/17/03				
4020 Panama Court	Oil	Date Received: 04/18/03				
Oakland, CA 94611-4931	Client Contact: Paul King	Date Extracted: 04/23/03-04/24/03				
Oakianu, CA 94011-4931	Client P.O.:	Date Analyzed: 04/23/03-04/24/03				

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

 Extraction Method:
 SW5030B
 Analytical Method:
 SW8260B
 Work Order:
 0304307

 Lab ID
 0304307-008B
 O304307-008B
 O304

Compound Concentration DF Limit Compound Concentration DF Limit Compound Concentration DF Limit Compound Concentration DF Limit	Matrix							
Benzene ND 1.0 0.5 Bromobenzene ND 1.0 0.5 Bromochroromethane ND 1.0 0.5 Sea Bromochroromethane ND 1.0 0.5 Sea Bromochroromethane ND 1.0 0.5 Sea Buryl benzene ND 1.0	Compound	Concentration *	DF		Compound	Concentration *	DF	Reporting Limit
Bromochloromethane	Acetone	ND	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Bromoform ND 1.0 0.5 Bromomethane ND 1.0 0.5	Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
2-Butanone (MEK) ND 1.0 1.0 1.0 1-Butyl alcohol (TBA) ND 1.0 5.0 -Butyl benzene ND 1.0 0.5 5.2 -Butyl benzene ND 1.0 0.5 5.2 -Butyl benzene ND 1.0 0.5 -Butyl benzene ND 1	Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
n-Butyl benzene ND 1.0 0.5 sec-Butyl benzene ND 1.0 0.5 carbon Disulfide ND 1.0 0.5 Chlorocthane ND 1.0 0.5 Dibromochloromethane ND 1.0 0.5 I.2-Dibromochloromethane ND 1.0 0.5 Dibromochloromethane ND 1.0 0.5 Dibromochloromethane ND 1.0 0.5 Dibromochlorocthane (EDB) ND 1.0 0.5 Dibromochlorocthane ND 1.0 0.5 Dibromochlorocthane ND 1.0 0.5 Dibromochlorocthane ND 1.0 0.5 I.2-Dibrilorocthane ND 1.0 0.5 I.3-Dibrilorocthane ND 1.0 0.5 III 0.5 II	Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
Part Butyl benzene ND 1.0 0.5 Carbon Disulfide ND 1.0 0.5 Chlorochane ND 1.0 0.5 Chlorochyl Vinyl Ether Chlorochyl Vinyl Ether ND 1.0 0.5 Chlorochyl Vinyl Ether Chlorochyl Vinyl C	2-Butanone (MEK)	ND	1.0	1.0	t-Butyl alcohol (TBA)	ND	0.1	5.0
Carbon Tetrachloride	n-Butyl benzene	ND	1.0	1.0 0.5 sec-Butyl benzene		ND	1.0	0.5
Chloroethane	tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Chloroform	Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	. 0.5
Chloroform	Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Dibromochloromethane ND 1.0 0.5 1,2-Dibromo-3-chloropropane ND 1.0 0.5 1,2-Dibromocthane (EDB) ND 1.0 0.5 Dibromomethane ND 1.0 0.5 1,2-Dichlorobenzene ND 1.0 0.5 1,3-Dichlorobenzene ND 1.0 0.5 1,4-Dichlorobenzene ND 1.0 0.5 Dichlorodibromethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 Dichlorodibromethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloropropane ND 1.0 0.5 1,1-Dichloroptopane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloroptopane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloroptopane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloroptopane ND 1.0 0.5 0.5 0.5	Chloroform	1.8	1.0	0.5		ND	1.0	0.5
1,2-Dibromoethane (EDB) ND 1.0 0.5 Dibromomethane ND 1.0 0.5 1,2-Dichlorobenzene ND 1.0 0.5 1,3-Dichlorobenzene ND 1.0 0.5 1,4-Dichloroethane ND 1.0 0.5 Dichlorodifluoromethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethene ND 1.0 0.5 1,1-Dichloroethene ND 1.0 0.5 1,2-Dichloroethene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 1,2-Dichloropropane ND 1.0 0.5 1,3-Dichloropropene ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 1,3-Dichloropropene ND 1.0 0.5 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 1,1-Dichloropropene ND 1.0 0.5 1.0 0.5 1.0 </td <td>2-Chlorotoluene</td> <td>ND</td> <td>1.0</td> <td>0.5</td> <td>4-Chlorotoluene</td> <td>ND</td> <td>1.0</td> <td>0.5</td>	2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
