DEPARTMENT OF TRANSPORTATION

BOX 23660 OAKLAND, CA 94623-0660 (510) 286-4444 TDD (510) 286-4454 00 MAR 13 PM 4: 24



March 9, 2000

Subject: Quarterly Groundwater Report for Vacant Parcel, located at the intersection of 6th and Castro Streets in Oakland, CA

Dear Mr. Peacock:

Enclosed please find a copy of the First Quarter 2000 Groundwater Monitoring Report for the subject site. If there are any questions, please contact Jill Pollock (510) 286-5638.

Sincerely,

HARRY Y. YAHATA District Director

By: Celia McCuaig

CELIA MCCUAIG
District Branch Chief
Office of Environmental Engineering

Attachments

cc: CM, file, chron

FIRST QUARTER 2000 GROUNDWATER MONITORING REPORT

TASK ORDER NUMBER 04-952137-ES CONTRACT NUMBER 43A0012

SIXTH AND CASTRO STREETS OAKLAND, CALIFORNIA

Prepared for

CALIFORNIA DEPARTMENT OF TRANSPORTATION
District 4
P.O. Box 23660
Oakland, California

Prepared by

Professional Service Industries 1320 West Winton Avenue Hayward, California 94545

(510) 785-1111

March 3, 2000 575-9G034

STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATIONS

Information provided in Professional Services Industries, Inc., (PSI) report number 575-9G034 is intended exclusively for the California Department of Transportation (Caltrans) for the evaluation of groundwater contamination as it pertains to the subject site. PSI is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official view or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation. The professional services provided have been performed in accordance with practices generally accepted by other geologists, hydrologists, hydrogeologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface investigations, there is no guarantee that the work conducted will identify any or all sources or locations of contamination.

This report is issued with the understanding that Caltrans is responsible for ensuring that the information contained in this report is brought to the attention of the appropriate regulatory agency. This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Frank R. Poss

Senior Hydrogeologist

Jeffrey Friedman, R.G. (5677)

JEFFREY A. FRIEDMA No. 5677

Senior Project Geologist

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1.0 INTRODUCTION

This report summarizes the results of the First Quarter 2000 groundwater monitoring activities conducted on February 7, 2000 at the intersection of 6th and Castro Streets located in Oakland, California. The subject site location is presented on Figure 1. The purpose of this project is to comply with quarterly sampling requirements for Alameda County Department of Environmental Health. This is the third quarter of groundwater monitoring conducted by PSI.

2.0 SITE HISTORY

The site is currently a vacant lot that is surrounded by Brush Street to the west, 7th Street to the north, Castro Street to the east, and 6th Street to the south. In 1987, ERM-West Consultants (ERM) conducted an environmental site assessment to identify any environmental concerns resulting from chemical hazardous waste generation at the site. Historical records searches indicated that the site has formerly been occupied by a number of businesses, most notably a gas station, an auto repair garage, Durham Farm Creamery, a machine shop, and a laundry facility. At least four underground storage tanks (USTs) were associated with the former gas station and dairy (IT, 1996). This service station was located at the intersection of 6th Street and Brush Street (Geocon, 1995).

ERM drilled seven soil borings at the site to collect soil samples for analyses. The results from the analyses of the soil samples identified up to 1.3 parts per million (ppm) ethylbenzene, 1.5 ppm toluene, and 7.9 ppm xylenes. The analytical results from groundwater samples collected during drilling had concentrations up to 0.5 ppb ethylbenzene, 0.3 ppb toluene, and 5 ppb total xylenes (ACHCSA, 1998).

In a 1995 investigation conducted by Geocon Environmental Consultants (Geocon), soil and groundwater samples were collected from seven additional locations. The results of the analyses of the soil samples identified up to 410 ppm lead and 8,000 ppm oil and grease. The results from two groundwater samples analyzed did not contain detectable concentrations of Total Petroleum Hydrocarbons as Gasoline (TPH-G); TPH as Diesel (TPH-D); and Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) (IT,1996).

In a 1996 investigation conducted by International Technology Corporation (IT), soil and groundwater samples were collected from 11 additional borings. The maximum concentration in the soil samples analyzed are presented below:

Total Petroleum Hydrocarbons as Gasoline (TPH-G)	1,100 ppm
Benzene	2.6 ppm
Toluene	34 ppm
Ethylbenzene	25 ppm
Total Xylenes	140 ppm

Total Lead 397 ppm

The maximum concentration in the four groundwater samples collected from the above referenced borings are the following:

Total Petroleum Hydrocarbons as Gasoline (TPH-G)	1,700 apb
Benzene	51 ppb
Toluene	200 ppb
Ethylbenzene	59 ppb
Total Xylenes	290 ppb
1,2 Dichloroethane	5.4 ppb

In a 1999 investigation completed by PSI, soil and groundwater samples were collected from 11 additional borings and three groundwater monitoring wells were installed. The maximum concentration in the soil samples analyzed are presented below:

Total Petroleum Hydrocarbons as Gasoline (TPH-G)	600 ppm
Benzene	0.2 ppm
Toluene	3.7 ppm
Ethylbenzene	17 ppm
Total Xylenes	67 ppm
Total Lead	1,700 ppm

The maximum concentration in the 14 groundwater samples analyzed are the following:

Total Petroleum Hydrocarbons as Gasoline (TPH-G)	58,000 ppb
Benzene	3,900 ppb
Toluene	3,700 ppb
Ethylbenzene	14,000 ppb
Total Xylenes	12,000 ppb
1,2 Dichloroethane	160 ppb

The petroleum hydrocarbon impacted soil and groundwater was primarily found in the southwestern corner of the site.

3.0 GROUNDWATER MONITORING ACTIVITIES

3.1 GROUNDWATER ELEVATION AND HYDRAULIC GRADIENT

On February 7, 2000, static groundwater elevations were measured in wells MW-1, MW-2, and MW-3 (Figure 2). The groundwater depths were measured using a groundwater interface probe. The average groundwater elevation increased 0.13 meters (0.42 feet) compared to last quarter. A summary of the depth to groundwater data collected during this monitoring event and previous monitoring events is presented in Table 1. Based on the groundwater data, the inferred groundwater flow direction beneath the site is to the south (Figure 2) with a hydraulic gradient of 0.007.

3.2 GROUNDWATER SAMPLING

Groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3. A duplicate sample of MW-3 was obtained and labeled MW-31. Prior to the collection of groundwater samples, the monitoring wells were purged of a minimum of three well volumes of water until pH, conductivity, and temperature stabilized. The wells were allowed to recover to at least 80 percent of their original static groundwater levels prior to sampling.

