

A PORTOR

Environmental Contracting and Consulting

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January 29, 1999

Project No. 3628

Mr. Reed Rinehart Rino Pacific, Inc. P.O Box 725 Ukiah, California 95482

Subject: REPORT - Groundwater Monitoring, December 1998
1107 Fifth Street
Oakland, California

Dear Mr. Rinehart:

W. A. Craig, Inc. (WAC) is pleased to submit this Groundwater Monitoring Report for sampling conducted on December 30, 1998 at 1107 Fifth Street (site) in Oakland, California (Figure 1). This work was performed in accordance with the scope of work presented in WAC's Work Plan dated September 16, 1996.

This report includes groundwater quality and elevation data for three groundwater monitoring wells at the site. The installation of the monitoring wells is presented in WAC's "Subsurface Investigation Report," dated January 17, 1997.

SCOPE OF WORK

The scope of work performed by WAC during this period included the following tasks:

- Measuring static water levels in the monitoring wells;
- Purging and sampling groundwater from the monitoring wells at the site;
- Analyzing groundwater samples for total petroleum hydrocarbons as diesel (TPH-d), total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE);
- Maintenance and operation of a passive free-product recovery system; and
- Summarizing the site hydrologic conditions, groundwater quality, product recovery results, and recommendations for further site characterization.

GROUNDWATER SAMPLING

Sampling Methods

Three well casing volumes were purged from the monitoring wells on December 30, 1998. Field parameters including temperature, pH, conductivity, and turbidity were intermittently monitored during purging of the well. Groundwater was purged from the wells and samples were collected using disposable polyethylene bailers. Copies of the field monitoring well sampling logs are included in **Attachment A**. The samples were submitted under chain-of-custody control to McCampbell Analytical, Inc. (MAI), of Pacheco, California. The purged well-water is currently stored on-site in sealed, DOT approved, 55-gallon steel drums.

Groundwater Elevations

WAC's staff hydrologist measured the water levels in the monitoring wells on October 1, 1998 using an electronic water level indicator. The surveyed elevations and the field water level measurements were used to calculate the groundwater surface elevations at the site. The monitoring wells, which released pressure when opened, were exposed to atmospheric conditions for forty-five minutes to allow water levels to stabilize. The calculated groundwater gradient and flow direction for this event were 0.01 ft/ft, and southwest. Groundwater elevations for this and previous monitoring events are presented in Table 1. The locations of the monitoring wells and a depiction of the site groundwater elevation contours are shown in Figure 2.

Analytical Results

The groundwater samples were analyzed by MAI for gasoline and diesel using EPA Method 8015 (modified) and purgeable aromatic hydrocarbons (BTEX) and MTBE using EPA Method 8020. MAI is certified by the State of California to perform these analyses. The analytical laboratory results are summarized in **Table 2**. Copies of the analytical laboratory report and chain-of-custody documents are in **Attachment B**.

Gasoline and BTEX were not detected in the samples collected from monitoring wells MW-1 and MW-3 during this sampling event. These results are consistent with previous monitoring results. The analytical results of samples collected from monitoring well MW-2 reported gasoline at a concentration of 1000 μ g/L, and benzene at a concentration of 96 μ g/L.

MTBE was not detected in MW-1 using EPA method 8020. MTBE was reported at 370,000 μg/L in MW-2. MTBE was reported in MW-3 at 6.9 μg/L. The MTBE concentrations reported in all the wells were relatively unchanged compared to the same time period in 1997. Groundwater samples from the monitoring wells were analyzed for Oxygenated Volatile Organics [Di-isopropyl Ether (DIPE), Ethyl tert-Butyl Ether (ETBE), Methyl-tert Butyl Ether (MTBE, tert-Amyl Methyl Ether (TAME) and tert Butanol] using EPA 8260. MTBE was reported in MW-1 and MW-3 at concentrations

of 2.3 μ g/L and 4.5 μ g/L respectively. These concentrations are below the MCL for drinking water. The MTBE concentration reported for sample from MW-2 was 360,000 μ g/L.

FREE PRODUCT RECOVERY

WAC personnel have intermittently monitored free product in the recovery wells. Product has been recovered from a skimmer placed in recovery well RW-W. The results of the monitoring of the recovery wells are presented in **Table 3**. The recovered product is currently stored in a 55-gallon drum in a secure area of the site. Approximately 8.3 gallons of product have been collected since the installation of the skimmer.

WAC will perform product measurements and collection on a monthly basis until the product thickness is below capture thresholds. The product in recovery well RW-W was thinner than previous monitoring events.

CONCLUSIONS AND RECOMMENDATIONS

The groundwater flow direction is generally southerly, but ranges from southwest to southeast. The gradient interpretation assumes hydrologic continuity in the subsurface between the three wells at the site. The interpretation of gradient and flow direction on this site have been significantly influenced by water levels reported for monitoring well MW-3, although this was not the situation for this quarter. Additional monitoring wells and site investigation have been approved by the Alameda County Environmental Health Services. Water levels have been reported to respond to tidal fluctuations, although this has not been confirmed by WAC's field observations.

Diesel concentrations in groundwater have remained relatively consistent in monitoring well MW-2 and MW-3, and appear to be steadily increasing in MW-1. Gasoline and benzene concentrations have been relatively consistent, with concentrations below detection limits in monitoring well MW-1 and MW-3, and at the lowest levels since monitoring started in MW-2. MTBE concentrations in MW-2 remain extremely high and are unchanged since the last sampling event. The EPA method 8260 test was used as a quality control to verify the MTBE concentrations. Since the two types of EPA test were in agreement and no other oxygenates were identified, EPA method 8260 will not be used in future analyses.

Professional Certification

This report has been prepared by the staff of W.A. Craig, Inc., under the professional supervision of the persons whose seals and signatures appear hereon. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of quarterly monitoring and sampling and they are subject to change.

No. 01414

Craig, II

Principal

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity, and interpretation of available information as described in this report. W.A. Craig, Inc., recognizes that the limited scope of services performed in execution of this scope of work may not be appropriate to satisfy the needs, or requirements of other state agencies, or of other users. Any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of the user. There is no other warranty, either expressed or implied.

We appreciate this opportunity to be of service to you on this project. Should you have any questions regarding this report please call Tom Henderson at (707) 693-2929.

