James P. Kiernan, P.E.
Project Manager

Chevron Environmental Management Company
6001 Bollinger Canyon Road
Room C2102
San Ramon, CA 94583
Tel (925) 842-3220
jkiernan@chevron.com

January 31, 2017

RECEIVED
By Alameda County Environmental Health 9:40 am, Feb 15, 2017

Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: 76 Station No. 0746 (351647)
Semi-Annual Status Report-Second Half 2016
3943 Broadway, Oakland, California
Fuel Leak Case No.: RO0000203
GeoTracker Global ID #T0600101471

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

The information in this report is accurate to the best of my knowledge. This report was prepared by Arcadis, upon whose assistance and advice I have relied.

Sincerely,

James P. Kiernan, P.E.
Project Manager

Attachment: Semi-Annual Status Report-Second Half 2016 by Arcadis

Arcadis U.S., Inc.
2999 Oak Road
Suite 300
Walnut Creek
CA 94597
Tel 408-797-2013
Fax 925-274-1103
www.arcadis.com

Mr. Keith Nowell
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Subject:
Second Semi-Annual Status Report, Second Half 2016

ENVIRONMENT

Dear Mr. Nowell,

On behalf of Chevron Environmental Management Company's (CEMC's) affiliate, Union Oil Company of California (Union Oil), Arcadis has prepared the attached *Semi-Annual Status Report - Second Half 2016* for the following facility:

76 Station No.	**Case No.**	**Location**
0746	RO0000203	3943 Broadway Oakland, CA 94611

If you have any questions, please do not hesitate to contact me.

Sincerely,

Arcadis U.S., Inc.

Date:
January 30, 2017

Contact:
Tamera Rogers

Phone:
408.797.2013

Email:
tamera.rogers@arcadis.com

Our ref:
B0035135.1647

Tamera Rogers
Project Manager

Katherine Brandt, P.G.
Senior Geologist

Copies:
Geotracker Database
Mr. James Kiernan, CEMC (electronic)
Mr. Ed Ralston, Phillips 66 (electronic)
Mr. Clement K. Leung, CJS Leung, LLC (electronic)

ARCADIS Design & Consultancy for natural and built assets

SEMI-ANNUAL STATUS REPORT
Second Half 2016
January 30, 2017

Facility No:	76 Station No. 0746	Address:	3943 Broadway, Oakland CA 94611

Arcadis Contact Person / Phone No.:	Tamera Rogers / (408) 797-2013
Arcadis Project No.:	B0035135.1647
Primary Agency/Regulatory ID No.:	Alameda County LOP Case # RO0000203: Keith Nowell / San Francisco Bay RWQCB (Region 2) – Case # 01-1596

WORK CONDUCTED THIS PERIOD [Second Half 2016]:

1. Conducted semi-annual groundwater monitoring activities on December 22, 2016.
2. Completed monthly absorbent sock inspection and changeouts.
3. Prepared the *Semi-Annual Status Report, Second Half 2016*.

WORK CONDUCTED/PROPOSED NEXT PERIOD [First Half 2017]:

1. Conduct semi-annual groundwater monitoring activities.
2. Conduct monthly absorbent sock inspection and changeouts.
3. Prepare the *Semi-Annual Status Report, First Half 2017*.
4. Submitted *Soil Vapor Investigation Work Plan* dated January 13, 2017
5. Submitted *Well Search Results* dated January 24, 2017

Current Phase of Project:	Monitoring and monthly absorbent sock changeout/assessment	
Frequency of Monitoring / Sampling:	Semi-Annual	
Are Phase Separate Hydrocarbons (PSH) Present On-site:	Not observed in wells (absorbent socks deployed)	
Cumulative PSH Recovered to Date:	Approximately 6.00	(gallons)
Approximate Depth to Groundwater:	6.96 to 13.91	(feet below top of casing)
Approximate Groundwater Elevation:	65.22 to 73.31	(feet above mean sea level)

Groundwater Flow Direction	South-Southwest	
Groundwater Gradient	0.062	(foot per foot)
Current Remediation Techniques:	Absorbent socks deployed in wells MW-5 and RW-1	
Permits for Discharge:	None	
Summary of Unusual Activity:	Off-site wells MW-8 and MW-9 were not sampled due to inaccessibility of adjacent property.	
Agency Directive Requirements:	*Well Search Results* submitted January 24, 2017 and *Soil Vapor Investigation Work Plan* submitted January 13, 2017	

DISCUSSION

Gettler-Ryan, Inc. (GR) conducted semi-annual groundwater monitoring activities on December 22, 2016. Field data sheets and general procedures are included as Attachment A. Eleven (11) wells (MW-1 through MW-4, MW-5 through MW-7, MW-10 through MW-12, and RW-1) were gauged, purged and sampled by GR representatives. Monthly phase-separate hydrocarbon (PSH) gauging and absorbent sock changeout occurred in wells MW-5 and RW-1 between July and December 2016 in accordance with the *Response to Comments on Low Threat Closure Request, Data Gap Investigation Workplan, and Focused Site Conceptual Model* dated October 30, 2015. Only the sock in MW-5 was changed in November and no changeout occurred during December 2016 due to lack of a disposal drum onsite. A new disposal drum has since been placed onsite so sock changeout may continue. Sock evaluations conducted by GR indicated the possible presence of PSH in August, September, October and December 2016. GR photos displayed brown to black color staining ranging from 2 inches to 38 inches along the length of the socks. However, as shown in Table 1 no measurable thickness of PSH was observed in MW-5 or RW-1 during the reporting period. Due to this, no calculatable measurable volume of PSH was removed from the wells.

In November 2016, the absorbent sock from MW-5 was sent to Pace Analytical for C3-C10 PIANO and C8-C40 Full Scan analyses. The results of these analyses are included in Attachment C, and a presentation discussing the results is included as Attachment D. The chromatograms produced from these analyses most closely resemble those of weathered gasoline, not fresh gasoline or diesel.

Groundwater samples were submitted to BC Laboratories, Inc. of Bakersfield, California under standard chain-of-custody protocols. Gauging and analytical data obtained by GR during this period are summarized in Table 1. Historical gauging and analytical data for the site are summarized in Attachment B. The site location and layout are presented on Figures 1 and 2, respectively; the groundwater elevation contours for the site on December 22, 2016 are presented on Figure 3. Isoconcentration contours for total

petroleum hydrocarbons as gasoline (TPH-g), benzene, and methyl tert-butyl ether (MTBE) are presented on Figures 4 through 6, respectively. A copy of the laboratory analytical report and chain-of-custody documentation are included in Attachment C.

The direction of groundwater flow and calculated gradient were generally consistent with previous monitoring events. The groundwater analytical results were also consistent with previous events; although recent lows of TPHg and BTEX were observed in MW-5 during the current event. Residual dissolved-phase TPHg, benzene, and MTBE is limited to two or three on-site monitoring wells and the extent is adequately delineated by the current monitoring well network.

Arcadis recommends continued semi-annual monitoring activities to further evaluate groundwater quality and concentration trends. Continued monthly PSH gauging and absorbent sock changeout is recommended for wells MW-5 and RW-1, and will continue as requested by ACDEH. Attempts to regain access to monitoring wells MW-8 and MW-9 to further delineate the extent of the plumes downgradient on the adjacent property will also continue. We understand ACDEH is preparing a letter to the property owner.

LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Arcadis' contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Arcadis. To the extent that this report is based on information provided to Arcadis by third parties, Arcadis may have made efforts to verify this third party information, but Arcadis cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Arcadis.

Katherine Brandt

Date: January 30, 2017

Katherine Brandt, P.G.
Senior Geologist

Date: January 30, 2017

Tamera Rogers, GIT, P.M.,
Project Manager

ATTACHMENTS:

Table 1	Current Groundwater Gauging and Analytical Results
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Groundwater Elevation Contour Map, December 22, 2016
Figure 4	TPH-g Isoconcentration Map, December 22, 2016
Figure 5	Benzene Isoconcentration Map, December 22, 2016
Figure 6	MTBE Isoconcentration Map, December 22, 2016
Attachment A	Field Data Sheets and General Procedures
Attachment B	Historical Groundwater Analytical Data
Attachment C	Laboratory Reports and Chain-of-Custody Documentation
Attachment D	MW-5 Sock Analysis PowerPoint

TABLES

Table 1. Current Groundwater Gauging and Analytical Results
Union Oil Company of California
Former 76 Station No. 0746
3943 Broadway, Oakland, California

Well ID	Sample Date	Screen Interval (ft bTOC)	TOC (ft amsl)	DTW (ft bTOC)	PSH thickness (ft)	GW Elev (ft amsl)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	EDB (µg/L)	EDC (µg/L)	Ethanol (µg/L)	Comments
MW-1	12/22/2016	5-20	80.54	7.26	0.00	73.28	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-2	12/22/2016	5-20	81.32	8.81	0.00	72.51	<50	<0.50	<0.50	<0.50	<1.0	**1.2**	<0.50	<0.50	<250	
MW-3	12/22/2016	5-22.5	81.41	8.59	0.00	72.82	**8,600**	**0.71**	<0.50	**26**	**18**	**8.4**	<0.50	<0.50	<250	
MW-4*	12/22/2016	5-20	81.48	8.01	0.00	73.47	**3,700**	**0.87**	<0.50	**2.2**	**3.0**	<0.50	<0.50	<0.50	<250	
MW-5	7/13/2016	5-20	81.38	9.66	0.00	71.72	--	--	--	--	--	--	--	--	--	monthly sock assessment
MW-5	8/24/2016	5-20	81.38	9.94	0.00	71.44	--	--	--	--	--	--	--	--	--	monthly sock assessment
MW-5	9/16/2016	5-20	81.38	9.34	0.00	72.04	--	--	--	--	--	--	--	--	--	monthly sock assessment
MW-5	10/4/2016	5-20	81.38	10.08	0.00	71.30	--	--	--	--	--	--	--	--	--	monthly sock assessment
MW-5	11/16/2016	5-20	81.38	9.43	0.00	71.95	--	--	--	--	--	--	--	--	--	monthly sock assessment
MW-5	12/22/2016	5-20	81.38	8.21	0.00	73.17	**6,900**	**95**	<0.50	**69**	**22**	<0.50	<0.50	<0.50	<250	monthly sock assessment
MW-6	12/22/2016	5-20	79.94	6.96	0.00	72.98	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-7*	12/22/2016	5-20	81.64	8.07	0.00	73.57	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-8	12/22/2016	5-22	81.41	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-9	12/22/2016	5-22	80.53	--	--	--	--	--	--	--	--	--	--	--	--	Inaccessible
MW-10	12/22/2016	6-22	81.61	13.91	0.00	67.70	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-11	12/22/2016	5-19	78.18	12.96	0.00	65.22	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
MW-12	12/22/2016	5-17.5	79.61	7.91	0.00	71.70	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	
RW-1	7/13/2016	5-15	80.63	8.83	0.00	71.80	--	--	--	--	--	--	--	--	--	monthly sock assessment
RW-1	8/24/2016	5-15	80.63	9.20	0.00	71.43	--	--	--	--	--	--	--	--	--	monthly sock assessment
RW-1	9/16/2016	5-15	80.63	9.34	0.00	71.29	--	--	--	--	--	--	--	--	--	monthly sock assessment
RW-1	10/4/2016	5-15	80.63	9.31	0.00	71.32	--	--	--	--	--	--	--	--	--	monthly sock assessment
RW-1	11/16/2016	5-15	80.63	8.30	0.00	72.33	--	--	--	--	--	--	--	--	--	monthly sock assessment
RW-1	12/22/2016	5-15	80.63	7.32	0.00	73.31	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<250	monthly sock assessment

Notes:

MW = Groundwater monitoring well
RW = Recovery well
TOC = Top of casing
ft amsl = Feet above mean sea level
DTW = Depth to groundwater
ft bTOC = Feet below top of casing
PSH = Phase separate hydrocarbons
ft = Feet
GW Elev = Groundwater elevation
µg/L = Micrograms per liter
Bold = Value exceeds laboratory reporting limits;

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8015B
Samples analyzed by EPA Method 8260B:
Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)
MTBE = Methyl tert-butyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
Ethanol
J = Estimated value (between laboratory reporting limit and method detection limit)
If PSH is present, GW Elevation is corrected according to the following formula
(TOC elevation - DTGW) + (0.8 x PSH thickness)

PSH thickness is greater than 0.00 ft

<0.50 = Not detected at or above the stated limit

-- = Not sampled/not measured

* = TOC elevation last measured 6/14/2006

Data QA/QC by: CW 1/17/2017

FIGURES

MAP SOURCE: Google Map Data ® 2017, 37°49'38.9" N, 122°15'26.3" W

N

0 1000 FT 2000 FT

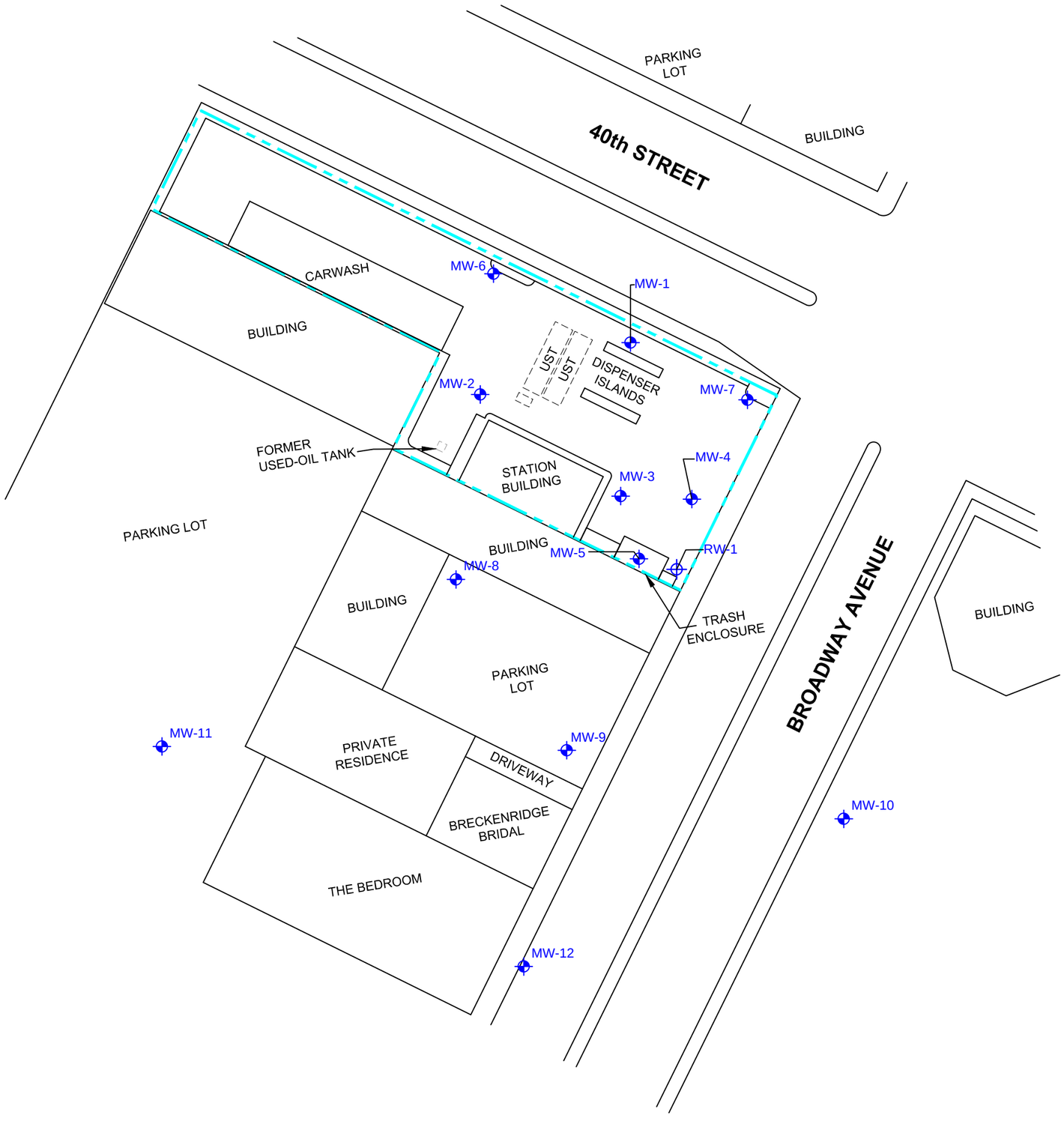
GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1



NOTES:

1. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 50 FT 100 FT

GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: BANGALORE, INDIA DIV/GROUP:ENV/CAD DB: Y. NIMBARGIKAR LD: E. MURESAN PIC: K. ABBOTT PM: G. FIOL TM: A. CHUA ES: D. AHMED
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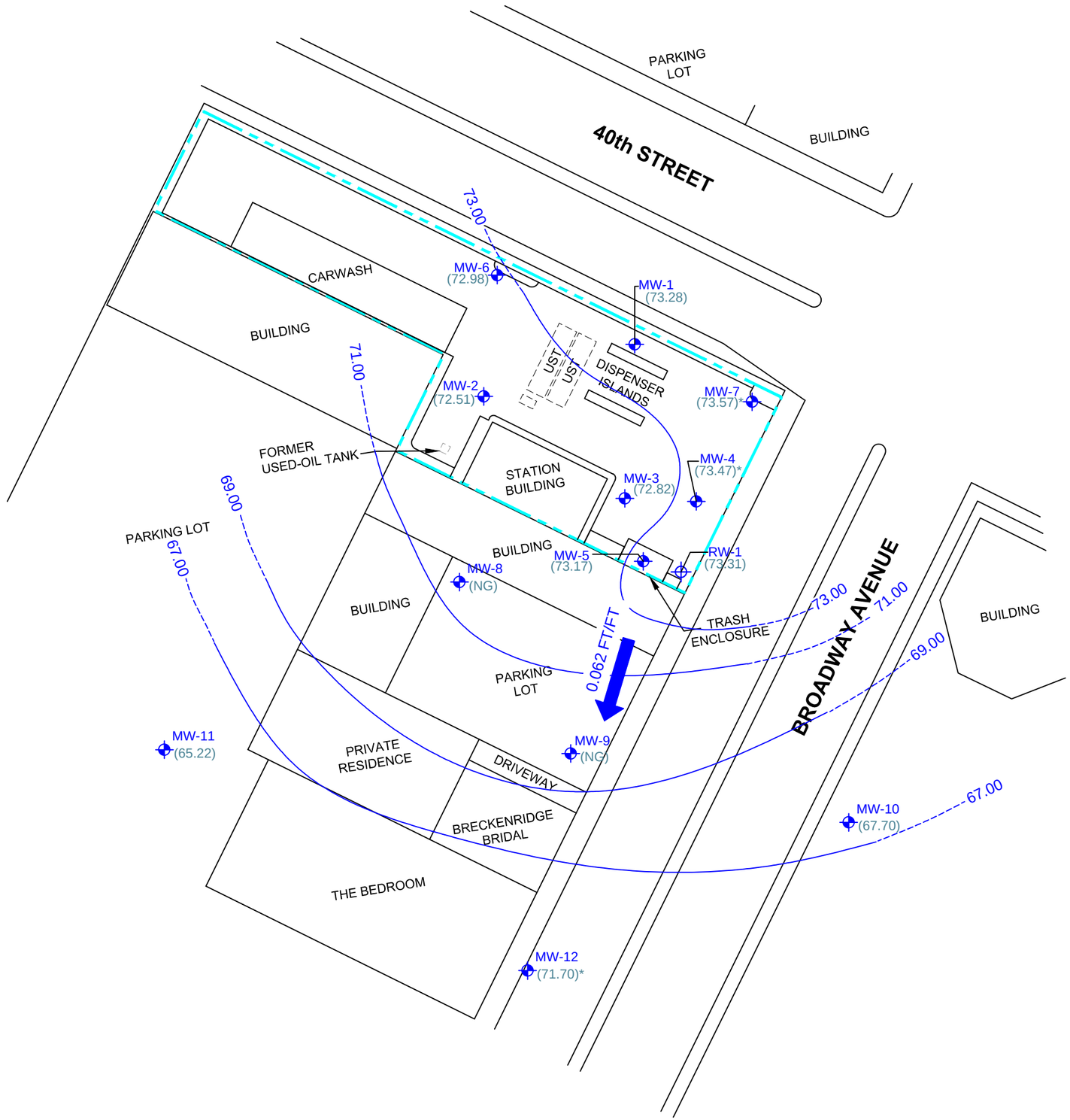


N

LEGEND:

- GROUNDWATER MONITORING WELL
- RECOVERY WELL
- (90.55) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)
- (NG) NOT GAUGED
- (0.062 FT/FT) APPROXIMATE DIRECTION OF GROUNDWATER FLOW (APPROXIMATE HYDRAULIC GRADIENT = 0.062 FT/FT)
- 73.00 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- * NOT CONSIDERED FOR GROUNDWATER ELEVATION CONTOURING
- PROPERTY BOUNDARY
- UST UNDERGROUND STORAGE TANK

NOTES:

1. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.

0 50 FT 100 FT

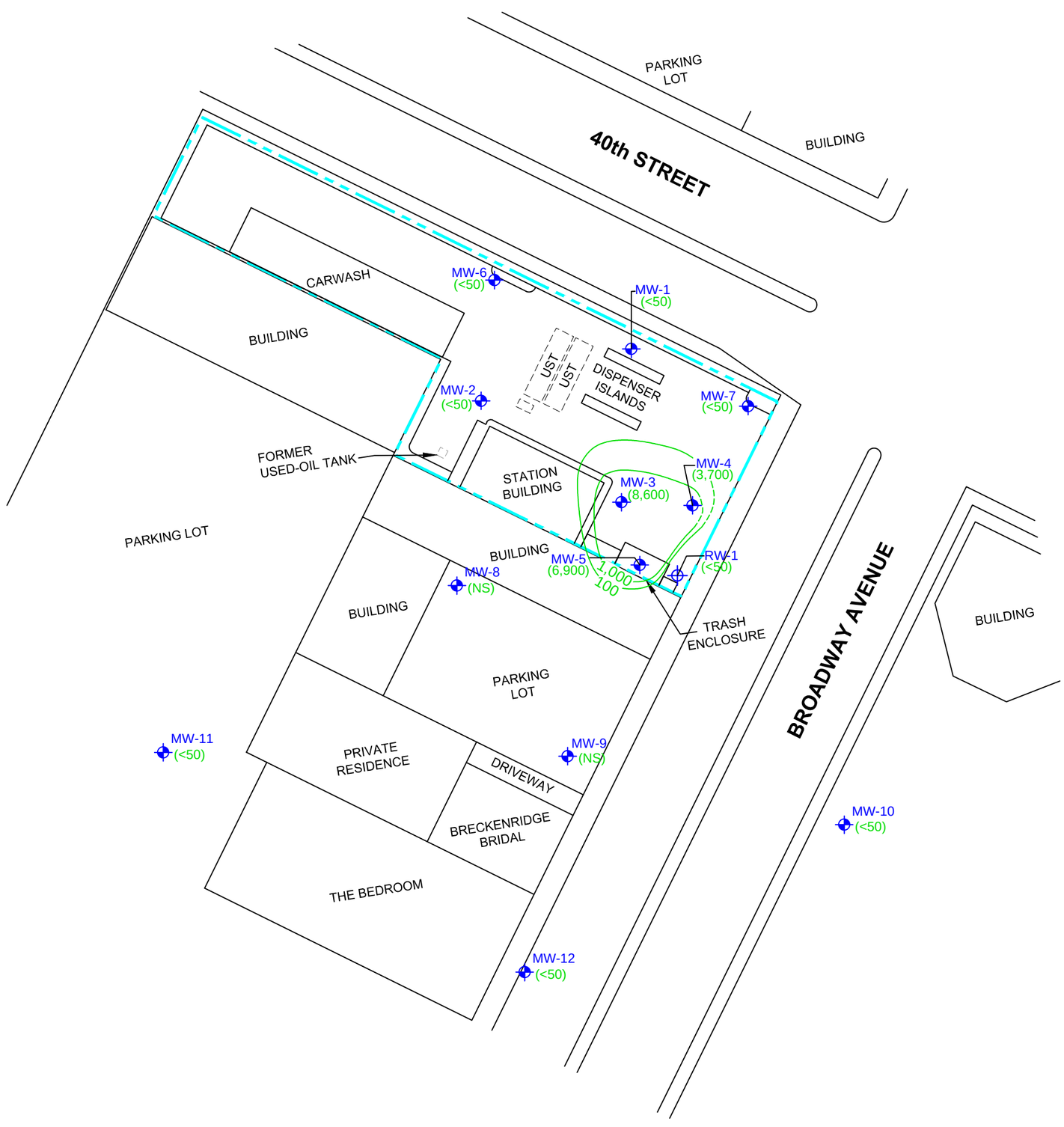
GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

GROUNDWATER ELEVATION CONTOUR MAP DECEMBER 22, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3



N

LEGEND:

- GROUNDWATER MONITORING WELL
- RECOVERY WELL
- 1,000 — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPH-g) ISOCONCENTRATION CONTOURS (DASHED WHERE INFERRED)
- (3,700) TPH-g CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- (NS) NOT SAMPLED
- (<50) NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMIT
- PROPERTY BOUNDARY
- UST UNDERGROUND STORAGE TANK

NOTES:

1. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
2. ALL ISOCONCENTRATION LINES ARE AN INTERPRETATION BASED ON THE RESULTS OF THE WELL GAUGING DATA FOR THIS QUARTER.

0 50 FT 100 FT

GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

TPH-g ISOCONCENTRATION MAP DECEMBER 22, 2016

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FIGURE 4

CITY: BANGALORE, INDIA DIV/GROUP:ENV/CAD DB: Y. NIMBARGIKAR LD: E. MURESAN PIC: K. ABBOTT PM: G. FIOL TM: A. CHUA ES: D. AHMED
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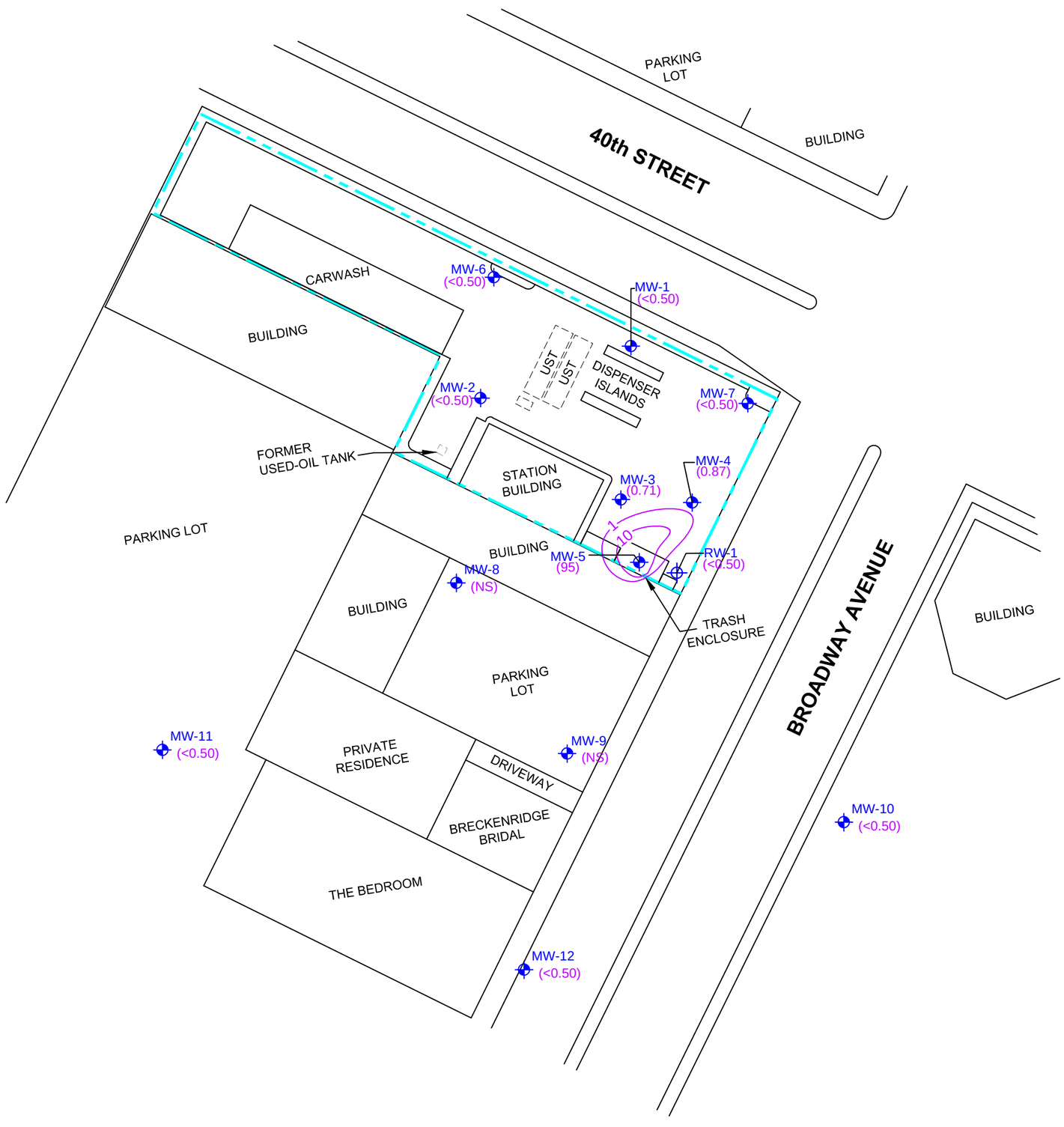

N

LEGEND:

- GROUNDWATER MONITORING WELL
- RECOVERY WELL
- 10 — BENZENE ISOCONCENTRATION CONTOURS (DASHED WHERE INFERRED)
- (1.2) BENZENE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- (NS) NOT SAMPLED
- (<0.50) NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMIT
- PROPERTY BOUNDARY
- UST UNDERGROUND STORAGE TANK

NOTES:

1. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
2. ALL ISOCONCENTRATION LINES ARE AN INTERPRETATION BASED ON THE RESULTS OF THE WELL GAUGING DATA FOR THIS QUARTER

0 50 FT 100 FT

GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

BENZENE ISOCONCENTRATION MAP DECEMBER 22, 2016

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FIGURE 5

CITY: BANGALORE, INDIA DIV/GROUP:ENV/CAD DB: Y. NIMBARGIKAR LD: E. MURESAN PIC: K. ABBOTT PM: G. FIOL TM: A. CHUA ES: D. AHMED
C:\Users\tweeter\Documents\My Projects\76PP Portfolio\351647\3Q and 4Q16\CAD\351647 2SA16_v1.dwg LAYOUT: 5 SAVED: 1/30/2017 12:13 PM ACADVER: 19.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 1/30/2017 12:22 PM BY: DEETER, VALERIE

N

LEGEND:

- GROUNDWATER MONITORING WELL
- RECOVERY WELL
- (NS) NOT SAMPLED
- (1.2) MTBE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- (<0.50) NOT DETECTED AT OR ABOVE LABORATORY DETECTION LIMIT
- PROPERTY BOUNDARY
- UST UNDERGROUND STORAGE TANK

NOTES:

1. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.
2. MTBE WAS NOT DETECTED ABOVE THE REGULATORY LIMIT (13 µg/L) IN ALL SAMPLES; THEREFORE MTBE ISOCONCENTRATION LINES WERE NOT DRAWN.

0 50 FT 100 FT

GRAPHIC SCALE

UNOCAL #0746 (351647)
3943 BROADWAY
OAKLAND, CALIFORNIA
SEMI-ANNUAL STATUS REPORT, SECOND HALF 2016

MTBE ISOCONCENTRATION MAP DECEMBER 22, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 6

CITY: BANGALORE, INDIA DIV/GROUP:ENVCAD DB: Y. NIMBARGIKAR LD: E. MURESAN PIC: K. ABBOTT PM: G. FIOL TM: A. CHUA ES: D. AHMED
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ATTACHMENT A

[Field Data Sheets and General Procedures]

GETTLER-RYAN INC.

TRANSMITTAL

July 22, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Monthly Event of July 13, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351647 / 0746

Site Address: 3943 Broadway

City: Oakland, CA

Job #: 385648

Event Date: 7.13.16

Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/(N)	REPLACE CAP Y/(N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/(N)
MW-5	OK	→	→	→	→	→	→	N	N	Emco | 12" | 2	
RW-1	OK	→	→	S=2	→	→	→	N	N	Emco | 16" | 3	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 7.13.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-5
Well Diameter 2 in.
Total Depth 50.16 ft.
Depth to Water 9.66 ft.
40.50 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Date Monitored: 7.13.16

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING NO SPH DETECTED BY INTERFACE PROBE.
SOCK EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: Frank Tennison	Date: 7.13.16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: Sunny

1. Time absorbent sock removed from well for inspection: 1045

2. Condition of sock:

   a. Length of sock showing product saturation: NONE

   b. Length of sock showing dryness: NONE

   c. Color of sock showing product saturation: NONE

   d. Weight of the removed sock: 8 1/4 oz.

   e. Weight of new/clean/dry sock: 3 1/4 oz.

   f. Difference in weight [(d-e) to 0.01 ounces]: 5 oz.