The following procedures for well monitoring, well purging, and water sampling were implemented while sampling the wells:

- 1. All equipment was washed prior to entering the well with an Alconox solution, followed by two tap water rinses and a deionized water rinse.
- 2. Prior to purging the wells, depth-to-water was measured using an Solinst groundwater interface probe to an accuracy of approximately 0.01 foot. The measurements were made to the top of the well casing on the north side.
- 3. Monitoring wells at the site were prepared for sampling by purging the well of approximately 3 well volumes of water using disposable Teflon bailers.
- 4. Water samples were collected with a single-use Teflon bailer after the well had been purged and water in the well had equilibrated to approximately 80 percent of the static water level. The water collected was immediately decanted into laboratory-supplied vials and bottles. The containers were overfilled, capped, labeled, and placed in a chilled cooler prior to delivery to the laboratory for analysis.

- Chain-of-custody procedures, including chain-of-custody forms, were used to document water sample handling and transport from collection to delivery to the laboratory for analyses.
- 6. Groundwater samples were delivered to the State-certified hazardous waste laboratory within approximately 48-hours of collection.
- 7. Purged water was contained in a DOT approved 55-gallon drum. The drum was labeled with the contents, date, well number, client name, and project number.

The groundwater monitoring purge logs are presented in Appendix A.

3.3 LABORATORY ANALYSIS AND RESULTS

The groundwater samples were submitted for analyses to Centrum Analytical of Redlands, California, a State of California certified hazardous waste analytical laboratory. The samples were analyzed for the following:

- EPA Method 413.2 Total Recoverable Petroleum Hydrocarbons (TRPH)
- EPA 8015 modified TPH-G;
- EPA 8015 modified Total Petroleum Hydrocarbons as Diesel (TPH-D);
- EPA 8260 Volatile Organic Compounds (VOCs).
- EPA 6010 Soluble Lead.

A summary of the laboratory results for groundwater samples is presented in Table 2. A copy of the laboratory reports and chain of custody records are presented in Appendix B. The following are the results of the groundwater sampling:

- TRPH was detected in Well MW-2 at 8.8 milligrams per liter (mg/L). This concentration
 is greater than the previous sampling result of 4.4 mg/L in Well MW-2.
- TPH-G was detected in Well MW-2 at 29 mg/L. This concentration is lower than the previous sampling result of 33 mg/L in Well MW-2.
- TPH-D was not detected in groundwater samples from the site this quarter. This is comparable to the previous sampling results.
- MTBE was not detected in groundwater samples from the site this quarter. This is comparable to the previous sampling results.
- Benzene was detected in Well MW-2 at 0.67 mg/L. This concentration is lower than the previous sampling result of 0.88 mg/L in Well MW-2.

- Toluene (4,800 ug/L), and Ethylbenzene (1,500 ug/L), were detected in well MW-2 at concentrations comparable to the previous sampling results. Total Xylenes (8,700 ug/L) in MW-2 had increased by approximately 45% over the previous quarter.
- Concentrations of gasoline related compounds isopropylbenzene (44 ug/L), naphthalene (620 ug/L), n-Propylbenzene (160 ug/L), 1,2,4 Trimethylbenzene (1,100 ug/L), and 1,3,5 Trimethylbenzene (320 ug/L) were detected in Well MW-2.
- 1,2 DCA (79 ug/L) was detected in MW-2 and was lower than the previous quarters result (110 ug/L). The common usage for this compound in a service station environment is as a brake and electrical parts cleaner.
- Soluble lead was not detected in groundwater samples from this quarter.

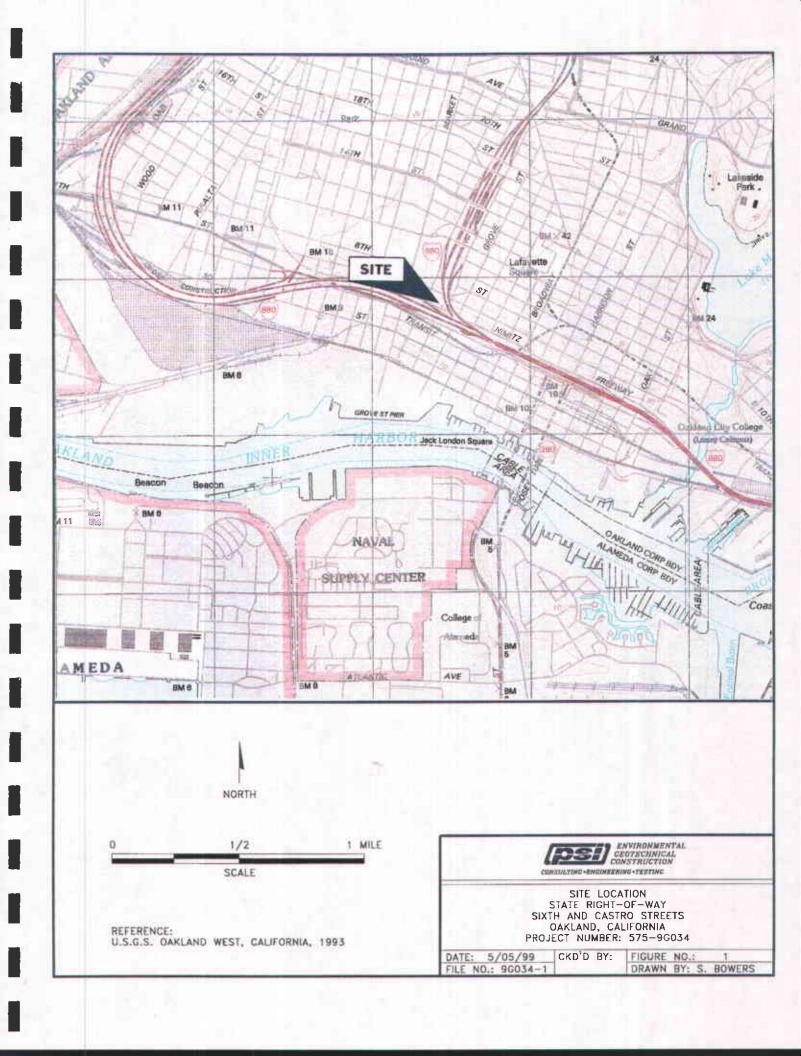
The State of California Primary Drinking Water Standards (PDWS) for benzene is 1 ug/L, toluene is 150 ug/L, ethylbenzene is 700 ug/L, total xylenes is 1,750 ug/L, and 1,2 DCA is 0.5 ug/L. The concentrations of BTEX and 1,2 DCA in the groundwater sample collected from Well MW-2 exceeded their respectable PDWS. The contaminants of concern were not detected in MW-1, MW-3 or the MW-3 duplicate (MW-31).