Sincerely,

W.A. Craig, Inc.,

David E. Conley, R.G. Senior Geologist

DEC:tth

Attachments: Table 1 - Groundwater Elevations

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Table 2 - Groundwater Sample Analytical Results

Table 3 - Product Recovery Summary

Figure 1 - Site Location Map

Figure 2 - Groundwater Elevation Contour Map

A - Groundwater Sampling Logs B - Laboratory Analytical Reports

cc: Larry Seto, Alameda County Department of Environmental Health

Table 1
Groundwater Elevation
1107 5th Street Oakland, California

		Top of Casing	Depth to Water	
Well Number	Date	(ft)	(ft)	Static Water Elevation
MW-1	10/21/96	3.84	5.08	-1.24
* * * * *	11/04/96	1	3.02	0.84
	03/04/97	1	2.28	1.56
	06/12/97	1	4.80	-0.96
- ,	07/14/97	1	2.66	1.18
	09/09/97	1 I	2.45	1.39
	09/19/97	1 1	2.60	1.24
•	02/13/98	i i	2.76	1.08
	07/07/98	1 1	2.15	1.69
	10/01/98	1	3.63	0.21
	12/30/98	1 1	4.40	-0.56
MW-2	10/21/96	4.48	4.66	-0.02
	11/04/96	1	4.60	-0.12
	03/04/97	1	3.68	0.80
	06/12/97	[3.70	0.78
	07/14/97		4.16	0.32
	09/09/97	· †	3.88	0.60
i	09/19/97		4.50	-0.02
	02/13/98		3.08	1.40
	07/07/98	F	3.74	0.74
	10/01/98		4.63	-0.15
	12/30/98		3.90	0.58
MW-3	10/21/96	4.81	7.66	-2.85
	11/04/96	` 	5.70	-0.89
	03/04/97	ļ <u> </u>	11.38	-6.57
	06/12/97	_	5.18	-0.37
1	07/14/97	·	7.96	-3.15
[09/09/97		10.16	-5.35
	09/19/97	·	12.80	-7.99
	02/13/98		11.42	-6.61
[07/07/98	Ī	11.76	-6.95
Ī	10/01/98	r	11.34	-6.53
	12/30/98		4.56	0.25
RW-W	06/13/97	5.26	3.11	2.15
Ī	07/14/97	T	7.96	-2.70
	09/09/97	Γ	not measured	not measured
	09/19/97		3.84	1.42
[02/13/97		not measured	not measured
[07/07/98		2.33	2.93
	10/01/98		3.21	2.05
	12/30/98		not measured	not measured
RW-E	06/13/97	4.65	2.88	1.77
	07/14/97		3.08	1.57
	09/09/97	Г	not measured	not measured
	09/19/97		3.40	1.25
	02/13/97		not measured	not measured
	07/07/98		2.82	1.83
	10/01/98		3.89	0.76
	12/30/98		not measured	not measured

Notes:

Monitoring wells elevations are based upon the
City of Oakland Datum #16NW15
Recovery well elevations surveyed by W.A. Craig, 6/12/97.

Table 2
Groundwater Sample Analytical Data
1107 5th Street, Oakland California

Data measured in micrograms per liter

				Aì	IALYTES (ug/L)		<u></u>	
							Ethyl-		MTBE**
Sample	Date	Diesel	TPH-g	MTBE	Benzene	Toluene	benzene	Xylenes	EPA 8260
MW-1	11/04/96	220	ND	ND	ND	ND	ND	ND	NA
	03/05/97	230	ND	ND	ND	ND	ND	ND	NA
	06/12/97	290	ND	ND	ND	ND	ND	ND	NA
	09/09/97	180	ND	ND	ND	ND	ND	ND	NA
	02/13/98	590	ND	9.4	ND	ND	ND	ND	NA
	07/07/98	1400	ND	ND	ND	ND	ND	ND	2.7
	10/01/98	1100	ND	ND	ND	ND	ND	ND	1.8
	12/30/98	1700	ND	ND	ND	ND	ND	ND	2.3
MW-2	11/04/96	2700	910	470,000	120	23	3.5	51	NA
	03/05/97	2300	4400	760,000	1500	51	24	100	NA
	06/12/97	2400	3600	840,000	1200	14	12	40	NA
	09/09/97	970	3700	470,000	570	31	19	60	NA
	02/13/98	2200	6500	750,000	2400	31	ND	ND	NA
	07/07/98	2700	5200	950,000	2800	ND	ND	ND	1,000,000
	10/01/98	1200	1200	420,000	330	12	8.8	11	360,000
	12/30/98	1900	1000	370,000	96	ND	ND	ND	360,000
MW-3	11/04/96	310	ND	1,000	ND	ND	ND	ND	NA
	03/05/97	210	ND	13	ND	ND	ND	ND	NA
	06/12/97	94	ND	17	ND	ND	ND	ND	NA
	09/09/97	2300	ND	12	ND	ND	ND	ND	NA
	02/13/98	570	ND	14	ND	ND	ND	ND	NA
	07/07/98	1100	ND	7.8	ND	ND	ND	ND	6.6
	10/01/98	390	МD	9.2	ND	ND	ND	ND	4.8
	12/30/98	64	ND	6.9	ND	ND	ND	ND	4.5
RW-W	06/12/97	51000	27000	58000	4000	360	860	7200	NA
	09/09/97	NS	NS	NS	NS	NS	NS	NS	NA
RW-E	06/12/97	31000	31000	32000	1900	3100	250	12000	NA
	09/09/97	NS	NS	NS	NS	NS	NS	NS	NA
California :	MCL	None Listed	None Listed	40*	1	150	680	1750	

Notes:

NA = Not Analyzed

ND = Not detected at the laboratorty reported limit of detection

NS = Not Sampled

MCL = Maximum Contaminant Level, Drinking Water Standards and Health Advisories Table, EPA document dated August, 1995.

*California Water Quality Goals-Organic Consituents, Human Health and Welfare, Marshak, September 1991.