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: ✓ How full is the drum (%): 25%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: 0

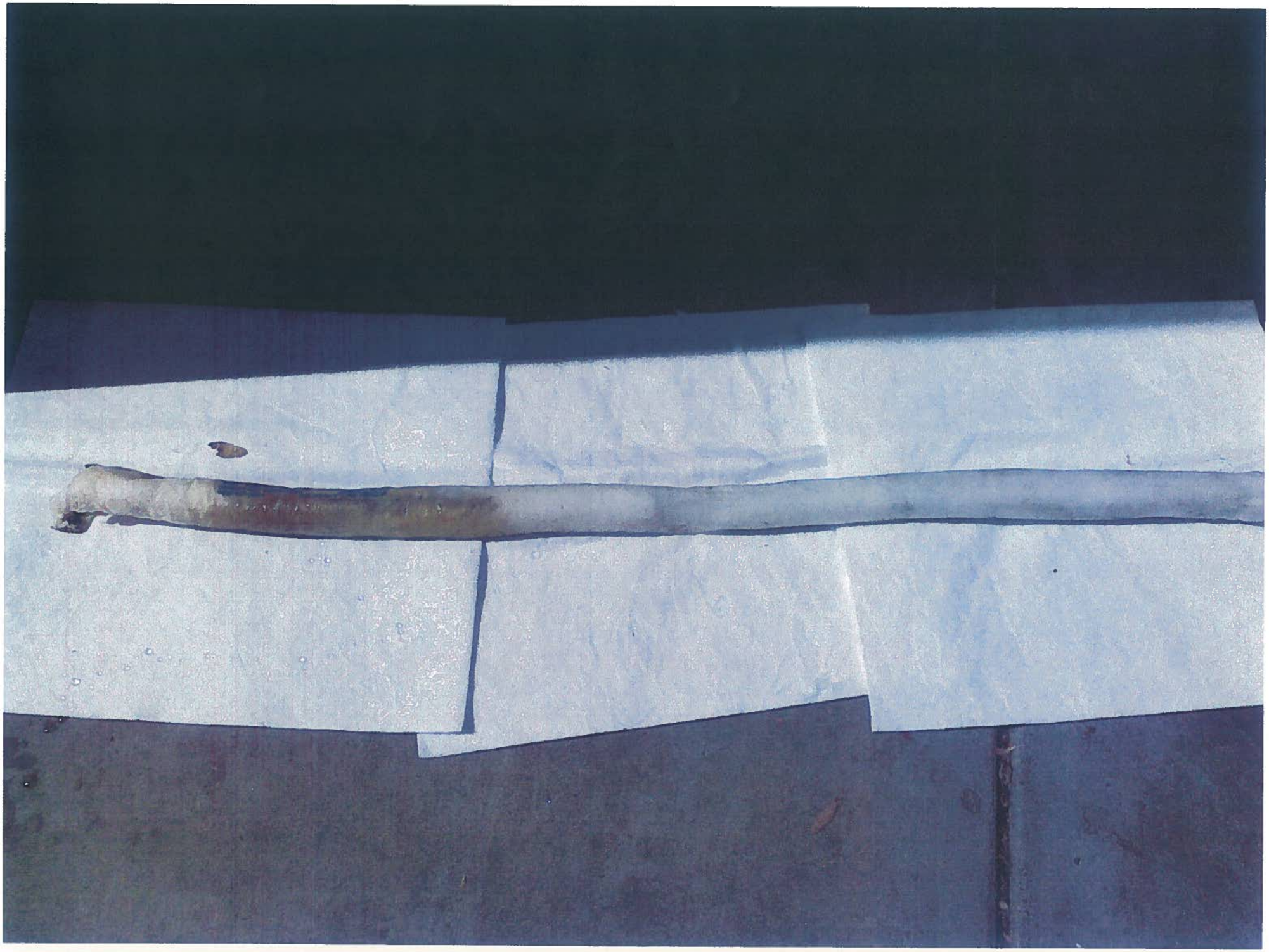
   b. Depth to water: 9.64

   c. Thickness of product (b-a): 0

6. Size and type of sock installed: SOAKEASE 2" x 36"

7. Comments: SOCK EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

351647, Oakland MW-5 Sock



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 7.13.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID RW-1
Well Diameter 2 (6) in.
Total Depth 16.34 ft.
Depth to Water 8.83 ft.
7.51 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Date Monitored: 7.13.16

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING NO SPH DETECTED BY INTERFACE PROBE.
SOCK EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name:	Date:	Project Number:
FRANK TERMINOI	7.13.16	Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 1030

2. Condition of sock:

   a. Length of sock showing product saturation: NONE

   b. Length of sock showing dryness: NONE

   c. Color of sock showing product saturation: NONE

   d. Weight of the removed sock: 1lb 4oz.

   e. Weight of new/clean/dry sock: 8 5/8 oz.

   f. Difference in weight [(d-e) to 0.01 ounces]: 12 5/8 oz.

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: ✓ How full is the drum (%): 25%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: ~~0~~

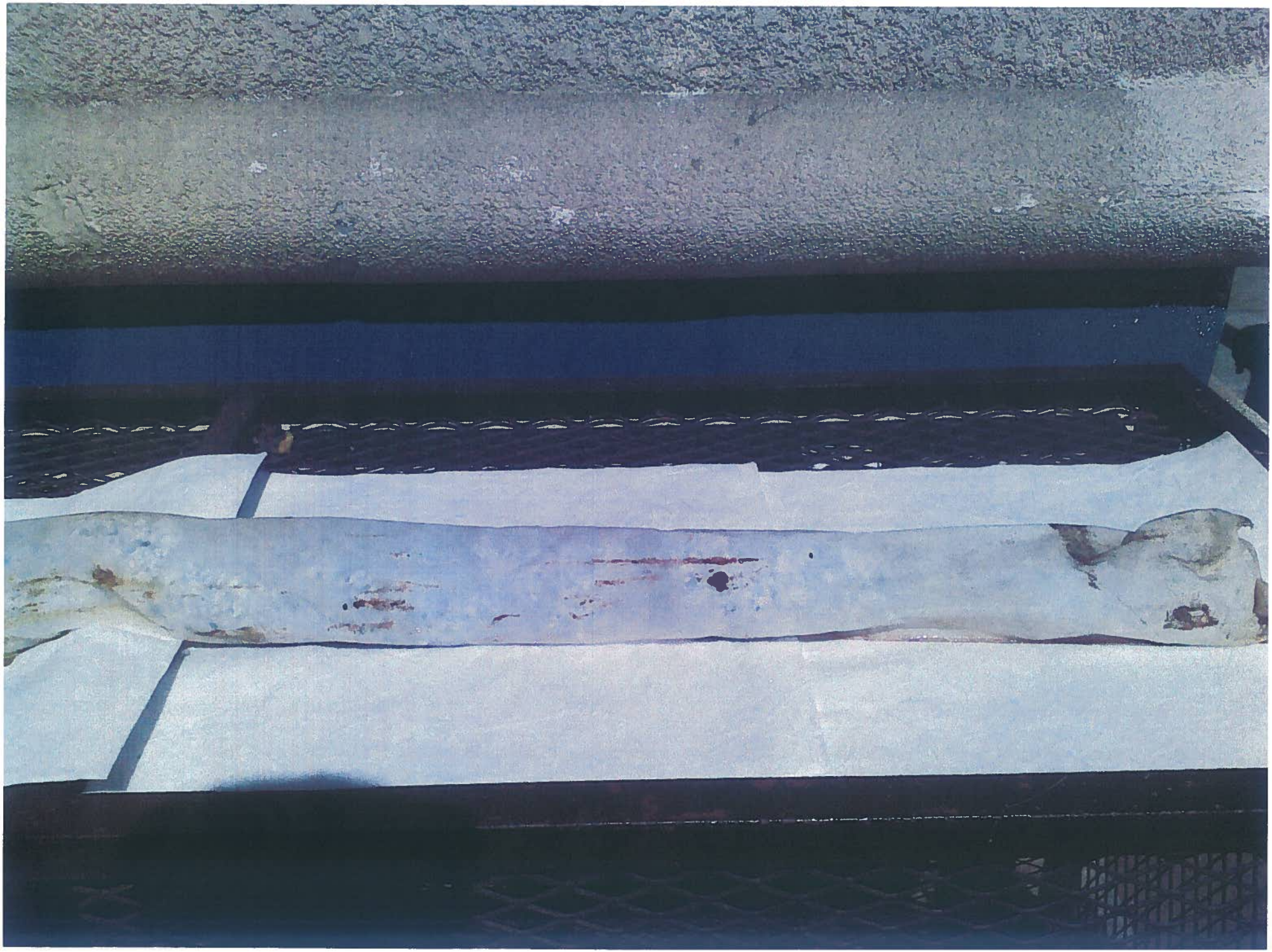
   b. Depth to water: 8.83

   c. Thickness of product (b-a): ~~0~~

6. Size and type of sock installed: 3"x 30" PIG

7. Comments: SOCK EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

351647, Oakland RW-1 Sock



GETTLER-RYAN INC.

TRANSMITTAL

September 2, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Monthly Event of August 24, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351647 / 0746

Site Address: 3943 Broadway

City: Oakland, CA

Job #: 385648

Event Date: 8/24/14

Sampler: GM

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken (Y) N
MW-5	OK							NO	NO	EMCO / 12 / 2	
RW-1	OK							↓	↓	↓ / 18 / 3	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351647 / 0746** Job Number: **385648**

Site Address: **3943 Broadway** Event Date: 8/24/16 (inclusive)

City: **Oakland, CA** Sampler: GM

Well ID MW-5 Date Monitored: 8/24/16

Well Diameter (2) 6 in.

Total Depth 50.16 ft.

Depth to Water 9.94 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

40.22 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:

Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:

Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: *MONTHLY PRODUCT GAUGING*

OLD SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: G. MEDINA	Date: 8/24/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 1420

2. Condition of sock:
   a. Length of sock showing product saturation: 37"
   b. Length of sock showing dryness: Ø
   c. Color of sock showing product saturation: BROWN
   d. Weight of the removed sock: 1LBS 7 3/4 OZ
   e. Weight of new/clean/dry sock: 3 1/8
   f. Difference in weight [(d-e) to 0.01 ounces]: 1LBS 4 5/8 OZ
3. Picture of sock removed from well taken: ☑
4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: YES How full is the drum (%): 20%.

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:
   a. Depth to product: NA
   b. Depth to water: 9.94
   c. Thickness of product (b-a): Ø
6. Size and type of sock installed: 2" SOAKER
7. Comments: OLD SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED


SS# 351647
OAKLAND, CA
8/24/16
MW-5

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351647 / 0746** Job Number: **385648**

Site Address: **3943 Broadway** Event Date: **8/24/16** (inclusive)

City: **Oakland, CA** Sampler: **GM**

Well ID **RW-1** Date Monitored: **8/24/16**

Well Diameter **2 (6)** in.

Total Depth **16.34** ft.

Depth to Water **9.20** ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.14 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:

Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Sampling Equipment:

Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___

Sample Time/Date: ___ / ___ Water Color: ___ Odor: **Y / N** ___

Approx. Flow Rate: ___ gpm. Sediment Description: ___

Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: ***MONTHLY PRODUCT GAUGING***

OLD SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: G. Medina	Date: 8/24/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: Sunny

1. Time absorbent sock removed from well for inspection: 1914

2. Condition of sock:
   - a. Length of sock showing product saturation: 35"
   - b. Length of sock showing dryness: Ø
   - c. Color of sock showing product saturation: Brown
   - d. Weight of the removed sock: 3 LBS 4½ oz
   - e. Weight of new/clean/dry sock: 7¼ oz
   - f. Difference in weight [(d-e) to 0.01 ounces]: 2 LBS 13¼ oz

3. Picture of sock removed from well taken: ☑

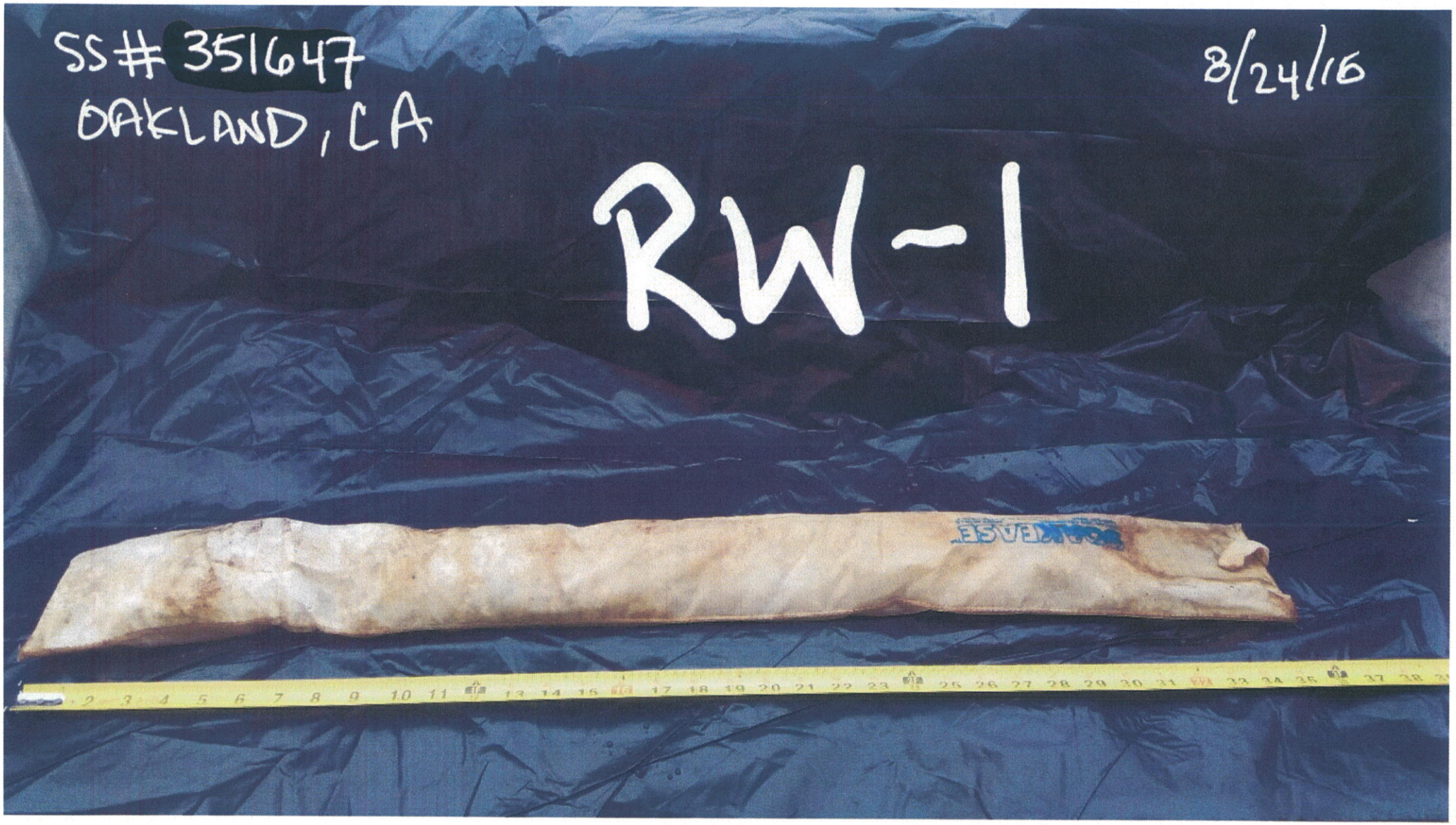
4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: Yes How full is the drum (%): 20%.

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:
   - a. Depth to product: N/A
   - b. Depth to water: 9.20
   - c. Thickness of product (b-a): Ø

6. Size and type of sock installed: 4" SOAKER

7. Comments: OLD SOCK REMOVED AND EVALUATED, PLACED IN HOLDING DRUM
   NEW SOCK INSTALLED


SS# 3511647
OAKLAND, CA
8/24/16
RW-1

GETTLER-RYAN INC.

TRANSMITTAL

September 27, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Monthly Event of September 16, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/
Facility #: **Chevron #351647 / 0746**

Site Address: **3943 Broadway**

City: **Oakland, CA**

Job #: **385648**

Event Date: 9/16/16

Sampler: G-MEDINA

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/N	REPLACE CAP Y/N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-5	OK	—					→	NO	NO	Edco/12/2	
RW-1	OK	—					→	↓	↓	↓/18/3	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351647 / 0746** Job Number: **385648**

Site Address: **3943 Broadway** Event Date: 9/16/16 (inclusive)

City: **Oakland, CA** Sampler: GM

Well ID MW-5 Date Monitored: 9/16/16

Well Diameter 2 in. | Volume Factor (VF): 3/4"= 0.02, 1"= 0.04, 2"= 0.17, 3"= 0.38, 4"= 0.66, 5"= 1.02, 6"= 1.50, 12"= 5.80

Total Depth 50.16 ft.

Depth to Water 9.34 ft. ☐ Check if water column is less then 0.50 ft.

40.82 xVF _____ = _____ x3 case volume = Estimated Purge Volume: _____ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: _____

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): _____ Weather Conditions: _____

Sample Time/Date: _____ / _____ Water Color: _____ Odor: Y / N _____

Approx. Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? _____ If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: _____

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING REPLACED SOCK & EVALUATED. PLACED SOCKS IN HOLDING DRUM NEW SOCK INSTALLED

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: G. MEDINA	Date: 9/16/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 0915

2. Condition of sock:

   a. Length of sock showing product saturation: 26"

   b. Length of sock showing dryness: 11"

   c. Color of sock showing product saturation: BROWN

   d. Weight of the removed sock: 1 LBS 4 OZ

   e. Weight of new/clean/dry sock: 3 OZ

   f. Difference in weight [(d-e) to 0.01 ounces]: 1 LBS 1 OZ

3. Picture of sock removed from well taken: X

4. Sock removed from well deposited into a waste drum: X

   Confirm drum is labeled: YES How full is the drum (%): 30%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: NA

   b. Depth to water: 9.34

   c. Thickness of product (b-a): Ø

6. Size and type of sock installed: 2" SOAKEG

7. Comments: SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM
   NEW SOCK INSTALLED


SS#351647/0746
OAKLAND, CA
9/16/16
MW-5

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 9/16/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID RW-1 Date Monitored: 9/16/16
Well Diameter (2) 6 in.
Total Depth 16.34 ft.
Depth to Water 9.34 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.00 xVF ← = ✓ x3 case volume = Estimated Purge Volume: ✓ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ✓

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0.6 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:
Sample Time/Date: / Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING REPLACED SOCK & EVALUATED
PLACED SOCK IN HOLDING DRUM
NEW SOCK INSTALLED

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: G. MEDINA	Date: 9/16/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 0930

2. Condition of sock:
   - a. Length of sock showing product saturation: ~~29~~ 29"
   - b. Length of sock showing dryness: ~~0~~ "
   - c. Color of sock showing product saturation: BROWN
   - d. Weight of the removed sock: 4LBS 2½ OZ
   - e. Weight of new/clean/dry sock: 5 OZ
   - f. Difference in weight [(d-e) to 0.01 ounces]: 3LBS 13½ OZ

3. Picture of sock removed from well taken: ☒

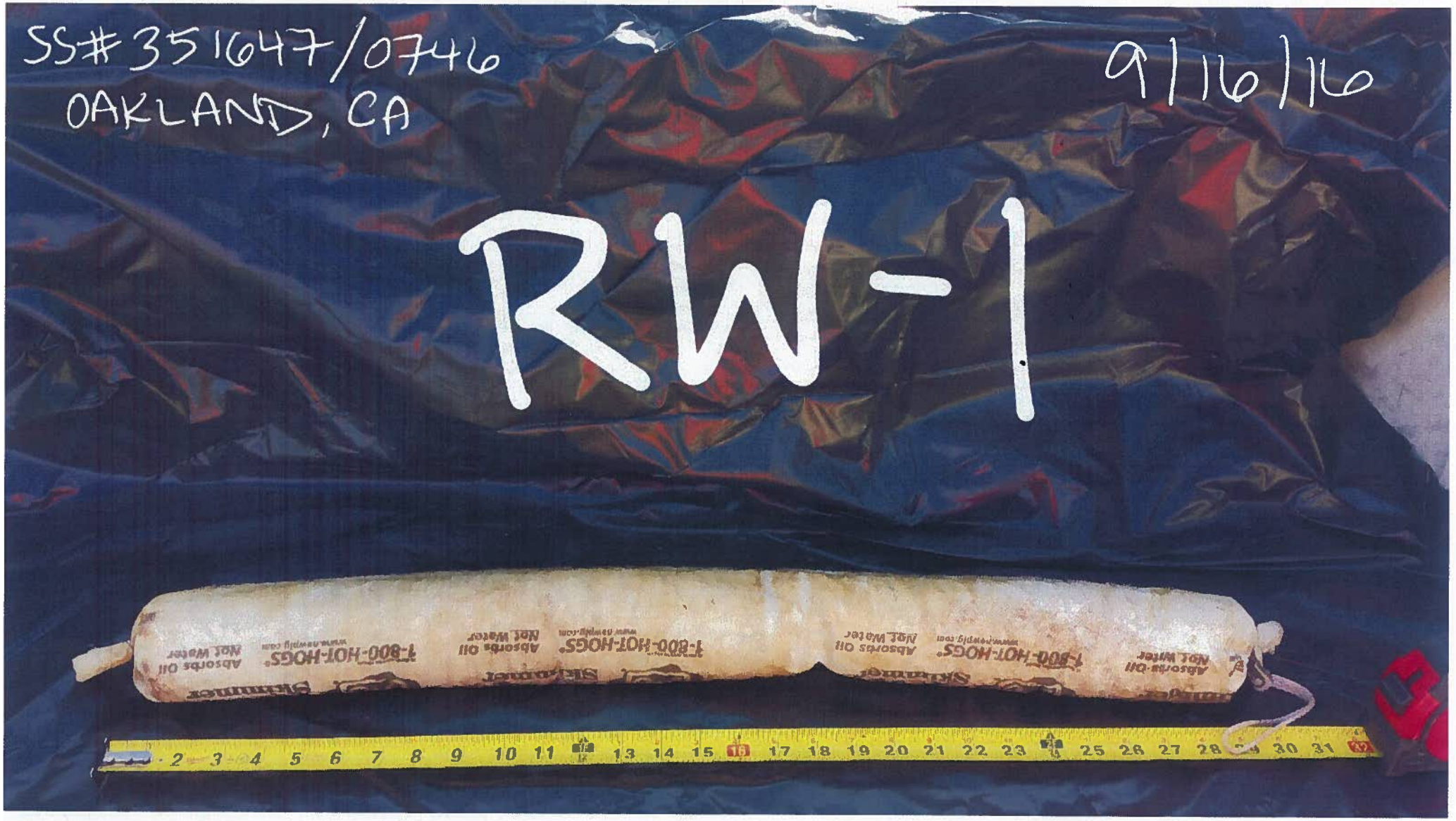
4. Sock removed from well deposited into a waste drum: ☒

   Confirm drum is labeled: YES How full is the drum (%): 30%

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:
   - a. Depth to product: ~~N/A~~
   - b. Depth to water: 9.34
   - c. Thickness of product (b-a): ~~0~~

6. Size and type of sock installed: 4" SOAKEE

7. Comments: SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM. NEW SOCK INSTALLED


SS#351647/0746
OAKLAND, CA
9/16/16
RW-1
Skimmer
Absorbs Oil
Not Water
1-800-HOT-HOGS
www.newpig.com

GETTLER-RYAN INC.

TRANSMITTAL

October 7, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Monthly Event of October 4, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/
Facility #: Chevron #351647 / 0746

Site Address: 3943 Broadway

City: Oakland, CA

Job #: 385648

Event Date: 10.4.16

Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y (N)	REPLACE CAP Y (N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y (N)
MW-5	OK	→	→	→	→	→	→			EMCO | 12" | 2	
RW-1	OK	→	→	S=1	OK	→	→			EMCO | 18" | 3	

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 10.4.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-5 Date Monitored: 10.4.16
Well Diameter 2/6 in.
Total Depth 50.16 ft.
Depth to Water 10.08 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

40.08 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING NO SPH DETECTED BY INTERFACE
NEW SOCK INSTALLED
SOCK REMOVED, EVALUATED AND PLACED IN DRUM

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name:	Date:	Project Number:
Frank Tennison	10.4.16	Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: Sunny

1. Time absorbent sock removed from well for inspection: 1030

2. Condition of sock:

   a. Length of sock showing product saturation: 2"

   b. Length of sock showing dryness: 8"

   c. Color of sock showing product saturation: Brownish Color

   d. Weight of the removed sock: 1lb 2 oz.

   e. Weight of new/clean/dry sock: 3 1/4 oz.

   f. Difference in weight [(d-e) to 0.01 ounces]: 1lb 1 1/4 oz.

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: Yes How full is the drum (%): 30 %

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: 0

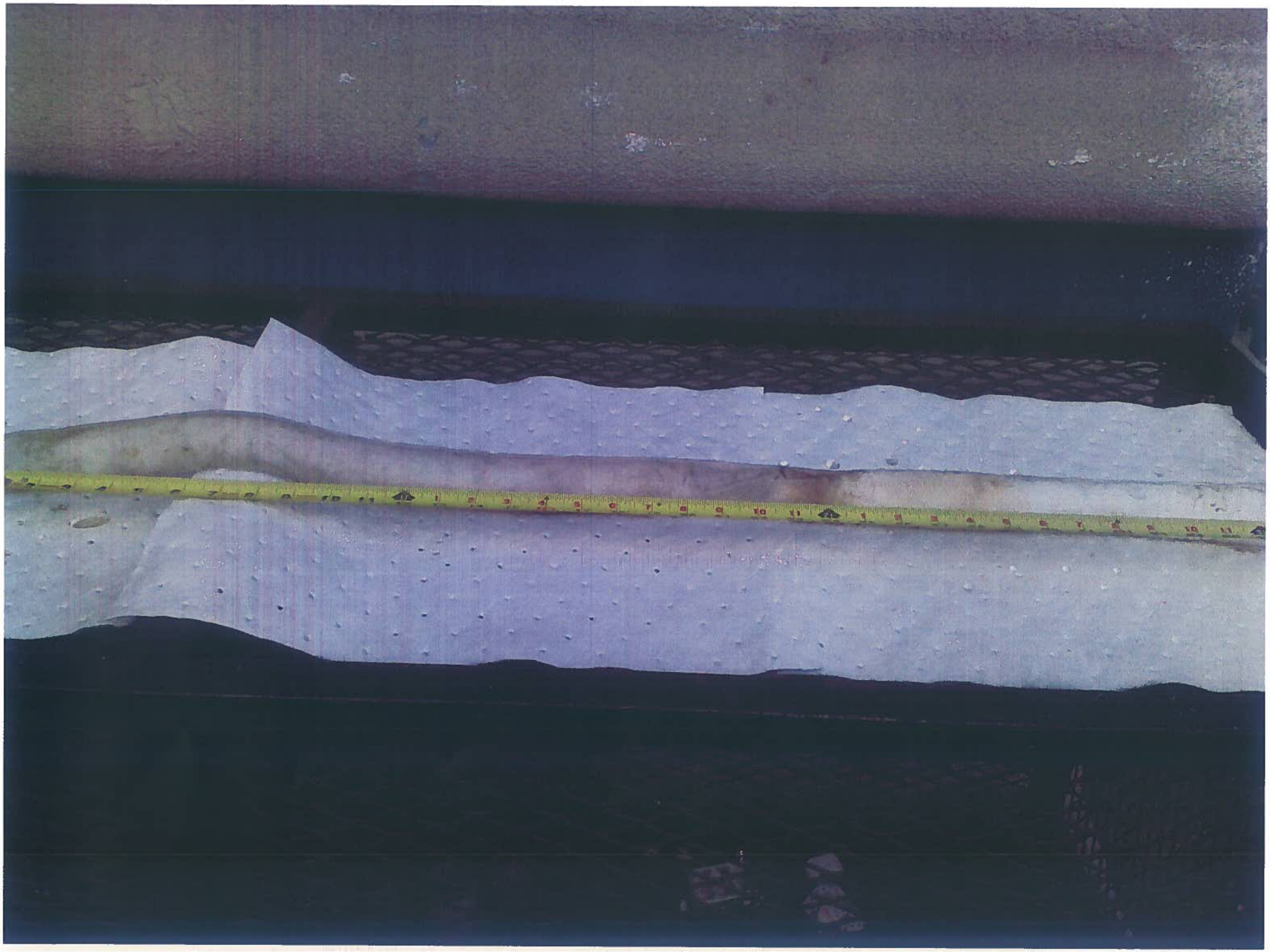
   b. Depth to water: 10.08

   c. Thickness of product (b-a): 0

6. Size and type of sock installed: SOAKBASE 2" x 37"

7. Comments: SOCK REMOVED, EVALUATED AND PLACED IN THE HOLDING DRUM
   NEW SOCK INSTALLED

351647, Oakland MW-5 Sock



GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 10.4.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID RW-1 Date Monitored: 10.4.16
Well Diameter 2 (6) in.
Total Depth 16.34 ft.
Depth to Water 9.31 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.03 xVF ___ = ___ x3 case volume = Estimated Purge Volume: ___ gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: ___

Purge Equipment:
Disposable Bailer ___
Stainless Steel Bailer ___
Stack Pump ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Sampling Equipment:
Disposable Bailer ___
Pressure Bailer ___
Metal Filters ___
Peristaltic Pump ___
QED Bladder Pump ___
Other: ___

Time Started: ___ (2400 hrs)
Time Completed: ___ (2400 hrs)
Depth to Product: ___ ft
Depth to Water: ___ ft
Hydrocarbon Thickness: ___ ft
Visual Confirmation/Description: ___
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ___ ltr
Amt Removed from Well: ___ ltr
Water Removed: ___ ltr

Start Time (purge): ___ Weather Conditions: ___
Sample Time/Date: ___ / ___ Water Color: ___ Odor: Y / N ___
Approx. Flow Rate: ___ gpm. Sediment Description: ___
Did well de-water? ___ If yes, Time: ___ Volume: ___ gal. DTW @ Sampling: ___

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: MONTHLY PRODUCT GAUGING NO SPH DETECTED BY INTERFACE
NEW SOCK INSTALLED.
SOCK REMOVED, EVALUATED AND PLACED IN DRUM.

Add/Replaced Gasket: ___ Add/Replaced Bolt: ___ Add/Replaced Lock: ___ Add/Replaced Plug: ___

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name:	Date:	Project Number:
FRANK TERMINONI	10.4.16	Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 1000

2. Condition of sock:

   a. Length of sock showing product saturation: 0

   b. Length of sock showing dryness: 2"

   c. Color of sock showing product saturation: NA

   d. Weight of the removed sock: 3lb 2 oz.

   e. Weight of new/clean/dry sock: 8 3/4 oz.

   f. Difference in weight [(d-e) to 0.01 ounces]: 3lb 6 3/4 oz.

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☑

   Confirm drum is labeled: YES How full is the drum (%): 30 %

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: 0

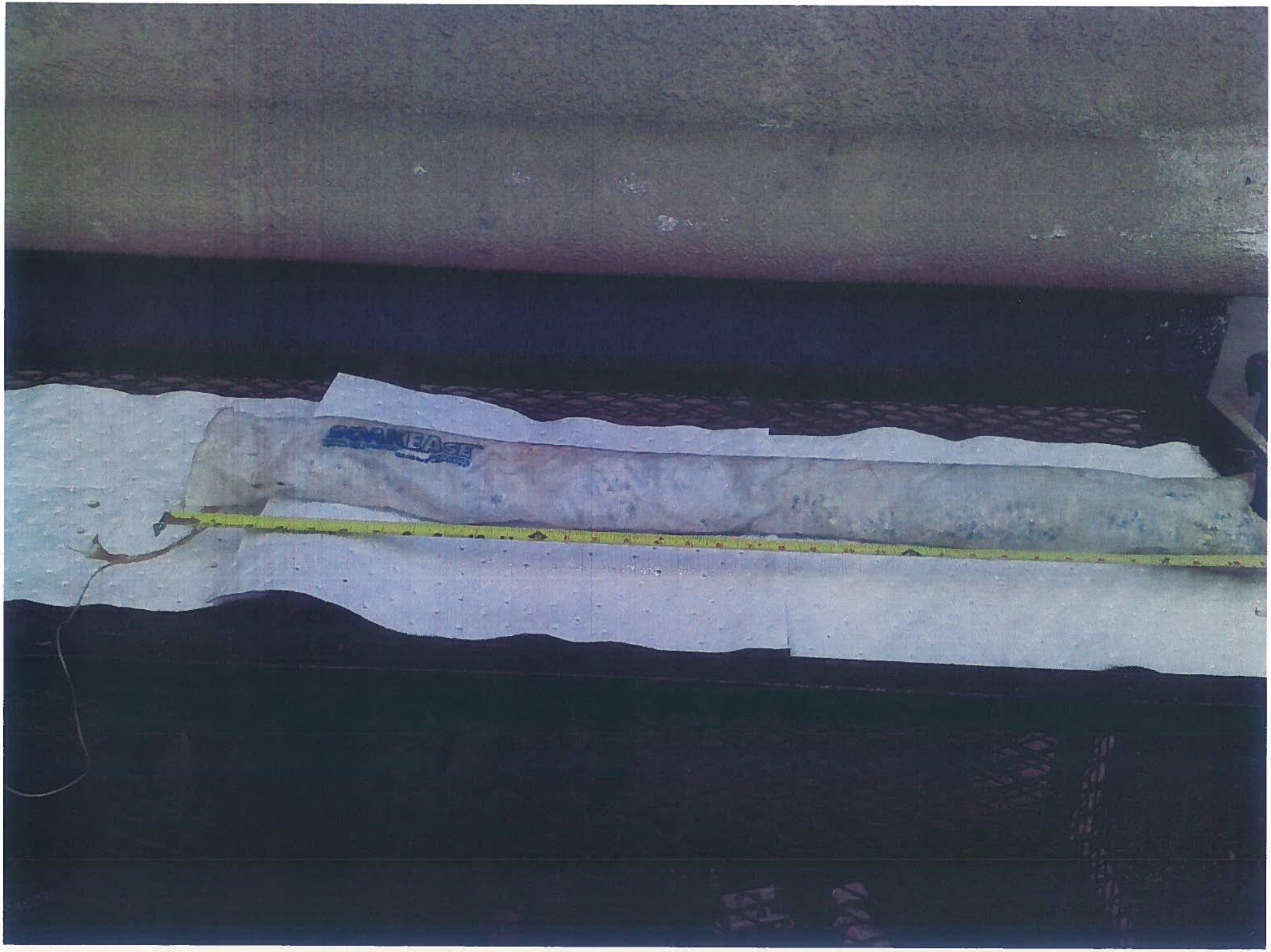
   b. Depth to water: 9.31

   c. Thickness of product (b-a): 0

6. Size and type of sock installed: Pig 30"

7. Comments: SOCK REMOVED, EVALUATED AND PLACED IN HOLDING DRUM NEW SOCK INSTALLED.

351647, Oakland RW-1 Sock



GETTLER-RYAN INC.

TRANSMITTAL

November 23, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Monthly Event of November 16, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351647 / 0746
Site Address: 3943 Broadway
City: Oakland, CA

Job #: 385648
Event Date: 11.16.16
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/(N)	REPLACE CAP Y/(N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/(N)
MW-5	OK	→	→	→	→	→	→	N	N	Emco/12"/2	
RW-1	OK	→	→	S=1	OK	→	→	N	N	" 18"/3	

Comments

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. Total well depths are measured annually.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 11.16.16 (inclusive)
City: Oakland, CA Sampler: FT

Well ID MW-5 Date Monitored: 11.16.16
Well Diameter 2 / 6 in.
Total Depth 50.16 ft.
Depth to Water 9.43 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

40.73 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:
- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:
- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:
Sample Time/Date (1015) 11/16.16 (SOCK) Water Color: Odor: Y / N
Approx. Flow Rate: gpm. Sediment Description:
Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5 Sock	1	N/A	NP	Pace Analytical	C3-C10 PIANO ANALYSIS/GC/ MC FULL SCAN ANALYSIS

COMMENTS: *MONTHLY PRODUCT GAUGING*
Sock was removed from the well, evaluated then shipped to Pace Analytical for analysis. New sock installed in the well.

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: FRANK TERMINONI	Date: 11-16-16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 1000

2. Condition of sock:

   a. Length of sock showing product saturation: NONE

   b. Length of sock showing dryness: NONE

   c. Color of sock showing product saturation: NONE

   d. Weight of the removed sock: 1 lb 11 oz.

   e. Weight of new/clean/dry sock: 3 lb 0 oz.

   f. Difference in weight [(d-e) to 0.01 ounces]: 1 lb 11 oz.