1,2-Dibromoethane (EDB) ND 1.0 0.5 Dibromomethane ND 1.0 0.5 1,2-Dichlorobenzene ND 1.0 0.5 1,3-Dichlorobenzene ND 1.0 0.5 1,4-Dichlorobenzene ND 1.0 0.5 Dichlorodifiluoromethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane ND 1.0 0.5 1,3-Dichloropropane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropane ND 1.0 0.5 Discopropyl ether (DIPE) ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 Discopropyl ether (DIPE) ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Hexachlorobutadiene ND 1.0 0.5 Sopropylbenzene ND 1.0 0.5 Methylene ND 1.0 0.5 Sopropylbenzene ND 1.0 0.5 Methylene chloride ND 1.0 0.5 Hexachloroethane ND 1.0 0.5 Naphthalene ND 1.0 0.5 N-Propyl benzene ND 1.0 0.5 ND 1.0 0.5 Tertachloroethane ND 1.0 0.5 1,1,2,2-Tetrachloroethane ND 1.0 0.5 Tertachloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethane N	Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,4-Dichlorobenzene ND 1.0 0.5 Dichlorodifluoromethane ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethane ND 1.0 0.5 1,2-Dichloroethane (1,2-DCA) ND 1.0 0.5 1,1-Dichloroethene ND 1.0 0.5 1,2-Dichloroethene ND 1.0 0.5 1,3-Dichloroptopane ND 1.0 0.5 1,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0.5 0.5-Dichloropropene ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 0	1,2-Dibromoethane (EDB)	ND	1.0	0.5		ND	1.0	0.5
1,1-Dichloroethane	1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,1-Dichloroethene	1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethene	1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,3-Dichloropropane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 cis-1,3-Dichloropropene ND 1.0 0.5 Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Hexachlorobutadiene ND 1.0 0.5 2-Hexanone ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Ishylbenzene ND 1.0 0.5 4-Isopropyl toluene ND 1.0 0.5 Methyl-t-butyl ether (MTBE) ND 1.0 0.5 Methylene chloride ND 1.0 0.5 4-Methyl-2-pentanone (MIBK) ND 1.0 0.5 Naphthalene ND 1.0 0.5 n-Propyl benzene ND 1.0 0.5 Styrene ND 1.0 <	1,1-Dichloroethene	ND	1.0	0.5		ND	1.0	0.5
1,3-Dichloropropane ND 1.0 0.5 2,2-Dichloropropane ND 1.0 0.5 1,1-Dichloropropene ND 1.0 0.5 cis-1,3-Dichloropropene ND 1.0 0.5 Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Hexachlorobutadiene ND 1.0 0.5 2-Hexanone ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Ishylbenzene ND 1.0 0.5 4-Isopropyl toluene ND 1.0 0.5 Methyl-t-butyl ether (MTBE) ND 1.0 0.5 Methylene chloride ND 1.0 0.5 4-Methyl-2-pentanone (MIBK) ND 1.0 0.5 Naphthalene ND 1.0 0.5 n-Propyl benzene ND 1.0 0.5 Styrene ND 1.0 <	trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene ND 1.0 0.5 cis-1,3-Dichloropropene ND 1.0 0.5	1,3-Dichloropropane	ND	1.0	0.5		l ND	1.0	0.5
ND 1.0 0.5 Diisopropyl ether (DIPE) ND 1.0 0.5 Discopropyl ether (DIPE) ND 1.0 0.5 Discopropyl ether (ETBE) ND Discopropyle ether (ETBE) Discopropyle Discopropyle ether (ETBE) Discopropyle ether (ETB	1,1-Dichloropropene	ND	1.0	0.5		ND	1.0	0.5
Ethylbenzene ND 1.0 0.5 Ethyl tert-butyl ether (ETBE) ND 1.0 0.5 Hexachlorobutadiene ND 1.0 0.5 2-Hexanone ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Isopropylbenzene ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Isopropylbenzene ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Methyl-t-butyl ether (MTBE) ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Methyl-t-butyl ether (MTBE) ND 1.0 0.5 Idodomethane (Methyl iodide) ND 1.0 0.5 Idodomethane (MIBK) ND Idodomethane ND Idodometh	trans-1,3-Dichloropropene	ND	1.0	+		ND	1.0	0.5