4.0 SUMMARY AND CONCLUSIONS

PSI performed a quarterly monitoring event on February 7, 2000. Groundwater samples were collected from the three monitoring wells with a duplicate obtained from MW-3 and labeled MW-31. Based on measurements collected and analytical data the following conclusions are provided. Groundwater elevation data indicates the groundwater flow direction beneath the site is towards the south, with a hydraulic gradient of 0.008 meter per meter (0.008 foot per foot).

- Average groundwater elevations is approximately 0.13 meters (0.42 feet) higher than the average groundwater elevation measured for the previous sampling event.
- TPH-D was not detected in groundwater samples this quarter.
- TPH-G was detected in the sample collected from Well MW-2 (29 mg/l).
- BTEX concentrations were detected in the sample collected from Well MW-2.
- The oxygenates MTBE, TBA, DIPE, ETBE, and TAME were not detected in the EPA Method 8260 analyses this quarter.
- Concentrations of the gasoline related compounds isopropylbenzene, naphthalene, n-Propylbenzene, 1,2,4 Trimethylbenzene and 1,3,5 Trimethylbenzene were detected in Well MW-2.
- 1,2 DCA was detected in MW-2 at 79 μg/l.
- The BTEX and 1,2 DCA concentrations are above their respective State of California Primary Drinking Water Standards.

PSI recommends continued groundwater monitoring at the site. Copies of this report should be provided to the appropriate regulatory agencies.



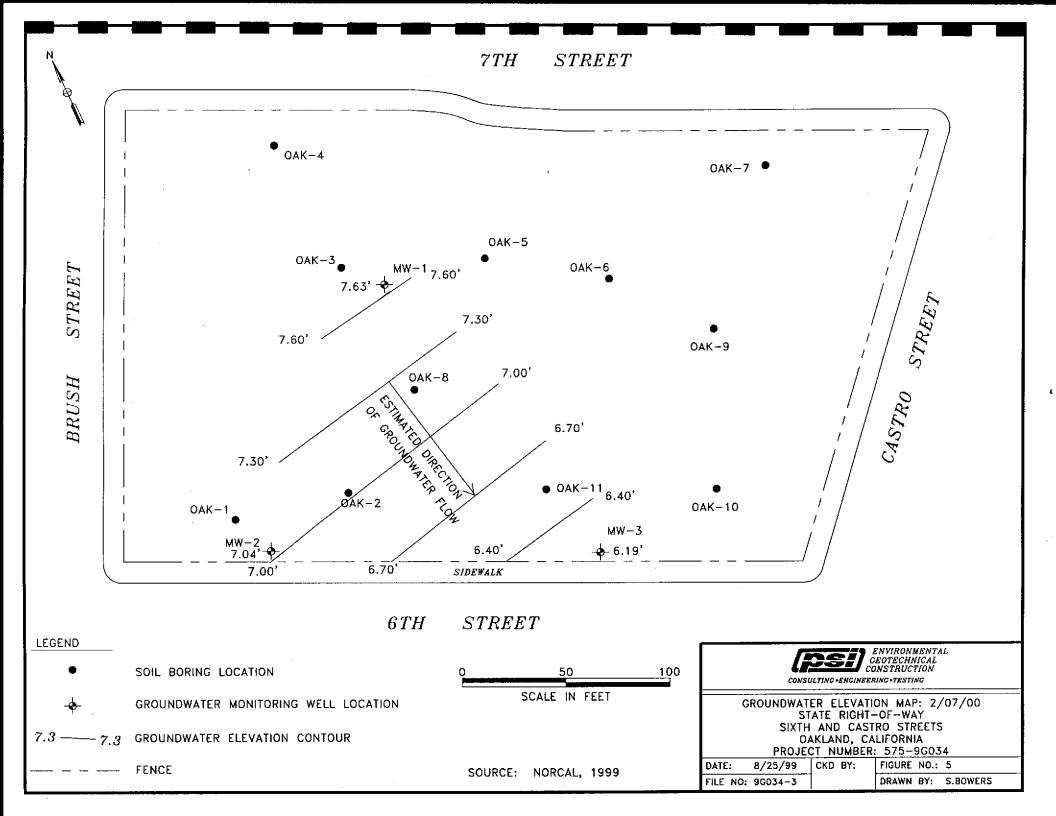


TABLE 2 SUMMARY OF GROUNDWATER ANALYTICAL DATA CALTRANS MAINTENANCE STATION 6TH CASTRO STREETS, OAKLAND, CA

	All concentrations in mg/l (PPM).													
SAMPLE NUMBER	DATE	OIL & GREASE	TPH-G	TPH-D	MTBE	Benzene	E-Benzene	Toluene	Xylenes	1,2, DCA	OTHER VOCs*	LEAD		
MW-1	7/2/99	ND (2.4)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		
MW-1	10/25/99	ND (2.0)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		
MW-1	2/7/00	ND (2.0)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		
MW-2	7/2/99	6.3	26	ND (4.0)	ND (0.001)	0.78	1.3	4.2	5.0	0.016	2.81	ND (0.10)		
MW-2	10/25/99	4.4	33	ND (0.4)	ND (0.050)	0.88	1.8	4.3	4.8	0.011	2.48	ND (0.10)		
MW-2	2/7/00	8.8	29	ND (0.4)	ND (0.050)	0.67	1.5	4.8	8.7	0.079	2.24	ND (0.10)		
MW-3	7/2/99	ND (2.3)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		
MW-3	10/25/99	ND (2.0)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		
MW-3	2/7/00	ND (2.0)	ND (0.5)	ND (0.4)	ND (0.001)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0015)	ND (0.0005)	ND*	ND (0.10)		

NOTES

Sample concentrations reported in mg/kg (milligram per kilogram).

TPH-G denotes Total Petroleum Hydrocarbons as Gasoline, TPH-D denotes Total Petroleum Hydrocarbons as Diesel.

MTBE denotes Methyl Tert Butyl Ether, E-Benzene denotes Ethylbenzene, VOCs* denotes Volatile Organic Compounds analyzed by EPA Method 8260.

ND denotes Not Detected, detection limit presented in parentheses.

ND* denotes all anaytes included in EPA Method 8260 analyte list not presented on this table, Not Detected.