**Results of the 8260 found DIPE, ETBE, TAME, and tert-Butanol as Non-detected

TABLE 3

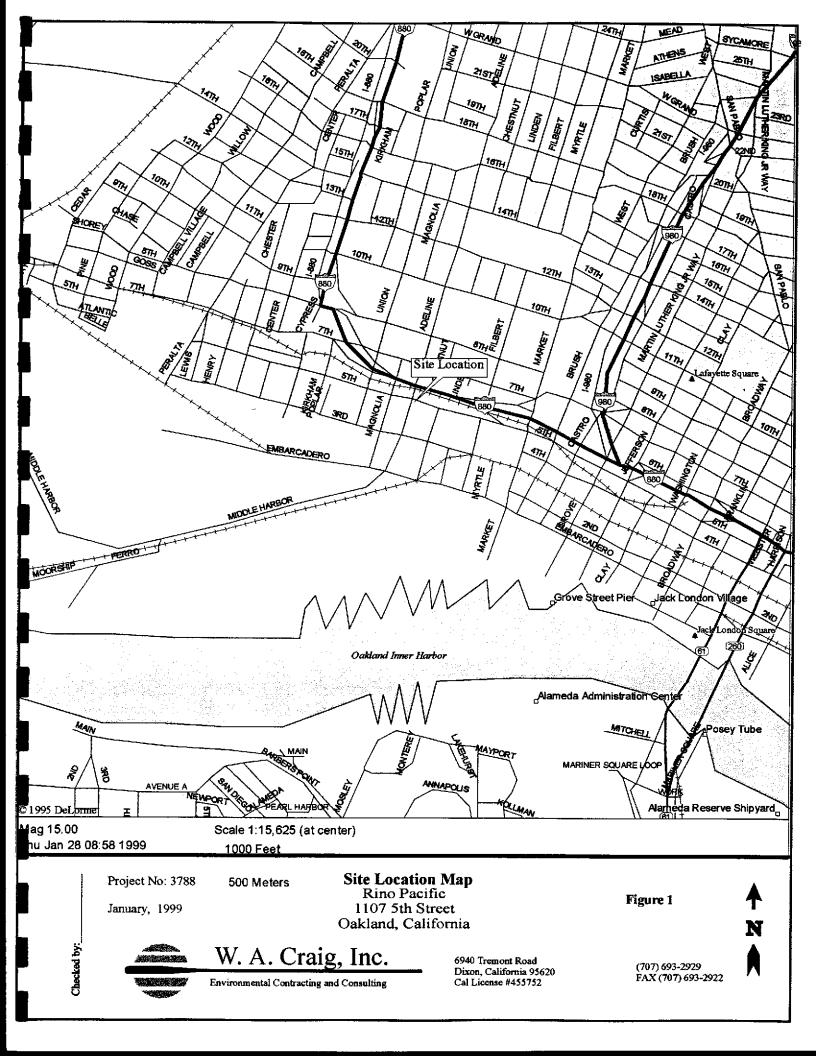
Product Recovery Summary 1107 5th Street Oakland California

			Product	Thickness /	Volume		1
			Product	Amount	Recovered	Product	;
Recovery	Data	D	Thickness	,			Observations &
Well	Date	Personnel	(inches)	Recovered	(ounces)	(gallons)	Comments
RW-W	03/07/97	R. Gentry	not measured	none	0	0.0	installed skimmer
	03/20/97	R. Gentry	not measured	none	0	0.0	repaired skimmer
	04/01/97	R. Gentry	0.2	full	47	0.4	
	04/25/97	G. Ratliff	0.2	full	94	0.7	
	04/29/97	G. Fiedler	0.2	full	141	1.1	
	04/30/97	G. Fiedler	0.2	half full	164	1.3	
	05/14/97	G. Fiedler	0.2	full	211	1.6	
	05/28/97	G. Fiedler	0.2	full	258	2.0	
	06/11/97	G. Fiedler	0.2	full	305	2.4	
	07/01/97	G. Fiedler	0.2	full	352	2.8	
	07/08/97	G. Fiedler	0.2	none	352	2.8	adjusted Skimmer
							normal skimmer
	07/14/97	K. Couch	0.2	full	399	3.1	operation
	07/23/97	G. Fiedler	0.2	full	446	3.5	,
	09/09/97	J. Smith	0.2	full	493	3.9	
	09/19/97	J. Smith	0.1	full	540	4.2	
	10/21/97	J. Smith	not measured	3/4 full	575	4.5	
	02/04/98	W.Cerrito	not measured	full	622	4.9	normal
	03/12/98	W.Cerrito	0.2	full	669	5.2	emptied skimmer
	03/27/98	W.Cerrito	0.2	full	716	5.6	skimmer adjusted
Ĺ	04/03/98	W Cerrito	0.1	half full	740	5.8	skimmer adjusted
	04/16/98	W.Cerrito	0.1	full	787	6.1	skimmer cleaned
	04/24/98	W.Cerrito	0.1	half full	810	6.3	screen cleaned
	04/30/98	W.Cerrito	not measured	none	810	6.3	as above
Ĺ	05/20/98	W.Cerrito	0	none	810	6.3	as above
	07/07/98	Henderson	0.1	none	810	6.3	skimmer adjusted
	10/01/98	Henderson	0.25	1.25 full	869	6.8	skimmer adjusted
[11/11/98	Henderson	0.25	full	916	7.2	skimmer adjusted
[11/18/98	Beebe	not measured	full	963	7.5	skimmer adjusted
	12/08/98	Beebe	not measured	full	1010	7.9	skimmer adjusted
	12/30/98	Beebe	0.2	full	1057	8.3	skimmer adjusted