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☐

   Confirm drum is labeled: NA How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

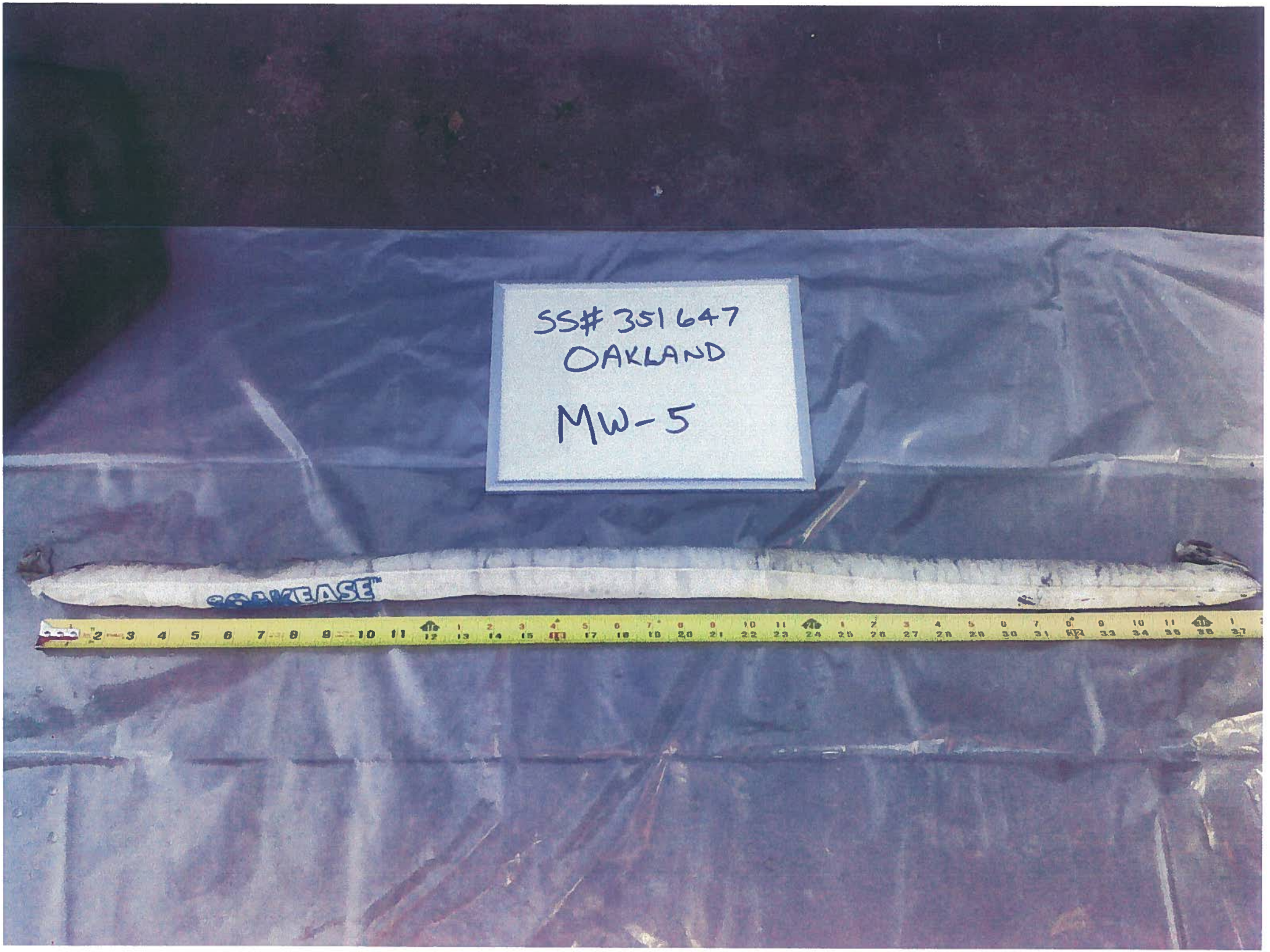
   a. Depth to product: 0

   b. Depth to water: 9.43

   c. Thickness of product (b-a): 0

6. Size and type of sock installed: 37" SOAKEASE

7. Comments: Sock was removed from the well, evaluated and ~~placed in holding drum.~~ SENT TO PACE.
   New sock was installed in the well


SS# 351647
OAKLAND
MW-5
SOAKEASE

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #351647 / 0746** Job Number: **385648**

Site Address: **3943 Broadway** Event Date: 11-16-16 (inclusive)

City: **Oakland, CA** Sampler: FT

Well ID RW-1 Date Monitored: 11-16-16

Well Diameter 2/6 in.

Total Depth 16.34 ft.

Depth to Water 8.30 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

8.04 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: —

Purge Equipment:

- Disposable Bailer
- Stainless Steel Bailer
- Stack Pump
- Peristaltic Pump
- QED Bladder Pump
- Other:

Sampling Equipment:

- Disposable Bailer
- Pressure Bailer
- Metal Filters
- Peristaltic Pump
- QED Bladder Pump
- Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): Weather Conditions:

Sample Time/Date: / Water Color: Odor: Y / N

Approx. Flow Rate: gpm. Sediment Description:

Did well de-water? If yes, Time: Volume: gal. DTW @ Sampling:

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: *MONTHLY PRODUCT GAUGING*

Sock was removed from the well, evaluated and placed in the holding drum. ~~New sock installed in the well.~~

NEW SOCK NOT INSTALLED DUE TO NO HOLDING DRUM ON THE SITE.

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name:	Date:	Project Number:
FRANK TERMINONI	11-16-16	Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: SUNNY

1. Time absorbent sock removed from well for inspection: 0945

2. Condition of sock:

   a. Length of sock showing product saturation: NONE

   b. Length of sock showing dryness: NONE

   c. Color of sock showing product saturation: NONE

   d. Weight of the removed sock: 316 542 02

   e. Weight of new/clean/dry sock: NA

   f. Difference in weight [(d-e) to 0.01 ounces]: NA

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☐

   Confirm drum is labeled: NA How full is the drum (%): NA

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

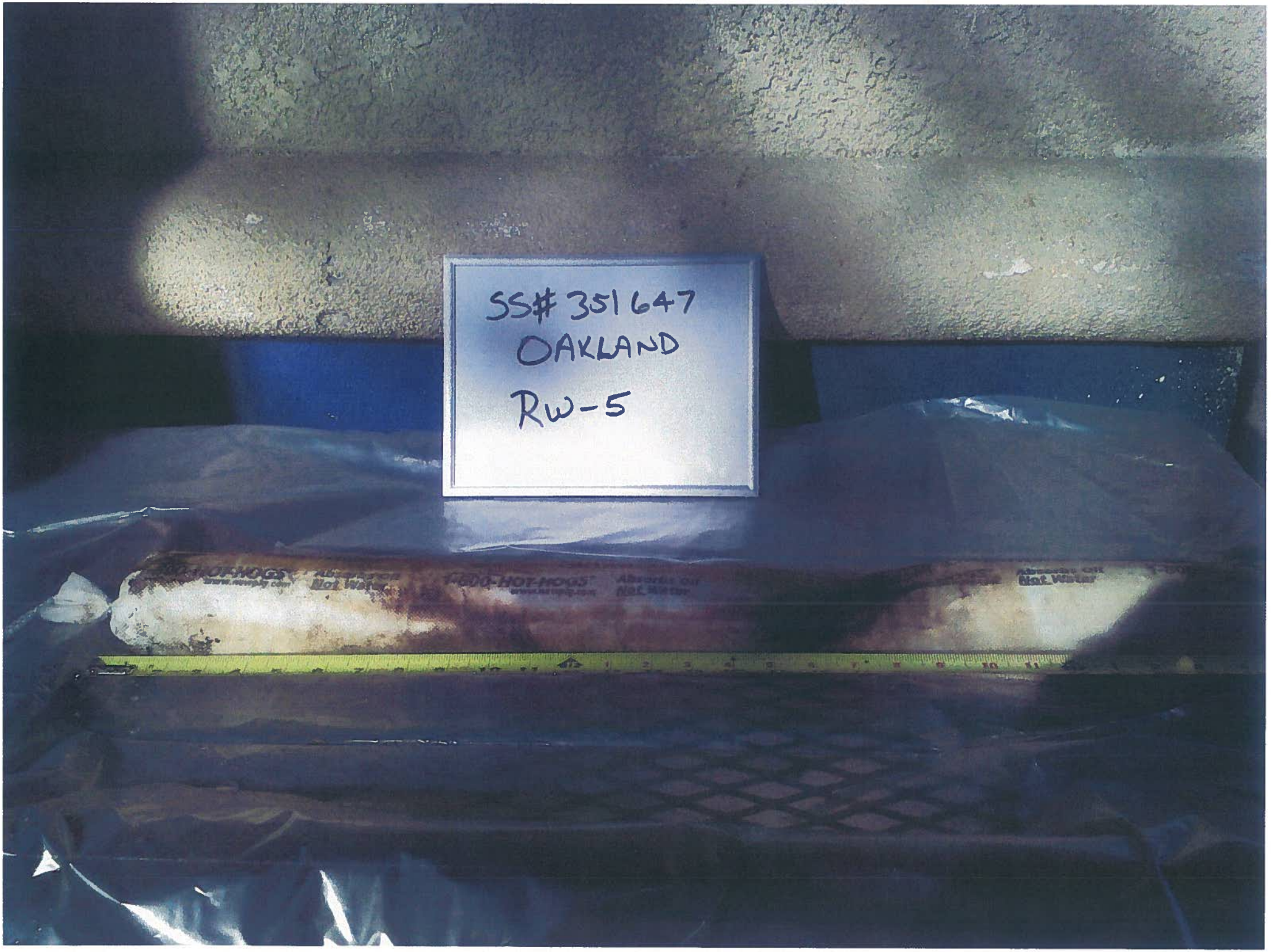
   a. Depth to product: ~~0~~

   b. Depth to water: 8.30

   c. Thickness of product (b-a): ~~0~~

6. Size and type of sock installed: NA

7. Comments: Sock was removed from the well, evaluated and ~~placed in holding drum~~. PUT BACK IN WELL.
   ~~New sock was installed in the well~~ NO HOLDING DRUM ON THE SITE.


SS# 351647
OAKLAND
RW-5

Pace Analytical® Energy Services™

ZymaX Forensics Division
220 William Pitt Way
Pittsburgh, PA 15238
Phone: 412-826-5245
Fax: 412-826-3433

Chain of Custody

**Samples will be disposed of after 30 days unless requested otherwise*

Report To:	Tamera Rogers	Email To:	Tamera.Rogers@arcadis.com
Company:	Arcadis	Phone:	408-797-2013
Address:	6296 San Ignacia Ave. Ste C & D San Jose, CA 95119	Project:	Chevron #351647, Oakland
		Project #:	

ZymaX use only	Sample Description	Date Sampled	Time	Matrix	Preserve	C3-C36 Whole Oil	Oxygenates	Organic Lead/Scavengers	Long List PAH	C3-C10 PIANO	GC/MC Full Scan	Simulated Distillation	# of containers
	MW-5 Sock			**Sock**	**NP**					**X**	**X**		**1**

Analysis Requested

Bill To: Same as Above ☑ Yes
Company:
Address:

PO Number:
Invoice Email: Tamera.Rogers@arcadis.com

Sample Comments:

Laboratory Remarks: Temperature: _____ °C Courier Method: _____

sample integrity upon receipt:

samples received intact	☐	Yes
samples received cold/on ice	☐	Yes
custody seals	☐	Yes
correct container types	☐	Yes

Turnaround Time

ASAP	☐	1wk	☐
48 hr	☐	STD (2wks)	☑
72 hr	☐		

**quicker TAT may result in additional surcharges*

Print Name of Sampler:					
Signature of Sampler:		Date:			
Relinquished By:	Gettler-Ryan Inc.	Date:		Time:	
Relinquished By:		Date:		Time:	
Relinquished By:		Date:		Time:	
Received by Lab:		Date:		Time:	

GETTLER-RYAN INC.

TRANSMITTAL

December 30, 2016
G-R #385648

TO: Ms. Tamera Rogers
Arcadis
6296 San Ignacio Ave., Suite C & D
San Jose, California 95119

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

RE: Former Unocal 0746
Chevron #351647
3943 Broadway
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package **Fourth Quarter Event of December 22, 2016**

COMMENTS:

Pursuant to your request, we are providing you with a copy of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/351647 0746

WELL CONDITION STATUS SHEET

Client/ Facility #: Chevron #351647 / 0746
Site Address: 3943 Broadway
City: Oakland, CA

Job #: 385648
Event Date: 12/22/16
Sampler: GM

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retap	Apron Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) Inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y/(N)	REPLACE CAP Y/(N)	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Y/N
MW-1	ok									DIVERSIFIED/12/2	
MW-2	ok									EMCO	
MW-3	ok									DIVERSIFIED/10/	
MW-4	ok									EMCO/12/	
MW-5	ok										
MW-6	ok										
MW-7	ok										
MW-10	ok			B(2)	ok					UNIVERSAL/8/2	
MW-11	ok										
MW-12	ok									BRAINARD KILLMAN/8/3	
RW-1	ok									EMCO/10/3	

Comments

STANDARD OPERATING PROCEDURE
GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells. Total well depths are measured annually.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 | Job Number: 385648
Site Address: 3943 Broadway | Event Date: 12/22/16 (inclusive)
City: Oakland, CA | Sampler: GM

Well ID: MW-1 | Date Monitored: 12/22/16
Well Diameter: (2) 6 in.
Total Depth: 54.03 ft.
Depth to Water: 7.26 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

46.77 xVF 0.17 = 7.95 x3 case volume = Estimated Purge Volume: 24 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.61

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0925 | Weather Conditions: COLD
Sample Time/Date: 1005 / 12/22/16 | Water Color: CLEAR | Odor: (Y) N SLIGHT
Approx. Flow Rate: 2→1 gpm. | Sediment Description: SILT
Did well de-water? NO | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 15.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0929	8	6.92	615	18.9		
0935	16	6.90	610	18.7		
0943	24	6.89	602	18.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 | Job Number: 385648
Site Address: 3943 Broadway | Event Date: 12/22/16 (inclusive)
City: Oakland, CA | Sampler: GM

Well ID: MW-2 | Date Monitored: 12/22/16
Well Diameter: (2) / 6 in.
Total Depth: 19.82 ft.
Depth to Water: 8.81 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

11.01 xVF 0.17 = 1.87 x3 case volume = Estimated Purge Volume: 6 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.01

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0525 | Weather Conditions: COLD
Sample Time/Date: 0555 / 12/22/16 | Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 10.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) / F)	D.O. (mg/L)	ORP (mV)
0529	2	6.98	569	18.1		
0534	4	6.95	571	18.0		
0540	6	6.93	574	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-3
Well Diameter (2) 6 in.
Total Depth 51.59 ft.
Depth to Water 8.59 ft.
43.00 xVF 0.17 = 7.31 x3 case volume = Estimated Purge Volume: 22 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 17.19

Date Monitored: 12/22/16

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0740 Weather Conditions: COLD
Sample Time/Date: 0825/12/22/16 Water Color: TAN Odor: (Y) N STRONG
Approx. Flow Rate: 2→1 gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 10.33

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature ((C) F)	D.O. (mg/L)	ORP (mV)
0744	8	6.84	884	18.4		
0750	16	6.81	890	18.4		
0756	22	6.79	892	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: SHEEN ON WATER

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-4 Date Monitored: 12/22/16
Well Diameter (2) 6 in.
Total Depth 49.40 ft.
Depth to Water 8.01 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

41.39 xVF 0.17 = 7.03 x3 case volume = Estimated Purge Volume: 22 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.28

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0610 Weather Conditions: COLD
Sample Time/Date: 0650 / 12/22/16 Water Color: CLEAR Odor: (Y) N MODERATE
Approx. Flow Rate: 2 → 1 gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 16.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
0614	8	6.92	886	18.2		
0619	16	6.89	890	18.2		
0625	22	6.88	893	18.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-5 Date Monitored: 12/22/16
Well Diameter (2) 6 in.
Total Depth 50.16 ft.
Depth to Water 8.21 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

41.95 xVF 0.17 = 7.13 x3 case volume = Estimated Purge Volume: 22 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.60

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1125 Weather Conditions: COLD
Sample Time/Date: 1205/12/22/16 Water Color: BLACK Odor: (Y) N STRONG
Approx. Flow Rate: 2 → 1 gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 16.49

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C F)	D.O. (mg/L)	ORP (mV)
1129	8	7.05	1147	19.6		
1136	16	7.02	1155	19.4		
1142	22	7.00	1162	19.4		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: EVALUATED SOCK AND PUT SOCK BACK IN WELL BECAUSE NO DRUM WAS ON-SITE.

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: GILBERT MEDINA	Date: 12/22/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: COLD

1. Time absorbent sock removed from well for inspection: 0135

2. Condition of sock:

   a. Length of sock showing product saturation: 3.15Ft.

   b. Length of sock showing dryness: Ø

   c. Color of sock showing product saturation: BLACK

   d. Weight of the removed sock: 1 LBS 3 1/4 OZ

   e. Weight of new/clean/dry sock: 2 OZ

   f. Difference in weight [(d-e) to 0.01 ounces]: 1 LBS 1 1/4 OZ

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☐

   Confirm drum is labeled: NO DRUM How full is the drum (%): NO DRUM

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: NA

   b. Depth to water: 8.21

   c. Thickness of product (b-a): Ø

6. Size and type of sock installed: 2" SOAKEE

7. Comments: Sock was removed from the well, evaluated ~~and placed in holding drum~~. ~~New sock was installed in the well~~ NO DRUM ON SITE REINSTALLED OLD SOCK

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: GILBERT MEDINA	Date: 12/22/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: MW-5	Weather: COLD

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-6 Date Monitored: 12/22/16
Well Diameter (2) 6 in.
Total Depth 51.22 ft.
Depth to Water 6.96 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

44.26 xVF 0.17 = 7.52 x3 case volume = Estimated Purge Volume: 23 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.81

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0435 Weather Conditions: COLD
Sample Time/Date: 0510 / 12/22/16 Water Color: TAN Odor: (Y) / N SLIGHT
Approx. Flow Rate: 2 → 1 gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 15.42

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
0439	8	6.90	620	18.2		
0445	16	6.86	624	18.0		
0452	23	6.83	626	18.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	(6) x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-7 Date Monitored: 12/22/16
Well Diameter 2 6 in.
Total Depth 49.26 ft.
Depth to Water 8.07 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

41.19 xVF 0.17 = 7.00 x3 case volume = Estimated Purge Volume: 21 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 16.30

Purge Equipment:
Disposable Bailer
Stainless Steel Bailer
Stack Pump X
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer X
Pressure Bailer
Metal Filters
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0345 Weather Conditions: COLD
Sample Time/Date: 0420 12/22/16 Water Color: CLEAR Odor: Y N MODERATE
Approx. Flow Rate: 2→1 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 16.04

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0349	8	6.80	902	18.1		
0355	16	6.82	908	18.0		
0400	21	6.84	911	17.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-10
Well Diameter (2) 6 in.
Total Depth 21.74 ft.
Depth to Water 13.91 ft.
7.83 xVF 0.17 = 1.33 x3 case volume = Estimated Purge Volume: 4 gal.
Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.47

Date Monitored: 12/22/16

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: _____ (2400 hrs)
Time Completed: _____ (2400 hrs)
Depth to Product: _____ ft
Depth to Water: _____ ft
Hydrocarbon Thickness: Ø ft
Visual Confirmation/Description: _____
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: _____ ltr
Amt Removed from Well: _____ ltr
Water Removed: _____ ltr

Start Time (purge): 0215 Weather Conditions: COLD
Sample Time/Date: 0245/12/22/16 Water Color: TAN Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 14.96

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0218	1.5	6.77	591	17.7		
0222	3	6.73	597	17.7		
0226	4	6.71	602	17.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-10	(6) x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-11 Date Monitored: 12/22/16
Well Diameter (2) 6 in.
Total Depth 19.10 ft.
Depth to Water 12.96 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

6.14 xVF 0.17 = 1.04 x3 case volume = Estimated Purge Volume: 3.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.18

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	X	Disposable Bailer	X
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0840 Weather Conditions: COLD
Sample Time/Date: 0910 / 12/22/16 Water Color: CLEAR Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: SL SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 13.94

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0843	1.25	6.61	879	19.3		
0846	2.5	6.64	887	19.1		
0850	3.5	6.67	892	19.0		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-11	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID MW-12 Date Monitored: 12/22/16
Well Diameter 2/6 in.
Total Depth 17.65 ft.
Depth to Water 7.91 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

9.74 xVF 0.17 = 1.65 x3 case volume = Estimated Purge Volume: 5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.85

Purge Equipment:

Disposable Bailer	X
Stainless Steel Bailer	
Stack Pump	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0300 Weather Conditions: COLD
Sample Time/Date: 0330 12/22/16 Water Color: TAN Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: SILT
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.70

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
0303	1.5	6.90	720	18.1		
0306	3	6.89	724	17.9		
0311	5	6.89	726	17.9		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-12	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS:

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: _____ Add/Replaced Plug: _____

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #351647 / 0746 Job Number: 385648
Site Address: 3943 Broadway Event Date: 12/22/16 (inclusive)
City: Oakland, CA Sampler: GM

Well ID RW-1 Date Monitored: 12/22/16
Well Diameter 2 (6) in.
Total Depth 16.34 ft.
Depth to Water 7.32 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

9.02 xVF 1.50 = 13.53 x3 case volume = Estimated Purge Volume: 41 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.12

Purge Equipment:

Disposable Bailer	
Stainless Steel Bailer	
Stack Pump	X
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: 0 ft
Visual Confirmation/Description:

Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1020 Weather Conditions: COLD
Sample Time/Date: 1110 / 12/22/16 Water Color: CLEAR Odor (Y) / N MODERATE
Approx. Flow Rate: 2 → 1 gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.10

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (~~µS~~ mS ~~µmhos~~/cm)	Temperature (C) F)	D.O. (mg/L)	ORP (mV)
1027	14	6.48	353	18.6		
1038	28	6.44	354	18.4		
1051	41	6.43	356	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
RW-1	6 x voa vial	YES	HCL	BC LABS	TPH-GRO(C6-C12)(8015)/BTEX+MTBE(8260)/ EDB/EDC(8260)/ETHANOL(8260B)

COMMENTS: EVALUATED SOCK AND PUT SOCK BACK IN WELL BECAUSE NO DRUM WAS ONSITE.

Add/Replaced Gasket: Add/Replaced Bolt: Add/Replaced Lock: Add/Replaced Plug:

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: GILBERT MEDINA	Date: 12/22/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: COLD

1. Time absorbent sock removed from well for inspection: 0140

2. Condition of sock:

   a. Length of sock showing product saturation: 2.4 ft.

   b. Length of sock showing dryness: Ø

   c. Color of sock showing product saturation: BROWN

   d. Weight of the removed sock: 2 LBS 4 3/8 OZ

   e. Weight of new/clean/dry sock: 5 OZ

   f. Difference in weight [(d-e) to 0.01 ounces]: 1 LBS 15 5/8 OZ

3. Picture of sock removed from well taken: ☑

4. Sock removed from well deposited into a waste drum: ☐

   Confirm drum is labeled: NO DRUM How full is the drum (%): NO DRUM

5. At least 15 minutes after removing the sock from the well, measure (to 0.01ft) from the top of the well casing:

   a. Depth to product: NA

   b. Depth to water: 7.32

   c. Thickness of product (b-a): Ø

6. Size and type of sock installed: 4" SOAKEE

7. Comments: Sock was removed from the well, evaluated ~~and placed in holding drum~~.
   ~~New sock was installed in the well~~ NO DRUM ON SITE
   REINSTALLED OLD SOCK

GETTLER-RYAN INC.

SORBENT SOCK EVALUATION FORM

Name: GILBERT MEDINA	Date: 12/22/16	Project Number: Chevron #351647
Site Address: 3943 Broadway Oakland, CA	Well ID: RW-1	Weather: COLD

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 0746	Union Oil Consultant: ARCADIS
Site Global ID: T0600101471	Consultant Contact: TAMERA RUGGERS
Site Address: 3943 BROADWAY OAKLAND, CA	Consultant Phone No.: (408) 797-2013
	Sampling Company: GETTLER-RYAN INC
Union Oil PM: JAMES P. KIERNAN	Sampled By (PRINT): GILBERT MEDINA
Union Oil PM Phone No.: (925) 842 3220	Sampler Signature:
Charge Code: NWRTB- 0 351647 -0- LAB	BC Laboratories, Inc.
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	**Project Manager: Molly Meyers** 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

Turnaround Time (TAT): Standard ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions: RUN 3 OXYS BY 5260 ON ALL 260 MTBE HITS

SAMPLE ID						ANALYSES REQUIRED												
Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by GC/MS (C6-C12) (8015B)	BTEX/MTBE/DIPE/ETBE/TAME by EPA 8260B	Ethanol by EPA 8260B (8260B)	EPA 8260B Full List with OXYS								Notes / Comments
QA	W-S-A		161222	—	2		X	X										
MW-1	W-S-A			1005	6				X									
MW-2	W-S-A			0555														
MW-3	W-S-A			0825														
MW-4	W-S-A			0650														
MW-5	W-S-A			1205														
MW-6	W-S-A			0510														
MW-7	W-S-A			0420														
MW-10	W-S-A			0245														
MW-11	W-S-A			0910														
MW-12	W-S-A			0330														
RW-1	W-S-A			1110														

Relinquished By	Company	Date / Time:
	GTINC	12/22/16 1300
Relinquished By	Company	Date / Time :
Relinquished By	Company	Date / Time:

Received By	Company	Date / Time:
Steve Bogan	BC(A)	12-22-16 1320
Received By	Company	Date / Time :
Received By	Company	Date / Time:

ATTACHMENT B

[Historical Groundwater Analytical Data]

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
MW-1	--	11/1/1989	--	--	--	--	ND	ND	ND	ND	0.3	
	--	2/15/1990	--	--	--	--	170	7.9	ND	2.2	2.8	
	--	8/16/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/7/1990	--	--	--	--	45	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	0.75	ND	ND	ND	
	81.07	12/21/1992	8.12	72.95	0	--	--	--	--	--	--	
	81.07	1/30/1993	7.63	73.44	0	--	--	--	--	--	--	
	81.07	2/24/1993	7.16	73.91	0	--	1,100	280	4.9	120	140	
	81.07	3/22/1993	6.26	74.81	0	--	--	--	--	--	--	
	81.07	4/28/1993	7.91	73.16	0	--	--	--	--	--	--	
	81.07	5/25/1993	7.87	73.20	0	--	260	27	4.9	2.6	54	
	80.54	6/23/1993	7.66	72.88	0	--	--	--	--	--	--	
	80.54	7/22/1993	7.87	72.67	0	--	--	--	--	--	--	
	80.54	8/25/1993	8.00	72.54	0	--	ND	ND	ND	ND	ND	
	80.54	9/22/1993	8.10	72.44	0	--	--	--	--	--	--	
	80.54	10/28/1993	8.15	72.39	0	--	--	--	--	--	--	
	80.54	11/30/1993	7.65	72.89	0	--	--	--	--	--	--	
	80.54	2/16/1994	7.46	73.08	0	--	ND	0.84	ND	ND	0.59	
	80.54	5/31/1994	7.80	72.74	0	--	--	--	--	--	--	
	80.54	8/31/1994	8.27	72.27	0	--	ND	ND	0.98	ND	0.84	
	80.54	9/27/1994	8.37	72.17	0	--	--	--	--	--	--	
	80.54	10/11/1994	8.36	72.18	0	--	--	--	--	--	--	
	80.54	11/10/1994	6.43	74.11	0	--	--	--	--	--	--	
	80.54	2/7/1995	7.06	73.48	0	--	6,100	670	ND	120	60	
	80.54	5/3/1995	6.85	73.69	0	--	260	21	39	17	24	
	80.54	8/3/1995	7.69	72.85	0	--	--	--	--	--	--	
	80.54	11/7/1995	8.15	72.39	0	--	ND	ND	ND	ND	ND	
	80.54	5/6/1996	7.40	73.14	0	--	170	1.0	20	2.3	17	
	80.54	11/5/1996	7.90	72.64	0	--	ND	ND	ND	ND	ND	
	80.54	5/15/1997	7.77	72.77	0	--	ND	ND	ND	ND	ND	
	80.54	11/12/1997	7.48	73.06	0	--	ND	ND	ND	ND	ND	
	80.54	5/4/1998	7.39	73.15	0	--	ND	ND	ND	ND	ND	
	80.54	11/11/1998	7.37	73.17	0	--	ND	ND	ND	ND	ND	
	80.54	5/20/1999	7.41	73.13	0	--	ND	ND	ND	ND	ND	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	80.54	11/15/1999	7.84	72.70	0	--	ND	ND	ND	ND	ND	
	80.54	5/22/2000	7.53	73.01	0	--	ND	0.89	ND	ND	ND	
	80.54	11/22/2000	7.35	73.19	0	--	ND	ND	ND	ND	ND	
	80.54	5/15/2001	7.48	73.06	0	--	345	ND	3.41	2.77	25.2	
	80.54	11/23/2001	7.57	72.97	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.54	5/24/2002	7.10	73.44	0	--	70	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.54	11/29/2002	7.96	72.58	0	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
	80.54	5/15/2003	7.22	73.32	0	--	ND<250	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
	80.54	11/4/2003	7.94	72.60	0	120	--	ND<1.0	ND<1.0	ND<1.0	ND<2.0	
	80.54	5/24/2004	7.54	73.00	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	11/29/2004	7.27	73.27	0	58	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/24/2005	7.06	73.48	0	87	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/15/2005	7.35	73.19	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/14/2006	7.06	73.48	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/21/2006	7.12	73.42	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.54	6/28/2007	7.79	72.75	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.54	12/13/2007	7.94	72.60	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/9/2008	8.00	72.54	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/30/2008	7.51	73.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	9/28/2009	8.10	72.44	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/15/2009	7.32	73.22	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/28/2010	7.80	72.74	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/29/2010	6.22	74.32	0	99	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/7/2011	6.25	74.29	0	140	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/9/2011	7.97	72.57	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/1/2012	7.63	72.91	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/6/2013	7.88	72.66	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/13/2013	8.34	72.20	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	6/23/2014	8.27	72.27	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/17/2014	5.82	74.72	0	1,100	1,200	50	8.2	14	230	
	80.54	6/9/2015	8.06	72.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	12/30/2015	7.72	72.82	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.54	**6/22/2016**	**8.06**	**72.48**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-2	--	11/1/1989	--	--	--	--	200	ND	ND	3.0	1.2	
	--	2/15/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/16/1990	--	--	--	--	ND	ND	6.7	ND	ND	
	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	0.68	0.42	ND	0.86	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	0.36	0.66	ND	0.62	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	510	ND	ND	ND	ND	
	81.62	12/21/1992	9.14	72.48	0	--	--	--	--	--	--	
	81.62	1/30/1993	8.99	72.63	0	--	--	--	--	--	--	
	81.62	2/24/1993	8.03	73.59	0	--	11,000 J	ND	ND	ND	ND	
	81.62	3/22/1993	9.50	72.12	0	--	--	--	--	--	--	
	81.62	4/28/1993	8.87	72.75	0	--	--	--	--	--	--	
	81.62	5/25/1993	9.04	72.58	0	--	1,300 J	ND	ND	ND	ND	
	81.32	6/23/1993	9.17	72.15	0	--	--	--	--	--	--	
	81.32	7/22/1993	9.42	71.90	0	--	--	--	--	--	--	
	81.32	8/25/1993	9.53	71.79	0	--	190 J	ND	ND	ND	ND	
	81.32	9/22/1993	9.67	71.65	0	--	--	--	--	--	--	
	81.32	10/28/1993	9.65	71.67	0	--	--	--	--	--	--	
	81.32	11/30/1993	9.18	72.14	0	--	480 J	ND	ND	ND	ND	
	81.32	2/16/1994	8.91	72.41	0	--	3,200 J	ND	ND	ND	ND	
	81.32	5/31/1994	9.36	71.96	0	--	1,100 J	ND	ND	ND	ND	
	81.32	8/31/1994	9.85	71.47	0	--	310 J	ND	ND	ND	ND	
	81.32	9/27/1994	9.95	71.37	0	--	--	--	--	--	--	
	81.32	11/10/1994	7.47	73.85	0	--	95 J	ND	ND	ND	ND	
	81.32	2/7/1995	8.29	73.03	0	--	1,600 J	ND	ND	ND	ND	
	81.32	5/3/1995	8.12	73.20	0	--	ND	ND	ND	ND	ND	
	81.32	8/3/1995	9.35	71.97	0	--	ND	ND	ND	ND	ND	
	81.32	8/19/1995	--	--	0	--	--	--	--	--	--	
	81.32	10/11/1995	9.95	71.37	0	--	--	--	--	--	--	
	81.32	11/7/1995	9.65	71.67	0	--	ND	ND	ND	ND	ND	
	81.32	5/6/1996	8.90	72.42	0	--	--	--	--	--	--	
	81.32	11/5/1996	10.98	70.34	0	--	--	--	--	--	--	
	81.32	5/15/1997	9.13	72.19	0	--	--	--	--	--	--	
	81.32	11/12/1997	9.84	71.48	0	--	--	--	--	--	--	
	81.32	5/4/1998	9.26	72.06	0	--	--	--	--	--	--	
	81.32	11/11/1998	8.88	72.44	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.32	5/20/1999	8.68	72.64	0	--	--	--	--	--	--	
	81.32	11/15/1999	8.91	72.41	0	--	--	--	--	--	--	
	81.32	5/22/2000	8.61	72.71	0	--	--	--	--	--	--	
	81.32	11/22/2000	8.64	72.68	0	--	--	--	--	--	--	
	81.32	5/15/2001	8.73	72.59	0	--	--	--	--	--	--	
	81.32	11/23/2001	8.61	72.71	0	--	--	--	--	--	--	
	81.32	5/24/2002	8.03	73.29	0	--	--	--	--	--	--	
	81.32	11/29/2002	8.79	72.53	0	--	--	--	--	--	--	
	81.32	5/15/2003	8.21	73.11	0	--	--	--	--	--	--	
	81.32	11/4/2003	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	5/24/2004	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	11/29/2004	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	6/24/2005	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	12/15/2005	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	6/14/2006	8.56	72.76	0	140	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/21/2006	8.38	72.94	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.32	6/28/2007	9.23	72.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.32	12/13/2007	9.10	72.22	0	ND<50	--	ND<0.50	1.1	ND<0.50	1.4	
	81.32	6/9/2008	10.01	71.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/30/2008	--	--	--	--	--	--	--	--	--	Unable to locate due to debris
	81.32	9/28/2009	--	--	--	--	--	--	--	--	--	Unable to open due to stripped bolts
	81.32	12/15/2009	8.93	72.39	0	69	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	6/28/2010	9.65	71.67	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/29/2010	7.91	73.41	0	67	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	6/7/2011	7.75	73.57	0	73	--	0.97	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/9/2011	8.95	72.37	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	6/1/2012	9.18	72.14	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	6/6/2013	9.40	71.92	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/13/2013	9.68	71.64	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	3.1	
	81.32	6/23/2014	9.69	71.63	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/17/2014	6.88	74.44	0	--	ND<50	0.8	ND<0.50	ND<0.50	ND<1.0	
	81.32	6/9/2015	9.01	72.31	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	12/30/2015	8.89	72.43	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.32	**6/22/2016**	**9.04**	**72.28**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-3	--	11/1/1989	--	--	--	--	13,000	57	48	1.7	120	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	2/15/1990	--	--	--	--	20,000	1,700	2,100	750	3,100	
	--	8/16/1990	--	--	--	--	6,800	600	660	760	160	
	--	11/7/1990	--	--	--	--	42,000	1,400	5,000	1,800	7,500	
	--	2/25/1991	--	--	--	--	37,000	730	2,900	1,300	7,300	
	--	5/28/1991	--	--	--	--	24,000	570	1,100	810	4,200	
	--	8/28/1991	--	--	--	--	16,000	650	2,200	1,100	5,400	
	--	11/19/1991	--	--	--	--	22,000	250	440	660	3,000	
	--	2/6/1992	--	--	--	--	24,000	600	1,800	1,200	5,800	
	--	5/23/1992	--	--	--	--	25,000	300	130	880	4,900	
	--	8/26/1992	--	--	--	--	20,000	690	1,900	1,300	5,700	
	--	11/20/1992	--	--	--	--	1,100,000	1,800	6,400	3,000	15,000	
	82.01	12/4/1992	10.30	71.71	0	--	--	--	--	--	--	
	82.01	12/21/1992	9.78	72.23	0	--	--	--	--	--	--	Sheen
	82.01	1/9/1993	8.55	73.46	0	--	--	--	--	--	--	
	82.01	1/30/1993	8.90	73.11	0	--	--	--	--	--	--	
	82.01	2/10/1993	9.01	72.99	0.01	--	--	--	--	--	--	
	82.01	2/24/1993	8.26	73.74	0.01	--	--	--	--	--	--	
	82.01	3/9/1993	9.18	72.82	0.02	--	--	--	--	--	--	
	82.01	3/22/1993	8.81	73.19	0.02	--	--	--	--	--	--	
	82.01	4/8/1993	9.14	72.86	0.02	--	--	--	--	--	--	
	82.01	4/28/1993	9.44	72.55	0.03	--	--	--	--	--	--	
	82.01	5/12/1993	9.57	72.42	0.03	--	--	--	--	--	--	
	82.01	5/25/1993	9.45	72.54	0.03	--	--	--	--	--	--	
	81.41	6/7/1993	8.94	72.47	0	--	--	--	--	--	--	
	81.41	6/23/1993	9.20	72.20	0.02	--	--	--	--	--	--	
	81.41	7/8/1993	9.31	72.08	0.03	--	--	--	--	--	--	
	81.41	7/22/1993	9.47	71.94	0	--	--	--	--	--	--	
	81.41	8/11/1993	9.59	71.82	0	--	--	--	--	--	--	
	81.41	8/25/1993	9.67	71.72	0.03	--	--	--	--	--	--	
	81.41	9/8/1993	10.34	71.07	0	--	--	--	--	--	--	
	81.41	9/22/1993	9.84	71.56	0.02	--	--	--	--	--	--	
	81.41	10/7/1993	9.87	71.54	0	--	--	--	--	--	--	
	81.41	10/28/1993	10.03	71.38	0	--	--	--	--	--	--	
	81.41	11/12/1993	9.76	71.65	0	--	--	--	--	--	--	
	81.41	11/30/1993	9.66	71.74	0.02	--	--	--	--	--	--	
	81.41	2/16/1994	8.87	72.54	0	--	57,000	910	2,500	2,100	9,000	Sheen