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS CALTRANS MAINTENANCE STATION 6TH AND CASTRO STREETS, OAKLAND, CA

SAMPLE NUMBER	DATE	GROUND SURFACE ELEVATION	WELL CASING ELEVATION	DEPTH TO GROUNDWATER	GROUNDWATER ELEVATION
MW-1	7/2/99	23.74	26.85	19.89	6.96
MW-1	10/25/99	23.74	26.85	19.71	7.14
MW-1	2/7/00	23.74	26.85	19.22	7.63
MW-2	7/2/99	18.67	21.56	14.21	7.35
MW-2	10/25/99	18.67	21.56	15.38	6.18
MW-2	2/7/00	18.67	21.56	14.52	7.04
MW-3	7/2/99	19.60	21.04	14.57	6.47
MW-3	10/25/99	19.60	21.04	15	6.04
MW-3	2/7/00	19.60	21.04	14.85	6.19

NOTES:

All elevation and depth data presented in feet.

WELL PURGING AI	O SAMP	LING	DATA
------------------------	--------	------	------

							WELL NO	: (MM-1	
ATE: 2 -	1-00 F	ROJECT	NAME: (ALTRA	NS C+	~ + CASTR	PROJEC	TNO: 96034	
VEATHER	CONDITIO	NS:							
VELL DIAM	METER (IN	.)	<u> </u>	2 2	4	□ 6 [OTHER _		-
AMPLE T	YPE:	GROUND	WATER	☐ WASTE	WATER	SURFA	CE WATER	OTHER	
VELL DEP	тн (тос)	2	3,25	FT.	DEPTH 1	O WATER	BEFORE P	PURGING (TOC) /	9,22 FT.
ENGTH C	F WATER	1	1.03	FT.	CALCUL	ATED ONE	WELL VOL	LUME1: ,69	GAL.
PURGING	DEVICE:				DEDIC	ATED =	DISPOSAB	LE DECONTAM	IINATED
SAMPLING	3 DEVICE:				DEDIC	ATED	DISPOSAB		
_	ECON. CONOX WA QUINOX WA	sH [/ASH ION 1 RINSE ION 2 RINSE			_	ANALYTE FREE FIN. DIST/DEION FINAL F SE AIR DRY	4
CONTAIN	ER PRESE	RVATION	: 🖀 LAB	PRESERVE	FIELD	PRESERVE	ĒD		
WATER A	NALYZER	MODEL &	SERIAL N	O:					
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP □ °F ∑c°C	SPECIFIC CONDUCT.	рН	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	REMARKS (EVIDENT ODOR, CO	
1045	INITIAL	19.9	1047	7.15			-		
1050	1.2	18.7	1038	6.72					-
1052	2.4	18.6	1053	6.71					<u> </u>
1054	3.6	18.5	1064	6.67					
						<u> </u>			
	-								
									····
DEPTH	TO WATER	R AFTER F	PURGING (гос)	FT.	SAMPLE	FILTERED	YES NO S	SIZE
NOTES:					SAMPLE	TIME:	00	ID# MW-	- /
					DUPLICA	TE 🗌	TIME:	ID#:	
				· · · ·	EQUIP. E	LANK: 🗌	TIME:	ID#:	
					PREPAR	ED BY:			

PSI 1 A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIP Rev. 12/95

WELL PURGING AND SAMPLING DATA

							WELL NO	D:	2
ATE: Z	17	PROJECT	NAME: (oth 8 ((ast	vo	PROJEC	T NO:	46034
VEATHER	CONDITIO	ONS:							
VELL DIA	METER (IN	l.)	<u> </u>	2	☐ 4	□ 6 [OTHER		
SAMPLE T	YPE:	GROUND	WATER	WASTE	WATER	SURF	ACE WATER	≀ 📋	OTHER
VELL DEF	тн (тос)	22	73	FT.	DEPTH :	TO WATER	BEFORE	PURGI	NG (TOC) 14.52 FT.
ENGTH (OF WATER	8.	21	FT.	CALCUL	ATED ONE	WELL VO	LUME ¹	: 1,39 GAL
PURGING	DEVICE:				DEDIC	ATED 🇯	DISPOSAE	BLE [DECONTAMINATED
SAMPLING	3 DEVICE:				DEDIC	ATED T	DISPOSAL	BLE [DECONTAMINATED
	ECON. CONOX WA QUINOX WA	ısh [=	VASH ION 1 RINSE ION 2 RINSE		ISOPROPAI OTHER SOI TAP WATEI	VENT	DIST/DI	TE FREE FINAL RINSE EION FINAL RINSE AIR DRY
	ER PRESE	•		PRESERVED		PRESERVI	ED		
			SERIAL N	O:		<u> </u>			
ACTUAL TIME (MIN)	CUMUL. VOLUME PURGED (GAL)	TEMP □ °F □ °C	SPECIFIC CONDUCT.	рН	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR CL=CLEAR CO=CLOUDY TU=TURBID	(EVIC	REMARKS DENT ODOR, COLOR, PID)
0935	INITIAL	13.1	000	6.88			-	SME	115 like 99501. Ac
0 940	1.4	18.3	881	6.73					· .
0950	2.0	18.6	939	6.51					
1) 955	4.2	19.7	966	6.41			·		
						<u></u>			
	-								<u> </u>
							<u> </u>	ļ	
, <u></u>									
							<u> </u>		
	<u> </u>							1	
DEPTH 1	O WATER	AFTER P	URGING (1	roc)	FT.	SAMPLE	FILTERED		S NO SIZE
NOTES:					SAMPLE	TIME:	1009	_	1D# MW-2
					DUPLICA	TE 🗌	TIME:		ID#:
					EQUIP. B	LANK: 🗌	TIME:		ID#:
					PREPARI	ED BY:			

PSI 1 A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA. PIPE 0.17 GAL IN 2" DIA PIPE 0.65 GAL IN 4" DIA PIPE 1.5 GAL IN 6" DIA PIP Rev. 12/95