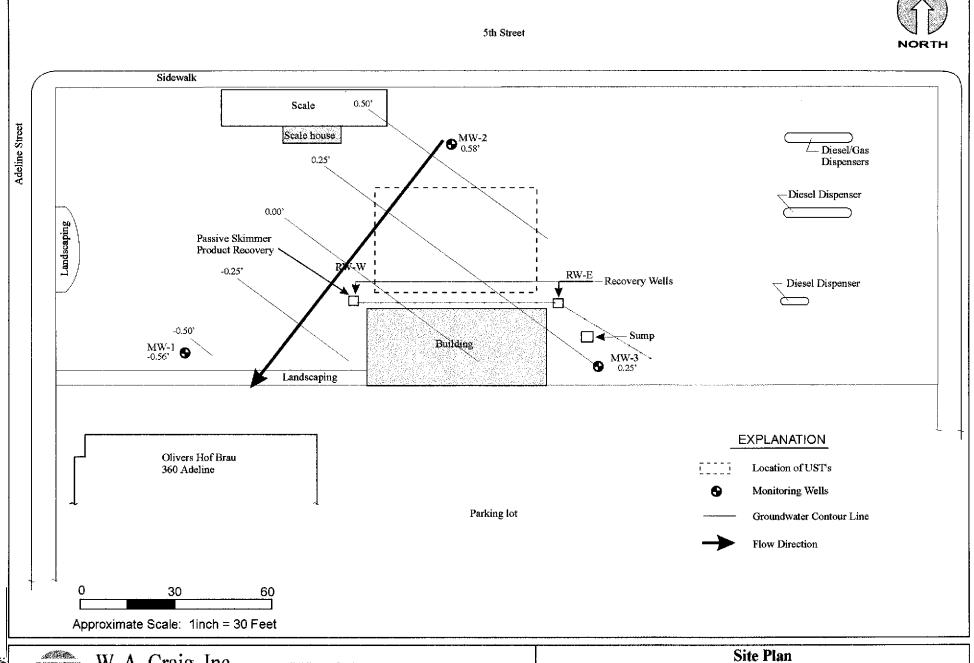
TABLE 3

Product Recovery Summary 1107 5th Street Oakland California

			Produ	ct Thickness / \	/olume		`
			Product	Amount	Recovered	Product	
Recovery Well	Date	Personnel	Thickness	Recovered	(ounces)	(gallons)	Observations & Comments
RW-E	03/07/97	R. Gentry	no product	none	0	0	no sheen- slight odor
	03/20/97	R. Gentry	not measured	none	0	0	as above
	04/01/97	R. Gentry	none	none	0	0	as above
	04/25/97	G. Ratliff	none	none	0	0	as above
	04/29/97	G. Fiedler	none	none	0	0	as above
	04/30/97	G. Fiedler	none	none	0	0	as above
	05/14/97	G. Fiedler	none	none	0	0	some blebs of product
	05/28/97	G. Fiedler	none	none	0	0	as above
	06/11/97	G. Fiedler	none	none	0	0	as above
	10/21/97	J. Smith	not measured	none	0	0	
	02/04/98	W Cerrito	not measured	none	0	0	sheen and odor present
	03/12/98	W.Cerrito	not measured	none	0	0	as above
	03/27/98	W.Cerrito	not measured	none	0	0	blebs of product observed
[04/03/98	W.Cerrito	0.1 inches	none	0	0	as above
	04/16/98	W.Cerrito	not measured	none	0	0	as above
	04/24/98	W.Cerrito	0.1 inches	none	0	0	blebs of product observed
	04/30/98	W.Cerrito	not measured	none	0	0	as above
	05/20/98	W.Cerrito	not measured	none	0	0	as above
	07/07/98	Henderson	not measured	none	0	0	as above
	10/01/98	Henderson	0.2 inches	none	0	0	thick product observed
	12/30/98	Beebe	0.2 inches	none	0	0	thick product observed
}				-			









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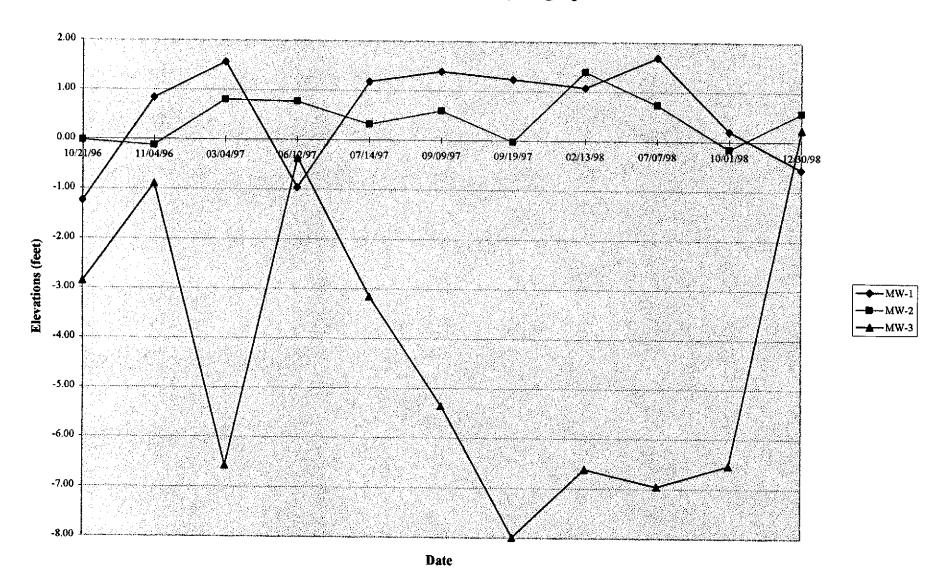
Project # 3628 January 1999