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.41	5/31/1994	9.48	71.93	0	--	39,000	670	630	1,500	6,200	
	81.41	8/31/1994	10.08	71.33	0	--	44,000	500	240	1,400	5,700	
	81.41	9/24/1994	10.22	71.19	0	--	--	--	--	--	--	
	81.41	10/11/1994	10.41	70.99	0.01	--	--	--	--	--	--	LPH in well
	81.41	11/10/1994	7.47	73.94	0	--	86,000	3,300	3,800	1,800	8,300	Sheen
	81.41	2/7/1995	8.05	73.36	0	--	45,000	1,400	1,300	1,500	5,600	
	81.41	3/14/1995	7.05	74.36	0	--	--	--	--	--	--	
	81.41	5/3/1995	7.91	73.50	0	--	26,000	740	990	1,100	4,400	
	81.41	8/3/1995	9.28	72.13	0	--	18,000	59	ND	530	1,900	
	81.41	8/19/1995	--	--	0	--	--	--	--	--	--	
	81.41	11/7/1995	10.79	70.62	0	--	17,000	110	26	400	1,500	
	81.41	5/6/1996	9.44	71.97	0	--	5,100	48	ND	87	210	Sheen
	81.41	11/5/1996	10.64	70.77	0	--	35,000	2,200	ND	1,200	2,800	
	81.41	5/15/1997	9.61	71.80	0	--	2,400	110	ND	ND	140	
	81.41	11/12/1997	9.18	72.23	0	--	29,000	2,000	ND	1,800	3,000	
	81.41	5/4/1998	9.50	71.91	0	--	8,200	430	ND	310	320	
	81.41	11/11/1998	9.25	72.16	0	--	8,700	500	ND	330	310	
	81.41	5/20/1999	8.95	72.46	0	--	4,300	250	ND	ND	86	
	81.41	11/15/1999	10.35	71.06	0	--	6,720	326	ND	398	226	
	81.41	5/22/2000	9.14	72.27	0	--	4,000	99	4.5	190	75	
	81.41	11/22/2000	9.33	72.08	0	--	6,130	93.7	6.71	174	47.8	
	81.41	5/15/2001	9.25	72.16	0	--	4,490	229	7.09	160	31.6	
	81.41	11/23/2001	9.12	72.29	0	--	3,500	41	ND<5.0	120	8.0	
	81.41	5/24/2002	8.58	72.83	0	--	4,000	86	6.0	120	5.8	
	81.41	11/29/2002	9.81	71.60	0	--	5,300	ND<25	ND<25	65	ND<50	
	81.41	5/15/2003	8.76	72.65	0	--	5,600	ND<5.0	ND<5.0	81	ND<10	
	81.41	11/4/2003	9.90	71.51	0	13,000	--	ND<20	ND<20	72	56	
	81.41	5/24/2004	9.29	72.12	0	10,000	--	14	ND<10	81	ND<20	
	81.41	11/29/2004	9.15	72.26	0	9,000	--	5.9	ND<5.0	45	ND<10	
	81.41	6/24/2005	8.65	72.76	0	5,600	--	31	4.1	97	220	
	81.41	12/15/2005	9.27	72.14	0	6,800	--	81	45	110	220	
	81.41	6/14/2006	8.73	72.68	0	10,000	--	38	ND<2.5	130	170	
	81.41	12/21/2006	8.95	72.46	0	6,600	--	36	ND<2.5	150	120	
	81.41	6/28/2007	10.01	71.40	0	6,700	--	33	ND<0.50	70	24	
	81.41	12/13/2007	10.22	71.19	0	4,000	--	20	ND<1.0	51	19	
	81.41	6/9/2008	10.25	71.16	0	9,700	--	190	ND<2.5	170	48	

Table 4
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76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.41	12/30/2008	--	--	--	--	--	--	--	--	--	Unable to locate due to debris
	81.41	9/28/2009	10.15	71.26	0	6,200	--	39	ND<2.5	170	12	
	81.41	12/15/2009	9.18	72.23	0	3,300	--	9.1	ND<2.5	47	5.6	
	81.41	6/28/2010	9.82	71.59	0	10,000	--	13	ND<0.50	92	14	
	81.41	12/29/2010	7.84	73.57	0	3,900	--	16	ND<0.50	36	5.2	
	81.41	6/7/2011	6.10	75.31	0	3,700	--	170	ND<1.0	150	40	
	81.41	12/9/2011	10.08	71.33	0	--	9,900	11	ND<2.5	98	47	
	81.41	6/1/2012	9.92	71.49	0	--	4,300	4.6	ND<0.50	17	3.4	
	81.41	11/23/2012	9.78	71.63	0	--	2,000	1.3	ND<0.50	12	ND<1.0	
	81.41	12/13/2013	10.39	71.02	0	--	1,100	ND<0.50	ND<0.50	23	4.2	
	81.41	6/23/2014	10.28	71.13	0	--	4,200	87	ND<0.50	76	13	
	81.41	12/17/2014	7.99	73.42	0	8,700	5,900	35	ND<0.50	56	4.7	
	81.41	6/9/2015	9.74	71.67	0	--	6,500	4	ND<0.50	ND<0.50	ND<1.0	Sheen
	81.41	12/30/2015	9.44	71.97	0	--	3,100	2.3	ND<0.50	20	ND<1.0	
	81.41	**6/22/2016**	**9.81**	**71.60**	**0**	**--**	**1,900**	**71**	**ND<2.5**	**81**	**6.2**	
MW-4	--	2/15/1990	--	--	--	--	150	8.0	8.0	10	45	
	--	8/16/1990	--	--	--	--	3,600	480	17	230	260	
	--	11/7/1990	--	--	--	--	180	1.5	0.37	6.3	26	
	--	2/25/1991	--	--	--	--	22,000	600	1,300	780	2,800	
	--	5/28/1991	--	--	--	--	38	ND	ND	ND	2	
	--	8/28/1991	--	--	--	--	2,000	1,500	20	120	300	
	--	11/19/1991	--	--	--	--	55	9.2	4.5	1.4	6.7	
	--	2/6/1992	--	--	--	--	5,700	2,200	140	57	980	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	120	86	0.52	0.57	1.6	
	--	11/20/1992	--	--	--	--	ND	6.2	ND	1.2	0.52	
	81.48	1/30/1993	8.35	73.13	0	--	--	--	--	--	--	
	81.48	2/24/1993	8.17	73.31	0	--	140	12	0.64	9.4	3.7	
	81.48	3/22/1993	8.12	73.36	0	--	--	--	--	--	--	
	81.48	4/28/1993	9.36	72.12	0	--	--	--	--	--	--	
	81.48	5/25/1993	8.75	72.73	0	--	74	10	ND	4.6	1.8	
	81.29	6/23/1993	8.90	72.39	0	--	--	--	--	--	--	
	81.29	7/22/1993	9.26	72.03	0	--	--	--	--	--	--	
	81.29	8/25/1993	9.45	71.84	0	--	640	100	1.1	100	22	
	81.29	9/22/1993	9.63	71.66	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.29	10/28/1993	9.62	71.67	0	--	--	--	--	--	--	
	81.29	11/30/1993	9.40	71.89	0	--	200	28	ND	17	8.1	
	81.48	12/21/1993	9.10	72.38	0	--	--	--	--	--	--	
	81.29	2/16/1994	9.21	72.08	0	--	190	11	0.98	21	6.6	
	81.29	5/31/1994	9.11	72.18	0	--	1,100	190	ND	100	58	
	81.29	8/31/1994	10.01	71.28	0	--	400	17	0.94	14	5.2	
	81.29	9/27/1994	10.09	71.20	0	--	--	--	--	--	--	
	81.29	10/11/1994	11.50	69.79	0	--	--	--	--	--	--	
	81.29	11/10/1994	9.21	72.08	0	--	7,700	1,800	280	460	1,300	
	81.29	2/7/1995	7.66	73.63	0	--	540	47	ND	17	2.5	
	81.29	5/3/1995	8.29	73.00	0	--	160	8.3	0.52	1.5	3.7	
	81.29	8/3/1995	8.60	72.69	0	--	57	2.0	ND	ND	ND	
	81.29	8/19/1995	--	--	0	--	--	--	--	--	--	
	81.29	11/7/1995	10.28	71.01	0	--	ND	0.71	ND	ND	ND	
	81.29	5/6/1996	8.70	72.59	0	--	1,200	12	11	15	36	
	81.29	11/5/1996	10.00	71.29	0	--	700	32	0.71	1.8	1.3	
	81.29	5/15/1997	9.37	71.92	0	--	51	ND	ND	ND	ND	
	81.29	11/12/1997	8.92	72.37	0	--	74	1.7	ND	ND	ND	
	81.29	5/4/1998	9.48	71.81	0	--	ND	ND	ND	ND	ND	
	81.29	11/11/1998	9.13	72.16	0	--	ND	0.63	ND	ND	ND	
	81.29	5/20/1999	8.41	72.88	0	--	ND	ND	ND	ND	ND	
	81.29	11/15/1999	9.68	71.61	0	--	ND	ND	ND	ND	ND	
	81.29	5/22/2000	8.60	72.69	0	--	ND	ND	ND	ND	ND	
	81.29	11/22/2000	8.91	72.38	0	--	ND	ND	ND	ND	ND	
	81.29	5/15/2001	8.66	72.63	0	--	ND	ND	1.10	ND	1.16	
	81.29	11/23/2001	8.84	72.45	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.29	5/24/2002	7.93	73.36	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.29	11/29/2002	9.34	71.95	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.29	5/15/2003	7.87	73.42	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.48	11/4/2003	9.45	72.03	0	61	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.48	5/24/2004	8.49	72.99	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.48	11/29/2004	9.01	72.47	0	120	--	ND<0.50	ND<0.50	0.52	ND<1.0	
	81.48	6/24/2005	7.81	73.67	0	90	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.48	12/15/2005	8.73	72.75	0	170	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.48	6/14/2006	7.43	74.05	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/21/2006	7.04	--	0	62	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	Casing elevation modified on 6/21/2006

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	6/28/2007	11.49	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	--	12/13/2007	11.79	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/9/2008	12.24	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/30/2008	9.34	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	9/28/2009	--	--	--	--	--	--	--	--	--	Car parked over well
	--	12/15/2009	10.22	--	0	1,800	--	4.4	ND<0.50	8.5	ND<1.0	
	--	6/28/2010	11.74	--	0	230	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/29/2010	9.33	--	0	5,300	--	0.72	0.55	35	ND<1.0	
	--	6/7/2011	8.68	--	0	3,900	--	ND<2.5	ND<2.5	46	ND<5.0	
	--	12/9/2011	9.04	--	0	--	1,900	ND<0.50	ND<0.50	1.4	ND<1.0	
	--	6/1/2012	9.92	--	0	--	680	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
	--	6/6/2013	9.17	--	0	--	410	0.52	ND<0.50	ND<0.50	ND<1.0	
	--	12/13/2013	10.05	--	0	--	3,200	2.1	ND<0.50	3.2	ND<1.0	
	--	6/23/2014	10.28	--	0	--	2,600	2.5	ND<0.50	9.1	ND<1.0	
	--	12/17/2014	9.32	--	0	1,900	1,800	4.5	ND<0.50	9.1	ND<1.0	
	--	6/9/2015	9.41	--	0	--	2,200	1.8	ND<0.50	11	ND<1.0	
	--	12/30/2015	9.78	--	0	--	5,000	1.4	ND<0.50	9.3	ND<1.0	
	--	**6/22/2016**	**9.08**	**--**	**0**	**--**	**1,900**	**ND<0.50**	**ND<0.50**	**7.2**	**ND<1.0**	
MW-5	--	2/15/1990	--	--	--	--	24,000	1,500	1,700	260	3,600	
	--	8/16/1990	--	--	--	--	16,000	1,400	1,900	2,800	660	
	--	11/7/1990	--	--	--	--	20,000	640	1,100	670	3,000	
	--	2/25/1991	--	--	--	--	25,000	950	1,300	900	3,500	
	--	5/28/1991	--	--	--	--	24,000	2,300	3,400	1,300	6,000	
	--	8/28/1991	--	--	--	--	--	--	--	--	--	
	--	11/19/1991	--	--	--	--	--	--	--	--	--	
	--	2/6/1992	--	--	--	--	--	--	--	--	--	
	--	5/23/1992	--	--	--	--	--	--	--	--	--	
	--	8/26/1992	--	--	--	--	--	--	--	--	--	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	
	81.59	12/4/1992	10.03	71.50	0.08	--	--	--	--	--	--	
	81.59	12/21/1992	9.50	72.08	0.01	--	--	--	--	--	--	
	81.59	1/9/1993	8.22	73.37	0	--	--	--	--	--	--	
	81.59	1/30/1993	8.58	73.01	0	--	--	--	--	--	--	Sheen
	81.59	2/10/1993	8.68	72.91	0	--	--	--	--	--	--	Sheen
	81.59	2/24/1993	7.91	73.67	0.01	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.59	3/9/1993	8.87	72.71	0.01	--	--	--	--	--	--	
	81.59	3/22/1993	8.46	73.12	0.01	--	--	--	--	--	--	
	81.59	4/8/1993	8.84	72.74	0.01	--	--	--	--	--	--	
	81.59	4/28/1993	9.14	72.43	0.02	--	--	--	--	--	--	
	81.59	5/12/1993	9.28	72.29	0.02	--	--	--	--	--	--	
	81.59	5/25/1993	9.63	71.86	0.13	--	--	--	--	--	--	
	81.38	6/7/1993	9.75	71.62	0.01	--	--	--	--	--	--	
	81.38	6/23/1993	9.32	72.04	0.03	--	--	--	--	--	--	
	81.38	7/8/1993	9.48	71.87	0.04	--	--	--	--	--	--	
	81.38	7/22/1993	9.73	71.53	0.16	--	--	--	--	--	--	
	81.38	8/11/1993	9.84	71.51	0.04	--	--	--	--	--	--	
	81.38	8/25/1993	9.81	71.55	0.02	--	--	--	--	--	--	
	81.38	9/8/1993	10.09	71.27	0.03	--	--	--	--	--	--	
	81.38	9/22/1993	10.01	71.33	0.05	--	--	--	--	--	--	
	81.38	10/7/1993	9.94	71.42	0.03	--	--	--	--	--	--	
	81.38	10/28/1993	10.04	71.32	0.02	--	--	--	--	--	--	
	81.38	11/12/1993	9.79	71.59	0	--	--	--	--	--	--	
	81.38	11/30/1993	9.62	71.76	0	--	--	--	--	--	--	
	81.38	2/16/1994	8.95	72.41	0.02	--	--	--	--	--	--	
	81.38	5/31/1994	9.63	71.75	0	--	43,000	1,500	1,200	1,600	6,700	
	81.38	8/31/1994	10.25	71.11	0.02	--	--	--	--	--	--	
	81.38	9/27/1994	10.38	71.00	0	--	--	--	--	--	--	
	81.38	10/11/1994	10.45	70.91	0.02	--	--	--	--	--	--	
	81.38	11/10/1994	7.54	73.78	0.08	--	--	--	--	--	--	
	81.38	2/7/1995	8.10	73.28	0	--	25,000	1,400	740	990	3,000	
	81.38	3/14/1995	7.04	74.34	0	--	--	--	--	--	--	
	81.38	5/3/1995	7.98	73.40	0	--	12,000	680	160	600	1,800	
	81.38	8/3/1995	9.25	72.13	0	--	23,000	940	280	810	2,700	
	81.38	8/19/1995	--	--	0	--	--	--	--	--	--	
	81.38	11/7/1995	10.00	71.38	0	--	40,000	510	280	1,000	5,700	
	81.38	5/6/1996	9.03	72.35	0	--	13,000	200	ND	180	610	Sheen
	81.38	11/5/1996	10.41	70.97	0	--	35,000	1,800	ND	1,300	4,900	
	81.38	5/15/1997	9.41	71.97	0	--	10,000	490	ND	ND	1,300	Sheen
	81.38	11/12/1997	9.27	72.11	0	--	100	5	ND	ND	ND	
	81.38	5/4/1998	9.18	72.20	0	--	39,000	1,600	230	1,000	3,200	
	81.38	11/11/1998	9.23	71.87	0.37	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.38	2/22/1999	7.69	73.50	0.25	--	--	--	--	--	--	
	81.38	4/2/1999	8.19	72.98	0.28	--	--	--	--	--	--	
	81.38	5/4/1999	8.44	72.93	0.01	--	--	--	--	--	--	
	81.38	5/20/1999	8.73	72.62	0.04	--	--	--	--	--	--	
	81.38	6/29/1999	8.91	72.43	0.05	--	--	--	--	--	--	
	81.38	7/29/1999	9.12	72.21	0.07	--	--	--	--	--	--	
	81.38	8/24/1999	9.37	71.94	0.09	--	--	--	--	--	--	
	81.38	9/27/1999	9.51	71.82	0.06	--	--	--	--	--	--	
	81.38	10/28/1999	--	--	0.05	--	--	--	--	--	--	
	81.38	11/15/1999	9.29	72.09	0	--	--	--	--	--	--	Sheen
	81.38	12/20/1999	9.14	72.24	0	--	--	--	--	--	--	
	81.38	1/20/2000	9.08	72.30	0	--	--	--	--	--	--	
	81.38	2/26/2000	8.69	72.69	0	--	--	--	--	--	--	
	81.38	3/31/2000	8.48	72.90	0	--	--	--	--	--	--	
	81.38	4/13/2000	8.66	72.72	0	--	--	--	--	--	--	
	81.38	5/22/2000	9.06	72.32	0	--	240,000	33,000	5,000	18,000	59,000	
	81.38	11/22/2000	9.24	71.64	0.67	--	--	--	--	--	--	
	81.38	2/14/2001	7.63	73.50	0.33	--	--	--	--	--	--	
	81.38	3/28/2001	8.82	72.56	0	--	--	--	--	--	--	
	81.38	4/28/2001	8.66	72.72	0	--	--	--	--	--	--	
	81.38	5/15/2001	8.97	72.41	0	--	--	--	--	--	--	
	81.38	6/29/2001	8.73	72.65	0	--	--	--	--	--	--	
	81.38	7/17/2001	8.92	72.44	0.02	--	--	--	--	--	--	
	81.38	8/30/2001	8.85	72.53	0	--	--	--	--	--	--	
	81.38	9/24/2001	8.89	72.49	0	--	--	--	--	--	--	
	81.38	10/15/2001	9.11	72.25	0.03	--	--	--	--	--	--	
	81.38	11/23/2001	8.77	72.61	0	--	29,000	3,900	450	1,400	3,500	
	81.38	12/10/2001	8.75	72.63	0	--	--	--	--	--	--	
	81.38	1/14/2002	8.26	73.12	0	--	--	--	--	--	--	
	81.38	2/22/2002	6.30	75.08	0	--	--	--	--	--	--	
	81.38	3/11/2002	6.47	74.91	0	--	--	--	--	--	--	
	81.38	4/15/2002	6.56	74.82	0	--	--	--	--	--	--	
	81.38	5/24/2002	8.32	72.95	0.15	--	--	--	--	--	--	
	81.38	6/17/2002	8.41	72.82	0.2	--	--	--	--	--	--	
	81.38	7/15/2002	8.63	72.60	0.2	--	--	--	--	--	--	
	81.38	8/19/2002	8.76	72.39	0.31	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.38	9/5/2002	8.73	72.53	0.16	--	--	--	--	--	--	
	81.38	10/7/2002	8.79	72.52	0.09	--	--	--	--	--	--	
	81.38	11/29/2002	9.18	72.16	0.05	--	--	--	--	--	--	
	81.38	12/12/2002	9.12	72.23	0.04	--	--	--	--	--	--	
	81.38	1/6/2003	9.05	72.31	0.03	--	--	--	--	--	--	
	81.38	2/12/2003	8.87	72.48	0.04	--	--	--	--	--	--	
	81.38	3/13/2003	8.25	73.11	0.03	--	--	--	--	--	--	
	81.38	4/7/2003	8.31	73.05	0.02	--	--	--	--	--	--	
	81.38	5/15/2003	8.58	72.78	0.03	--	--	--	--	--	--	
	81.38	6/12/2003	8.63	72.73	0.02	--	--	--	--	--	--	
	81.38	7/7/2003	8.59	72.77	0.02	--	--	--	--	--	--	
	81.38	8/14/2003	8.65	72.71	0.03	--	--	--	--	--	--	
	81.38	9/12/2003	8.82	72.54	0.03	--	--	--	--	--	--	
	81.38	11/4/2003	9.90	71.29	0.25	--	--	--	--	--	--	
	81.38	5/24/2004	9.33	71.86	0.25	--	--	--	--	--	--	
	81.38	11/29/2004	9.16	72.38	0.21	--	--	--	--	--	--	
	81.38	6/24/2005	8.41	72.97	0	53,000	--	560	230	1,600	5,100	
	81.38	12/15/2005	8.96	72.42	0	27,000	--	130	ND<25	560	1,800	
	81.38	6/14/2006	8.41	72.97	0	11,000	--	110	ND<12	360	640	
	81.38	12/21/2006	9.65	71.73	0	78,000	--	490	43	1,400	4,300	
	81.38	6/28/2007	9.99	71.17	0.29	--	--	--	--	--	--	
	81.38	12/13/2007	10.12	71.13	0.17	--	--	--	--	--	--	
	81.38	6/9/2008	10.12	71.13	0.17	--	--	--	--	--	--	
	81.38	12/30/2008	9.33	71.95	0.13	--	--	--	--	--	--	
	81.38	9/28/2009	9.77	71.60	0.01	--	--	--	--	--	--	
	81.38	12/15/2009	8.87	72.50	0.01	--	--	--	--	--	--	
	81.38	6/28/2010	9.82	71.18	0.5	--	--	--	--	--	--	
	81.38	12/29/2010	8.69	71.57	1.49	--	--	--	--	--	--	
	81.38	2/1/2011	8.30	72.07	1.35	--	--	34,000	--	--	--	
	81.38	6/7/2011	5.43	75.95	0	37,000	--	ND<12	ND<12	190	450	
	81.38	9/13/2011	6.70	74.68	0	--	--	--	--	--	--	
	81.38	10/21/2011	6.72	74.66	0	--	--	--	--	--	--	
	81.38	11/4/2011	6.64	74.74	0	--	--	--	--	--	--	
	81.38	12/9/2011	10.02	71.20	0.21	--	--	--	--	--	--	
	81.38	1/12/2012	10.12	71.24	0.02	--	--	--	--	--	--	
	81.38	6/1/2012	8.22	73.14	0.02	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.38	6/6/2013	9.75	71.63	0	--	30,000	410	7	970	1,300	
	81.38	12/13/2013	10.30	70.92	0.21	--	--	--	--	--	--	
	81.38	6/23/2014	10.26	70.96	0.21	--	--	--	--	--	--	
	81.38	12/17/2014	6.61	74.75	0.03	--	--	--	--	--	--	
	81.38	6/9/2015	9.41	71.95	0.03	--	--	--	--	--	--	
	81.38	9/2/2015	10.58	70.57	0.30	--	--	--	--	--	--	
	81.38	10/16/2015	10.91	70.21	0.35	--	--	--	--	--	--	
	81.38	11/12/2015	10.40	70.81	0.22	--	--	--	--	--	--	
	81.38	12/30/2015	9.35	71.89	0.19	--	--	--	--	--	--	
	81.38	**6/22/2016**	**9.43**	**71.95**	**0**	**--**	**17,000**	**210**	**ND<5.0**	**450**	**540**	
MW-6	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	ND	0.37	0.4	0.35	1.5	
	--	5/28/1991	--	--	--	--	ND	ND	ND	ND	0.42	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	80.47	12/21/1992	7.71	72.76	0	--	--	--	--	--	--	
	80.47	1/30/1993	7.25	73.22	0	--	--	--	--	--	--	
	80.47	2/24/1993	6.74	73.73	0	--	ND	ND	ND	ND	ND	
	80.47	3/22/1993	5.85	74.62	0	--	--	--	--	--	--	
	80.47	4/28/1993	7.58	72.89	0	--	--	--	--	--	--	
	80.47	5/25/1993	7.48	72.99	0	--	ND	ND	ND	ND	ND	
	79.94	6/23/1993	7.34	72.60	0	--	--	--	--	--	--	
	79.94	7/22/1993	7.53	72.41	0	--	--	--	--	--	--	
	79.94	8/25/1993	7.66	72.28	0	--	ND	ND	ND	ND	ND	
	79.94	9/22/1993	7.76	72.18	0	--	--	--	--	--	--	
	79.94	10/28/1993	8.30	71.64	0	--	--	--	--	--	--	
	79.94	11/30/1993	7.40	72.54	0	--	--	--	--	--	--	
	79.94	2/16/1994	7.13	72.81	0	--	ND	ND	ND	ND	ND	
	79.94	5/31/1994	7.49	72.45	0	--	--	--	--	--	--	
	79.94	8/31/1994	7.93	72.01	0	--	ND	ND	1.5	ND	1.6	
	79.94	9/27/1994	8.03	71.91	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.94	10/11/1994	8.05	71.89	0	--	--	--	--	--	--	
	79.94	11/10/1994	6.12	73.82	0	--	--	--	--	--	--	
	79.94	2/7/1995	6.65	73.29	0	--	ND	ND	ND	ND	ND	
	79.94	5/3/1995	6.47	73.47	0	--	ND	ND	ND	ND	1.0	
	79.94	8/3/1995	7.28	72.66	0	--	--	--	--	--	--	
	79.94	11/7/1995	7.98	71.96	0	--	ND	ND	ND	ND	ND	
	79.94	5/6/1996	7.80	72.14	0	--	--	--	--	--	--	
	79.94	11/5/1996	7.63	72.31	0	--	--	--	--	--	--	
	79.94	5/15/1997	7.41	72.53	0	--	--	--	--	--	--	
	79.94	11/12/1997	7.51	72.43	0	--	--	--	--	--	--	
	79.94	5/4/1998	7.15	72.79	0	--	--	--	--	--	--	
	79.94	11/11/1998	7.04	72.90	0	--	--	--	--	--	--	
	79.94	5/20/1999	7.00	72.94	0	--	--	--	--	--	--	
	79.94	11/15/1999	7.42	72.52	0	--	--	--	--	--	--	
	79.94	5/22/2000	7.24	72.70	0	--	--	--	--	--	--	
	79.94	11/22/2000	7.40	72.54	0	--	--	--	--	--	--	
	79.94	5/15/2001	7.12	72.82	0	--	--	--	--	--	--	
	79.94	11/23/2001	7.19	72.75	0	--	--	--	--	--	--	
	79.94	5/24/2002	6.54	73.40	0	--	--	--	--	--	--	
	79.94	11/29/2002	7.26	72.68	0	--	--	--	--	--	--	
	79.94	5/15/2003	6.26	73.68	0	--	--	--	--	--	--	
	79.94	11/4/2003	7.80	72.14	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	5/24/2004	7.54	72.40	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	11/29/2004	7.01	72.93	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/24/2005	7.68	72.26	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/15/2005	7.49	72.45	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/14/2006	6.45	73.49	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/21/2006	6.91	73.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	79.94	6/28/2007	7.46	72.48	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	79.94	12/13/2007	7.41	72.53	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/9/2008	8.20	71.74	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/30/2008	7.47	72.47	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	9/28/2009	7.96	71.98	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/15/2009	7.22	72.72	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/28/2010	7.68	72.26	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/29/2010	5.93	74.01	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.94	6/7/2011	6.24	73.70	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/9/2011	6.75	73.19	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/1/2012	7.32	72.62	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/6/2013	7.50	72.44	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/13/2013	8.02	71.92	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/23/2014	7.87	72.07	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/17/2014	5.54	74.40	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	6/9/2015	7.71	72.23	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	12/30/2015	7.21	72.73	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.94	**6/22/2016**	**7.91**	**72.03**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-7	--	11/7/1990	--	--	--	--	ND	ND	ND	ND	ND	
	--	2/25/1991	--	--	--	--	70	ND	ND	ND	0.52	
	--	5/28/1991	--	--	--	--	39	ND	ND	ND	0.73	
	--	8/28/1991	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/19/1991	--	--	--	--	32	ND	ND	ND	ND	
	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	0.73	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	81.83	12/21/1992	8.42	73.41	0	--	--	--	--	--	--	
	81.83	1/30/1993	8.21	73.62	0	--	--	--	--	--	--	
	81.83	2/24/1993	7.85	73.98	0	--	ND	ND	ND	ND	ND	
	81.83	3/22/1993	6.97	74.86	0	--	--	--	--	--	--	
	81.83	4/28/1993	8.39	73.44	0	--	--	--	--	--	--	
	81.83	5/25/1993	8.43	73.40	0	--	ND	ND	ND	ND	ND	
	81.64	6/23/1993	8.47	73.17	0	--	--	--	--	--	--	
	81.64	7/22/1993	8.83	72.81	0	--	--	--	--	--	--	
	81.64	8/25/1993	8.81	72.83	0	--	ND	ND	ND	ND	ND	
	81.64	9/22/1993	8.96	72.68	0	--	--	--	--	--	--	
	81.64	10/28/1993	8.98	72.66	0	--	--	--	--	--	--	
	81.64	11/30/1993	8.65	72.99	0	--	--	--	--	--	--	
	81.64	2/16/1994	8.36	73.28	0	--	ND	ND	ND	ND	0.7	
	81.64	5/31/1994	8.67	72.97	0	--	--	--	--	--	--	
	81.64	8/31/1994	9.12	72.52	0	--	ND	ND	0.8	ND	0.75	
	81.64	9/27/1994	9.22	72.42	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.64	10/11/1994	9.23	72.41	0	--	--	--	--	--	--	
	81.64	11/10/1994	7.66	73.98	0	--	--	--	--	--	--	
	81.64	2/7/1995	7.88	73.76	0	--	ND	ND	ND	ND	ND	
	81.64	5/3/1995	7.71	73.93	0	--	ND	ND	ND	ND	1.0	
	81.64	8/3/1995	8.40	73.24	0	--	--	--	--	--	--	
	81.64	11/7/1995	8.95	72.69	0	--	ND	ND	ND	ND	ND	
	81.64	5/6/1996	8.15	73.49	0	--	--	--	--	--	--	
	81.64	11/5/1996	8.67	72.97	0	--	--	--	--	--	--	
	81.64	5/15/1997	8.47	73.17	0	--	--	--	--	--	--	
	81.64	11/12/1997	7.88	73.76	0	--	--	--	--	--	--	
	81.64	5/4/1998	7.93	73.71	0	--	--	--	--	--	--	
	81.64	11/11/1998	8.20	73.44	0	--	--	--	--	--	--	
	81.64	5/20/1999	8.04	73.60	0	--	--	--	--	--	--	
	81.64	11/15/1999	8.17	73.47	0	--	--	--	--	--	--	
	81.64	5/22/2000	8.10	73.54	0	--	--	--	--	--	--	
	81.64	11/22/2000	8.30	73.34	0	--	--	--	--	--	--	
	81.64	5/15/2001	8.09	73.55	0	--	--	--	--	--	--	
	81.64	11/23/2001	8.14	73.50	0	--	--	--	--	--	--	
	81.64	5/24/2002	7.56	74.08	0	--	--	--	--	--	--	
	81.64	11/29/2002	8.23	73.41	0	--	--	--	--	--	--	
	81.64	5/15/2003	7.25	74.39	0	--	--	--	--	--	--	
	81.64	11/4/2003	8.76	72.88	0	70	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.64	5/24/2004	8.32	73.32	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.64	11/29/2004	8.21	73.43	0	62	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.64	6/24/2005	7.84	73.80	0	85	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.64	12/15/2005	8.15	73.49	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.64	6/14/2006	7.76	73.88	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/21/2006	7.64	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	Casing elevation modified on 6/21/2006
	--	6/28/2007	8.18	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	--	12/13/2007	8.52	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/9/2008	8.67	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/30/2008	8.46	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	9/28/2009	8.30	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/15/2009	8.22	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/28/2010	8.02	--	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/29/2010	7.18	--	0	56	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	--	6/7/2011	6.97	--	0	790	--	11	ND<0.50	6.5	ND<1.0	
	--	12/9/2011	8.54	--	0	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/1/2012	8.22	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/6/2013	8.56	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/13/2013	9.09	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/23/2014	9.01	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/17/2014	6.95	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	6/9/2015	8.82	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	12/30/2015	8.58	--	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	**6/22/2016**	**8.79**	**--**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-8	--	11/7/1990	--	--	--	--	4,700	28	38	86	7,200	
	--	2/25/1991	--	--	--	--	5,300	17	6.1	53	300	
	--	5/28/1991	--	--	--	--	4,800	4.2	1.3	5.1	170	
	--	8/28/1991	--	--	--	--	1,800	3.2	1.9	19	74	
	--	11/19/1991	--	--	--	--	1,600	8.1	1.8	19	52	
	--	2/6/1992	--	--	--	--	2,600	4.1	7.0	31	93	
	--	5/23/1992	--	--	--	--	2,100	8.6	1.6	1.7	28	
	--	8/26/1992	--	--	--	--	1,800	12	8.0	4.0	13	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	12/21/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	1/9/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	1/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	2/10/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	2/24/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	3/9/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	3/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	4/8/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	4/28/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	5/12/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.71	5/25/1993	10.12	71.59	0	--	1,200	5.4	ND	9.0	21	
	81.41	6/7/1993	9.98	71.43	0	--	--	--	--	--	--	Inaccessible
	81.41	6/23/1993	10.36	71.05	0	--	--	--	--	--	--	Inaccessible
	81.41	7/8/1993	10.52	70.89	0	--	--	--	--	--	--	Inaccessible
	81.41	7/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	8/11/1993	--	--	--	--	--	--	--	--	--	Inaccessible