WELL PURGING AND SAMPLING DATA

							WELL NO	o: MW-3		
DATE: 2-	7-00	PROJECT	NAME: _	ALTRA	NS 6	+ CASTRO	PROJEC			
WEATHER	CONDITIO	DNS: ¿	JARM,	PTLY CL	ΟΥ					
WELL DIA	METER (IN	.)	<u> </u>	a 2	<u> </u>	<u> </u>	OTHER			
SAMPLE 1	YPE:		WATER	☐ WASTI	EWATER	SURF.	ACE WATER	₹ ☐ OTHER		
WELL DEPTH (TOC) 22.41 FT. DEPTH TO WATER BEFORE PURGING (TOC) 14.85 FT.										
LENGTH OF WATER 7.56 FT. CALCULATED ONE WELL VOLUME 1: 1,28 GAL										
PURGING DEVICE: DEDICATED 🔂 DISPOSABLE 🗌 DECONTAMINATED										
SAMPLING DEVICE: DEDICATED DECONTAMINATED										
EQUIP. D		— .	P WATER V		=	ISOPROPA		ANALYTE FREE FINAL RINSE		
	CONOX WA	_	_	ION 1 RINSE	_		_VENT R FINAL RIN	DIST/DEION FINAL RINSE		
	UINOX WA			ION 2 RINSE PRESERVEI				ISE MIR DRY		
	NALYZER					TREGERA	_			
ACTUAL TIME	CUMUL. VOLUME	TEMP □°F	SPECIFIC CONDUCT.	pН	DISS. OXYGEN	TURBIDITY (NTUs)	WATER APPEAR	REMARKS (EVIDENT ODOR, COLOR, PID)		
(MIN)	PURGED	₹ %	50,15551.		571 SE1	(14.55)	CL=CLEAR	(2,		
	(GAL)						CO=CLOUDY TU=TURBID			
1120	INITIAL	18.9	706	8.27						
1130	7.52	18 18	724	6.40	· ·					
1132	3.80	18.8	719	647						
1/35	5.08	18.3	710	6.38						
136	600	18.8	708	6.35						
			<u> </u>							
]	<u> </u>						
	O WATER	AFTER P	URGING (T	OC)	FT.	1		YES NO SIZE		
NOTES:					SAMPLE 1		/40	1D# MW-3		
					DUPLICA	 _		50 ID#: MW 31		
					EQUIP. B		TIME:	ID#:		
					PREPAR	ED BY:				

PSI : A 1 FOOT LENGTH OF WATER = 0.05 GAL IN 1" DIA, PIPE | 0.17 GAL IN 2" DIA PIPE | 0.65 GAL IN 4" DIA PIPE | 1.5 GAL IN 6" DIA PIP Rev. 12/95

FLUID MEASUREMENT FIELD DATA

							SHEET:	OF
DATE: 2-7	- 00	PROJECT NAME:	CALTRAN	15 61n + C	ASTRU	PROJECT NO:	96034	
	MEASUREMENT INS				1	SERIAL NO:		
PRODUCT DETE	CTION INSTRUMEN	SERIAL NO:						
EQUIP. DECON:	☐ ALCONOX	REE FINAL RINSE	☐ TAP WATER FI					
☐ TAP WA		☐ DIST/DEION		☐ AIR DRY				
WELL NUMBER	GROUND SURFACE ELEVATION	TOP OF CASING ELEVATION	DEPTH TO PRODUCT BELOW TOC	DEPTH TO WATER BELOW TOC	WELL DEPTH BELOW TOC	PRODUCT THICKNESS	WATER TABLE ELEVATION	ACTUAL TIME
mw-1				19,22	23.25		7.63	0905
mw-3				4.85	22.41'		6.19	0912
M W-2				14.52	22.73		7,04	0915
				- V V				
						-		

<u>. </u>		· -						
		-						
					<u></u>			
					<u> </u>			
				<u> </u>		DDF04050 51/-	<u> </u>	l
GENERABER TO CO	DRRECT PRODUCT T	HICKNESS FOR DENS	SITY BEFORE CALC	ULATING WATER TAI	BLE ELEVATION	PREPARED BY:		



Centrum Analytical Laboratories, Inc.

CERTIFIED HAZARDOUS WASTE TESTING LABORATORY • CHEMICAL AND BIOLOGICAL ANALYSES

Client:

PSI

1320 W. Winton Ave.

Hayward, CA 94545

Date Sampled:

02/07/00

Date Received:

02/08/00

Job Number:

15992

Project: CalTrans 6th & Castro

CASE NARRATIVE

The following information applies to samples which were received on 02/08/00:

The samples were received at the laboratory chilled and sample containers were intact.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested.

Robert R. Clark, Ph.D. Laboratory Director

ELAP # 1184

DL: Detection Limit - The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND: Not Detected - The compound was analyzed for but was not found to be present at or above the detection limit.

NA: Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



Centrum Analytical Laboratories, Inc.

CERTIFIED HAZARDOUS WASTE TESTING LABORATORY • CHEMICAL AND BIOLOGICAL ANALYSES

Client: PSI

1320 W. Winton Ave.

Hayward, CA 94545

Date Sampled:

02/07/00

Date Received:

02/08/00

Job Number:

15992

Project: CalTrans 6th & Castro

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Report approved by:

Robert R. Clark, Ph.D. Laboratory Director

ELAP # 1184

DL: Detection Limit -- The lowest level at which the compound can reliably be detected under normal laboratory conditions.

ND: Not Detected - The compound was analyzed for but was not found to be present at or above the detection limit.

NA: Not Analyzed -- Per client request, this analyte was not on the list of compounds to be analyzed for.



Lead By ICP

Client: PSI

Project: CalTrans 6th & Castro

Job No.: 15992 Matrix: Water Analyst: RLB Date Sampled: 02/07/00
Date Received: 02/08/00
Date Digested: 02/08/00

Date Analyzed: 02/08/00

Batch Number: 6010W1468

Method Number: 6010

	Detection Limit	Lead
Sample ID	mg/L	mg/L
Method Blank	0.1	ND
MW-1	0.1	ND
MW-2	0.1	ND
MW-3	0.1	ND

QC Sample Report - Metals

Matrix: Water

Batch #: 6010W1468

Batch Accuracy Results

Compound	Spike Concer mg/L	% Recovery I	Acceptance Limits % Recovery	Pass/Fail
	Concentration	SOT	imits	-

Analytical Notes:						
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Batch Precision Results

MS/MSD Sample ID: 15981-35

Compound	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Lead	1.011	0.963	5%	20%	Pass

MS:	Matr	x Spi	ke S	ample	
MSE): Ma	trix S	pike	Duplica	t

Analytical Notes:					
-					
-					
,					



EPA 413.2 - Oil & Grease

Client: PSI

Project: CalTrans 6th & Castro

Job No.: 15992 Matrix: Water Analyst: JL Date Sampled: 02/07/00 Date Received: 02/08/00 Date Extracted: 02/11/00 Date Analyzed: 02/11/00 Batch Number: 4132W1142