Site Plan Rino Pacific 1107 5th Street Oakland, CA

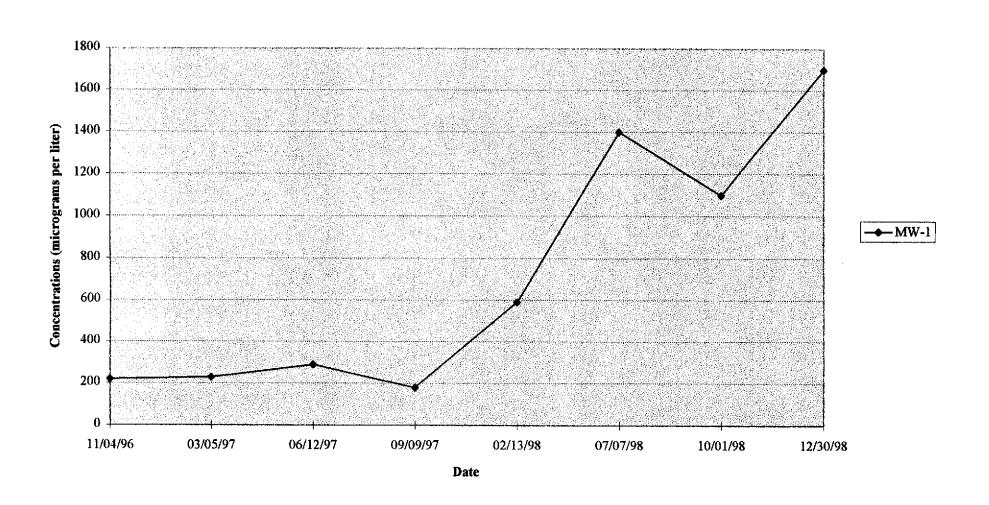
Figure 2

ATTACHMENT A MONITORING WELL SAMPLING LOGS AND GRAPHS

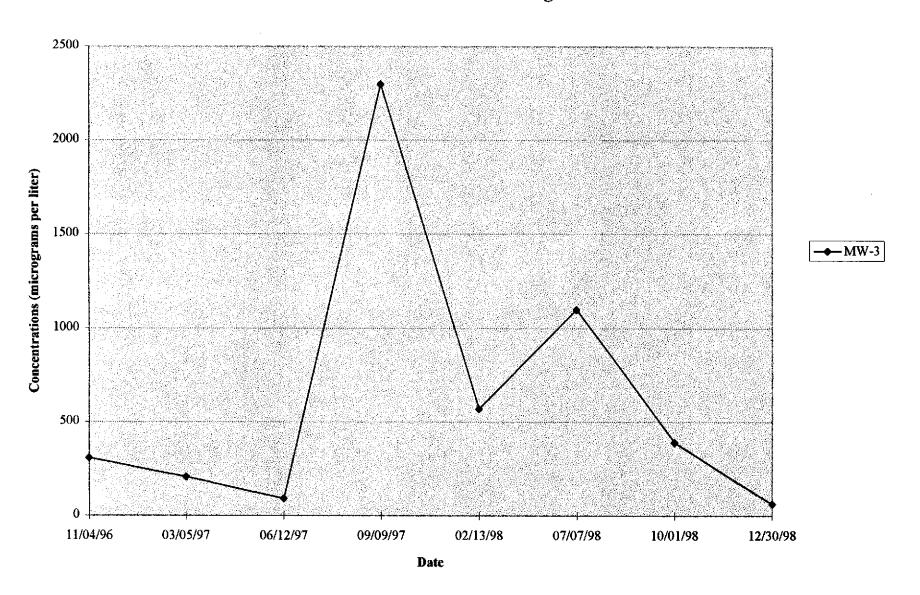
Monitoring Well Hydrographs



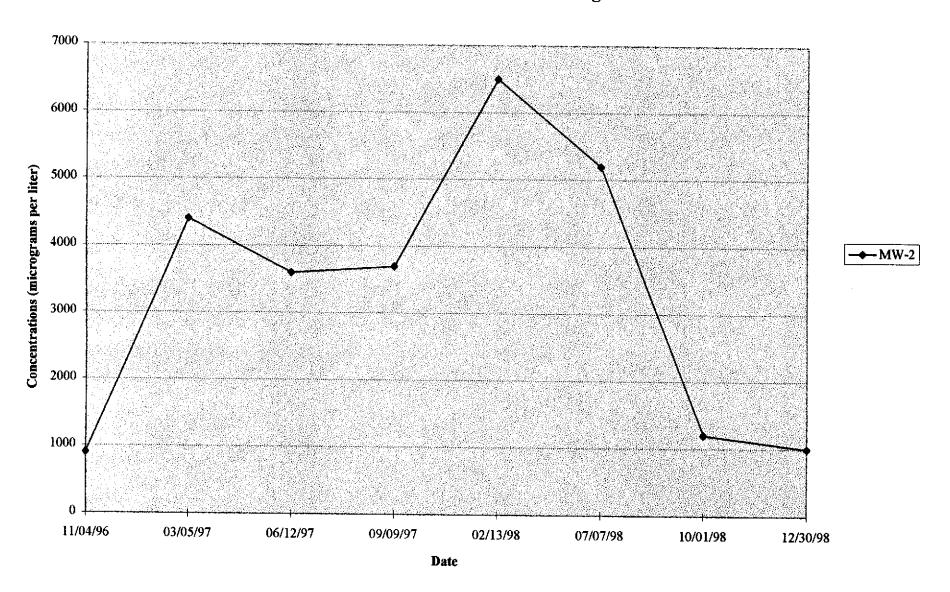
Diesel Concentrations in Monitoring Well 1



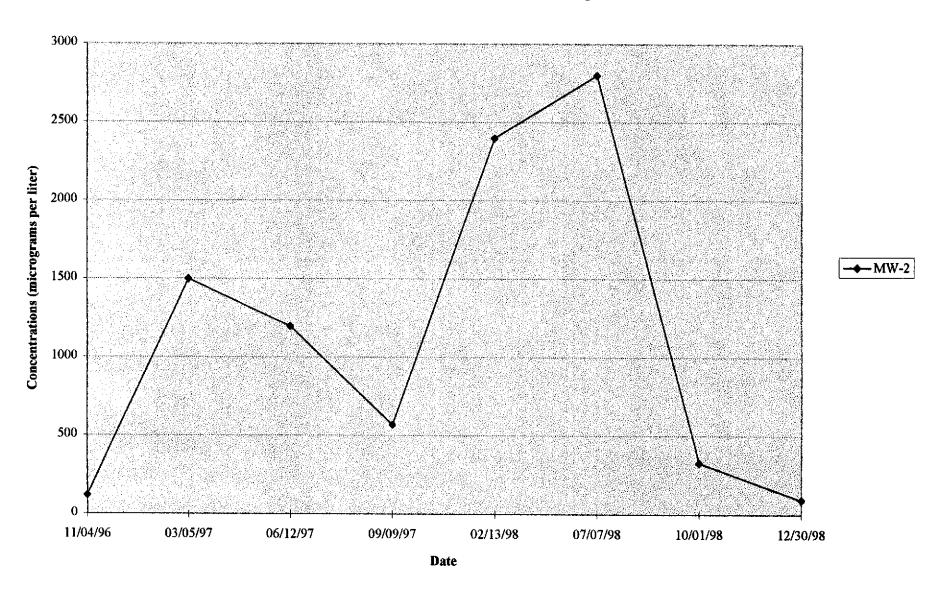
Diesel Concentrations in Monitoring Well 3