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.41	8/25/1993	10.95	70.46	0	--	1,800	11	17	8.9	29	
	81.41	9/8/1993	11.34	70.07	0	--	--	--	--	--	--	Inaccessible
	81.41	9/22/1993	11.13	70.28	0	--	--	--	--	--	--	Inaccessible
	81.41	10/7/1993	10.96	70.45	0	--	--	--	--	--	--	Inaccessible
	81.41	10/28/1993	11.19	70.22	0	--	--	--	--	--	--	Inaccessible
	81.41	11/12/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	11/30/1993	10.42	70.99	0	--	3,500	18	ND	ND	ND	
	81.41	2/16/1994	9.86	71.55	0	--	990	4.9	1.8	2.4	4.5	
	81.41	5/31/1994	10.61	70.80	0	--	350	3.0	1.0	0.73	1.7	
	81.41	8/31/1994	11.37	70.04	0	--	1,800	ND	ND	ND	ND	
	81.41	9/27/1994	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	10/11/1994	11.50	69.91	0	--	--	--	--	--	--	Inaccessible
	81.41	11/10/1994	7.81	73.60	0	--	940	6.7	6.3	ND	16	
	81.41	2/7/1995	8.69	72.72	0	--	230	1.4	0.95	0.9	1.1	
	81.41	5/3/1995	8.60	72.81	0	--	75	ND	ND	ND	1.0	
	81.41	8/3/1995	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	11/7/1995	11.05	70.36	0	--	210	1.3	1.2	ND	ND	
	81.41	5/6/1996	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	11/5/1996	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	5/15/1997	10.46	70.95	0	--	ND	ND	ND	ND	ND	
	81.41	11/12/1997	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	5/4/1998	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	11/11/1998	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	5/20/1999	9.75	71.66	0	--	ND	ND	ND	ND	ND	
	81.41	11/15/1999	--	--	--	--	--	--	--	--	--	Car parked over well
	81.41	5/22/2000	9.80	71.61	0	--	ND	ND	1.9	ND	3.3	
	81.41	11/22/2000	9.76	71.65	0	--	ND	ND	1.16	ND	1.22	
	81.41	5/15/2001	9.87	71.54	0	--	ND	ND	ND	ND	ND	
	81.41	11/23/2001	9.92	71.49	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.41	5/24/2002	9.26	72.15	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.41	11/29/2002	9.71	71.70	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	5/15/2003	9.04	72.37	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	11/4/2003	10.20	71.21	0	690	--	ND<1.0	ND<1.0	3.3	ND<2.0	
	81.41	5/24/2004	10.04	71.37	0	450	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	
	81.41	11/29/2004	9.88	71.53	0	1,500	--	ND<10	ND<10	ND<10	ND<20	
	81.41	6/24/2005	9.40	72.01	0	150	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.41	12/15/2005	10.01	71.40	0	520	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	6/14/2006	5.91	75.50	0	230	--	ND<0.50	ND<0.50	0.60	ND<1.0	
	81.41	12/21/2006	9.65	71.76	0	260	--	2.5	ND<0.50	12	43	
	81.41	6/28/2007	11.10	70.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.41	12/13/2007	11.18	70.23	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	6/9/2008	11.25	70.16	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	12/30/2008	10.05	71.36	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	9/28/2009	11.10	70.31	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	12/15/2009	10.00	71.41	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	6/28/2010	10.86	70.55	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	12/29/2010	8.57	72.84	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.41	6/7/2011	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	12/9/2011	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	6/1/2012	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	6/6/2013	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	12/13/2013	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	6/23/2014	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	12/17/2014	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	6/9/2015	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	12/30/2015	--	--	--	--	--	--	--	--	--	Inaccessible
	81.41	**6/22/2016**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Inaccessible
MW-9	--	11/7/1990	--	--	--	--	480	7.8	1.2	13	47	
	--	2/25/1991	--	--	--	--	390	13	1.1	2.8	14	
	--	5/28/1991	--	--	--	--	590	6.0	0.43	6.8	1.4	
	--	8/28/1991	--	--	--	--	450	17	0.9	13	14	
	--	11/19/1991	--	--	--	--	360	17	0.45	15	11	
	--	2/6/1992	--	--	--	--	660	41	1.0	33	15	
	--	5/23/1992	--	--	--	--	460	18	0.66	1.4	3.2	
	--	8/26/1992	--	--	--	--	250	13	ND	8.6	3.8	
	--	11/20/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.13	12/21/1992	--	--	--	--	--	--	--	--	--	Inaccessible
	81.13	1/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.13	2/24/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.13	3/22/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.13	4/28/1993	--	--	--	--	--	--	--	--	--	Inaccessible

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.13	5/25/1993	11.50	69.63	0	--	160	6.1	ND	7.4	1.1	
	80.53	6/23/1993	9.78	70.75	0	--	--	--	--	--	--	Inaccessible
	80.53	7/22/1993	10.10	70.43	0	--	--	--	--	--	--	Inaccessible
	80.53	8/25/1993	10.44	70.09	0	--	220	10	ND	6.8	1.4	
	80.53	9/22/1993	10.64	69.89	0	--	--	--	--	--	--	Inaccessible
	80.53	10/28/1993	10.68	69.85	0	--	--	--	--	--	--	Inaccessible
	80.53	11/30/1993	9.87	70.66	0	--	200	5.6	ND	2.9	2.7	
	80.53	2/16/1994	9.21	71.32	0	--	250	5.1	1.3	4.4	1.5	
	80.53	5/31/1994	10.15	70.38	0	--	360	7.8	0.97	4.6	2.2	
	80.53	8/31/1994	10.97	69.56	0	--	650	7.7	2.8	4.4	5.0	
	80.53	9/27/1994	11.10	69.43	0	--	--	--	--	--	--	Inaccessible
	80.53	10/11/1994	11.20	69.33	0	--	--	--	--	--	--	Inaccessible
	80.53	11/10/1994	7.25	73.28	0	--	ND	ND	ND	ND	ND	
	80.53	2/7/1995	7.76	72.77	0	--	57	0.7	ND	0.86	ND	
	80.53	5/3/1995	7.82	72.71	0	--	ND	0.85	0.67	1.3	1.0	
	80.53	8/3/1995	9.70	70.83	0	--	91	1.1	ND	ND	ND	
	80.53	11/7/1995	10.64	69.89	0	--	130	1.5	0.62	0.71	ND	
	80.53	5/6/1996	9.01	71.52	0	--	860	6.1	13	6.0	25	
	80.53	11/5/1996	11.42	69.11	0	--	84	0.74	ND	1.2	4.5	
	80.53	5/15/1997	9.89	70.64	0	--	ND	ND	ND	ND	ND	
	80.53	11/12/1997	10.22	70.31	0	--	ND	0.55	ND	ND	ND	
	80.53	5/4/1998	10.05	70.48	0	--	ND	ND	ND	ND	ND	
	80.53	11/11/1998	9.23	71.30	0	--	ND	ND	ND	ND	ND	
	80.53	5/20/1999	8.78	71.75	0	--	ND	ND	ND	ND	ND	
	80.53	11/15/1999	9.12	71.41	0	--	ND	ND	ND	ND	ND	
	80.53	5/22/2000	9.17	71.36	0	--	ND	ND	1.9	ND	3.5	
	80.53	11/22/2000	9.08	71.45	0	--	ND	ND	1.18	ND	1.16	
	80.53	5/15/2001	8.85	71.68	0	--	ND	ND	ND	ND	ND	
	80.53	11/23/2001	9.10	71.43	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.53	5/24/2002	8.79	71.74	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	80.53	11/29/2002	9.24	71.29	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	5/15/2003	8.56	71.97	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	11/4/2003	--	--	--	--	--	--	--	--	--	Car parked over well
	80.53	5/24/2004	9.38	71.15	0	330	--	1.8	ND<0.50	ND<0.50	ND<1.0	
	80.53	11/29/2004	9.55	70.98	0	690	--	0.72	ND<0.50	1.3	ND<1.0	
	80.53	6/24/2005	8.65	71.88	0	240	--	0.80	ND<0.50	0.55	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	80.53	12/15/2005	9.43	71.10	0	400	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	6/14/2006	9.43	71.10	0	<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	12/21/2006	9.01	71.52	0	580	--	ND<0.50	ND<0.50	0.71	ND<0.50	
	80.53	6/28/2007	11.64	68.89	0	1,200	--	0.81	ND<0.50	ND<0.50	0.54	
	80.53	12/13/2007	11.18	69.35	0	1,100	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	6/9/2008	11.10	69.43	0	1,500	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	12/30/2008	9.66	70.87	0	970	--	ND<0.50	ND<0.50	0.84	ND<1.0	
	80.53	9/28/2009	10.83	69.70	0	860	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	12/15/2009	10.00	70.53	0	870	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	6/28/2010	10.45	70.08	0	360	--	ND<0.50	ND<0.50	1.0	ND<1.0	
	80.53	12/29/2010	7.72	72.81	0	53	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.53	6/7/2011	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	12/9/2011	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	6/1/2012	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	6/6/2013	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	12/13/2013	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	6/23/2014	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	12/17/2014	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	6/9/2015	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	12/30/2015	--	--	--	--	--	--	--	--	--	Inaccessible
	80.53	**6/22/2016**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	Inaccessible
MW-10	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	81.90	12/21/1992	13.41	68.49	0	--	--	--	--	--	--	
	81.90	1/30/1993	11.60	70.30	0	--	--	--	--	--	--	
	81.90	2/24/1993	11.23	70.67	0	--	ND	ND	ND	ND	ND	
	81.90	3/22/1993	10.89	71.01	0	--	--	--	--	--	--	
	81.90	4/28/1993	12.11	69.79	0	--	--	--	--	--	--	
	81.90	5/25/1993	12.02	69.88	0	--	ND	ND	ND	ND	ND	
	81.61	6/23/1993	12.11	69.50	0	--	--	--	--	--	--	
	81.61	7/22/1993	12.49	69.12	0	--	--	--	--	--	--	
	81.61	8/25/1993	12.78	68.83	0	--	ND	ND	ND	ND	ND	
	81.61	9/22/1993	13.06	68.55	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.61	10/28/1993	13.23	68.38	0	--	--	--	--	--	--	
	81.61	11/30/1993	--	--	--	--	--	--	--	--	--	Inaccessible
	81.61	2/16/1994	12.43	69.18	0	--	ND	ND	ND	ND	ND	
	81.61	5/31/1994	12.69	68.92	0	--	ND	ND	0.9	ND	0.91	
	81.61	8/31/1994	13.47	68.14	0	--	ND	ND	0.64	ND	0.54	
	81.61	9/27/1994	13.72	67.89	0	--	--	--	--	--	--	
	81.61	10/11/1994	14.80	66.81	0	--	--	--	--	--	--	
	81.61	11/10/1994	12.64	68.97	0	--	ND	ND	ND	ND	ND	
	81.61	2/7/1995	10.29	71.32	0	--	--	--	--	--	--	
	81.61	5/3/1995	10.22	71.39	0	--	ND	ND	ND	ND	0.65	
	81.61	8/3/1995	11.73	69.88	0	--	--	--	--	--	--	
	81.61	11/7/1995	12.98	68.63	0	--	ND	ND	ND	ND	ND	
	81.61	5/6/1996	10.90	70.71	0	--	--	--	--	--	--	
	81.61	11/5/1996	11.96	69.65	0	--	--	--	--	--	--	
	81.61	5/15/1997	10.79	70.82	0	--	--	--	--	--	--	
	81.61	11/12/1997	10.07	71.54	0	--	--	--	--	--	--	
	81.61	5/4/1998	10.01	71.60	0	--	--	--	--	--	--	
	81.61	11/11/1998	12.03	69.58	0	--	--	--	--	--	--	
	81.61	5/20/1999	10.05	71.56	0	--	--	--	--	--	--	
	81.61	11/15/1999	10.16	71.45	0	--	--	--	--	--	--	
	81.61	5/22/2000	10.06	71.55	0	--	--	--	--	--	--	
	81.61	11/22/2000	10.12	71.49	0	--	--	--	--	--	--	
	81.61	5/15/2001	10.08	71.53	0	--	--	--	--	--	--	
	81.61	11/23/2001	10.14	71.47	0	--	--	--	--	--	--	
	81.61	5/24/2002	9.48	72.13	0	--	--	--	--	--	--	
	81.61	11/29/2002	10.11	71.50	0	--	--	--	--	--	--	
	81.61	5/15/2003	9.22	72.39	0	--	--	--	--	--	--	
	81.61	11/4/2003	12.82	68.79	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	5/24/2004	11.52	70.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	11/29/2004	12.58	69.03	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/24/2005	10.70	70.91	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/15/2005	12.09	69.52	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/14/2006	9.77	71.84	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/21/2006	11.57	70.04	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.61	6/28/2007	14.11	67.50	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	81.61	12/13/2007	15.72	65.89	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

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76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	81.61	6/9/2008	14.93	66.68	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/30/2008	13.56	68.05	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	9/28/2009	13.52	68.09	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/15/2009	14.02	67.59	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/28/2010	13.55	68.06	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/29/2010	13.23	68.38	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/7/2011	12.36	69.25	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/9/2011	14.41	67.20	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/1/2012	12.65	68.96	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/6/2013	13.28	68.33	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/13/2013	14.48	67.13	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/23/2014	14.10	67.51	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/17/2014	12.93	68.68	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	6/9/2015	14.04	67.57	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	12/30/2015	14.66	66.95	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	81.61	**6/22/2016**	**13.58**	**68.03**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-11	--	2/6/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	5/23/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	78.43	12/21/1992	12.34	66.09	0	--	--	--	--	--	--	
	78.43	1/30/1993	14.17	64.26	0	--	--	--	--	--	--	
	78.43	2/24/1993	12.70	65.73	0	--	ND	ND	ND	ND	ND	
	78.43	3/22/1993	8.95	69.48	0	--	--	--	--	--	--	
	78.43	4/28/1993	13.87	64.56	0	--	--	--	--	--	--	
	78.43	5/25/1993	15.14	63.29	0	--	ND	ND	0.75	ND	1.0	
	78.43	6/23/1993	15.08	63.10	0	--	--	--	--	--	--	
	78.43	7/22/1993	15.46	62.72	0	--	--	--	--	--	--	
	78.43	8/25/1993	14.10	64.08	0	--	ND	ND	ND	ND	ND	
	78.43	9/22/1993	15.03	63.15	0	--	--	--	--	--	--	
	78.43	10/28/1993	13.84	64.34	0	--	--	--	--	--	--	
	78.43	11/30/1993	13.04	65.14	0	--	ND	ND	ND	ND	ND	
	78.43	2/16/1994	12.76	65.42	0	--	ND	ND	ND	ND	ND	
	78.43	5/31/1994	12.79	65.39	0	--	ND	ND	ND	ND	ND	
	78.43	8/31/1994	12.97	65.21	0	--	ND	ND	1.5	ND	1.8	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	78.43	9/27/1994	14.88	63.30	0	--	--	--	--	--	--	
	78.43	10/11/1994	13.40	64.78	0	--	--	--	--	--	--	
	78.43	11/10/1994	13.57	64.61	0	--	ND	ND	ND	ND	ND	
	78.43	2/7/1995	12.28	65.90	0	--	--	--	--	--	--	
	78.43	5/3/1995	9.28	68.90	0	--	ND	ND	ND	ND	ND	
	78.43	8/3/1995	12.67	65.51	0	--	--	--	--	--	--	
	78.43	11/7/1995	12.28	65.90	0	--	ND	ND	ND	ND	ND	
	78.43	5/6/1996	13.30	64.88	0	--	--	--	--	--	--	
	78.43	11/5/1996	10.90	67.28	0	--	--	--	--	--	--	
	78.43	5/15/1997	11.65	66.53	0	--	--	--	--	--	--	
	78.43	11/12/1997	9.66	68.52	0	--	--	--	--	--	--	
	78.43	5/4/1998	10.87	67.31	0	--	--	--	--	--	--	
	78.43	11/11/1998	11.40	66.78	0	--	--	--	--	--	--	
	78.43	5/20/1999	10.71	67.47	0	--	ND	ND	ND	ND	ND	
	78.43	11/15/1999	11.32	66.86	0	--	ND	ND	1.04	ND	ND	
	78.43	5/22/2000	10.98	67.20	0	--	ND	ND	ND	ND	ND	
	78.43	11/22/2000	11.17	67.01	0	--	ND	ND	ND	ND	ND	
	78.43	5/15/2001	10.93	67.25	0	--	ND	ND	ND	ND	ND	
	78.43	11/23/2001	11.08	67.10	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	78.43	5/24/2002	10.58	67.60	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	78.43	11/29/2002	11.27	66.91	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	5/15/2003	10.25	67.93	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	11/4/2003	11.23	66.95	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	5/24/2004	10.10	68.08	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	11/29/2004	10.96	67.22	0	63	--	ND<0.50	ND<0.50	1.0	2.5	
	78.43	6/24/2005	14.07	64.11	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	12/15/2005	13.28	64.90	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	6/14/2006	12.53	65.65	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	12/21/2006	12.78	65.40	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	78.43	6/28/2007	--	--	--	--	--	--	--	--	--	Bus parked over well
	78.43	12/13/2007	15.37	62.81	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	6/9/2008	14.80	63.38	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	12/30/2008	12.90	65.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	9/28/2009	12.57	65.61	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	12/15/2009	--	--	--	--	--	--	--	--	--	Car parked over well
	78.43	6/28/2010	14.42	63.76	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	78.43	12/29/2010	15.40	62.78	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.43	6/7/2011	15.79	62.39	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/9/2011	13.27	64.91	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/1/2012	14.50	63.68	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/6/2013	15.32	62.86	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/13/2013	15.04	63.14	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/23/2014	--	--	--	--	--	--	--	--	--	Unable to access
	78.18	12/17/2014	14.56	63.62	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	6/9/2015	14.51	63.67	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	12/30/2015	10.81	67.37	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	78.18	**6/22/2016**	**13.07**	**65.11**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
MW-12	--	8/26/1992	--	--	--	--	ND	ND	ND	ND	ND	
	--	11/20/1992	--	--	--	--	ND	ND	ND	ND	ND	
	79.89	12/21/1992	12.11	67.78	0	--	--	--	--	--	--	
	79.89	1/30/1993	13.18	66.71	0	--	--	--	--	--	--	
	79.89	2/24/1993	12.13	67.76	0	--	ND	ND	ND	ND	ND	
	79.89	3/22/1993	11.22	68.67	0	--	--	--	--	--	--	
	79.89	4/28/1993	13.42	66.47	0	--	--	--	--	--	--	
	79.89	5/25/1993	13.68	66.21	0	--	ND	ND	ND	ND	ND	
	79.61	6/23/1993	14.56	65.05	0	--	--	--	--	--	--	
	79.61	7/22/1993	14.96	64.65	0	--	--	--	--	--	--	
	79.61	8/25/1993	13.61	66.00	0	--	ND	ND	ND	ND	ND	
	79.61	9/22/1993	15.02	64.59	0	--	--	--	--	--	--	
	79.61	10/28/1993	14.04	65.57	0	--	--	--	--	--	--	
	79.61	11/30/1993	13.28	66.33	0	--	ND	ND	ND	ND	ND	
	79.61	2/16/1994	12.76	66.85	0	--	ND	ND	ND	ND	ND	
	79.61	5/31/1994	12.64	66.97	0	--	ND	ND	0.81	ND	0.82	
	79.61	8/31/1994	12.82	66.79	0	--	ND	ND	1.0	ND	1.0	
	79.61	9/27/1994	14.66	64.95	0	--	--	--	--	--	--	
	79.61	10/11/1994	14.25	65.36	0	--	--	--	--	--	--	
	79.61	11/10/1994	13.40	66.21	0	--	ND	ND	ND	ND	ND	
	79.61	2/7/1995	11.72	67.89	0	--	--	--	--	--	--	
	79.61	5/3/1995	13.38	66.23	0	--	ND	ND	ND	ND	ND	
	79.61	8/3/1995	13.47	66.14	0	--	--	--	--	--	--	
	79.61	11/7/1995	12.78	66.83	0	--	ND	ND	ND	ND	ND	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.61	5/6/1996	13.25	66.36	0	--	--	--	--	--	--	
	79.61	11/5/1996	11.88	67.73	0	--	--	--	--	--	--	
	79.61	5/15/1997	11.72	67.89	0	--	--	--	--	--	--	
	79.61	11/12/1997	10.01	69.60	0	--	--	--	--	--	--	
	79.61	5/4/1998	10.96	68.65	0	--	--	--	--	--	--	
	79.61	11/11/1998	11.53	68.08	0	--	--	--	--	--	--	
	79.61	5/20/1999	10.84	68.77	0	--	--	--	--	--	--	
	79.61	11/15/1999	11.36	68.25	0	--	--	--	--	--	--	
	79.61	5/22/2000	11.19	68.42	0	--	--	--	--	--	--	
	79.61	11/22/2000	11.36	68.25	0	--	--	--	--	--	--	
	79.61	5/15/2001	11.04	68.57	0	--	--	--	--	--	--	
	79.61	11/23/2001	11.14	68.47	0	--	--	--	--	--	--	
	79.61	5/24/2002	10.69	68.92	0	--	--	--	--	--	--	
	79.61	11/29/2002	11.23	68.38	0	--	--	--	--	--	--	
	79.61	5/15/2003	10.38	69.23	0	--	--	--	--	--	--	
	79.61	11/4/2003	11.34	68.27	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	5/24/2004	9.84	69.77	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	11/29/2004	12.17	67.44	0	64	--	0.68	ND<0.50	1.2	3.0	
	79.61	6/24/2005	13.16	66.45	0	53	--	ND<0.50	ND<0.50	0.13	0.42	
	79.61	12/15/2005	13.94	65.67	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/14/2006	13.11	66.50	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/21/2006	9.03	70.58	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	79.61	6/28/2007	11.75	67.86	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
	79.61	12/13/2007	14.83	64.78	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/9/2008	14.84	64.77	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/30/2008	13.22	66.39	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	9/28/2009	10.55	69.06	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/15/2009	9.33	70.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/28/2010	9.31	70.30	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/29/2010	9.51	70.10	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/7/2011	7.33	72.28	0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/9/2011	9.42	70.19	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/1/2012	10.13	69.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/6/2013	9.52	70.09	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/13/2013	10.96	68.65	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/23/2014	11.11	68.50	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	79.61	12/17/2014	9.76	69.85	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	6/9/2015	10.13	69.48	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	12/30/2015	10.06	69.55	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	79.61	**6/22/2016**	**10.27**	**69.34**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
RW-1	81.20	2/24/1993	7.19	74.01	0	--	--	--	--	--	--	
	81.20	5/12/1993	8.82	72.38	0	--	--	--	--	--	--	
	81.20	5/25/1993	8.58	72.62	0	--	--	--	--	--	--	
	80.63	6/7/1993	8.16	72.47	0	--	--	--	--	--	--	
	80.63	6/23/1993	8.53	72.10	0	--	--	--	--	--	--	
	80.63	7/8/1993	8.69	71.94	0	--	--	--	--	--	--	
	80.63	8/11/1993	9.00	71.63	0	--	--	--	--	--	--	
	80.63	8/25/1993	9.07	71.56	0	--	--	--	--	--	--	
	80.63	9/8/1993	9.71	70.92	0	--	--	--	--	--	--	
	80.63	9/22/1993	9.25	71.38	0	--	--	--	--	--	--	
	80.63	11/12/1993	9.00	71.63	--	--	--	--	--	--	--	
	80.63	2/16/1994	7.82	72.81	0	--	--	--	--	--	--	
	80.63	5/31/1994	8.81	71.82	0	--	--	--	--	--	--	
	80.63	8/31/1994	9.61	71.02	0	--	--	--	--	--	--	
	80.63	11/10/1994	6.34	74.29	0	--	--	--	--	--	--	
	80.63	2/7/1995	7.18	73.45	0	--	--	--	--	--	--	
	80.63	3/14/1995	6.01	74.62	0	--	--	--	--	--	--	
	--	11/7/1995	--	--	--	--	--	--	--	--	--	
	80.63	10/15/2001	8.43	72.20	0	--	--	--	--	--	--	
	80.63	11/23/2001	8.57	72.06	0	--	--	--	--	--	--	
	80.63	12/10/2001	8.51	72.12	0	--	--	--	--	--	--	
	80.63	1/14/2002	8.13	72.50	0	--	--	--	--	--	--	
	80.63	2/22/2002	6.18	74.45	0	--	--	--	--	--	--	
	80.63	3/11/2002	6.31	74.32	0	--	--	--	--	--	--	
	80.63	4/15/2002	6.39	74.24	0	--	--	--	--	--	--	
	80.63	5/24/2002	8.14	72.49	0	--	--	--	--	--	--	
	80.63	6/17/2002	8.18	72.45	0	--	--	--	--	--	--	
	80.63	7/15/2002	8.29	72.34	0	--	--	--	--	--	--	
	80.63	8/19/2002	8.44	72.19	0	--	--	--	--	--	--	
	80.63	9/5/2002	8.47	72.16	0	--	--	--	--	--	--	
	80.63	10/7/2002	8.43	72.20	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	80.63	11/29/2002	8.92	71.71	0	--	--	--	--	--	--	
	80.63	12/12/2002	8.87	71.76	0	--	--	--	--	--	--	
	80.63	1/6/2003	8.66	71.97	0	--	--	--	--	--	--	
	80.63	2/12/2003	8.39	72.24	0	--	--	--	--	--	--	
	80.63	3/13/2003	8.06	72.57	0	--	--	--	--	--	--	
	80.63	4/7/2003	8.09	72.54	0	--	--	--	--	--	--	
	80.63	5/15/2003	8.07	72.56	0	--	--	--	--	--	--	
	80.63	6/12/2003	8.11	72.52	0	--	--	--	--	--	--	
	80.63	7/7/2003	8.13	72.50	0	--	--	--	--	--	--	
	80.63	8/14/2003	8.23	72.40	0	--	--	--	--	--	--	
	80.63	9/12/2003	8.29	72.34	0	--	--	--	--	--	--	
	80.63	11/4/2003	9.97	70.66	0	2,600	--	11	ND<10	ND<10	ND<20	
	80.63	5/24/2004	8.31	72.32	0	3,100	--	20	ND<5.0	16	ND<10	
	80.63	11/29/2004	8.23	72.40	0	4,500	--	46	ND<1.0	34	3.6	
	80.63	6/24/2005	7.53	73.10	0	2,000	--	20	0.87	50	3.0	
	80.63	12/15/2005	8.11	72.52	0	3,300	--	37	0.70	35	4.7	
	80.63	6/14/2006	7.41	73.22	0	1,500	--	2.0	0.95	6.9	ND<1.0	
	80.63	12/21/2006	7.78	72.85	0	3,100	--	21	0.65	56	5.4	
	80.63	6/28/2007	9.09	71.54	0	2,800	--	46	0.96	44	2.6	
	80.63	12/13/2007	9.21	71.42	0	9,100	--	190	2.1	400	81	
	80.63	6/9/2008	9.30	71.33	0	5,400	--	23	ND<2.5	330	13	
	80.63	12/30/2008	8.23	72.40	0	5,800	--	130	ND<2.5	270	58	
	80.63	9/28/2009	9.10	71.53	0	3,400	--	3.8	ND<2.5	23	5.0	
	80.63	12/15/2009	7.96	72.67	0	9,100	--	18	ND<2.5	450	160	
	80.63	6/28/2010	8.68	71.95	0	2,300	--	20	1.0	56	ND<1.0	
	80.63	12/29/2010	6.04	74.59	0	4,100	--	9.3	1.3	6.8	ND<1.0	
	80.63	6/7/2011	3.61	77.02	0	730	--	4.1	ND<0.50	16	ND<1.0	
	80.63	10/21/2011	5.45	75.18	0	--	--	--	--	--	--	
	80.63	12/9/2011	9.28	71.35	0	--	2,900	240	1.2	180	30	
	80.63	1/12/2012	9.53	71.10	0	--	--	--	--	--	--	

Table 4
Historical Groundwater Monitoring Data and Analytical Results
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	TOC* (ft)	DATE	DTW (ft)	GWE* (ft)	LNAPL THICKNESS (ft)	TPH-GRO (8260B)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	COMMENTS
	80.63	6/1/2012	8.48	72.15	0	--	3,600	140	ND<2.5	56	ND<5.0	
	80.63	6/6/2013	8.73	71.90	0	--	1,300	1.2	1.4	5.8	ND<1.0	
	80.63	12/13/2013	9.20	71.43	0	--	150	0.81	ND<0.50	ND<0.50	ND<1.0	
	80.63	6/23/2014	9.20	71.43	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	12/17/2014	5.81	74.82	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	6/9/2015	8.10	72.53	0	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	10/16/2015	9.58	71.05	0	--	--	--	--	--	--	
	80.63	11/12/2015	9.18	71.45	0	--	--	--	--	--	--	
	80.63	12/30/2015	7.94	72.69	0	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	80.63	**6/22/2016**	**8.41**	**72.22**	**0**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	
QA	--	12/30/2015	--	--	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
	--	**6/22/2016**	**--**	**--**	**--**	**--**	**ND<50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<1.0**	

NOTES:
* TOC and GWE are in feet above mean sea level. GWE for wells with LNAPL has been adjusted for LNAPL thickness.
µg/L = Micrograms per liter
-- = Not available/not sampled
8260B = Analyzed by Environmental Protection Agency (EPA) Method 8260B
B = Benzene
DTW = Depth to water below TOC
E = Ethylbenzene
ft = Feet
GWE = Groundwater elevation
ID = Identification
J = Laboratory estimated value
LNAPL = Light non-aqueous phase liquid
ND = Not detected
ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit
QA = Quality assurance/trip blank
T = Toluene
TOC = Top of casing
TPH-g = Total petroleum hydrocarbons as gasoline; reported as Total Purgeable Petroleum Hydrocarbons in the laboratory report
TPH-GRO = Total petroleum hydrocarbons-gasoline range organics
X = Total xylenes

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
MW-1	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	55	--	--	--	--	--	--	--	--	--
	11/5/1996	5.2	--	--	--	--	--	--	--	--	--
	5/15/1997	16	--	--	--	--	--	--	--	--	--
	11/12/1997	11	--	--	--	--	--	--	--	--	--
	5/4/1998	320	--	--	--	--	--	--	--	--	--
	11/11/1998	200	--	--	--	--	--	--	--	--	--
	5/20/1999	89	47	ND	ND	ND	ND	ND	--	--	--
	11/15/1999	8.12	7.19	ND	ND	ND	ND	ND	--	--	--
	5/22/2000	220	290	130	ND	ND	ND	ND	--	--	--
	11/22/2000	105	142	--	--	ND	ND	ND	--	--	--
	5/15/2001	178	374	ND	ND	ND	ND	ND	--	--	--
	11/23/2001	350	350	ND<57	ND<1,400	ND<2.9	ND<2.9	ND<2.9	ND<2.9	--	ND<2.9
	5/24/2002	200	240	ND<200	ND<1,000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	ND<4.0
	11/29/2002	--	330	ND<500	ND<2,500	ND<10	ND<10	ND<10	ND<10	--	ND<10
	5/15/2003	--	210	ND<500	ND<2,500	ND<10	ND<10	ND<10	ND<10	--	ND<10
	11/4/2003	--	140	ND<200	ND<1,000	ND<4.0	ND<4.0	ND<4.0	--	--	--
	5/24/2004	--	26	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	44	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	80	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	32	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	44	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	16	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/28/2007	--	5.6	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	10	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	29	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	3.2	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.98	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	8.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	1.6	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	22	--	--	--	--	--	--	--	--
	12/9/2011	--	4.2	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.87	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.51	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	1.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.89	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-2	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	2,700	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	10/11/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	160	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	--	--	--	--	--	--	--	--	--
	5/24/2004	--	--	--	--	--	--	--	--	--	--
	11/29/2004	--	--	--	--	--	--	--	--	--	--
	6/24/2005	--	--	--	--	--	--	--	--	--	--
	12/15/2005	--	--	--	--	--	--	--	--	--	--
	6/14/2006	--	190	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	32	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	8.3	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	10	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	12	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	5.9	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	4.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	2.1	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	14	--	--	--	--	--	--	--	--
	12/9/2011	--	7.9	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	2.9	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.95	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	1.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	0.82	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.68	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	0.58	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**0.91**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-3	11/1/1989	--	--	--	--	--	--	--	--	--	--
	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/4/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--