	Detection Limit	Total Oil & Grease
Sample ID	mg/L	mg/L
Method Blank	2.0	ND
MW-1	2.0	ND
MW-2	2.0	8.8
MW-3	2.0	ND ,
		- 수설하다 나마프, 사상하다보는 네



QC Report - EPA 413.2 Oil & Grease

Matrix: Water

Batch #: 4132W1142

Batch Accuracy Results

1	Analytic	al Not	es:		
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Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Spike Sample

Recovery mg/kg

Relative Percent

Difference (RPD)

Pass/Fail

Reference Oil

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

10.80

MS: Matrix Spike Sample
MSD: Matrix Spike Duplicate

Analytical Notes:					
· - · · ·	-				



Modified 8015 - Total Extractable Petroleum Hydrocarbons as Diesel

 Client:
 PSI
 Date Sampled:
 02/07/00

 Project:
 CalTrans 6th & Castro
 Date Received:
 02/08/00

 Job No.:
 15992
 Date Extracted:
 02/09/00

 Matrix:
 Water
 Date Analyzed:
 02/09-10/00

 Analyst:
 CP
 Batch Number:
 8015DW1844

			the state of the s
	Detection Limit	Diesel	Surrogate (OTP)
Sample ID	mg/L	mg/L	Limit: 50 - 150%
Method Blank	0.40	ND	87 %
MW-1	0.40	ND	97 %
MW-2	0.40	ND	96 %
MW-3	0.40	ND	109 %
ia Talait varterilijä jä Gatekor			

^{*}The chromatographic pattern displayed by this sample indicates the presence of petroleum hydrocarbons lighter than diesel. The concentration of petroleum hydrocarbons has been quantitated against diesel and reported here as diesel.



QC Sample Report - EPA 8015M Diesel

Matrix: Water

Batch #: 8015DW1844

Batch Accuracy Results

Analyte Diesel	Spike Cor mg/L	% Recovery	Acceptance Limits % Recovery	Pass/Fail
	Concentration	ry LCS	e Limits ry	

Analy	Analytical Notes:						
-							
					,		
		٠					
ļ							

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Diesel	0.63	0.62	2%	25%	Pass

MS:	Matrix	Spike	Sample
MSE)· Matri	x Spik	e Duplicati

Analytical Notes:						
i:						



Modified 8015 - Total Volatile Hydrocarbons as Gasoline

Client: PSI

Project: CalTrans 6th & Castro

Job No.: 15992 Matrix: Water Analyst: TPW Date Sampled:

02/07/00

Date Received:

02/08/00

Date Analyzed: Batch Number:

02/09-10/00 8015GW2506

	Detection Limit	Petroleum Hydrocarbons as Gasoline	s
Sample ID	mg/L	mg/L	
Method Blank	0.5	ND	
MW-1	0.5	ND	
MW-2	0.5	29	
MW-3	0.5	ND	
MW-31	0,5	ND	
			en e
			. 41. 41. 411 #11분명 중요한 중 -
		d terreten terrete i i i i i i i i i i i i i i i i i i	
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	#849000 #1246 * 17 art Judiae 17 #84-	#PARAMONE NEEDELANGE EEE EEU DE	. William

QC Sample Report - EPA 8015M Gasoline

Matrix: Water

Batch #: 8015GW2506

Batch Accuracy Results

	Spike Concentration mg/L	Recovery LCS	ceptance Limits Recovery	Pass/Fail
Analyte	Spik mg/L	%	A %	G g
Gasoline _	10.0	113	70 - 130	Pass

Analytical Notes:

Batch Precision Results

MS/MSD Sample ID: 15996-4

Analyte	Spike Sample Recovery mg/L	Spike Duplicate Recovery mg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
Gasoline	10.14	9.50	7%	25%	Pass

	Analytical	Notes:	
	•		
1			
	'		

MS: Matrix Spike Sample MSD: Matrix Spike Duplicate



Client:

PSI

Project:

CalTrans 6th & Castro

Job No.:

15992

Matrix:

Water

Analyst:

GR

Date Sampled:

02/07/00

Date Received:

02/08/00

Date Analyzed:

02/08-09/00

Batch Number: 8260W2004

	Sample ID:	Blank	MW-1	MW-3	MW-31	
Compounds	DL	μg/L	μg/L	μg/L	μg/L	
Acetone	50	ND	ND	ND	ND	
tert-Amyl Methyl Ether (TAM	E) 5.0	ND	ND	ND	ND	
Benzene	0.5	ND	ND	ND	ND	
Bromobenzene	1.0	ND	ND	ND	ND	
Bromochloromethane	1.0	ND	ND	ND	ND	
Bromodichloromethane	0.5	ND	ND	ND	ND	
Bromoform	0.5	ND	ND	ND	ND	
Bromomethane	0.5	ND	ND	ND	ND	
tert-Butanol (TBA)	50	ND	ND	ND	ND	
2-Butanone (MEK)	10	ND	ND	ND	ND	
n-Butylbenzene	0.5	ND	ND	ND	ND	
sec-Butylbenzene	0.5	ND	ND	ND	ND	
tert-Butylbenzene	0.5	ND	ND	ND	ND	in and the control of
Carbon disulfide	10	ND	ND	ND	ND	
Carbon tetrachloride	0.5	ND	ND	ND	ND	and the second s
Chlorobenzene	0.5	ND	ND	. ND	ND	
Chloroethane	0.5	ND	ND	ND	ND	
Chloroform	0.5	ND	ND	ND	ND	
Chloromethane	0.5	ND	ND	ND	ND	an their either either either either either either bertheil van de staten either either either either either e
2-Chiorotoluene	0.5	. ND	ND	ND	ND	
4-Chlorotoluene	0.5	ND	ND	ND	ND	Anthroperation of the statement of the statement
Dibromochloromethane	0.5	ND	ND	ND	ND	
1,2-Dibromoethane	0.5	ND	ND	ND	ND	i sesses e la responsa viva de la responsa de la responsa de la responsa de la responsa de la composición de l La responsa de la re
1,2-Dibromo-3-chloropropar	ie 10	ND	ND	ND	ND	utera batero de la comencia de la come Controla de la como como de la comencia de la come
Dibromomethane	0.5	ND	ND	ND	ND	 A control of the contro
1,2-Dichlorobenzene	0.5	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.5	ND	ND	ND	ND	ann ann an
1,4-Dichlorobenzene	0.5	ND	ND	ND	ND	
Dichlorodifluoromethane	0.5	ND	ND	ND	ND	140 (C. 100)
1,1-Dichloroethane	0.5	ND	ND	ND	ND	
1,2-Dichloroethane	0.5	ND	ND	ND	ND	i se sel de la Resilla (1991) i Premi i i i i di i e i i i i i i e addita. I
1,1-Dichloroethene	0.5	ND	ON	ND	ND	
cis-1,2-Dichloroethene	0.5	ND	ND	ND	ND	
trans-1,2-Dichloroethene	0.5	ND	ND	ND	ND	
1,2-Dichloropropane	0.5	ND	ND	ND	ND	
1,3-Dichloropropane	0.5	ND	ND	ND	ND	1.603.45.4 <u>4</u> .7.66
2,2-Dichloropropane	0.5	ND	ND	ND	ND	Albasia naamaa la 1941. Luulinga. Luuringa
1,1-Dichloropropene	0.5	ND	ND	ND	ND	