Gasoline Concentrations in Monitoring Well 2



Benzene Concentrations in Monitoring Well 2



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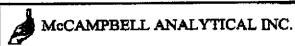
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Vell Dat	/- <u>/) (</u>		Casing Ele	vation		Depth to Wat	ter <u>#-56</u>	Groundwater El	
Vell Dat Total Depti	ta h of Well_ <i>j</i> _7.9 Purging Well_A	Kailer	Casing Ele			Depth to Wat Method of Sa	ter <u>#-56</u> ampling W	Groundwater Ei Vell	evation
Vell Dat Total Depti ethod of asing Vol	ta h of Well 12.9 Purging Well 4	Egile R	Casing Ele			Depth to Wat Method of Sa	ter <u>#-56</u> ampling W	Groundwater El	evation
Vell Date Total Deptilethod of asing Vol	ta th of Weil 12.9 Purging Well 2 lume 2.5 Vater Prior to Sa	Egile R	Casing Ele			Depth to Wat Method of Sa	ter <u>#-56</u> ampling W	Groundwater Ei Vell	evation
Vell Date Total Depth ethod of asing Vold Depth to Well Parish	ta h of Well /2-9 Purging Well /2 lume /2-5 Vater Prior to Sa	Spice R ampling	Casing Ele Volume Fa	actors: 2	?=0.166g/ft;	Depth to Wat Method of Sa ; 4"=0.653g/f フ. ろ	ter <u>#-56</u> ampling W ft; 6"=1.47	Groundwater El Vell_ 7g/ft; 8"=2.61g/ft	evation
Vell Date Total Deptilethod of asing Vol	ta h of Well 7-9 Purging Well 2 lume 2-5 Vater Prior to Sa rameters Volume (gal)	EgiceR ampling Temperature	Casing Ele		?=0.166g/ft;	Depth to Wat Method of Sa ; 4"=0.653g/f フ. ろ	ter <u>#-56</u> ampling W ft; 6"=1.47	Groundwater Ei Vell	evation
Vell Date Total Depth ethod of asing Vold Depth to Well Parish	ta h of Well /2-9 Purging Well /2 lume /2-5 Vater Prior to Sa	EgiceR ampling Temperature	Casing Ele Volume Fa	actors: 2	?=0.166g/ft;	Depth to Wat Method of Sa ; 4"=0.653g/f 7.5 Comments (c	ter <u>4-56</u> ampling W ft; 6"=1.47 color/odor	Groundwater El Vell_ 7g/ft; 8"=2.61g/ft	evation
Vell Date Total Deptilethod of asing Volume Volume Tield Pair	ta h of Well /2.9 Purging Well /2 lume /2.5 Vater Prior to Sa rameters Volume (gal) Begin purging	Equal Equation of the second o	Casing Ele Volume Fa SP 2.47 8.46	actors: 2	2"=0.166g/ft; Turbidity	Depth to Wat Method of Sa; 4"=0.653g/f	ter <u>4-56</u> ampling W ft; 6"=1.47 color/odor	Groundwater El Vell_ 7g/ft; 8"=2.61g/ft //sheen/product e	evation

mments:

WELL DEVELOPMENT AND SAMPLING LOG

Project	Name Prost	Theor		Job N	10.3628	Date /2:30-98	Weather weechs
mple	er <u>S. Berese</u>			_ =			
			•				
Well Da				_	_	Well No	umber_/n.w.5
otal Dep	pth of WellR-/		Casing El	Jevation	4	_ Depth to Water 390	Groundwater Elevation
Method of	of Purging Well_	Bruck			•	Method of Sampling V	Well
	Volume 249		_ Volume F	actors:			47g/ft; 8"=2.61g/ft; 12"=5.88g/ft
	Water Prior to S	jampling			<u> </u>	<u> </u>	
	arameters				* - a. f. atta. ,	* 1l-alada	
Time) Temperature	SP	pН	Turbidity	Comments (color/odo	r/sheen/product etc.)
	Begin purging		1	100	· · · · · ·		
11:40	3.0	58.9	2.65	7.09	VERY	YELLOW COLOR	-
11:50	7.5	61-1	303	7.14	K	X X	<u> </u>
6,00	+7.7	101-1	1500				<u> </u>
	+	 		+	 	f	
 -	 	1		+			
	, , , , , , , , , , , , , , , , , , ,			+	<u> </u>		
					<u> </u>		
Comments	S:				 -		
-							
*							
-							
Veil Data	<u> </u>					Well Nun	mhar
Total Depth			Casing Ele	ation			Groundwater Elevation
	Purging Well		789118 F.C	Nauci		Method of Sampling W	
asing Vol		•	Volume Fr	ectors: 7			7g/ft; 8"=2.61g/ft; 12"=5.88g/ft
	Vater Prior to Sa		/oranic		, -v.		
	rameters						
Time	Volume (gal)	Temperature	SP	Hall	Turbidity	Comments (color/odor/	/sheen/product etc.)
4 22 11 12	Volume (gal) Begin purging v	weil		1	14.4	/Olivinos	Siledis product,
		, ****					
		4					
		4					
					-		
							
							
-							
	L			<u></u>			
mments:	i						
_							

ATTACHMENT B LABORATORY ANALYTICAL RESULTS



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

W. A. Ci	raig, Inc.		Client Pr	oject ID: #	3628; Rcin	hardt	Date Samp	ed: 12/30/	98
	ment Road						Date Receiv	ved: 12/30/	98
Dixon, C	A 95620-960	3	Chent Co	ontact: Ton	n Henderso	n	Date Extrac	ted: 12/31/	/98
			Client P.	O:	,		Date Analys	zed: 12/31	-01/05/99
	ie Range (C6 ods 5030, modifie								& BTEX*
Lab ID	Client ID	Matrix	TPH(g) ⁺	мтве	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
01105	MW I	w	ND	ND	ND	ND	ND	ND	96
01106	MW 3	w	ND	6.9	ND	ND	ND	ND	107
01107	MW 2	w	1000,c	370,000	96	ND	ND	ND	103
1,									
					. -				
			 -						
		1 1	<u> </u>						

0.5

0.005

5.0

0.05

0.5

0.005

W

S

50 ug/L

1.0 mg/kg

0.5

0.005

0.5

0.005

Reporting Limit unless

otherwise stated; ND means not detected above

the reporting limit

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/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 (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.

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

W. A. Craig, l	Inc.	Chient Project	t ID: #3628; Reinhardt	Date Sampled: 12/3	0/98
6940 Tremont	Road			Date Received: 12/	30/98
Dixon, CA 95	620-9603	Client Conta	ct: Tom Henderson	Date Extracted: 12/	30/98
		Client P.O:		Date Analyzed: 12/	31-01/02/99
EPA methods mo	Diesel Ra	nge (C10-C23) r 3510: California I	Extractable Hydrocarbo tWQCB (SF Bay Region) method	ns as Diesel * i GCFID(3550) or GCFID(3	510)
Lab ID	Client ID	Matrix	TPH(d) ⁺		% Recovery Surrogate
01105	MW 1	w	1700,a		108
01106	MW 3	w	64 ,b		114
01107	MW 2	w	1900,a		109
	· · · · · · · · · · · · · · · · · · ·				
			<u> </u>		
	<u></u>			-	
Reporting Lir	nit unless otherwise	w	50 ug/L		
stated; ND mea	na not detected above porting limit	s	1.0 mg/kg		•

water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L.