Table 5
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76 Station No. 0746 (351647)
3943 Broadway
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WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/24/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	880	--	--	--	--	--	--	--	--	--
	5/6/1996	370	--	--	--	--	--	--	--	--	--
	11/5/1996	460	--	--	--	--	--	--	--	--	--
	5/15/1997	100	--	--	--	--	--	--	--	--	--
	11/12/1997	ND	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	--	--	--	--	--	--
	11/11/1998	ND	--	--	--	--	--	--	--	--	--
	5/20/1999	ND	--	--	--	--	--	--	--	--	--
	11/15/1999	120	45.1	--	--	--	--	--	--	--	--
	5/22/2000	100	94	ND	ND	ND	ND	ND	--	--	--
	11/22/2000	212	131	--	--	ND	ND	ND	--	--	--
	5/15/2001	97.1	75.5	ND	ND	ND	ND	ND	--	--	--
	11/23/2001	320	390	79	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	5/24/2002	120	73	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	11/29/2002	--	340	ND<5,000	ND<25,000	ND<100	ND<100	ND<100	ND<100	--	ND<100
	5/15/2003	--	440	ND<1,000	ND<5,000	ND<20	ND<20	ND<20	ND<20	--	ND<20
	11/4/2003	--	530	ND<4,000	ND<20,000	ND<80	ND<80	ND<80	--	--	--
	5/24/2004	--	1200	190	ND<1,000	ND<20	ND<10	ND<10	ND<10	--	ND<10
	11/29/2004	--	550	--	ND<500	--	--	--	--	--	--
	6/24/2005	--	400	--	ND<10,000	--	--	--	--	--	--
	12/15/2005	--	280	ND<500	ND<12,000	ND<25	ND<25	ND<25	ND<25	--	ND<25
	6/14/2006	--	160	--	ND<1,200	--	--	--	--	--	--
	12/21/2006	--	96	110	ND<1,200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	6/28/2007	--	75	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	27	--	ND<500	--	--	--	--	--	--
	6/9/2008	--	19	--	ND<1,200	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	18	--	ND<1,200	--	--	--	--	--	--
	12/15/2009	--	13	--	ND<1,200	--	--	--	--	--	--
	6/28/2010	--	17	--	ND<250	--	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	28	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	5.7	--	--	--	--	--	--	--	--
	12/9/2011	--	9.3	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5
	6/1/2012	--	19	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	11/23/2012	--	11	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	6	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	7.6	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	15	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	16	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	6.3	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**21**	**ND<50**	**ND<1,200**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**--**	**ND<2.5**
MW-4	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	12/21/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	0.86	--	--	--	--	--	--	--	--	--
	5/6/1996	ND	--	--	--	--	--	--	--	--	--
	11/5/1996	6.5	--	--	--	--	--	--	--	--	--
	5/15/1997	ND	--	--	--	--	--	--	--	--	--
	11/12/1997	ND	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	--	--	--	--	--	--
	11/11/1998	ND	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/20/1999	ND	--	--	--	ND<2.0	--	--	--	--	--
	11/15/1999	ND	--	--	--	--	--	--	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	9.6	3.5	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	11/29/2002	--	2.6	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	--	ND<2.0
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	--	--	--	--	--	--
	5/24/2004	--	ND<0.50	--	ND<50	ND<1.0	--	--	--	--	--
	11/29/2004	--	0.55	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.65	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	ND<0.50	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	0.67	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	0.61	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.62	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.99	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	1.1	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	4.0	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	2.7	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	0.78	ND<10	ND<250		ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<2.5	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	ND<2.5	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-5	2/15/1990	--	--	--	--	--	--	--	--	--	--
	8/16/1990	--	--	--	--	--	--	--	--	--	--
	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/4/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	8/19/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	630	--	--	--	--	--	--	--	--	--
	5/6/1996	170	--	--	--	--	--	--	--	--	--
	11/5/1996	580	--	--	--	--	--	--	--	--	--
	5/15/1997	ND	--	--	--	--	--	--	--	--	--
	11/12/1997	74	--	--	--	--	--	--	--	--	--
	5/4/1998	ND	--	--	--	ND	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	2/22/1999	--	--	--	--	--	--	--	--	--	--
	4/2/1999	--	--	--	--	--	--	--	--	--	--
	5/4/1999	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	6/29/1999	--	--	--	--	--	--	--	--	--	--
	7/29/1999	--	--	--	--	--	--	--	--	--	--
	8/24/1999	--	--	--	--	--	--	--	--	--	--
	9/27/1999	--	--	--	--	--	--	--	--	--	--
	10/28/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	12/20/1999	--	--	--	--	--	--	--	--	--	--
	1/20/2000	--	--	--	--	--	--	--	--	--	--
	2/26/2000	--	--	--	--	--	--	--	--	--	--
	3/31/2000	--	--	--	--	--	--	--	--	--	--
	4/13/2000	--	--	--	--	--	--	--	--	--	--
	5/22/2000	640	21	ND	ND	--	ND	ND	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	2/14/2001	--	--	--	--	--	--	--	--	--	--
	3/28/2001	--	--	--	--	--	--	--	--	--	--
	4/28/2001	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	6/29/2001	--	--	--	--	--	--	--	--	--	--
	7/17/2001	--	--	--	--	--	--	--	--	--	--
	8/30/2001	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	9/24/2001	--	--	--	--	--	--	--	--	--	--
	10/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<500	--	--	--	--	--	--	--	--	--
	12/10/2001	--	--	--	--	--	--	--	--	--	--
	1/14/2002	--	--	--	--	--	--	--	--	--	--
	2/22/2002	--	--	--	--	--	--	--	--	--	--
	3/11/2002	--	--	--	--	--	--	--	--	--	--
	4/15/2002	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	6/17/2002	--	--	--	--	--	--	--	--	--	--
	7/15/2002	--	--	--	--	--	--	--	--	--	--
	8/19/2002	--	--	--	--	--	--	--	--	--	--
	9/5/2002	--	--	--	--	--	--	--	--	--	--
	10/7/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	12/12/2002	--	--	--	--	--	--	--	--	--	--
	1/6/2003	--	--	--	--	--	--	--	--	--	--
	2/12/2003	--	--	--	--	--	--	--	--	--	--
	3/13/2003	--	--	--	--	--	--	--	--	--	--
	4/7/2003	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	6/12/2003	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	--	--	--	--	--	--	--	--
	8/14/2003	--	--	--	--	--	--	--	--	--	--
	9/12/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	--	--	--	--	--	--	--	--	--
	5/24/2004	--	--	--	--	--	--	--	--	--	--
	11/29/2004	--	--	--	--	--	--	--	--	--	--
	6/24/2005	--	82	--	ND<50,000	ND<25	--	--	--	--	--
	12/15/2005	--	120	ND<500	ND<12,000	--	ND<25	ND<25	ND<25	--	ND<25
	6/14/2006	--	48	--	ND<6,200	ND<25	--	--	--	--	--
	12/21/2006	--	96	ND<500	ND<12,000	--	ND<25	ND<25	ND<25	--	ND<25
	6/28/2007	--	--	--	--	--	--	--	--	--	--
	12/13/2007	--	--	--	--	--	--	--	--	--	--
	6/9/2008	--	--	--	--	--	--	--	--	--	--
	12/30/2008	--	--	--	--	--	--	--	--	--	--
	9/28/2009	--	--	--	--	--	--	--	--	--	--
	12/15/2009	--	--	--	--	--	--	--	--	--	--
	6/28/2010	--	--	--	--	--	--	--	--	--	--
	12/29/2010	--	--	--	--	--	--	--	--	--	--
	2/1/2011	--	--	--	--	--	--	--	--	--	--
	6/7/2011	--	ND<12	--	--	--	--	--	--	--	--
	9/13/2011	--	--	--	--	--	--	--	--	--	--
	10/21/2011	--	--	--	--	--	--	--	--	--	--
	11/4/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	1/12/2012	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	2.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	6/22/2016	**--**	**ND<5.0**	**ND<100**	**ND<2,500**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**ND<5.0**

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
MW-6	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	ND<2.0	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	2.4	ND<100	ND<500	ND<1.0	ND<2.0	ND<2.0	--	--	--
	5/24/2004	--	2.8	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	4.8	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	0.47	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.88	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	3.0	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	1.0	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	1.2	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.64	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.65	--	ND<250	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.67	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	12	--	--	--	--	--	--	--	--
	12/9/2011	--	2.0	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.64	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-7	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	ND<1.0	--	--	--	--	--
	5/24/2004	--	1.4	ND<5.0	ND<50	--	ND<0.5	ND<0.5	ND<0.5	--	ND<0.5
	11/29/2004	--	3.6	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	1.6	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	0.72	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	ND<0.50	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	0.75	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	0.51	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	0.58	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	0.54	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	1.0	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.52	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	1.6	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	6.0	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	19	--	--	--	--	--	--	--	--
	12/9/2011	--	4.5	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	0.71	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	2.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-8	11/7/1990	--	--	--	--	--	--	--	--	--	--
	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/9/1993	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/10/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/9/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/8/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/7/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	43	--	--	--	ND	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	23	10	ND	ND	ND	ND	ND	--	--	--
	11/15/1999	--	--	ND	ND	ND<4.0	ND	ND	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--
	11/29/2002	--	ND<2.0	--	--	--	--	--	--	--	--
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	190	ND<200	ND<1,000	ND<5.0	ND<4.0	ND<4.0	--	--	--
	5/24/2004	--	750	ND<25	ND<250	ND<20	ND<2.5	ND<2.5	ND<2.5	--	ND<2.5
	11/29/2004	--	1,600	ND<100	ND<1,000	--	ND<10	ND<10	ND<10	--	ND<10
	6/24/2005	--	190	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	1,000	ND<10	ND<250	--	ND<0.50	0.95	ND<0.50	--	ND<0.50
	6/14/2006	--	39	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	15	13	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	8.4	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	6.8	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	6.5	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	2.9	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	3.1	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	2.9	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	3.6	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	2.7	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	--	--	--	--	--	--	--	--	--
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	6/22/2016	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
	11/7/1990	--	--	--	--	--	--	--	--	--	--
MW-9	2/25/1991	--	--	--	--	--	--	--	--	--	--
	5/28/1991	--	--	--	--	--	--	--	--	--	--
	8/28/1991	--	--	--	--	--	--	--	--	--	--
	11/19/1991	--	--	--	--	--	--	--	--	--	--
	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	59	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	60	--	--	--	--	--	--	--	--	--
	5/6/1996	ND	--	--	--	--	--	--	--	--	--
	11/5/1996	ND	--	--	--	--	--	--	--	--	--
	5/15/1997	ND	--	--	--	--	--	--	--	--	--
	11/12/1997	74	--	--	--	--	--	--	--	--	--
	5/4/1998	45	--	--	--	--	--	--	--	--	--
	11/11/1998	ND	--	--	--	--	--	--	--	--	--
	5/20/1999	ND	--	--	--	ND<1.0	--	--	--	--	--
	11/15/1999	ND	--	--	--	--	--	--	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--
	11/29/2002	--	ND<2.0	--	--	--	--	--	--	--	--
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	--	--	--	--	--	--	--	--	--
	5/24/2004	--	160	29	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	160	23	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	67	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	82	11	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	5.2	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	36	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/28/2007	--	52	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	31	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	27	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	5.0	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	7.5	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	3.7	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	2.2	--	ND<250	ND<0.50	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	--	--	--	--	--	--	--	--	--
	6/6/2013	--	--	--	--	--	--	--	--	--	--
	12/13/2013	--	--	--	--	--	--	--	--	--	--
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	--	--	--	--	--	--	--	--	--
	6/9/2015	--	--	--	--	--	--	--	--	--	--
	12/30/2015	--	--	--	--	--	--	--	--	--	--
	6/22/2016	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-10	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	ND<1.0	--	--	--	--	--
	5/24/2004	--	0.75	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	0.72	6.1	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	1.1	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	0.92	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	0.92	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-11	2/6/1992	--	--	--	--	--	--	--	--	--	--
	5/23/1992	--	--	--	--	--	--	--	--	--	--
	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	--	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	ND	--	--	--	--	--	--	--	--	--
	11/15/1999	ND	--	--	--	--	--	--	--	--	--
	5/22/2000	ND	--	--	--	--	--	--	--	--	--
	11/22/2000	ND	--	--	--	--	--	--	--	--	--
	5/15/2001	ND	--	--	--	--	--	--	--	--	--
	11/23/2001	ND<5.0	--	--	--	--	--	--	--	--	--
	5/24/2002	ND<5.0	--	--	--	--	--	--	--	--	--
	11/29/2002	--	ND<2.0	--	--	--	--	--	--	--	--
	5/15/2003	--	ND<2.0	--	--	--	--	--	--	--	--
	11/4/2003	--	ND<2.0	--	ND<500	--	--	--	--	--	--
	5/24/2004	--	ND<0.50	--	ND<50	--	--	--	--	--	--
	11/29/2004	--	ND<0.50	--	ND<50	--	--	--	--	--	--
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	--	--	--	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	--	--	--	--	--	--	--	--	--
	6/28/2010	--	ND<0.50	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	ND<0.50	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	--	--	--	--	--	--	--	--	--
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
MW-12	8/26/1992	--	--	--	--	--	--	--	--	--	--
	11/20/1992	--	--	--	--	--	--	--	--	--	--
	12/21/1992	--	--	--	--	--	--	--	--	--	--
	1/30/1993	--	--	--	--	--	--	--	--	--	--
	2/24/1993	--	--	--	--	--	--	--	--	--	--
	3/22/1993	--	--	--	--	--	--	--	--	--	--
	4/28/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/22/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	10/28/1993	--	--	--	--	--	--	--	--	--	--
	11/30/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--

Table 5
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76 Station No. 0746 (351647)
3943 Broadway
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WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	ND	--	--	--	--	--	--	--	--
	9/27/1994	--	--	--	--	--	--	--	--	--	--
	10/11/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	5/3/1995	--	--	--	--	--	--	--	--	--	--
	8/3/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	5/6/1996	--	--	--	--	--	--	--	--	--	--
	11/5/1996	--	--	--	--	--	--	--	--	--	--
	5/15/1997	--	--	--	--	--	--	--	--	--	--
	11/12/1997	--	--	--	--	--	--	--	--	--	--
	5/4/1998	--	--	--	--	ND<2.0	--	--	--	--	--
	11/11/1998	--	--	--	--	--	--	--	--	--	--
	5/20/1999	--	--	--	--	--	--	--	--	--	--
	11/15/1999	--	--	--	--	--	--	--	--	--	--
	5/22/2000	--	--	--	--	--	--	--	--	--	--
	11/22/2000	--	--	--	--	--	--	--	--	--	--
	5/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	4.4	ND<100	ND<500	ND<1.0	ND<2.0	ND<2.0	--	--	--
	5/24/2004	--	1.7	ND<5.0	ND<50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	11/29/2004	--	0.71	ND<5.0	ND<50	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/24/2005	--	ND<0.50	--	ND<1,000	--	--	--	--	--	--
	12/15/2005	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/14/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/21/2006	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/28/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	6/9/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	12/30/2008	--	ND<0.50	--	ND<250	--	--	--	--	--	--
	9/28/2009	--	0.55	--	ND<250	--	--	--	--	--	--
	12/15/2009	--	0.56	--	ND<250	--	--	--	--	--	--
	6/28/2010	--	0.97	--	ND<250	ND<0.50	--	--	ND<0.50	ND<0.010	ND<0.50
	12/29/2010	--	0.95	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	2.0	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/1/2012	--	1.2	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	0.55	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**1.1**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
RW-1	2/24/1993	--	--	--	--	--	--	--	--	--	--
	5/12/1993	--	--	--	--	--	--	--	--	--	--
	5/25/1993	--	--	--	--	--	--	--	--	--	--
	6/7/1993	--	--	--	--	--	--	--	--	--	--
	6/23/1993	--	--	--	--	--	--	--	--	--	--
	7/8/1993	--	--	--	--	--	--	--	--	--	--

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	8/11/1993	--	--	--	--	--	--	--	--	--	--
	8/25/1993	--	--	--	--	--	--	--	--	--	--
	9/8/1993	--	--	--	--	--	--	--	--	--	--
	9/22/1993	--	--	--	--	--	--	--	--	--	--
	11/12/1993	--	--	--	--	--	--	--	--	--	--
	2/16/1994	--	--	--	--	--	--	--	--	--	--
	5/31/1994	--	--	--	--	--	--	--	--	--	--
	8/31/1994	--	--	--	--	--	--	--	--	--	--
	11/10/1994	--	--	--	--	--	--	--	--	--	--
	2/7/1995	--	--	--	--	--	--	--	--	--	--
	3/14/1995	--	--	--	--	--	--	--	--	--	--
	11/7/1995	--	--	--	--	--	--	--	--	--	--
	10/15/2001	--	--	--	--	--	--	--	--	--	--
	11/23/2001	--	--	--	--	--	--	--	--	--	--
	12/10/2001	--	--	--	--	--	--	--	--	--	--
	1/14/2002	--	--	--	--	--	--	--	--	--	--
	2/22/2002	--	--	--	--	--	--	--	--	--	--
	3/11/2002	--	--	--	--	--	--	--	--	--	--
	4/15/2002	--	--	--	--	--	--	--	--	--	--
	5/24/2002	--	--	--	--	--	--	--	--	--	--
	6/17/2002	--	--	--	--	--	--	--	--	--	--
	7/15/2002	--	--	--	--	--	--	--	--	--	--
	8/19/2002	--	--	--	--	--	--	--	--	--	--
	9/5/2002	--	--	--	--	--	--	--	--	--	--
	10/7/2002	--	--	--	--	--	--	--	--	--	--
	11/29/2002	--	--	--	--	--	--	--	--	--	--
	12/12/2002	--	--	--	--	--	--	--	--	--	--
	1/6/2003	--	--	--	--	--	--	--	--	--	--
	2/12/2003	--	--	--	--	--	--	--	--	--	--
	3/13/2003	--	--	--	--	--	--	--	--	--	--
	4/7/2003	--	--	--	--	--	--	--	--	--	--
	5/15/2003	--	--	--	--	--	--	--	--	--	--
	6/12/2003	--	--	--	--	--	--	--	--	--	--
	7/7/2003	--	--	--	--	--	--	--	--	--	--
	8/14/2003	--	--	--	--	--	--	--	--	--	--
	9/12/2003	--	--	--	--	--	--	--	--	--	--
	11/4/2003	--	210	ND<2,000	ND<10,000	ND<10	ND<40	ND<40	--	--	--
	5/24/2004	--	200	ND<50	ND<500	ND<2.0	ND<5.0	ND<5.0	ND<5.0	--	ND<5.0
	11/29/2004	--	140	38	ND<100	--	ND<1.0	1.3	ND<1.0	--	ND<1.0
	6/24/2005	--	56	--	ND<1,000	ND<0.50	--	--	--	--	--
	12/15/2005	--	44	ND<10	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/14/2006	--	21	--	ND<250	ND<0.50	--	--	--	--	--
	12/21/2006	--	27	34	ND<250	--	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/28/2007	--	65	--	ND<250	--	--	--	--	--	--
	12/13/2007	--	30	--	ND<500	--	--	--	--	--	--
	6/9/2008	--	39	--	ND<1,200	--	--	--	--	--	--
	12/30/2008	--	22	--	ND<1,200	--	--	--	--	--	--
	9/28/2009	--	21	--	ND<1,200	--	--	--	--	--	--
	12/15/2009	--	ND<2.5	--	ND<1,200	--	--	--	--	--	--
	6/28/2010	--	5.6	--	ND<250	ND<0.50	--	--	ND<0.50	--	ND<0.50
	12/29/2010	--	1.6	ND<10	ND<250		ND<0.50	ND<0.50	ND<0.50	--	ND<0.50
	6/7/2011	--	ND<0.50	--	--	--	--	--	--	--	--
	10/21/2011	--	--	--	--	--	--	--	--	--	--
	12/9/2011	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	1/12/2012	--	--	--	--	--	--	--	--	--	--
	6/1/2012	--	ND<2.5	--	ND<1,200	--	--	--	ND<2.5	--	ND<2.5

Table 5
Historical Groundwater Analytical Results - Oxygenate Compounds
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

WELL ID	DATE	MTBE 8021B (µg/L)	MTBE 8260B (µg/L)	TBA (µg/L)	ETHANOL (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	EDB (µg/L)	EDB 504 (µg/L)	EDC (µg/L)
	6/6/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/13/2013	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/23/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/17/2014	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/9/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**
QA	12/30/2015	--	ND<0.50	--	ND<250	--	--	--	ND<0.50	--	ND<0.50
	6/22/2016	**--**	**ND<0.50**	**ND<10**	**ND<250**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**ND<0.50**	**--**	**ND<0.50**

NOTES:

µg/L = Micrograms per liter
-- = Not available/not sampled
504 = Analyzed by Environmental Protection Agency (EPA) Method 504
8021 = Analyzed by EPA Method 8021B
8260B = Analyzed by EPA Method 8260B
DIPE = Diisopropyl ether
EDB = 1,2-Dibromoethane
EDC = 1,2-Dichloroethane
ID = Identification
J = Laboratory estimated value
MTBE = Methyl t-Butyl Ether
ND = Not detected
ND<# = Analyte not detected at or above indicated laboratory practical quantitation limit
QA = Quality assurance/trip blank
TAME = t-Amyl Methyl ether
TBA = t-Butyl alcohol

Table 6
LNAPL Recovery Data
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

DATE	MW-5	RW-1
11/11/1998	0	0
2/22/1999	0.04	0
4/2/1999	0.07	0
5/4/1999	0	0
5/20/1999	0	0
6/29/1999	0	0
0729/99	0	0
8/24/1999	0	0
9/27/1999	0	0
10/28/1999	0	0
11/15/1999	0	0
12/20/1999	0	0
1/20/2000	0	0
2/26/2000	0	0
3/31/2000	0	0
4/13/2000	0	0
5/22/2000	0	0
11/22/2000	0.02	0
2/14/2001	0.06	0
3/28/2001	0	0
4/28/2001	0	0
5/15/2001	0	0
6/29/2001	0	0
7/17/2001	0	0
8/30/2001	0	0
9/24/2001	0	0
10/15/2001	0.03	0
11/23/2001	0	0
12/10/2001	0	0
1/14/2002	0	0
2/22/2002	0	0
3/11/2002	0	0
4/15/2002	0	0
5/24/2002	0.04	0
6/17/2002	0.04	0
7/15/2002	0.02	0
8/19/2002	0.05	0
9/5/2002	0.03	0
10/7/2002	0.02	0
11/29/2002	0.02	0
12/12/2002	0.01	0
1/6/2003	0.01	0
2/12/2003	0.02	0
3/13/2003	0.02	0
4/7/2003	0.01	0
5/15/2003	0.03	0
6/12/2003	0.02	0
7/7/2003	0.01	0
8/14/2003	0.02	0
9/12/2003	0.02	0
10/15/2003	0.087	0
11/4/2003	0.043	0
11/21/2003	0.032	0
12/18/2003	0.024	0
1/7/2004	0.009	0

Table 6
LNAPL Recovery Data
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

DATE	MW-5	RW-1
2/9/2004	0.01	0.01
3/24/2004	0.031	0
4/16/2004	0	0
5/24/2004	0.050	0
6/8/2004	0.049	0
7/2/2004	0.046	0
8/20/2004	0.080	0
9/17/2004	0.048	0
10/22/2004	0.024	0
11/29/2004	0.036	0
12/21/2004	0.010	0
1/24/2005	0.027	0
2/18/2005	0.020	0
3/18/2005	0.024	0
4/14/2005	0.010	0
5/17/2005	0.010	0
6/24/2005	0	0
7/14/2005	0.020	0
8/5/2005	0.050	0
9/16/2005	0.009	0
10/21/2005	0	0
11/22/2005	0	0
12/15/2005	0	0
1/19/2006	0	0
2/15/2006	0	0
3/25/2006	0	0
4/27/2006	0	0
5/25/2006	0	0
6/14/2006	0	0
7/3/2006	0	0
8/10/2006	0	0
9/15/2006	0.027	0
10/27/2006	0.009	0
11/22/2006	0.017	0
12/21/2006	0	0
2/5/2007	0.010	0
2/20/2007	0	0
3/28/2007	0	0
4/30/2007	0	0
5/23/2007	0.073	0
6/28/2007	0.049	0
8/1/2007	0	0
8/27/2007	0	0
9/12/2007	0.040	0
10/16/2007	0	0
12/13/2007	0.029	0
1/29/2008	0.010	0
2/28/2008	0.020	0
3/21/2008	0	0
4/11/2008	0.058	0
5/21/2008	0.044	0
6/9/2008	0.029	0
7/18/2008	0.032	0
8/15/2008	0.024	0
9/24/2008	0.051	0

Table 6
LNAPL Recovery Data
76 Station No. 0746 (351647)
3943 Broadway
Oakland, California

DATE	MW-5	RW-1
10/22/2008	0.044	0
11/26/2008	0.034	0
12/30/2008	0.022	0
1/23/2009	NA	0
3/27/2009	0	0
4/28/2009	0.102	0
5/28/2009	NA	NA
7/31/2009	0.034	0
8/21/2009	0.102	0
9/28/2009	0.017	0
10/26/2009	0.063	0
11/30/2009	0.075	0
12/15/2009	0.010	0
1/25/2010	0.003	0
2/26/2010	0	0
3/23/2010	0.01	0
4/22/2010	0.009	0
5/21/2010	0.117	0
6/28/2010	0.085	0
7/21/2010	0.04	0
8/18/2010	0.07	0
9/29/2010	0.03	0
10/18/2010	0.046	0
11/30/2010	0.058	0
12/29/2010	0.25	0
1/6/2011	0.138	0
1/20/2011	0.231	0
2/1/2011	0.23	0
2/14/2011	0	0
3/3/2011	0	0
3/22/2011	0	0
4/25/2011	0	0
5/27/2011	0	0
9/13/2011	0	0
10/20/2011	0	0
11/4/2011	0	0
12/23/2011	0.21	0
9/2/2015	0	NA
10/16/2015	0	0
11/12/2015	0	0
12/30/2015	0	0
1/22/2016	0	NM
2/24/2016	0	NM
3/14/2016	0	0.05
4/21/2016	0	0
5/20/2016	0.21	0.31
6/22/2016	**0.14**	**0.33**
Total LNAPL Removed (gallons):	**4.26**	**0.70**

NOTES:
LNAPL = Light non-aqueous phase liquid
NA = Not applicable
NM = Not measured

ATTACHMENT C

[Laboratory Report and Chain-of-Custody Documentation]

Date of Report: 01/03/2017

Tamera Rogers

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Client Project:	351647
BCL Project:	0746
BCL Work Order:	1635702
Invoice ID:	B255718

Enclosed are the results of analyses for samples received by the laboratory on 12/27/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

16.35702

CHAIN OF CUSTODY FORM

Union Oil Company of California ■ 6101 Bollinger Canyon Road ■ San Ramon, CA 94583

COC 1 of 1

Union Oil Site ID: 0746	Union Oil Consultant: ARCADIS
Site Global ID: T0600101471	Consultant Contact: TAMERA ROGERS
Site Address: 3943 BROADWAY OAKLAND, CA	Consultant Phone No.: (408) 797-2013
Union Oil PM: JAMES P. KIERNAN	Sampling Company: GETTLER-RYAN INC
Union Oil PM Phone No.: (925) 842 3220	Sampled By (PRINT): GILBERT MEDINA
Charge Code: NWRTB- 0 351647 -0- LAB	Sampler Signature:
This is a LEGAL document. ALL fields must be filled out CORRECTLY and COMPLETELY.	BC Laboratories, Inc. Project Manager: Molly Meyers 4100 Atlas Court, Bakersfield, CA 93308 Phone No. 661-327-4911

Turnaround Time (TAT): Standard ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐

Special Instructions: RUN 8 OXYS BY 8260 ON ALL 8260 MTBE HITS

	SAMPLE ID						ANALYSES REQUIRED											
	Field Point Name	Matrix	Depth	Date (yymmdd)	Sample Time	# of Containers	TPH - Diesel by EPA 8015	TPH - G by [redacted] (C6-C12) (8015B)	BTEX/MTBE [redacted] by EPA 8260B	Ethanol by EPA 8260B [redacted] EDB/EDC (8260)	EPA 8260B Full List with OXYS							Notes / Comments
1	QA	W-S-A		161222	—	2		X	X									
2	MW-1	W-S-A			1005	6				X								
3	MW-2	W-S-A			0555													
4	MW-3	W-S-A			0825													
5	MW-4	W-S-A			0650													
6	MW-5	W-S-A			1205													
7	MW-6	W-S-A			0510													
8	MW-7	W-S-A			0420													
9	MW-10	W-S-A			0245													
10	MW-11	W-S-A			0910													
11	MW-12	W-S-A			0330													
12	RW-1	W-S-A			1110													

CHK BY DISTRIBUTION SUB-OUT ☐

Relinquished By	Company	Date / Time:	Relinquished By	Company	Date / Time :	Relinquished By	Company	Date / Time:
[signature]	GRYNE	12/27/16 1300	Hang Bogan	BCLAB	12-27-16 1800	[signature]	BCLAB	12/27/16 2200
Received By	**Company**	**Date / Time:**	**Received By**	**Company**	**Date / Time :**	**Received By**	**Company**	**Date / Time:**
Hang Bogan	BCLAB	12-27-16 1320	[signature]	BCLAB	12/27/16 18:00	[signature]	BCLAB	12/27 2200

Chain of Custody and Cooler Receipt Form for 1635702 Page 2 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 16.35702

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact: Yes ☐ No ☐ Containers ☐ Intact: Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 207

Temperature: (A) 0.2 °C / (C) 0.3 °C

Date/Time 12/27 21:45

Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	AB	A-F	A-F	A-F	A-F	A-F	A-F	A-F	A-F	A-F
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Date/Time: 12-27-16 2256

Rev 21 05/23/2016

Chain of Custody and Cooler Receipt Form for 1635702 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 16.35702

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: PE Thermometer ID: 207

Temperature: (A) 0.2 °C / (C) 0.3 °C

Date/Time 12/27 21:45

Analyst Init GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-F	A-F								
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: M Date/Time: 12.27.16 2158 Rev 21 05/23/2016

Arcadis
6296 San Ignacio Ave, Suite C&D
San Jose, CA 95119

Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1635702-01	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	QA-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Blank Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): QA			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1635702-02	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 10:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-1-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): MW-1			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1635702-03	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 05:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): MW-2			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1635702-04	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 08:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): MW-3			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1635702-05	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 06:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): MW-4			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			
1635702-06	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 12:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
	Delivery Work Order:			
	Global ID: T0600101471			
	Location ID (FieldPoint): MW-5			
	Matrix: W			
	Sample QC Type (SACode): CS			
	Cooler ID:			

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1635702-07	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 05:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1635702-08	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 04:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1635702-09	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 02:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-10-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): MW-10	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1635702-10	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): MW-11	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1635702-11	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 03:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): MW-12	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1635702-12	**COC Number:**	---	**Receive Date:**	12/27/2016 22:00
	Project Number:	0746	**Sampling Date:**	12/22/2016 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	RW-1-W-161222	**Lab Matrix:**	Water
	Sampled By:	GRD	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: T0600101471	
			Location ID (FieldPoint): RW-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-01 | **Client Sample Name:** 0746, QA-W-161222, 12/22/2016 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 13:57	JMS	MS-V14	1	BZL2193

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Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-01 | **Client Sample Name:** 0746, QA-W-161222, 12/22/2016 12:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	92.1	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 10:52	AKM	GC-V9	1	BZL2275

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Project: 0746
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-02 | **Client Sample Name:** 0746, MW-1-W-161222, 12/22/2016 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 14:20	JMS	MS-V14	1	BZL2193

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-02 | **Client Sample Name:** 0746, MW-1-W-161222, 12/22/2016 10:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.6	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 11:12	AKM	GC-V9	1	BZL2275

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-03 | **Client Sample Name:** 0746, MW-2-W-161222, 12/22/2016 5:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	**1.2**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 14:42	JMS	MS-V14	1	BZL2193

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-03 | **Client Sample Name:** 0746, MW-2-W-161222, 12/22/2016 5:55:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.2	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 11:33	AKM	GC-V9	1	BZL2275

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-04 | **Client Sample Name:** 0746, MW-3-W-161222, 12/22/2016 8:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.71**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	**26**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Methyl t-butyl ether	**8.4**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	**18**	**ug/L**	**1.0**		**EPA-8260B**	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 18:07	JMS	MS-V14	1	BZL2193

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Project Number: 351647
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-04 | **Client Sample Name:** 0746, MW-3-W-161222, 12/22/2016 8:25:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**8600**	**ug/L**	**2500**		**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 23:43	AKM	GC-V9	50	BZL2275

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-05 | **Client Sample Name:** 0746, MW-4-W-161222, 12/22/2016 6:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.87**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	**2.2**	**ug/L**	**0.50**		**EPA-8260B**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	**3.0**	**ug/L**	**1.0**		**EPA-8260B**	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 15:05	JMS	MS-V14	1	BZL2193

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-05 | **Client Sample Name:** 0746, MW-4-W-161222, 12/22/2016 6:50:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**3700**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	105	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/29/16 04:28	AKM	GC-V9	10	BZL2275

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Project: 0746
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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-06 | **Client Sample Name:** 0746, MW-5-W-161222, 12/22/2016 12:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	**95**	**ug/L**	**2.5**		**EPA-8260B**	ND	**A01**	1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		2
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		2
Ethylbenzene	**69**	**ug/L**	**0.50**		**EPA-8260B**	ND		2
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		2
Toluene	ND	ug/L	0.50		EPA-8260B	ND		2
Total Xylenes	**22**	**ug/L**	**1.0**		**EPA-8260B**	ND		2
Ethanol	ND	ug/L	250		EPA-8260B	ND		2
1,2-Dichloroethane-d4 (Surrogate)	89.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
1,2-Dichloroethane-d4 (Surrogate)	93.0	%	75 - 125 (LCL - UCL)		EPA-8260B			2
Toluene-d8 (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-8260B			2
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	108	%	80 - 120 (LCL - UCL)		EPA-8260B			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/29/16 15:08	JMS	MS-V14	5	BZL2193
2	EPA-8260B	12/28/16	12/28/16 17:45	JMS	MS-V14	1	BZL2193

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-06 | **Client Sample Name:** 0746, MW-5-W-161222, 12/22/2016 12:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	**6900**	**ug/L**	**500**		**EPA-8015B**	ND	**A01**	1
a,a,a-Trifluorotoluene (FID Surrogate)	110	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/29/16 04:48	AKM	GC-V9	10	BZL2275

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Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-07 | **Client Sample Name:** 0746, MW-6-W-161222, 12/22/2016 5:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.1	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 15:28	JMS	MS-V14	1	BZL2193

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-07 | **Client Sample Name:** 0746, MW-6-W-161222, 12/22/2016 5:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 20:40	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-08 | **Client Sample Name:** 0746, MW-7-W-161222, 12/22/2016 4:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.7	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 15:50	JMS	MS-V14	1	BZL2193

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-08 | **Client Sample Name:** 0746, MW-7-W-161222, 12/22/2016 4:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	98.4	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 12:13	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-09 | **Client Sample Name:** 0746, MW-10-W-161222, 12/22/2016 2:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.8	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	95.6	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 16:13	JMS	MS-V14	1	BZL2193

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-09 | **Client Sample Name:** 0746, MW-10-W-161222, 12/22/2016 2:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 12:34	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-10 | **Client Sample Name:** 0746, MW-11-W-161222, 12/22/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 16:36	JMS	MS-V14	1	BZL2193

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-10 | **Client Sample Name:** 0746, MW-11-W-161222, 12/22/2016 9:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	96.4	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 12:54	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-11 | **Client Sample Name:** 0746, MW-12-W-161222, 12/22/2016 3:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 16:59	JMS	MS-V14	1	BZL2193

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Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-11 | **Client Sample Name:** 0746, MW-12-W-161222, 12/22/2016 3:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	90.7	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 13:15	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

BCL Sample ID: 1635702-12 | **Client Sample Name:** 0746, RW-1-W-161222, 12/22/2016 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260B	ND		1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260B	ND		1
Ethylbenzene	ND	ug/L	0.50		EPA-8260B	ND		1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260B	ND		1
Toluene	ND	ug/L	0.50		EPA-8260B	ND		1
Total Xylenes	ND	ug/L	1.0		EPA-8260B	ND		1
Ethanol	ND	ug/L	250		EPA-8260B	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.4	%	75 - 125 (LCL - UCL)		EPA-8260B			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-8260B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260B	12/28/16	12/28/16 17:22	JMS	MS-V14	1	BZL2193

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Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1635702-12 | **Client Sample Name:** 0746, RW-1-W-161222, 12/22/2016 11:10:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C6 - C12)	ND	ug/L	50		EPA-8015B	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		EPA-8015B			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8015B	12/28/16	12/28/16 15:54	AKM	GC-V9	1	BZL2275

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZL2193						
Benzene	BZL2193-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BZL2193-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BZL2193-BLK1	ND	ug/L	0.50		
Ethylbenzene	BZL2193-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BZL2193-BLK1	ND	ug/L	0.50		
Toluene	BZL2193-BLK1	ND	ug/L	0.50		
Total Xylenes	BZL2193-BLK1	ND	ug/L	1.0		
Ethanol	BZL2193-BLK1	ND	ug/L	250		
1,2-Dichloroethane-d4 (Surrogate)	**BZL2193-BLK1**	**93.6**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BZL2193-BLK1**	**101**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BZL2193-BLK1**	**97.2**	%	**80 - 120 (LCL - UCL)**		

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Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BZL2193										
Benzene	BZL2193-BS1	LCS	27.186	25.000	ug/L	109		70 - 130		
Toluene	BZL2193-BS1	LCS	28.343	25.000	ug/L	113		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BZL2193-BS1	LCS	9.8200	10.000	ug/L	98.2		75 - 125		
Toluene-d8 (Surrogate)	BZL2193-BS1	LCS	9.9100	10.000	ug/L	99.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BZL2193-BS1	LCS	9.0300	10.000	ug/L	90.3		80 - 120		

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BZL2193	Used client sample: N										
Benzene	MS	1634543-56	ND	21.309	25.000	ug/L		85.2		70 - 130	
	MSD	1634543-56	ND	21.661	25.000	ug/L	1.6	86.6	20	70 - 130	
Toluene	MS	1634543-56	ND	23.190	25.000	ug/L		92.8		70 - 130	
	MSD	1634543-56	ND	23.347	25.000	ug/L	0.7	93.4	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1634543-56	ND	9.4800	10.000	ug/L		94.8		75 - 125	
	MSD	1634543-56	ND	9.4600	10.000	ug/L	0.2	94.6		75 - 125	
Toluene-d8 (Surrogate)	MS	1634543-56	ND	9.9800	10.000	ug/L		99.8		80 - 120	
	MSD	1634543-56	ND	9.9600	10.000	ug/L	0.2	99.6		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1634543-56	ND	9.5800	10.000	ug/L		95.8		80 - 120	
	MSD	1634543-56	ND	9.3500	10.000	ug/L	2.4	93.5		80 - 120	

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZL2275						
Gasoline Range Organics (C6 - C12)	BZL2275-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	**BZL2275-BLK1**	**97.1**	%	**70 - 130 (LCL - UCL)**		

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BZL2275										
Gasoline Range Organics (C6 - C12)	BZL2275-BS1	LCS	944.20	1000.0	ug/L	94.4		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BZL2275-BS1	LCS	39.103	40.000	ug/L	97.8		70 - 130		

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Reported: 01/03/2017 12:21
Project: 0746
Project Number: 351647
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BZL2275	Used client sample: N										
Gasoline Range Organics (C6 - C12)	MS	1634543-56	ND	923.99	1000.0	ug/L		92.4		70 - 130	
	MSD	1634543-56	ND	1120.8	1000.0	ug/L	19.2	112	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1634543-56	ND	39.279	40.000	ug/L		98.2		70 - 130	
	MSD	1634543-56	ND	37.334	40.000	ug/L	5.1	93.3		70 - 130	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A01	Detection and quantitation limits are raised due to sample dilution.