Client:

PSI

Project:

CalTrans 6th & Castro

Job No.:

15992

Matrix:

Water

Analyst:

GR

Date Sampled:

02/07/00

Date Received:

02/08/00

Date Analyzed:

02/08-09/00

Batch Number.

8260W2004

· · · · · · · · · · · · · · · · · · ·	Sample ID:	Blank	MW-1	MW-3	MW-31	
Compounds	DL	μg/L	μg/L	μg/L	μ g/ L	
cis-1,3-Dichloropropene	0.5	ND	ND	ND	ND	
trans-1,3-Dichloropropene	0.5	ND	ND	ND	ND	
Diisopropyl Ether (DIPE)	5.0	ND	ND	ND	ND	
Ethylbenzene	0.5	ND	ND	ND	ND	
Ethyl tert-Butyl Ether (EtBE)	5.0	ND	ND	ND	ND	
Hexachlorobutadiene	0.5	ND	ND	ND	ND	
2-Hexanone	10	ND	ND	ND	ND	
Isopropylbenzene	0.5	ND	DI	ND	NĐ	
p-Isopropyltoluene	0.5	ND	ND	ND	ND	
Methylene chloride	50	ND .	ND	ND :	ND	
4-Methyl-2-pentanone	5.0	ND	ND	ND	ND	
Methyl-tert-butyl ether (MtBl	E) 1,0 ∷	ND	ND	ND	ND	
Napthalene -	0.5	ND	ND	ND	ND	
n-Propyibenzene	0.5	ND	ND	ND	ND	Allegam
Styrene	0.5	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	0.5	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	· · · · · · · · · · · · · · · · · · ·
Tetrachloroethene	0.5	ND	ND	ND	ND	
Toluene	0.5	ND	ND	ND	ND	The second secon
1,2,3-Trichlorobenzene	0.5	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.5	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.5	ND	DM	ND	ND	
1,1,2-Trichloroethane	0.5	ND	ND	ND	ND	The same of the second control and the second
Trichloroethene	0.5	ND	ND	ND	ND	
1,2,3-Trichloropropane	0.5	ND	ND	ND	ND	
Trichlorofluoromethane	0.5	ND	ND	ND	ND	골프라 (1호) - 프로그램
Trichlorotrifluoroethane	5.0	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	0.5	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	0.5	ND	ND	ND	ND	The second of th
Vinyl chloride	0.5	ND	ND	ND	ND	
Xylenes (total)	1.5	ND	ND	ND	ND	in section of the sec

Surrogates (% recovery) Limits: 80 - 130

	Sample ID:	Blank	MW-1	MW-3	MW-31			
Dibromofluoromethane		106	105	107	107		a i	
Taluene-d8		100	99	100	99			
Bromofluorobenzene		105	104	103	104	76.3		HATTE LIKE



Client:

PSI

Project:

CalTrans 6th & Castro

Job No.:

15992

Matrix: Analyst: Water GR Date Sampled:

02/07/00

Date Received: Date Analyzed: 02/08/00

Batch Number:

02/08-09/00 8260W2004

	Sample ID:	MW-2	
Compounds	DL	μg/L	
Acetone	500	ND	
tert-Amyl Methyl Ether (TAMI	≣) 50	ND	
Benzene	5.0	670	
Bromobenzene	10	ND	
Bromochloromethane	10	ND	
Bromodichloromethane	5.0	ND	
Bromoform	5.0	ND	
Bromomethane	5.0	ND	
tert-Butanol (TBA)	500	ND	
2-Butanone (MEK)	100	ND	
n-Butylbenzene	5.0	ND	
sec-Butylbenzene	5.0	ND	
tert-Butylbenzene	5.0	ND	
Carbon disulfide	100	ND	
Carbon tetrachloride	5.0	ND	
Chlorobenzene	5.0	ND	
Chloroethane	5.0	ND	
Chloroform	5.0	ND	
Chloromethane	5.0	ND	PORMER TO THE PROOF TO THE PROOF THE STATE OF THE STATE O
2-Chlorotoluene	5.0	ND	
4-Chlorotoluene	5.0	ND	
Dibromochloromethane	5.0	ND	
1,2-Dibromoethane	5.0	ND	HER SECTION OF THE SE
1,2-Dibromo-3-chloropropan	The state of the s	ND	
Dibromomethane	5,0	ND	e ad salad - Badget Log is read-dure - I visased - Limiters service - Logs - Michiganggap My Juli III Januar -
1,2-Dichlorobenzene	5.0	ND	
1,3-Dichlorobenzene	5.0	ND	Billiotische versescher Gesteten Germanisch abertagen (1971), der versehen 1971 in der
1,4-Dichlorobenzene Dichlorodifluoromethane	5.0	ND	
1,1-Dichloroethane	5.0	ND	Harifasin Hill (1900-1900) - Alexandra Harifasin (1900-1901) - Maria Alexandra (1901-1901) - Alexandra (1901-1
1,2-Dichloroethane	5.0 5.0	ND	
1,1-Dichloroethene	5.0 5.0	79 ND	SECTION CONTRACTOR OF THE CONTRACT CONTRACTOR OF THE CONTRACTOR OF
cis-1,2-Dichloroethene	5.0	ND	
trans-1,2-Dichloroethene	5.0 5.0	ND	
1,2-Dichloropropane	5.0 5.0	ND	
1,3-Dichloropropane	and the second second second	ND.	
2,2-Dichloropropane	5.0 5.0	ND.	
The state of the s	5.0	ND	####
11 1-Digital phiohetie	5.0	ND	



Client:

PSI

Project:

CalTrans 6th & Castro

Job No.:

15992

Matrix: Analyst: Water GR

Date Sampled:

02/07/00

Date Received:

Date Analyzed:

02/08/00 02/08-09/00

Batch Number.