Hexachlorobutadiene ND 1.0 0.5 2-Hexanone ND 1.0 0.5	Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
A-Isopropyl toluene	Hexachlorobutadiene	ND	1.0	0.5		ND	1.0	0.5
Methylene chloride ND 1.0 0.5 4-Methyl-2-pentanone (MIBK) ND 1.0 0.5 Naphthalene ND 1.0 0.5 n-Propyl benzene ND 1.0 0.5 Styrene ND 1.0 0.5 1,1,1,2-Tetrachloroethane ND 1.0 0.5 1,1,2,2-Tetrachloroethane ND 1.0 0.5 Tetrachloroethane ND 1.0 0.5 10uene ND 1.0 0.5 1,2,3-Trichlorobenzene ND 1.0 0.5 1,2,4-Trichloroethane ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 1,2,3-Trichloroptopane ND 1.0 0.5 1,2,4-Trimethylbenzene ND 1.0	Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
Methylene chloride ND 1.0 0.5 4-Methyl-2-pentanone (MIBK) ND 1.0 0.5 Naphthalene ND 1.0 0.5 n-Propyl benzene ND 1.0 0.5 Styrene ND 1.0 0.5 1,1,1,2-Tetrachloroethane ND 1.0 0.5 1,1,2,2-Tetrachloroethane ND 1.0 0.5 Tetrachloroethane ND 1.0 0.5 10uene ND 1.0 0.5 1,2,3-Trichlorobenzene ND 1.0 0.5 1,2,4-Trichloroethane ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 1,2,3-Trichloroptopane ND 1.0 0.5 1,2,4-Trimethylbenzene ND 1.0	4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
ND 1.0 0.5 1,1,1,2-Tetrachloroethane ND 1.0 0.5 1,1,2,2-Tetrachloroethane ND 1.0 0.5 1,2,2-Tetrachloroethane ND 1.0 0.5 1,2,3-Trichlorobenzene ND 1.0 0.5 1,2,3-Trichlorobenzene ND 1.0 0.5 1,2,3-Trichloroethane ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,2,3-Trichloropthane ND 1.0 0.5 1,2,3-	Methylene chloride	ND	1.0	0.5		ND	1.0	0.5
ND	Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Toluene	Styrene	ND	1.0	0.5		ND	1.0	0.5
1,2,4-Trichlorobenzene ND 1.0 0.5 1,1,1-Trichloroethane ND 1.0 0.5 1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethene ND 1.0 0.5 Trichlorofluoromethane ND 1.0 0.5 1,2,3-Trichloropropane ND 1.0 0.5 1,2,4-Trimethylbenzene ND 1.0 0.5 1,3,5-Trimethylbenzene ND 1.0 0.5 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 0.5 Xylenes ND 1.0 0.5 Surrogate Recoveries (%) ND 1.0 0.5	1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
1,1,2-Trichloroethane ND 1.0 0.5 Trichloroethene ND 1.0 0.5 Trichlorofluoromethane ND 1.0 0.5 1,2,3-Trichloropropane ND 1.0 0.5 1,2,4-Trimethylbenzene ND 1.0 0.5 1,3,5-Trimethylbenzene ND 1.0 0.5 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 0.5 Xylenes ND 1.0 0.5 Surrogate Recoveries (%)	Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
Trichlorofluoromethane	1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,2,4-Trimethylbenzene ND 1.0 0.5 1,3,5-Trimethylbenzene ND 1.0 0.5 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 0.5 Xylenes ND 1.0 0.5 Surrogate Recoveries (%)	1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
1,2,4-Trimethylbenzene ND 1.0 0.5 1,3,5-Trimethylbenzene ND 1.0 0.5 Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 0.5 Xylenes ND 1.0 0.5 Surrogate Recoveries (%) Surrogate Recoveries (%)	Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
Vinyl Acetate ND 1.0 5.0 Vinyl Chloride ND 1.0 0.5 Xylenes ND 1.0 0.5 Surrogate Recoveries (%)	1,2,4-Trimethylbenzene	ND	1.0	0.5		ND	1.0	0.5
Surrogate Recoveries (%)	Vinyl Acetate	ND	1.0	5.0			1.0	0.5
	Xylenes	ND	1.0	0.5				· · · · · · · · · · · · · · · · · · ·
			Suri	rogate Re	coveries (%)			
	%SSI:	103	5		%SS2:	102	,	