December 10, 2016

Tamera Rogers
Arcadis
6296 San Ignacia Ave
Ste C & D
San Jose, CA 95119

RE: Chevron
Project Number: 351647

Pace Analytical received 1 sample on November 17, 2016 for analysis labeled MW-5 Sock. Per client request, the following analyses were performed:

1. C3-C10 PIANO (GC-FID)
2. C8-C40 Full scan (ASTM D5739)

The analyses were performed in house under laboratory number **21043**

Please call the lab at 412-826-5245, or you may email any questions or concerns to ruth.welsh@pacelabs.com regarding any analytical data reports.

Respectfully submitted,

Ruth Welsh

Ruth Welsh
Project Manager

21043

Pace Analytical® Energy Services™

ZymaX Forensics Division
220 William Pitt Way
Pittsburgh, PA 15238
Phone: 412-826-5245
Fax: 412-826-3433

*Samples will be disposed of after 30 days unless requested otherwise

Chain of Custody

Report To:	Tamera Rogers	Email To:	Tamera.Rogers@arcadis.com
Company:	Arcadis	Phone:	408-797-2013
Address:	6296 San Ignacia Ave. Ste C & D San Jose, CA 95119	Project:	Chevron #351647, Oakland
		Project #:	

ZymaX use only	Sample Description	Date Sampled	Time	Matrix	Preserve	C3-C36 Whole Oil	Oxygenates	Organic Lead/Scavengers	Long List PAH	C3-C10 PIANO	GC/MC Full Scan	Simulated Distillation	# of containers
	MW-5 Sock	11.16.16	1015	**Sock**	**NP**					X	X		1

Analysis Requested

Bill To: Same as Above ☑ Yes
Company:
Address:

PO Number:
Invoice Email: Tamera.Rogers@arcadis.com

Sample Comments:

Laboratory Remarks: Temperature: _____ °C Courier Method: _____

sample integrity upon receipt:

samples received intact	☐	Yes
samples received cold/on ice	☐	Yes
custody seals	☐	Yes
correct container types	☐	Yes

Turnaround Time

ASAP	☐	1wk	☐
48 hr	☐	STD (2wks)	☑
72 hr	☐		

*quicker TAT may result in additional surcharges

Print Name of Sampler:	FRANK TERMINONI			
Signature of Sampler:		Date:	11.16.16	
Relinquished By:	Gettler-Ryan Inc.	Date:	11.16.16	Time: 1145
Relinquished By:		Date:		Time:
Relinquished By:		Date:		Time:
Received by Lab:	[illegible] PACE	Date:	11.17.16	Time: 0845

Page _____ of _____

Cooler Receipt Form

Client Name: Arcadis Project: Chevron #351647 Oakland Lab Work Order: 21043

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 806268607025

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam (Other:_____

Type of Ice: Wet Blue (None) Ice Intact: Yes Melted

Cooler Temperature: n/a Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags			✓	
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used			✓	
Are containers properly preserved for the requested testing? (as labeled)			✓	
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: CG Date: 11.17.16

Project Manager Review: RW Date: 11-18-16

REPORT OF ANALYTICAL RESULTS

Client:	**Tamera Rogers** **Arcadis** **6296 San Ignacia Ave, Ste C&D** **San Jose, CA 95119**
Project:	**Chevron**
Project Number:	**351647**
Collected by:	

Lab Number:	**21043-1**
Collected:	**11/16/2016**
Received:	**11/17/2016**
Matrix:	**Soil**
Sample Description:	**MW-5 Sock**
Analyzed:	**12/8/2016**
Method:	**GC/MS**

C3-C10 GASOLINE RANGE COMPOUNDS

CONSTITUENT			ssRL ug/kg	RESULT ug/kg	QUALIFIER
3-Methyl-1-butene	Olefins	3M1B	49.039	ND	
Isopentane	Isoparaffins	IP	49.039	5506.581	
1-Pentene	Olefins	1P	49.039	ND	
2-Methyl-1-butene	Olefins	2M1B	49.039	ND	
Pentane	Parrafins	C5	49.039	2830.031	
trans-2-Pentene	Olefins	T2P	49.039	ND	
cis-2-Pentene	Olefins	C2P	49.039	ND	
2-Methyl-2-butene	Olefins	2M2B	49.039	ND	
2,2-Dimethylbutane	Isoparaffins	22DMB	49.039	87.369	
t-Butanol	Oxygenate	TBA	49.039	ND	
2,3-Dimethylbutane	Isoparaffins	23DMB	49.039	1810.632	
Cyclopentane	Naphthenes	CYP	49.039	ND	
2-Methylpentane	Isoparaffins	2MP	49.039	5900.481	
MTBE	Oxygenate	MTBE	49.039	ND	
2,2-Dimethylpentane	Isoparaffins	22DMP	49.039	127.055	
3-Methylpentane	Isoparaffins	3MP	49.039	7667.958	
4-Methyl-1-pentene	Olefins	4M1P	49.039	ND	
Hexane	Parrafins	C6	49.039	531.336	
trans-2-Hexene	Olefins	T2HE	49.039	ND	
DIPE	Oxygenate	DIPE	49.039	ND	
2-Methyl-2-pentene	Olefins	2M2PE	49.039	ND	
3-Methylcyclopentene	Olefins	3MCYPE	49.039	ND	
cis-2-Hexene	Olefins	C2HE	49.039	ND	
ETBE	Oxygenate	ETBE	49.039	ND	
2,4-Dimethyl pentane	Isoparaffins	24DMP	49.039	360.984	
2,3-Dimethylpentane	Isoparaffins	23DMP	49.039	4822.499	
Methylcyclopentane	Naphthenes	MCYP	49.039	12362.985	

ssRL - Sample Specific Reporting Limit
Results listed as ND would have been reported if present at or above the listed ssRL.
D - Secondary dilution perfomed
Q - Surrogate recovery limit exceedance
I - Matrix Interference
Note: Extracted by EPA 5030 (Purge and Trap).

US631
120616-1SOIL.D & Dilution - 120616-1SOIL.D

Client:	**Tamera Rogers** **Arcadis** **6296 San Ignacia Ave, Ste C&D** **San Jose, CA 95119**
Project:	**Chevron**
Project Number:	**#**
Collected by:	**0**

Lab Number:	**21043-1**
Collected:	**11/16/2016**
Received:	**11/17/2016**
Matrix:	**Soil**
Sample Description:	**MW-5 Sock**
Analyzed:	**12/8/2016**
Method:	**GC/MS**

C3-C10 GASOLINE RANGE COMPOUNDS

CONSTITUENT			ssRL ug/kg	RESULT ug/kg	QUALIFIER
EDC	Additive	EDC	49.039	ND	
3,3-Dimethylpentane	Isoparaffins	33DMP	49.039	95.028	
Cyclohexane	Naphthenes	CYH	49.039	4172.136	
Benzene	Aromatics	B	49.039	ND	
2-Methylhexane	Isoparaffins	2MH	49.039	949.701	
Thiophene	Sulfur	THIO	49.039	ND	
3-Methylhexane	Isoparaffins	3MH	49.039	2362.995	
TAME	Oxygenate	TAME	49.039	ND	
trans-1,3-Dimethylcyclopentane	Naphthenes	T13DMCYP	49.039	2880.277	
cis-1,3-Dimethylcyclopentane	Naphthenes	C13DMCYP	49.039	3487.201	
2,2,4-Trimethylpentane	Isoparaffins	224TMP	49.039	ND	
2,2,3-Trimethylpentane	Isoparaffins	223TMP	49.039	ND	
trans-1,2-Dimethylcyclopentane	Naphthenes	T12DMCYP	49.039	2161.828	
Heptane	Parrafins	C7	49.039	ND	
trans-2-Heptene	Olefins	T2HPE	49.039	ND	
Methylcyclohexane	Naphthenes	MCYH	49.039	6317.517	
2,5-Dimethylhexane	Isoparaffins	25DMH	49.039	ND	
2,4-Dimethylhexane	Isoparaffins	24DMH	49.039	103.372	
3-Methyl heptane	Isoparaffins	3MHP	49.039	218.225	
2,3,4-Trimethylpentane	Isoparaffins	234TMP	49.039	ND	
2,3-Dimethyl hexane	Isoparaffins	23DMHX	49.039	1122.077	
2,3,3-Trimethyl pentane	Isoparaffins	233TMP	49.039	ND	
2-Methyl heptane	Isoparaffins	2MHP	49.039	369.729	
4-Methyl heptane	Isoparaffins	4MHP	49.039	ND	
Toluene	Aromatics	T	49.039	342.218	
3-Methyl thiophene	Sulfur	3MTHIO	49.039	ND	
trans-1,4-Dimethylcyclohexane	Naphthenes	T14DMCYH	49.039	150.814	

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Q - Surrogate recovery limit exceedance
I - Matrix Interference
Note: Extracted by EPA 5030 (Purge and Trap).

US631
120616-1SOIL.D & Dilution - 120616-1SOIL.D

Client:	**Tamera Rogers**
	Arcadis
	6296 San Ignacia Ave, Ste C&D
	San Jose, CA 95119

Lab Number:	**21043-1**
Collected:	**11/16/2016**
Received:	**11/17/2016**
Matrix:	**Soil**

Project:	**Chevron**
Project Number:	**#**
Collected by:	**0**

Sample Description:	**MW-5 Sock**
Analyzed:	**12/8/2016**
Method:	**GC/MS**

C3-C10 GASOLINE RANGE COMPOUNDS

CONSTITUENT			ssRL ug/kg	RESULT ug/kg	QUALIFIER
1-Octene	Olefins	1OE	49.039	ND	
Octane	Parrafins	C8	49.039	ND	
trans-1,2-Dimethylcyclohexane	Naphthenes	T12DMCYH	49.039	181.025	
EDB	Additive	EDB	49.039	ND	
2,3-Dimethyl heptane	Isoparaffins	23DMHP	49.039	ND	
2,4-Dimethylheptane	Isoparaffins	24DMHP	49.039	ND	
2,6-Dimethylheptane	Isoparaffins	26DMHP	49.039	ND	
2,5-Dimethylheptane	Isoparaffins	25DMHP	49.039	ND	
Ethylcyclohexane	Naphthenes	ECYH	49.039	170.740	
1,1,2-Trimethyl Cyclohexane	Naphthenes	112TMCYH	49.039	ND	
4-Methyl octane	Isoparaffins	4MO	49.039	272.827	
2-Methyl octane	Isoparaffins	2MO	49.039	361.795	
Ethylbenzene	Aromatics	EB	49.039	1526.187	
3-Methyloctane	Isoparaffins	3MO	49.039	984.837	
m-Xylenes	Aromatics	MX	49.039	469.539	
p-Xylene	Aromatics	PX	49.039	600.567	
1,2,3-Trimethylcyclohexane	Naphthenes	123TMCYH	49.039	ND	
2,2-Dimethyl octane	Isoparaffins	22DMO	49.039	ND	
Styrene	Olefins	STRE	49.039	ND	
Nonane	Parrafins	C9	49.039	ND	
o-Xylene	Aromatics	OX	49.039	140.267	
3,3-Dimethyl octane	Isoparaffins	33DMO	49.039	ND	
Isopropylbenzene	Aromatics	IPROPB	49.039	2247.479	
Isopropyl cyclohexane	Naphthenes	IPROPCYH	49.039	ND	
3-Methyl nonane	Isoparaffins	3MN	49.039	ND	
1-Nonene	Olefins	1N	49.039	ND	
n-Propylbenzene	Aromatics	NPRPPB	49.039	1764.476	

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Q - Surrogate recovery limit exceedance
I - Matrix Interference
Note: Extracted by EPA 5030 (Purge and Trap).

US631
120616-1SOIL.D & Dilution - 120616-1SOIL.D

Client:	**Tamera Rogers** **Arcadis** **6296 San Ignacia Ave, Ste C&D** **San Jose, CA 95119**
Project:	**Chevron**
Project Number:	**#**
Collected by:	**0**

Lab Number:	**21043-1**
Collected:	**11/16/2016**
Received:	**11/17/2016**
Matrix:	**Soil**
Sample Description:	**MW-5 Sock**
Analyzed:	**12/8/2016**
Method:	**GC/MS**

C3-C10 GASOLINE RANGE COMPOUNDS

CONSTITUENT			ssRL ug/kg	RESULT ug/kg	QUALIFIER
1-Methyl-3-ethylbenzene	Aromatics	1M3EB	49.039	3335.926	
1-Methyl-4-ethylbenzene	Aromatics	1M4EB	49.039	3316.801	
1,3,5-Trimethylbenzene	Aromatics	135TMB	49.039	3578.698	
1-Methyl-2-ethylbenzene	Aromatics	1M2EB	49.039	872.771	
Decane	Parrafins	C10	49.039	79.630	
1,2,4-Trimethylbenzene	Aromatics	124TMB	49.039	5954.060	
sec-Butylbenzene	Aromatics	SBUB	49.039	429.961	
1-Methyl-3-isopropyl benzene	Aromatics	1M3IPROPE	49.039	962.751	
1,2,3-Trimethylbenzene	Aromatics	123TMB	49.039	2036.750	
1-Decene	Olefins	1D	49.039	ND	
Indane	Aromatics	IA	49.039	2010.337	
1,3-Diethylbenzene	Aromatics	13DEB	49.039	3781.924	
Indene	Olefins	IE	49.039	ND	
n-Butyl benzene	Aromatics	NBB	49.039	372.839	
1,4-Diethylbenzene	Aromatics	14DEB	49.039	ND	
1,3-Dimethyl-5-Ethyl benzene	Aromatics	13DM5EB	49.039	9100.863	
1-Methyl-2-Propyl benzene	Aromatics	1M2PROPB	49.039	7998.048	
1,4-Dimethyl-2-ethylbenzene	Aromatics	14DM2EB	49.039	4623.264	
Undecane	Parrafins	C11	49.039	ND	
1,2-Dimethyl-4-ethylbenzene	Aromatics	12DM4EB	49.039	17464.496	D
1,3-Dimethyl-2-Ethyl benzene	Aromatics	13DM2EB	49.039	3270.430	
1,2,4,5-Tetramethylbenzene	Aromatics	1245TMB	49.039	5059.406	
1,2,3,5-Tetramethylbenzene	Aromatics	1235TMB	49.039	5270.518	
n-Pentyl benzene	Aromatics	NPYB	49.039	ND	
1,2,3,4-Tetramethylbenzene	Aromatics	1234TMB	49.039	1708.925	
Naphthalene	Aromatics	N	49.039	988.986	
Benzothiophene	Sulfur	BTHIO	49.039	ND	
2-Methylnaphthalene	Aromatics	2MN	49.039	2379.963	
1-Methylnaphthalene	Aromatics	1MN	49.039	1275.588	

Percent Surrogate Recovery (1,2-Dichloroethane-D4)	118
Percent Surrogate Recovery (Toluene-D8)	100
Percent Surrogate Recovery (4-Bromofluorobenzene)	90

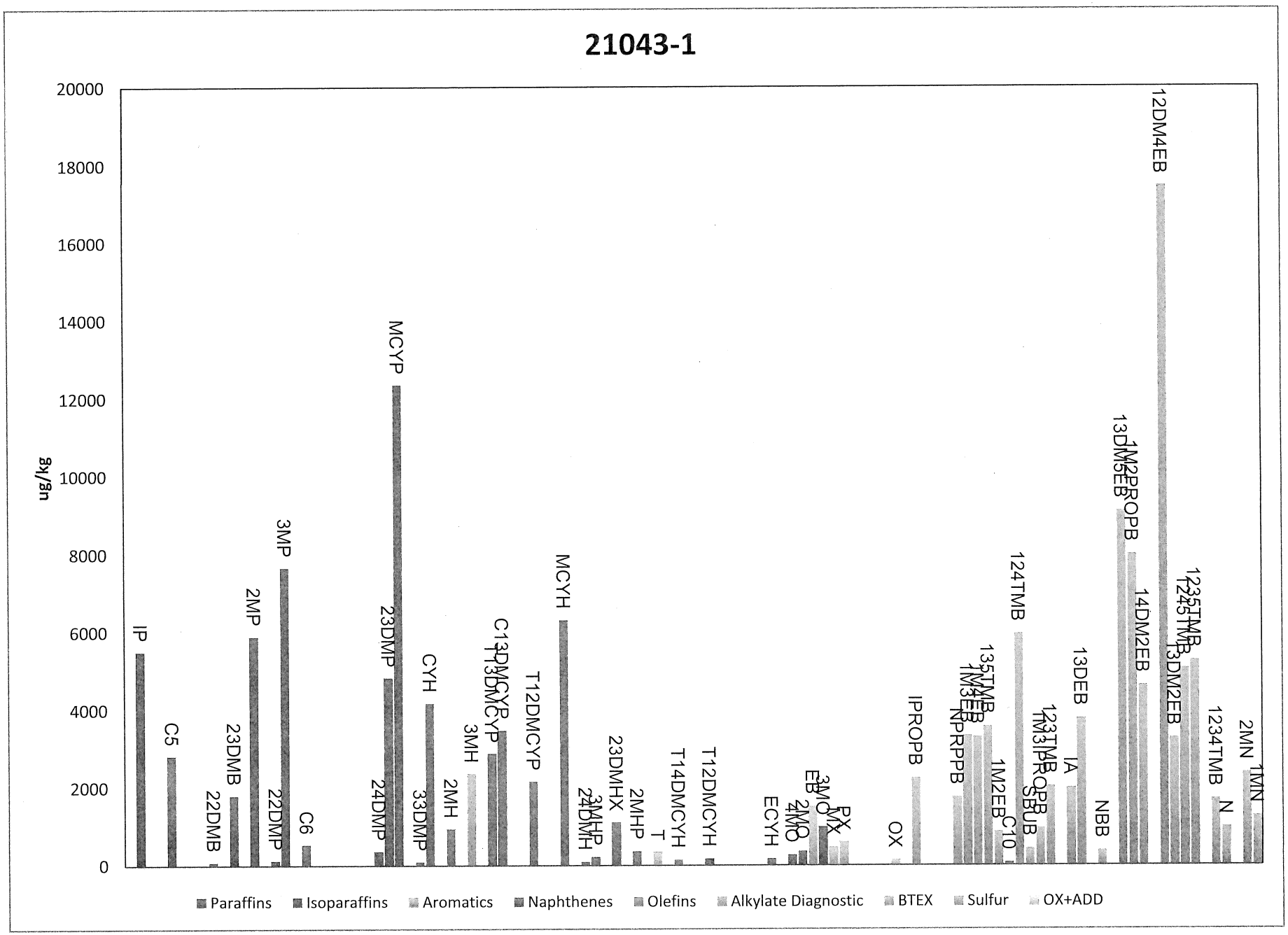
ssRL - Sample Specific Reporting Limit
Results listed as ND would have been reported if present at or above the listed ssRL.
D - Secondary dilution perfomed

Q - Surrogate recovery limit exceedance
I - Matrix Interference
Note: Extracted by EPA 5030 (Purge and Trap).

Submitted by,
Zymax Forensics, A Pace Company

US631
120616-1SOIL.D & Dilution - 120616-1SOIL.D

Zymax/PAES ID	**21043-1**
Sample ID	**MW-5 Socl**
Evaporation	
n-Pentane / n-Heptane	
2-Methylpentane / 2-Methylheptane	15.95892
Waterwashing	
Benzene / Cyclohexane	
Toluene / Methylcyclohexane	
Aromatics / Total Paraffins (n+iso+cyc)	1.36
Aromatics / Naphthenes	2.91
wt% < o-xylene	44.20
Biodegradation	
(C4-C8 Para +Isopara) / C4-C8 Olefins	
3-Methylhexane / n-Heptane	
Methylcyclohexane / n-Heptane	
Isoparaffins + Naphthenes / Paraffins	18.89239
Diagnostic Ratios (Refining Properties)	
Alkylate Abundance (2,2,4-Trimethylpentane / Methylcyclohexane)	
Alkylate Type (2,2,4-Trimethylpentane / Total TMPs)	
SRG Abundance (nC9 / Isopropylbenzene)	
SRG Abundance (nC10 / 1-Methyl-2-ethylbenzene)	0.091238
SRG Abundance (nC11 / 1,4-Dimethyl-2-ethylbenzene)	
Isomerate Blending (iC5 / iC5+nC5)	0.66053
Isomerate Blending 2 (2-methylhexane + 2,3dimethylpentane / 3-methylhexane + 2,4 dimethylpentane)	2.119032
Oxygenates	
MTBE (ug/kg)	0
t-Butanol (ug/kg)	0
DIPE (ug/kg)	0
ETBE (ug/kg)	0
TAME (ug/kg)	0
Lead Scavengers	
EDC (ug/kg)	0
EDB (ug/kg)	0
Sulfur Heterocyclics	
Thiophene (ug/kg)	0
3-Methyl thiophene (ug/kg)	0
Benzothiophene (ug/kg)	0
Relative Percentages	
% Paraffinic	2.132845
% Isoparaffinic	20.53145
% Aromatic	57.57262
% Naphthenic	19.76309
% Olefinic	0


21043-1
ug/kg
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
IP
C5
23DMB
22DMB
2MP
3MP
22DMP
C6
MCYP
23DMP
24DMP
CYH
33DMP
2MH
3MH
C13DMCYP
T13DMCYP
T12DMCYP
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IA
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14DM2EB
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N
2MN
1MN
Paraffins
Isoparaffins
Aromatics
Naphthenes
Olefins
Alkylate Diagnostic
BTEX
Sulfur
OX+ADD

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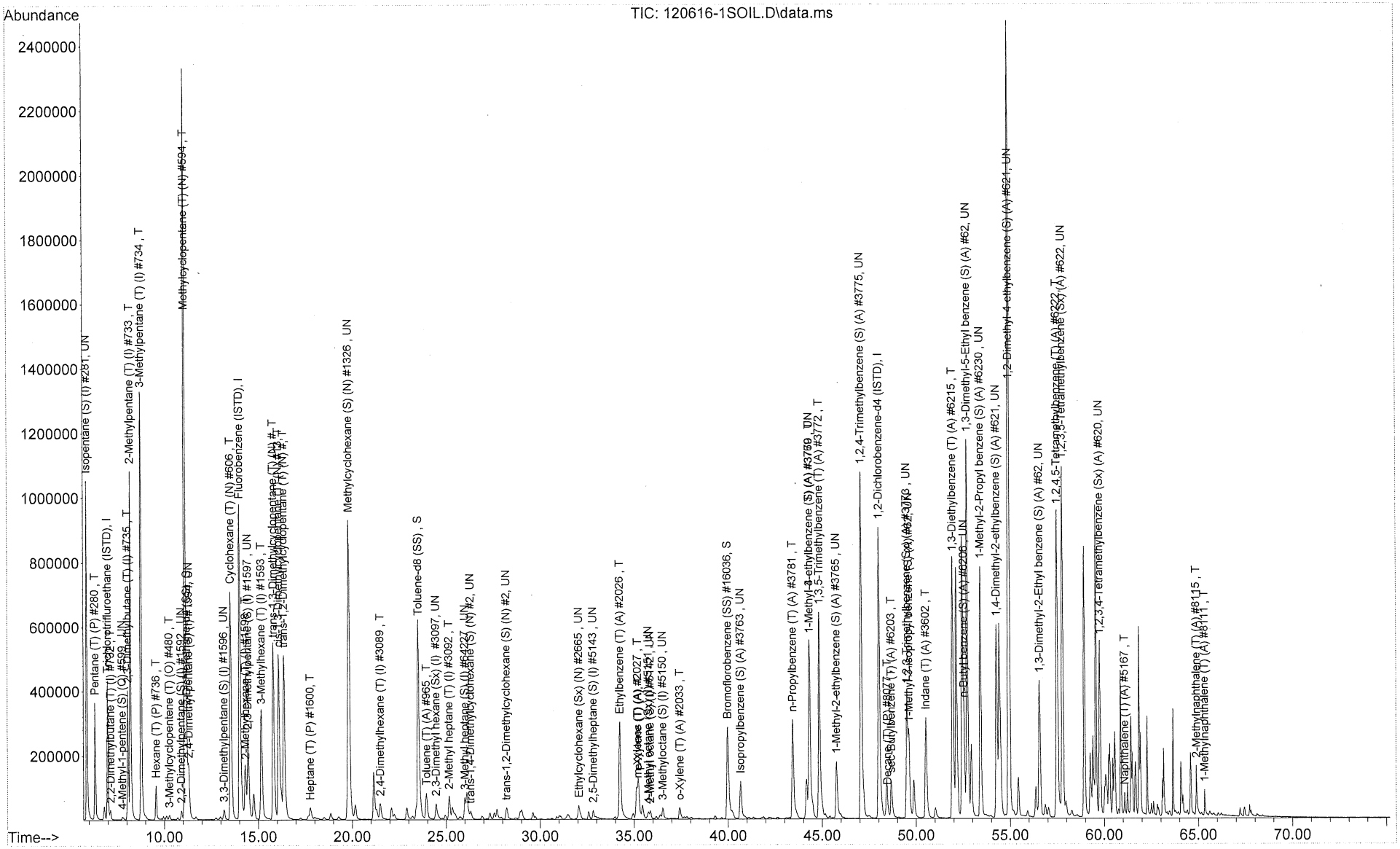
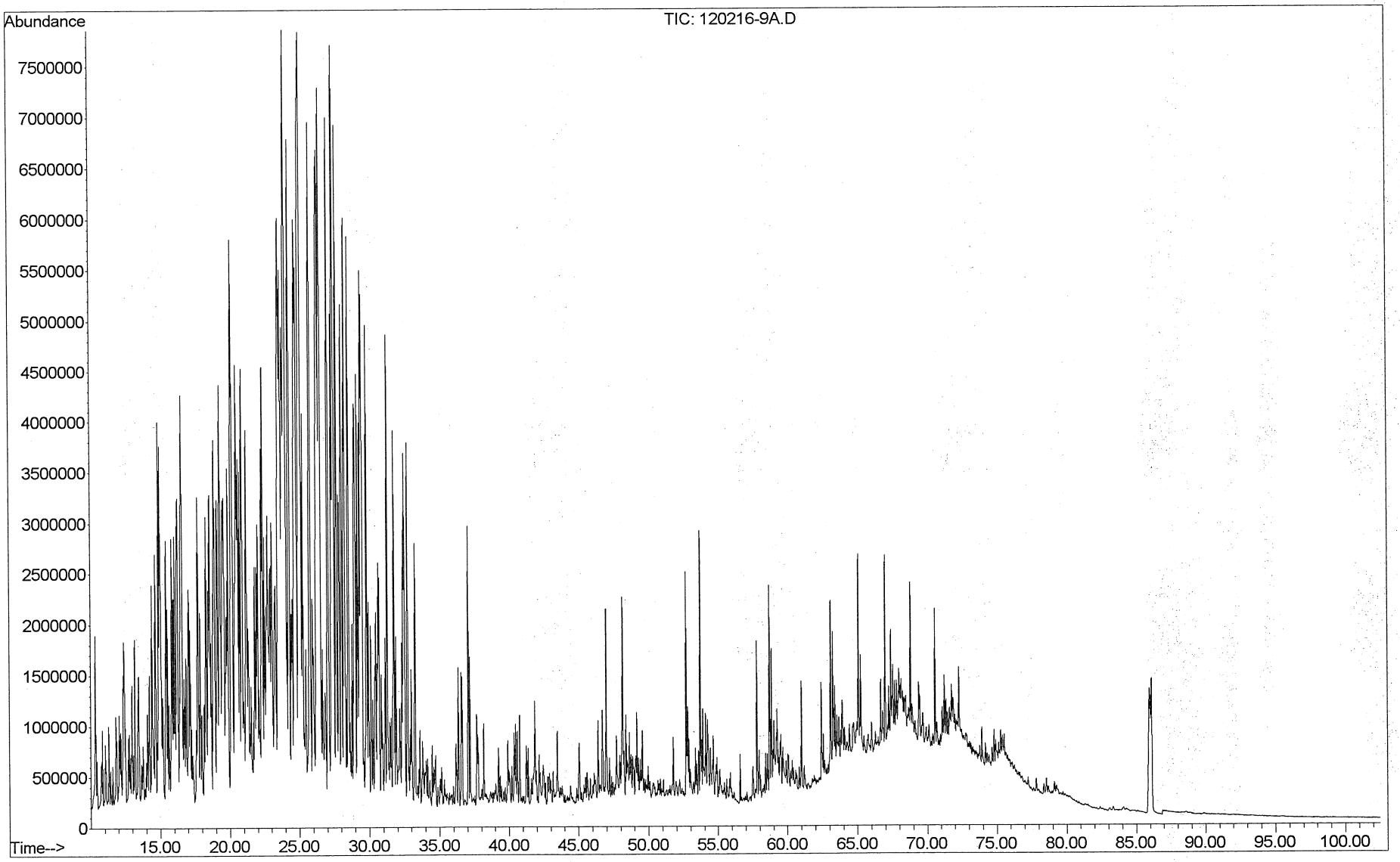
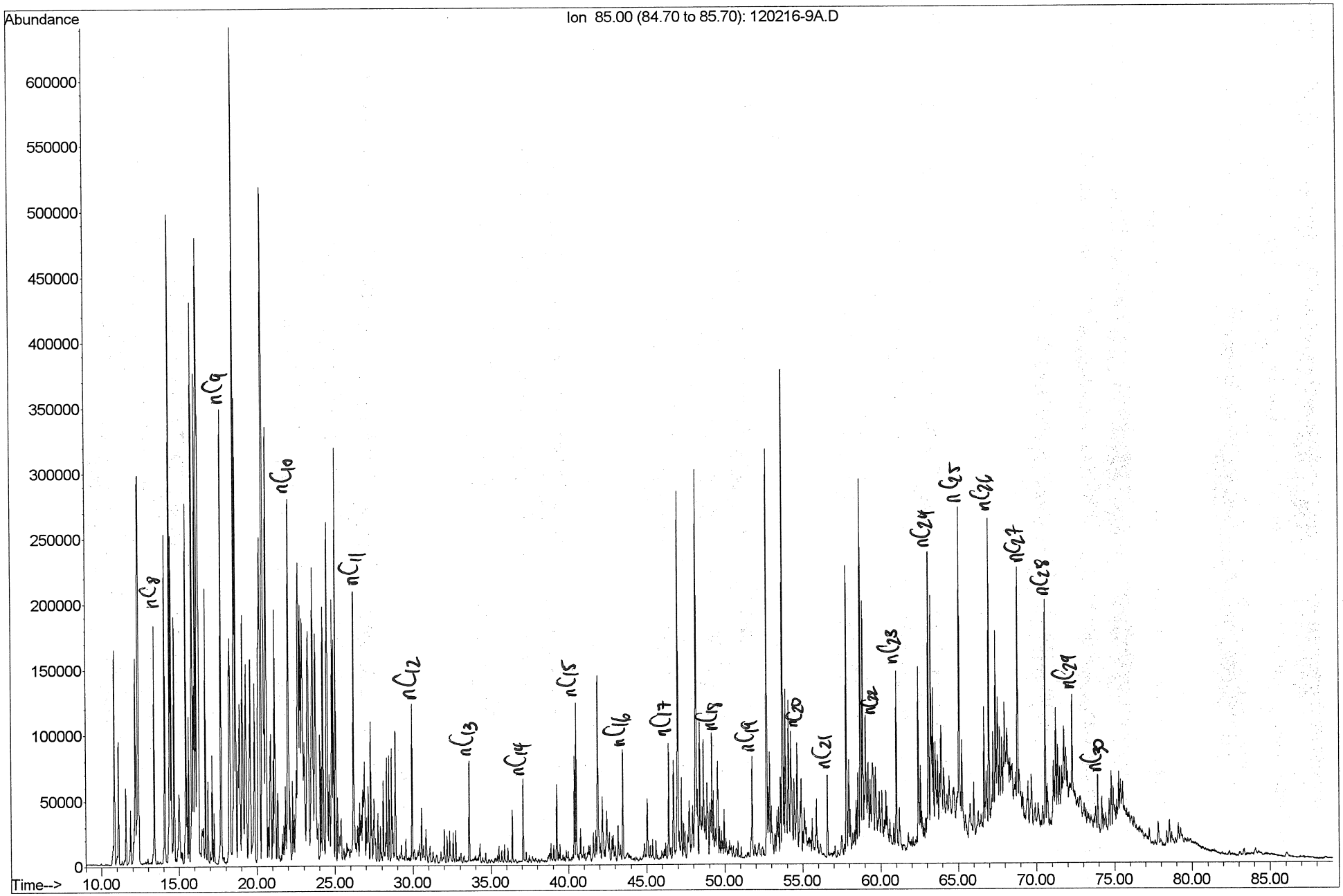
Operator : CAM
Acquired : 8 Dec 2016 10:53 using AcqMethod C3C10PIANO1.M
Instrument : US631
Sample Name: 21043-1 5.098G/10ML
Misc Info : 40ppb IS/ 20ppb SS DF50
Vial Number: 15