8260W2004

	Sample ID:	MW-2	
Compounds	DL	μg/L	
cis-1,3-Dichloropropene	5.0	ND	
trans-1,3-Dichloropropene	5.0	ND	
Diisopropyl Ether (DIPE)	50	ND	
Ethylbenzene	5.0	1,500	
Ethyl tert-Butyl Ether (EtBE)	50	ND	
Hexachlorobutadiene	5.0	ND	
2-Hexanone	100	ND	
Isopropylbenzene	5,0		
p-Isopropyltoluene	5.0	ND	
Methylene chloride	500	ND	y ka
4-Methyl-2-pentanone	50	ND	
Methyl-tert-butyl ether (MtBE	The state of the s	ND	
Napthalene	5.0	620	
n-Propylbenzene	5.0	160	
Styrene	5.0	ND	
1,1,1,2-Tetrachloroethane	5.0	ND	
1,1,2,2-Tetrachloroethane	10	ND	
Tetrachloroethene	5.0	ND	
Toluene	5.0	4,800	
1,2,3-Trichlorobenzene	5.0	ND	43.83
1,2,4-Trichlorobenzene	5.0	ND	
1,1,1-Trichloroethane	5.0		
1,1,2-Trichloroethane	5.0	ND	
Trichloroethene	5.0	ND	250
1,2,3-Trichloropropane	5.0		:::::::::
Trichlorofluoromethane	5.0	ND	
Trichlorotrifluoroethane	50	ND	+ 5+15+35
1,2,4-Trimethylbenzene	5.0	A 1,100 BEET BEET AND A RICH BE A CARE A SERVICE	
1,3,5-Trimethylbenzene	5.0	320	
Vinyl chloride	5.0	ND 1	
Xylenes (total)	15	8,700	

Surrogates (% recovery) Limits: 80 - 130

	S	ample	ID:	MW-2							
Dibromofluoromethane			Tary 1	106	- 11111	17.	100	1.4			
Toluene-d8				102							
Bromofluorobenzene	455	3.56-1		102	* * * .				4. 1. 1. 4. 1. 1.	 1. 1	

QC Sample Report - EPA Method 8260

Matrix: Water

Batch #: 8260W2004

Batch Accuracy Results

Sample ID: Laboratory Control Sample

Analyte	Spike Concentration µg/L	% Recovery LCS	Acceptance Limits % Recovery	Pass/Fail
1,1-Dichloroethene	20	100	59 - 172	Pass
Benzene	20	104	66 - 142	Pass
Trichloroethene	20	106	71 - 137	Pass
Toluene	20	104	59 - 139	Pass
Chlorobenzene	20	106	60 - 133	Pass

_		
Anal	lvtical	Notes:

Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Analyte	Spike Sample Recovery µg/L	Spike Duplicate Recovery µg/L	Relative Percent Difference (RPD)	Upper Control Limit RPD	Pass/Fail
1,1-Dichloroethene	20.0	18.4	8%	22%	Pass
Benzene	20.8	19.0	9%	21%	Pass
Trichloroethene	21.2	19.2	10%	24%	Pass
Toluene	21.1	19.5	8%	21%	Pass
Chlorobenzene	21.1	18.9	11%	21%	Pass

MS: Matrix Spike Sample MSD: Matrix Spike Duplicate Analytical Notes:

1			1
П	П	П	П

Centrum Analytical Laboratories, Inc.

290 TENNESSEE STREET

REDLANDS, CA 92373

(909) 798-9336 • (800) 798-9336

FAX (909) 793-1559

Chain of Custody Record

Centrum Job # 15992
Page / of /

www.centrum-labs.com lab@centrum-labs.com Please Circle Analyses Requested																							
Project Man	NK POSS	1.75		Dhone:	RAN:	5 64n + CASTRO Fax: 1111 (510) 785-11 20 W. WINTON A 4YWARO, CA 9454	19Z :VE :IS	esel) Fuel Screen, Carbon Chain	Gas only	8021B: BTEX/MtBE Only	413.2	1 16 64 1 16 64	8260B, 8021B, 624, 524.2	GCMS: MtBE Conf. Only	8270C, 625	8080: Pesticides, PCBs, Pest/PCB	92 96	TIUB 22 (CAM), RCRA, PP	TSS, Conductivity	it, Hex Cr			Turn-Around Time 24 Hr. RUSH* 48 Hr. RUSH* Normal TAT *Requires PRIOR approval, additional charges apply Requested due date:
Centrum ID (Lab use only)	Sample ID (As it should appear on report)		ate npled	Time sampled	Sample matrix	Site location	Containers # and type	8015h	8015M: G	8021B; B	418.1 (TRPH),	OITO	GCMS:	GCMS: M	GCMS: 8	8080: Pes	101	Metals: T	pH, TDS,	Flashpoint,			Remarks/Special Instructions
(mW-1	2/1	10	1100	1,0		10 2 AMB	X,	X			X	X				X						
2	mW-2		<u> </u>	1009	i		1	X	X			X	Χ				X						
3	mw-3	17		1140			1	Х	X			X	X				X					'	
4	mW-31	11		1230			6 VOA		X				X										
		\sqcap			7									Ì									
			1																				
		 																					
								1															
	thed by: (Sampler's Signature)		-	Date: Zh lou	Time:	3) Relinquished by:		Dat	Date:		e:	To be completed by Laboratory personnel: Sample Disposal									Sample Disposal		
2) Received	2) Received by: Date: Time:		Time:	4) Received by:	····	Dat	9:	Tim	Time:		mple		•				_	Fron	ı Fiel	ld	☐ Client will pick up		
The delivery of samples and the signature on this chain of custody form		the form	5) Relinquished by:		Dat	B:	Tim	9:	Custody seals?							☐ Return to client ☐ Lab disposal							
constitutes	authorization to perform the at	nalvse:	S BDec	elfled abov	e under	6) Received for Laboratory by:	olved for Laboratory by: Date: Time: Courier AUPSIFed Ex D Hand carried																
Laboratory	Notes: FILTE	٤	MG	ETAI	5 <u>B</u>	Genoriques ExorE DIGEST	ION 8	26	_ ^>	<u>a</u> .	ا ــــــ	W.	17	H o	CX Po	Y G	E^ DE	JA:	TE	5	ΑÇ	10	Sample Locator No.

r\$15/99 coc-empth Gold Copy - Client Copy