%SS3: Comments:

100

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0304307

EPA Method: SW80	21B/8015Cm E	extraction:	SW5030B		Batch1D: 6622		Spiked Sample ID: 0304305-004A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Compound	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [€]	ND	60	114	112	1.75	98.4	98.4	0	80	120
мтве	ND	10	92	91.7	0.303	104	105	0.576	80	120
Benzene	ND	10	98.4	103	4.21	96.8	96.7	0.114	80	120
Toluene	0.6261	10	97	101	3.58	101	100	0.665	80	120
Ethylbenzene	ND	10	102	104	2.51	101	101	0	80	120
Xylenes	2.4	30	98.7	102	3.08	107	107	0	80	120
%SS:	104	100	100	105	4.31	99	98.5	0.505	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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

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

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http://www.mccampbell.com E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0304307

EPA Method: SW802	1B/8015Cm E	Extraction:	SW5030B	1	BatchID: 6640 Spiked Sample ID: 0304323						
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
Ostripouna	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(btex) [£]	ND	60	106	104	1.65	108	108	0	80	120	
MTBE	7.901	10	83.4	90,2	4,10	98.6	94.8	3.90	80	120	
Benzene	ND	10	101	105	3.85	99.4	99.5	0.128	80	120	
Toluene	ND	10	93.5	96.5	3.17	92.8	92.3	0.614	80	120	
Ethylbenzene	ND	10	103	105	2.38	102	102	0	8 0	120	
Xylenes	ND	30	96.7	100	3.39	96.7	96.7	0	80	120	
%SS:	102	100	103	105	1.87	99.3	99.1	0.192	80	120	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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

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

QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0304307

EPA Method: SW8260B	E	Extraction: SW5030B			BatchID: 6641			Spiked Sample ID: 0304307-005B			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	e Criteria (%)	
Compound	µg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
tert-Amyl methyl ether (TAME)	ND	10	114	115	0.708	105	109	4.13	70	130	
Benzene	ND	10	105	106	0,544	99.9	105	4.61	70	130	
Chlorobenzene	ND	10	101	101	0	97.8	99.3	1.48	70	130	
1,1-Dichloroethene	ND	10	93.5	90.2	3.52	79.8	89.9	11.9	70	130	
Diisopropyl ether (DIPE)	ND	10	121	121	0	103	117	12.6	70	130	
Ethyl tert-butyl ether (ETBE)	ND	10	109	110	0.304	92.8	105	12.5	70	130	
Methyl-t-butyl ether (MTBE)	ND	10	119	115	3.65	96.1	111	13.9	70	130	
Toluene	ND	10	111	111	0	99.3	110	10.4	70	130	
Trichloroethene	ND	10	96.6	96.9	0.263	92.7	95.5	2.96	70	130	
%SS1:	110	100	108	105	2.32	96.1	103	7.17	70	130	
%SS2:	84.9	100	102	100	1.32	94.9	102	7.56	70	130	
%SS3:	110	100	99.4	99.7	0.313	99.1	99.5	0.331	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

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.

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.

^{*} MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0304307

Client:

P & D Environmental 4020 Panama Court

Oakland, CA 94611-4931

TEL:

(510) 658-6916

FAX:

(510) 658-9074

ProjectNo:

#0055; Former Haber Oil

PO:

Date Received:

4/18/03

Date Printed:

4/18/03

							Requested Tests	
Sample ID	ClientSampID	Matrix	Collection Date	Hold	8021B/8015	SW8260B		
0304307-001	MW1	Water	4/17/03	:	Α	В		
0304307-002	MW2	Water	4/17/03	1	Ā	В		
0304307-003	MW3	Water	4/17/03	1	A	В		
0304307-004	MW4	Water	4/17/03		· A	В	1	·
0304307-005	MW5	Water	4/16/03		Α	В		
0304307-006	MW6	Water	4/16/03		Α	В	· · · · · · · · · · · · · · · · · · ·	
0304307-007	MW7	Water	4/16/03		Α	В		
0304307-008	MW8	Water	4/16/03	i .	A	В		

Prepared by: Melissa Valles

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.

A Division of Paul H. King, Inc. 4020 Panama Court Oakland, CA 94611 (510) 658-6916

CHAIN OF CUSTODY RECORD PROJECT NAME: PROJECT NUMBER: 0055 Former Haber Oil SAMPLED BY: (PRINTED AND SIGNATURE) REMARKS W. I helm Welzen bach SAMPLE NUMBER SAMPLE LOCATION DATE TIME | TYPE Vale-MWi MW 2 MW 3 MW 4 MW 5 16W 6 MW 7 MW 8 VOAS / OAG | METALS | OTRER PRESERVATION TOTAL ESERVED IN LAP RELINQUISHED BY (SIGNATURE) RECEIVED BY: (SIGNATURE) TOTAL HO. OF SAMPLES DATE TIME LABORATORY: (THIS SHIPMENT) 9710 TOTAL NO. OF CONTAINERS (THIS SHIPMENT) RELINQUISHED BY: (SIGNATURE) DATE RECEIVED, BY: (SIGNATURE) TIME LABORATORY CONTACT: LABORATORY PHONE NUMBER: 546 (925)-798-1620 RELINQUISHED BY: (SIGNATURE) RECEIVED FOR LABORATORY BY: DATE TIME SAMPLE ANALYSIS REQUEST SHEET (SIGNATURE) ATTACHED: ()YES (X)NO **REMARKS:**