^{*} cluttered chromatogram resulting in coefuted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

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 diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible shoen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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

W. A. Craig, Inc.	Client Project	Client Project ID: #3628; Reinhardt			Date Sampled: 12/30/98		
6940 Tremont Road	Client Contact: Tom Henderson			Date Received: 12/30/98 Date Extracted: 01/03/98			
Dixon, CA 95620-9603							
	Client P.O:			Date Analyzed: 01/03/98			
EPA method 8260 modified	Oxygenated Vo	olatile Organ	iles By GC/M	S			
Lab 1D	01105	01106	01107		,		
Client ID	MW 1	MW 3	MW 2		Reporting Limit		
Matrix	w	w	w		s	₩	
Compound		Concentration*			ug/kg	ug/L	
Di-isopropyl Ether (DIPE)	ND	ND	ND<5000		5,0	1.0	
Ethyl tert-Butyl Ether (ETBE)	ND	ΝD	ND<5000		5.0	1.0	
Mcthyl-tert Butyl Ether (MTBE)	2.3	4.5	360,000	11	5.0	1.0	
tert-Amyi Methyl Ether (TAME)	ND	ND	ND<5000		5.0	1.0	
tert-Butanol	ND	ND	ND<25,000		25	5.0	
	Surro	pate Recoveries	(%)				
Dibromofluoromethane	113	104	106			<u> </u>	
Commissionis:					1		

water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this snalysis

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/// Edward Hamilton, Lab Director

⁽h) higher than water immiscible sheen is present; (i) liquid sample that contains greater than -5 vol. % sediment; (j) sample diluted due to high organic content



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W. A. Craig, Inc.	Client Project ID: #3628; Reinhardt		Date Sampled: 12/30/98		
6940 Tremont Road		, , , , , , , , , , , , , , , , , , , ,	Date Received: 12/30/98		
Dixon, CA 95620-9603	Client Contact: Tom Henderson Client P.O:		Date Extracted: 01/03-01/06/99		
			Date Analyzed: 01/03-01/06/99		
	Vois	tile Organica By GC/MS			
EPA method 8260		•		<u>. </u>	
Lab ID Client ID	·	01106			
		MW 3			
Matrix		W			
Compound	Concentration*	Comp	ound	Concentration*	
Acctone (a)	ND<10,000	Lithylbenzene		ND<5000	
Benzene	ND<5000	Hexachlorobutadiene		ND<5000	
Bromobenzene	ND<5000	Iodornethane		ND<3000	
Bromochloromethane	ND<5000	Isopropy benzene		ND<3000	
Bromodichioromethane	ND<5000	p-isopropyl toluene		ND<5000	
Bromeform	ND<5000	Methyl butyl ketone (1)		ND<5000	
Bromomethane	ND<5000	Methylene Chloride ⁽⁸⁾		ND<10,000	
n-Butyl benzene	ND<5000	Methyl athyl lectone "		ND<5000	
sec-Butyl benzene	ND<5000	Mathyl isobutyl ketone (ND<5000	
tert-Hutyl benzene Carbon Disulfide	NO<5000	Methyl tert-Butyl Ether (MTBR)		_	
Carbon Tetrachionide	ND<\$000	Napibalene		ND<3000	
Chiombenzene	ND<5000	n-Propyl benzane		ND<\$000	
Chloroethane	ND<5000	Styrene (II)		ND<3000	
2-Chloroethyl Vinyl Ether (6)	ND<5000 ND<5000	1,1,1,2-Tetrachloroethane		ND<5000	
Chloroform		1,1,2,2-Tetrachloroethane		NID<5000	
Chloromethane	ND<5000 ND<5000	Tetrachioroethene		ND<20,000	
2-Chlorotoluene	ND<5000	Toluene (1)		ND<5000	
4-Chiorotoluene	ND<5000	1,2,3-Trichlorobenzene		MD<\$000	
Dibromochloromethane	ND<5000	1,2,4-Trichlorobenzene		ND<5000	
1.2-Dibromo-3-chloropropane	ND<5000	1,1,1-Trichloroethane		ND<5000	
Dibromomethane	ND<5000	1,1,2-Trichloroetharie Trichloroetharie		ND<5000	
1,2-Dichlorobenzene	ND<5000	Trichlorofluoromethene		ND<5000	
1.3-Dichlorobenzenc	ND<5000	1,2,3-Trichloropropage		ND<5000	
4-Dichlerobenzene	ND<5000	1,2,3-1 richiotopropage		ND<5000 ND<5000	
Dichlorodifluoromethane	ND<5000	1,3,5-Trimethy/benzene	·	ND<5000	
,1-Dichloroethane	ND<5000	Vinyl Acetate (III)		ND<5000	
2-Dichlorocthane	ND<5000	Vinyl Chloride (9)		ND<5000	
,1-Dichloroethene	ND<5000	Xylenes, total (87)		ND<5000	
is-I,2-Dichleroethene	ND<5000				
rans-1,2-Dichloroethene	NT><5000				
,2-Dichloropropune	ND<5000	1			
3-Dichloropropene	ND<5000				
,2-Dichloropropane	ND<5000	Commentation orting limits rais	ed due to high oxygenate cur	stent	
,I-Dichloropropene	ND<5000		gate Receveries (%)		
is-1,3-Dichioroproperie	ND<5000	Dibromofluoromethane	1	106	
rum-1,3-Dichkompropene	ND<5000	Toluene-d8		88	
thylene dibromide	ND<5000	4-Bromofluorobenzeze		86	

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L. Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L; solid and sludge samples 5 ug/kg; wipes 0.2 ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis (b) 2-proparione or directly lecture; (c) (2-chloroethoxy) ethers; (d) dichloroethoxic; (e) dichloroethoxic; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than -5 vol. % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this snalyte; (l) methylbenzene; (m) acetic acid othernyl ester; (n) chloroethone; (o) dimethylbenzenes.

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Edward Hamilton, Lab Director



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W. A. Craig, Inc.	Client Project ID: #3628; Reinhardt Client Contact: Tom Henderson		Date Sampled: 12/30/98		
6940 Tremont Road			Date Received: 12/30/98 Date Extracted: 01/03/99		
Dixon, CA 95620-9603					
ke di kacamatan di k Kacamatan di kacamatan di kacama	Chent P.O:	Client P.O:		1/03/99	
El'A method 8260	Vols	tile Organics By GC/MS			
Lab II)	······································				
Client ID		01107 MW 2	· · · · · · · · · · · · · · · · · · ·		
Matrix	· · · · · · · · · · · · · · · · · · ·	W Z			
		W			
Compound	Concentration*	Compo	und	Concentration*	
Acetone (e)	6.8	Ethylbenzene		ND	
Benzene	מא	Hexachlorobutadiene		ND	
Bromobenzene	ND	Iodomethane		ND	
Bromochloromethane	ND	Leopropyibenzene		ND	
Brosnodichloromethene	NO	p-laopropyl soluene		ND	
Bromoform	ďβ	Methyl butyl ketone (8)			
Вголюпейние	ND		Methylene Chloride ^(e)		
a-Bulyl benzene	ND	Methyl ethyl knione (f)		ND	
sec-Dutyl benzene	ND	Methyl isobutyl ketoric ¹⁸		ND	
tert-Butyl benzene	מא	Methyl pert-Butyl Ether (MTBE)			
Carbon Disulfide	ND	Nepthalone		ND	
Carbon Tetrachloride Chlorobenzene	ND	n-Propy) benzene		ND	
	ND	Styrene (4)		ND	
Chloroethane	ND	1,1,1,2-Tetrachkwoethune		ND	
2-Chloroethyl Vinyl Ether ⁽⁹⁾	ND	1,1,2,2-Tetrachloroothene		ND	
Chloroform	MD	Tetrachiorocthene		ND	
Chloromethane	ND	Toluene to		מא	
2-Chlorotoluene	ND	2,3-Trichlorobenzene		ND	
4-Chlorotoluene	ND	1,2,4-Trichlorobenzana		מא	
Dibromochloromethane	ND	l,l,l-Trichlomethane		ND	
1,2-Dibromo-3-chleropropene Dibromomethene	ND	1,1,2-Trichkwocthage		ND	
1.2-Dichlorobenzene	ND	Trichloroethene		ND	
3-Dichlerobenzene	ND	Trichlorofluoromethans		NĎ	
A-Dichlorobenzene	ND NB	1,2,3-Trichloropropens		ND	
Dichlorodifluoromethane	ND ND	1,2,4-Trimethylomisene		ND	
.1-Dichloroethme	ND ND	1,3,5-Trimethylbenzene		ND	
.2-Dichlomethane	ND ND	Vigyl Acetate (#)		ND	
1,1-Dichloroethene	ND CIN	Vinyl Chloride (4)		ND	
:is-1,2-Dichlorosthene	ND	Xylenes, total (e)		DM	
rans-1,2-Dichloroethens	ND ND				
,2-Dichloropropans	ND ND				
3-Dichloropropene	ND ND				
2-Dichloropropane	םא סא				
,1-Dichloropropene		Comments reporting limits raise	s case to ingh oxygenate cor	ntent	
is-1,3-Dichloropropens	ND ND	Surro	ats Recoveries (%)		
rans-1,3-Dichloropropone	ND ND	Dibromoduorumpthene		104	
diylene dibromide	ND	Tokuene-d8		94	
	70	4-Bromoffuorobenzene	[94	

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPI.P extracts in ug/L. Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L; solid and sludge samples 5 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyse not applicable to this analysis (b) 2-propanone or directly ketons; (c) (2-chlorocthoxy) attempt; (d) 2-hexanone; (e) (2-chlorocthoxy) attempt; (f) 1 institute analysis (f) 1 institute analysis (f) 1 institute analysis (g) 4-methyl-2-

pentaneous or tortestyl section; (c) (a-minimum) summe, (c) a-measure, (c) uniformization, (d) a-manage, (d) a-man



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W. A. Craig, Inc.	Client Project ID: #3628; Reinhardt		Date Sampled: 12/30/98		
6940 Tremont Road		ED. HOOLO, RECEIDING	Date Received: 12/30/98		
Dixon, CA 95620-9603	Client Contact: Tom Henderson		Date Extracted: 01/03-01/06/99		
	Client P.O:	•	Date Analyzed: 0	1/03-01/06/99	
	Vola	tile Organics By GC/MS			
LIPA method 8260					
Lab ID Client ID	· · · · · · · · · · · · · · · · · · ·	01105			
		MW 1			
Matrix		W		<u> </u>	
Compound	Concentration*	Compo	und	Concentration*	
Acetone (e)	22	Büryibenzene		ND	
Benzette	ND	Hexachlorobutadiene	· · · · · · · · · · · · · · · · · · ·	ND	
Bromobenzene	מא	Iodomethane	- 1,22	ND	
Bromochioromethane	מא	Isopropylbeniene		ND	
Bromodichloromethane	מא	p-Isopropyl toluene		DN	
Bromoform	ND	Mathyl butyl ketone 10		ND	
Bromomethaue	ND	Methylene Chloride ¹⁰		ND	
n-Butyl benzene	DM	Methyl ethyl kesone w		ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone is		ND	
tart-Butyl benzene Carbon Disulfule	ND	Methyl tert-Buryl Ether (MTBE)			
Carbon Tetrachloride	ND	Niphthaleno		ND	
Chlorobenzene	ND	n-Propy! benzene		ND	
Chloroethane	ND	Styrene (E)		ЙD	
2-Chloroethyl Vinyl Ether ^(c)	ND	1,1,1,2-Tetrachloroethane		ND	
Chloroform	ND	1,1,2,2-Tetrachloroethane		ND	
Chloromethene	ND ND	Tetrachloroethene Toluene (0)		ND	
2-Chiorotoluene				ND	
4-Chiorotoluene	ND ND	1,2,3-Trichlorobenzene		ND	
Dibromochloromethane	ND	1,2,4-Trichlorobenzene		ND ND	
1,2-Dibromo-3-chioropropene	D GR	1,1,1-Trichloroethane			
Dibromomethane	ND	1.1.2-Trichloroethane Trichloroethane		ND ND	
1,2-Dichlorobenzene	ND	Trichkrofluoromethane		ND	
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropase			
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	······································	ND ND	
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene		ND ND	
1,1-Dichloroethane	ND	Vinyl Acetate (%)		ND ON	
1,2-Dichlorocthane	ND ND	Vinyl Chloride (A)		ND ND	
1,1-Dichloroethene	ND	Xylenes, total (8)		ND	
ots-1,2-Dichloroethene	ND			4 74/	
trans-1,2-Dichloroethene	מא				
1,2-Dichloropropane	ND				
1,3-Dichleropropene	ND				
2,2-Dichloropropenc	ND	Comments:			
1,1-Dichloropropene	ND		pate Recoveries (%)		
cis-i,3-Dichloropropene	ND	Dibromofluoromethane	T	113	
trans-1,3-Dichloropropene	ND	Tolucne-d8		90	
Cthylene dibromide	ND	4-Bromofiuorobenzene		89	

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L; solid and sludge samples 5 ug/kg; wipes

0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or directly ketone; (c) (2-chlorosthoxy) ethnesses; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) figure sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high arganic content; (k) peaks present in this carbon range do not match the pettern of our standard for this contains. this analyte; (1) methylbensene; (m) acctic acid ethenyl ester; (n) chloroethene; (o) directhylbensenes.

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Edward Hamilton, Lab Director