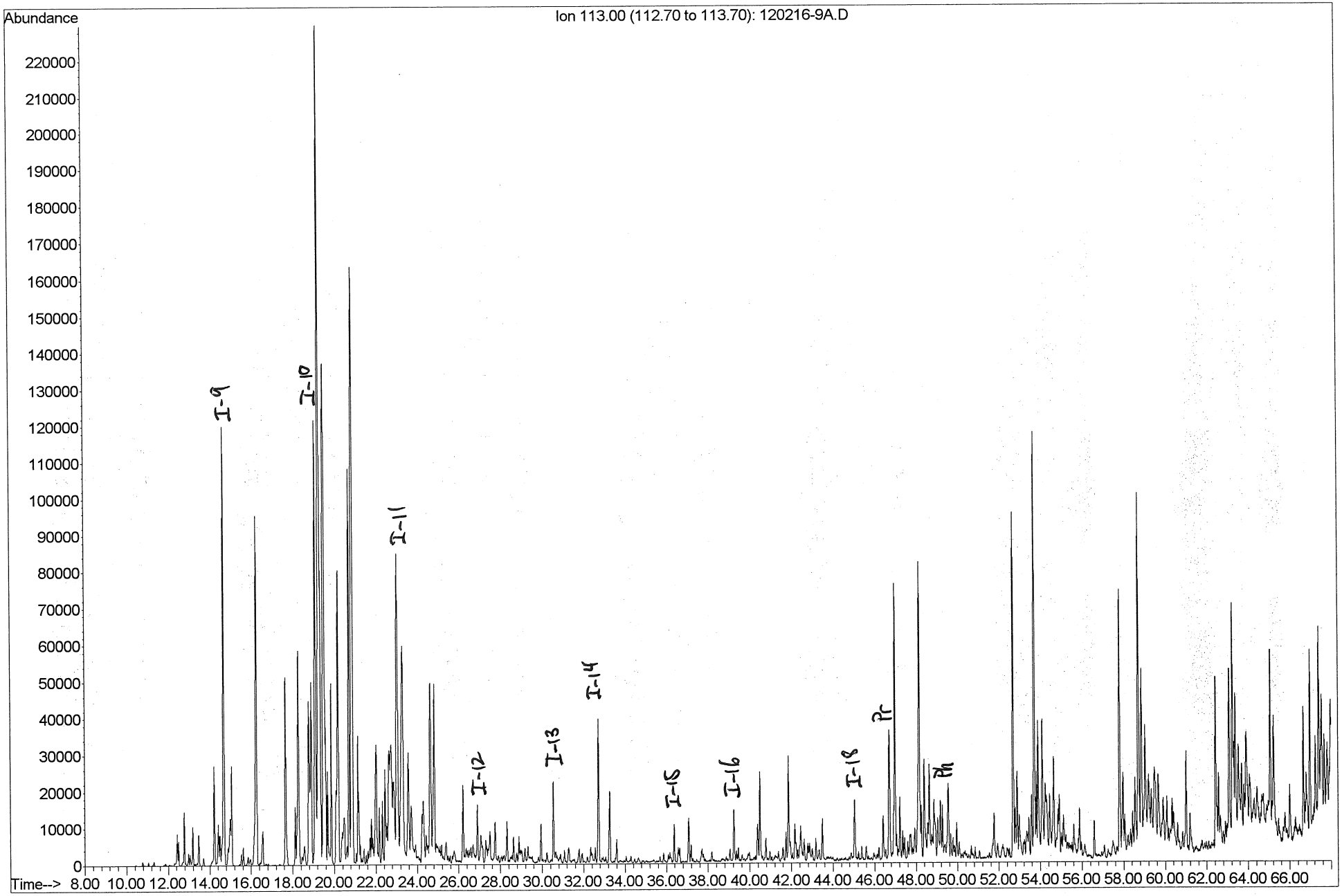
Sample Name: MW-5 SOCK (21043-1)
Misc Info :



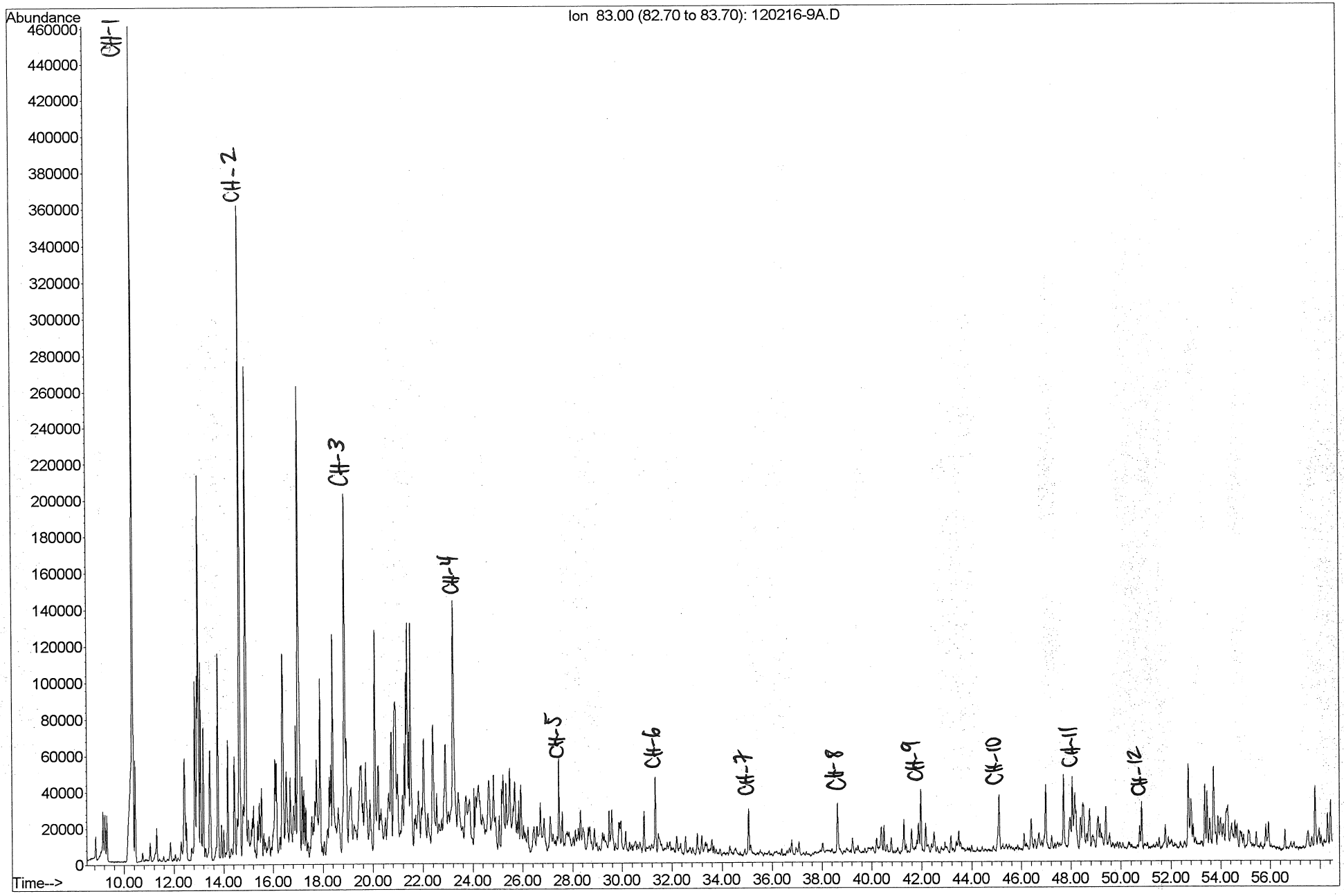
MW-5 SOCK (21043-1)



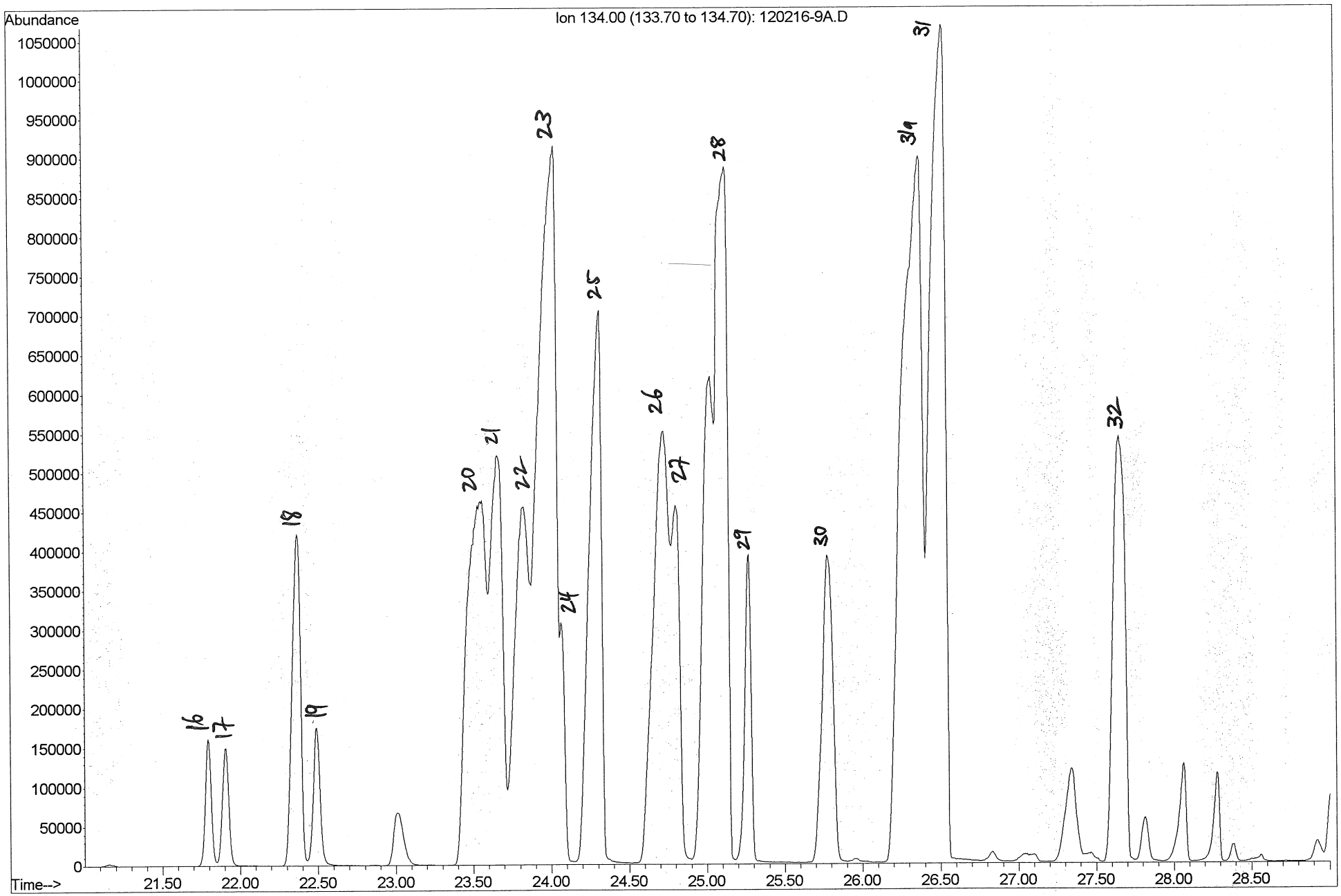
MW-5 SOCK (21043-1)



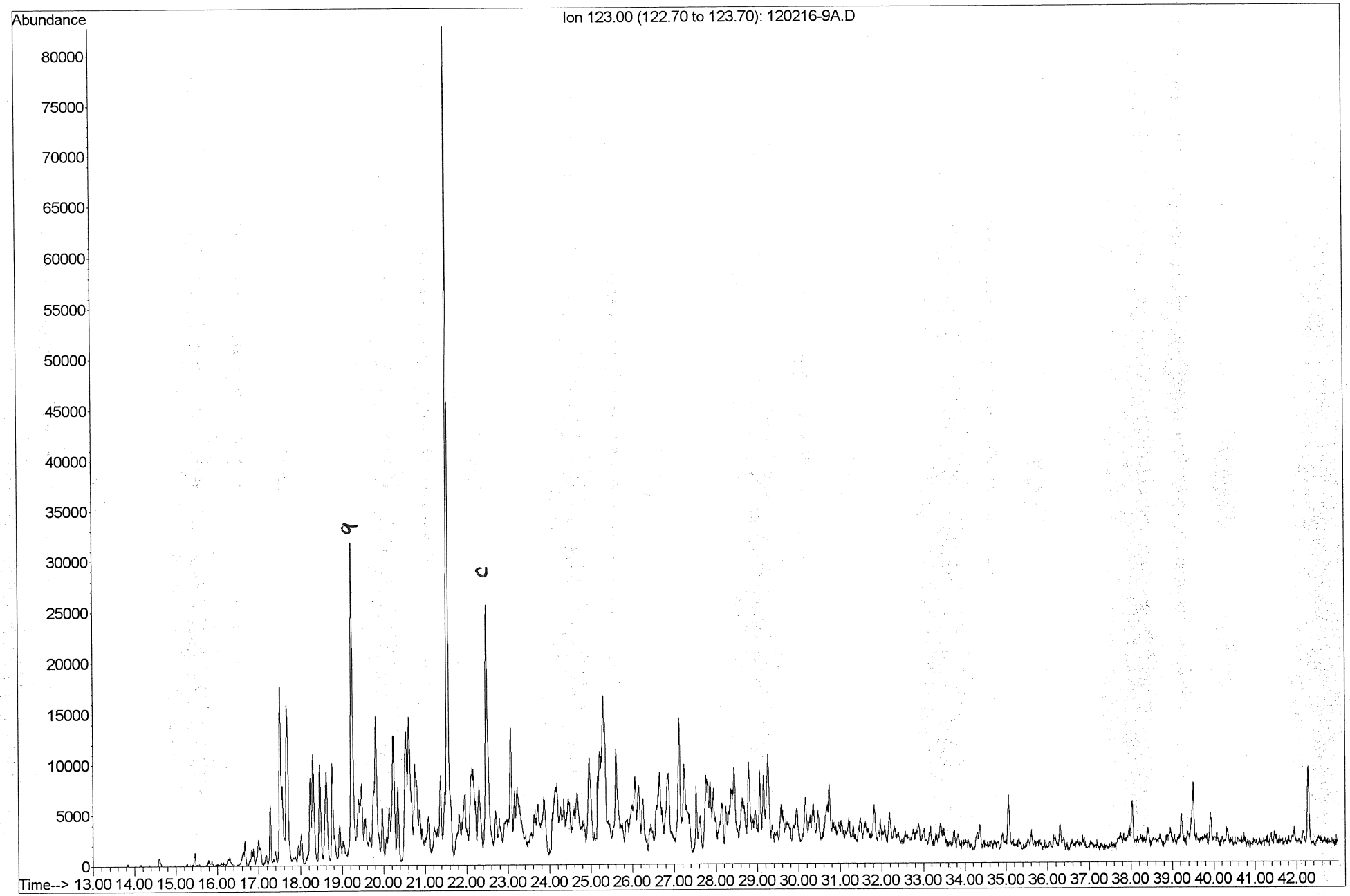
MW-5 SOCK (21043-1)



MW-5 SOCK (21043-1)



MW-5 SOCK (21043-1)



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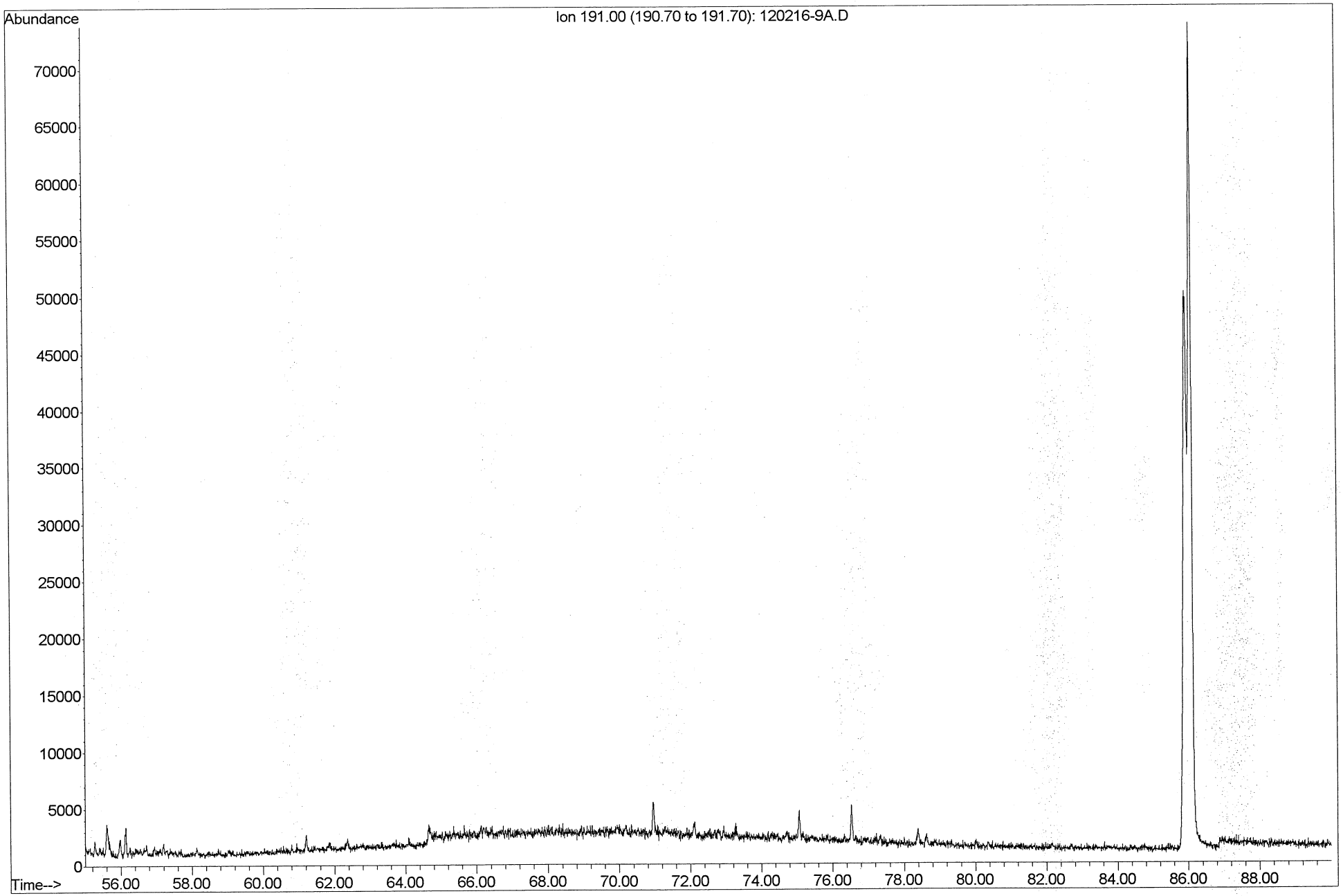

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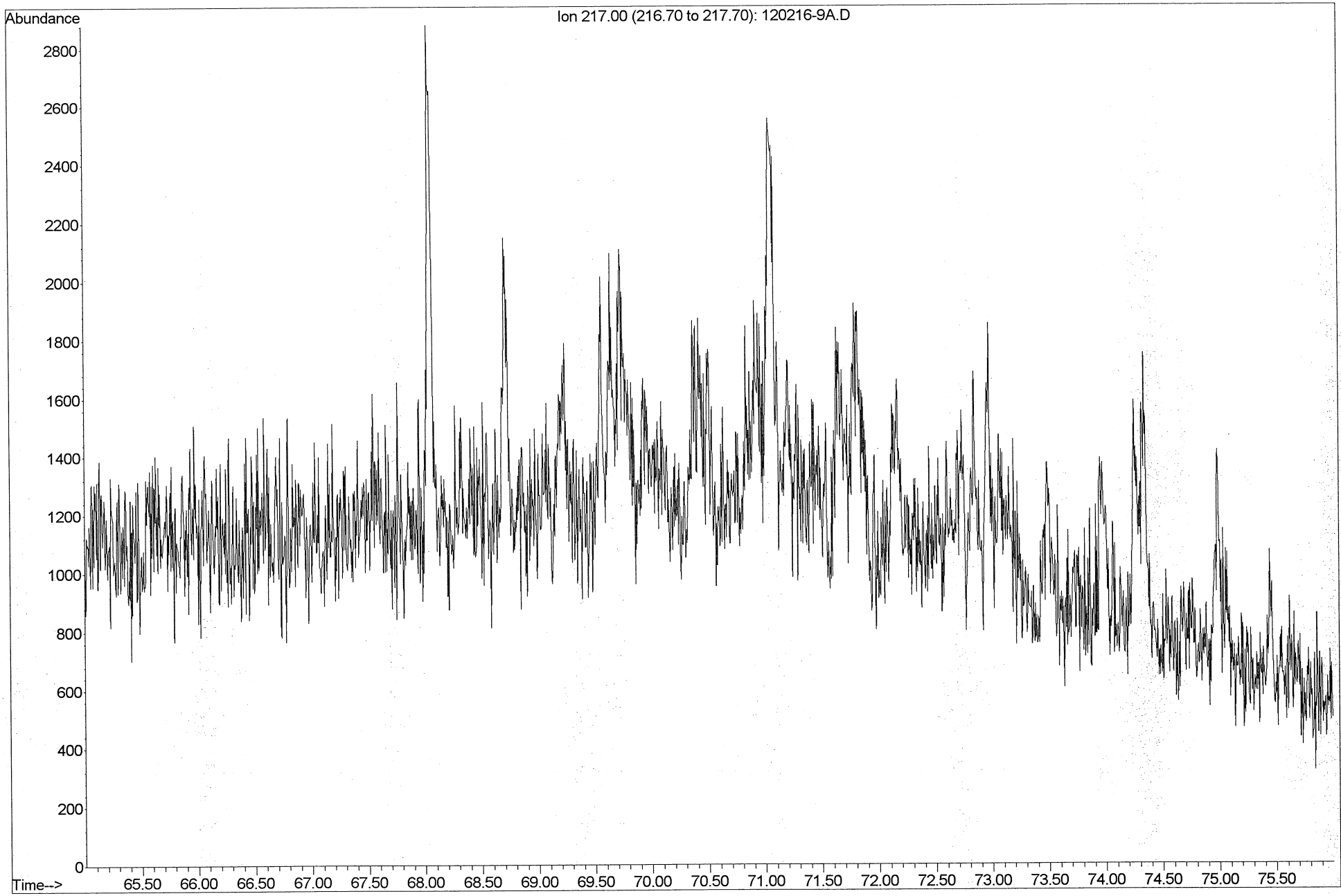
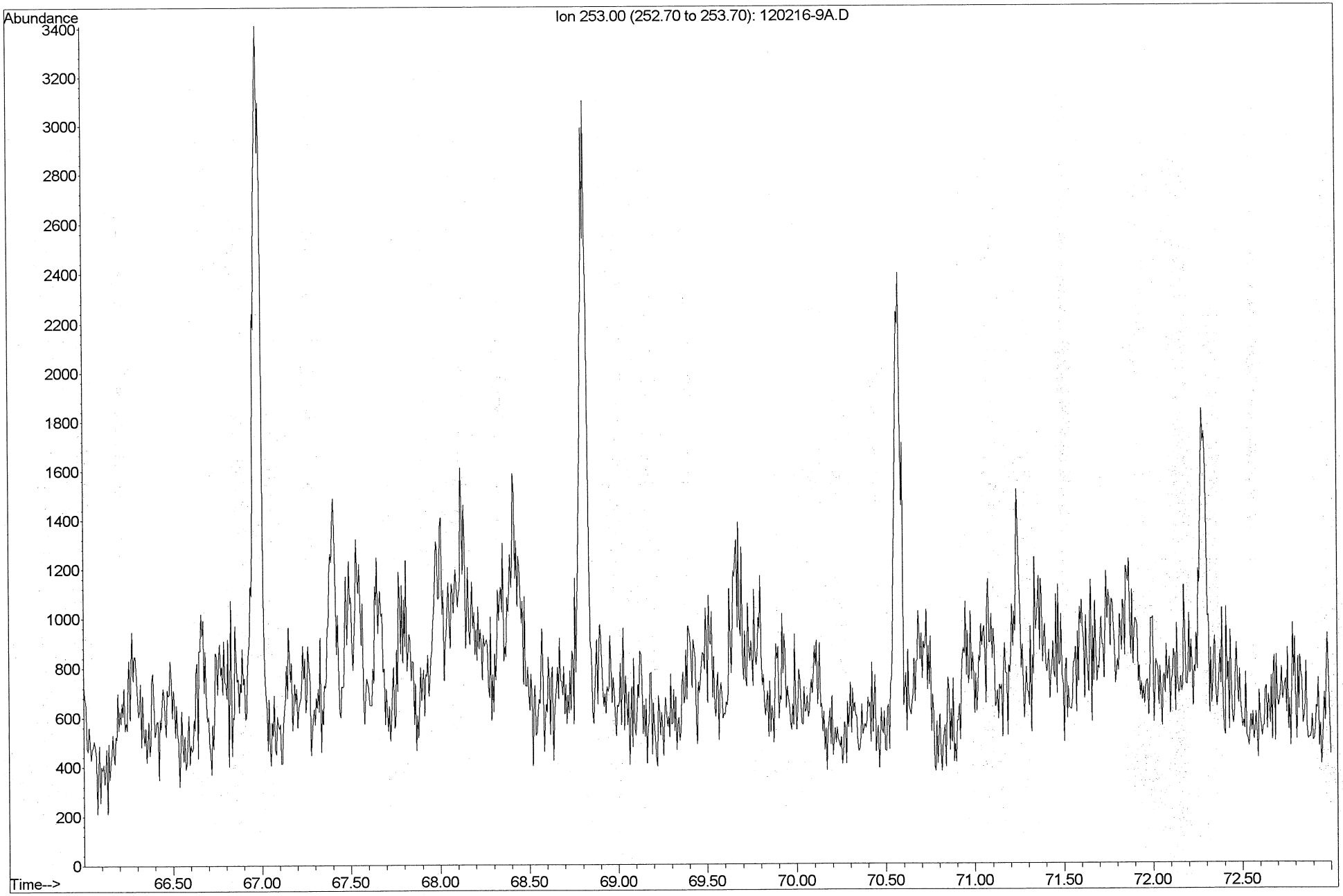
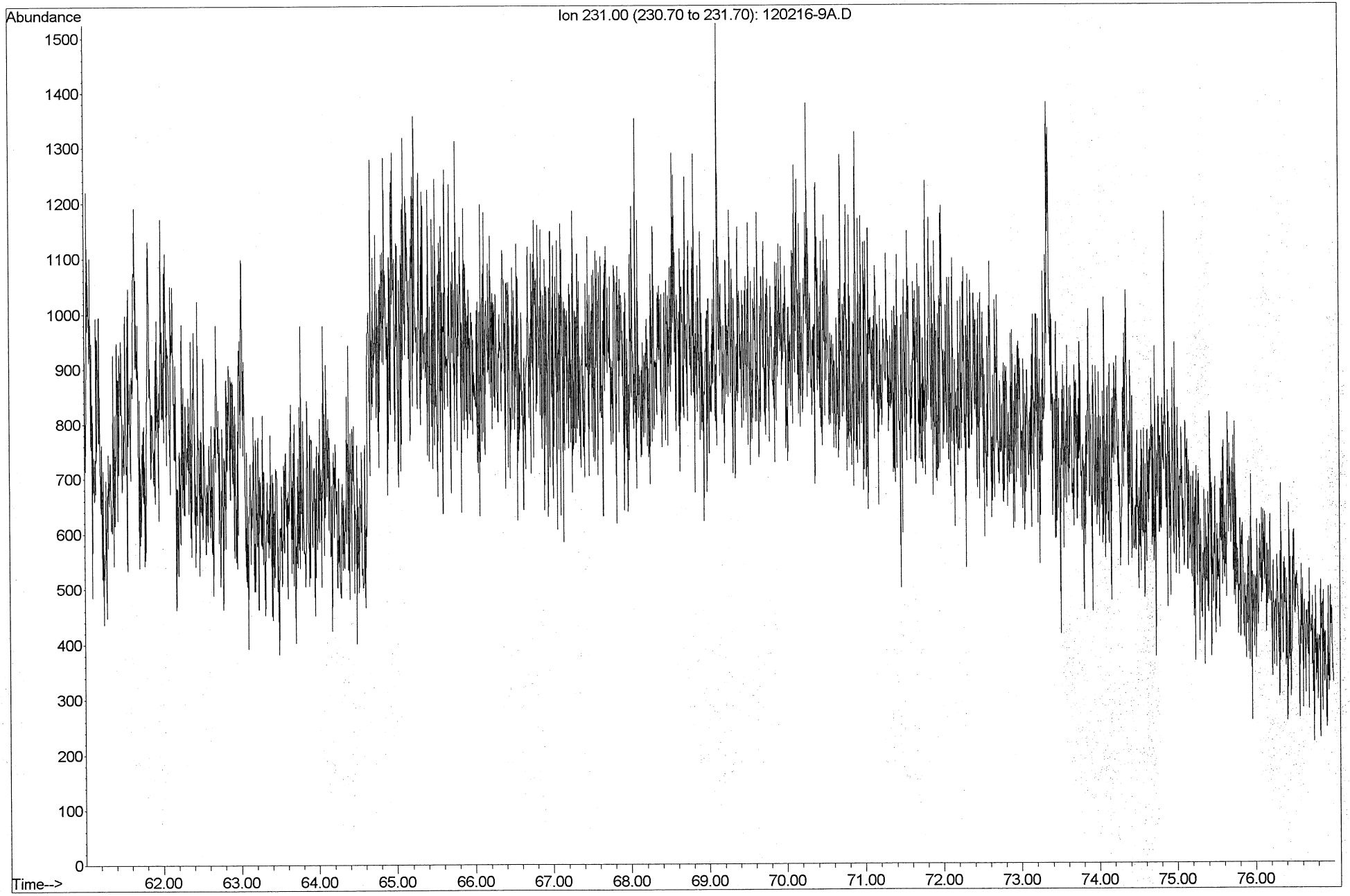


MW-5 SOCK (21043-1)

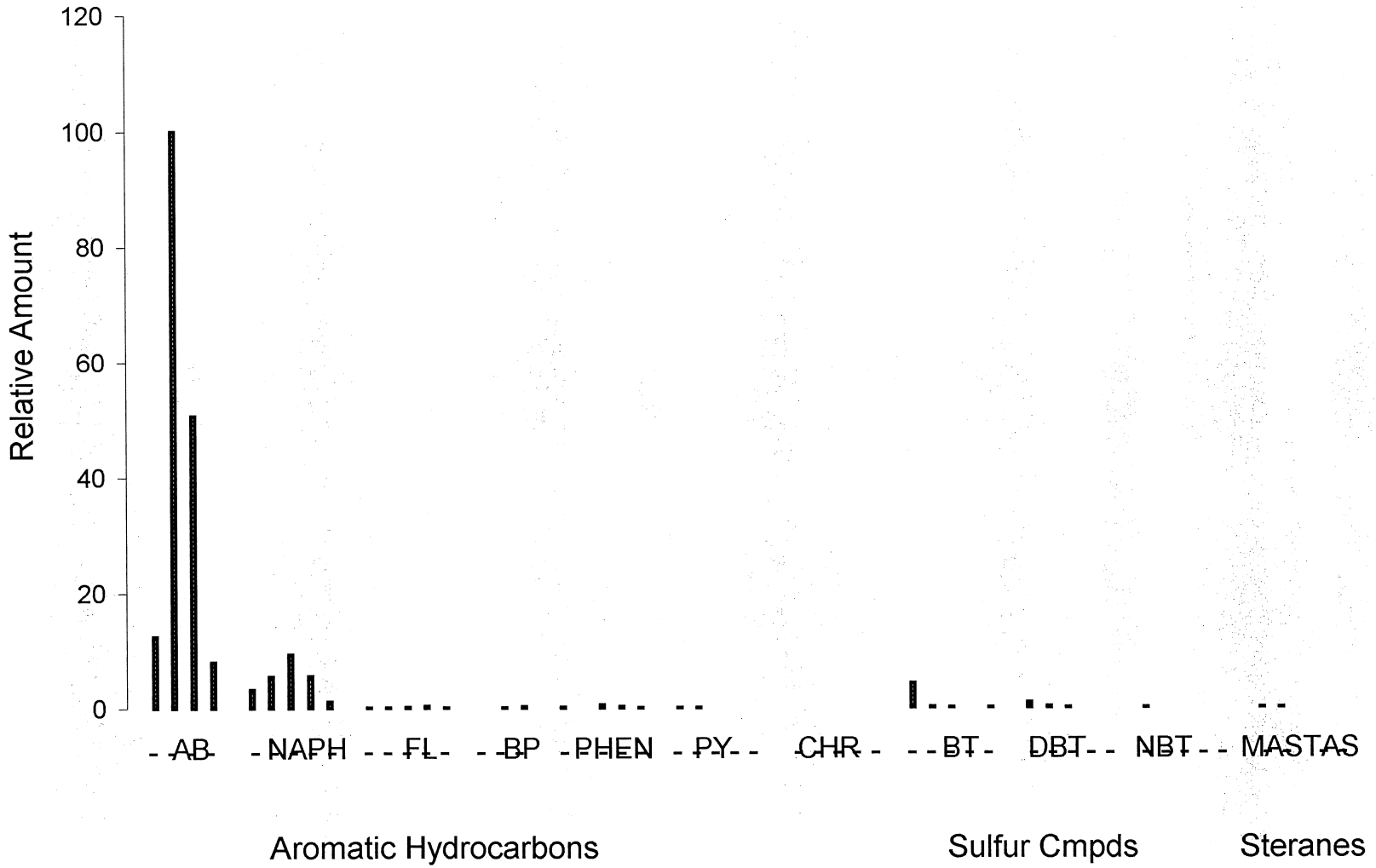


MW-5 SOCK (21043-1)



Aromatic Hydrocarbon Distribution

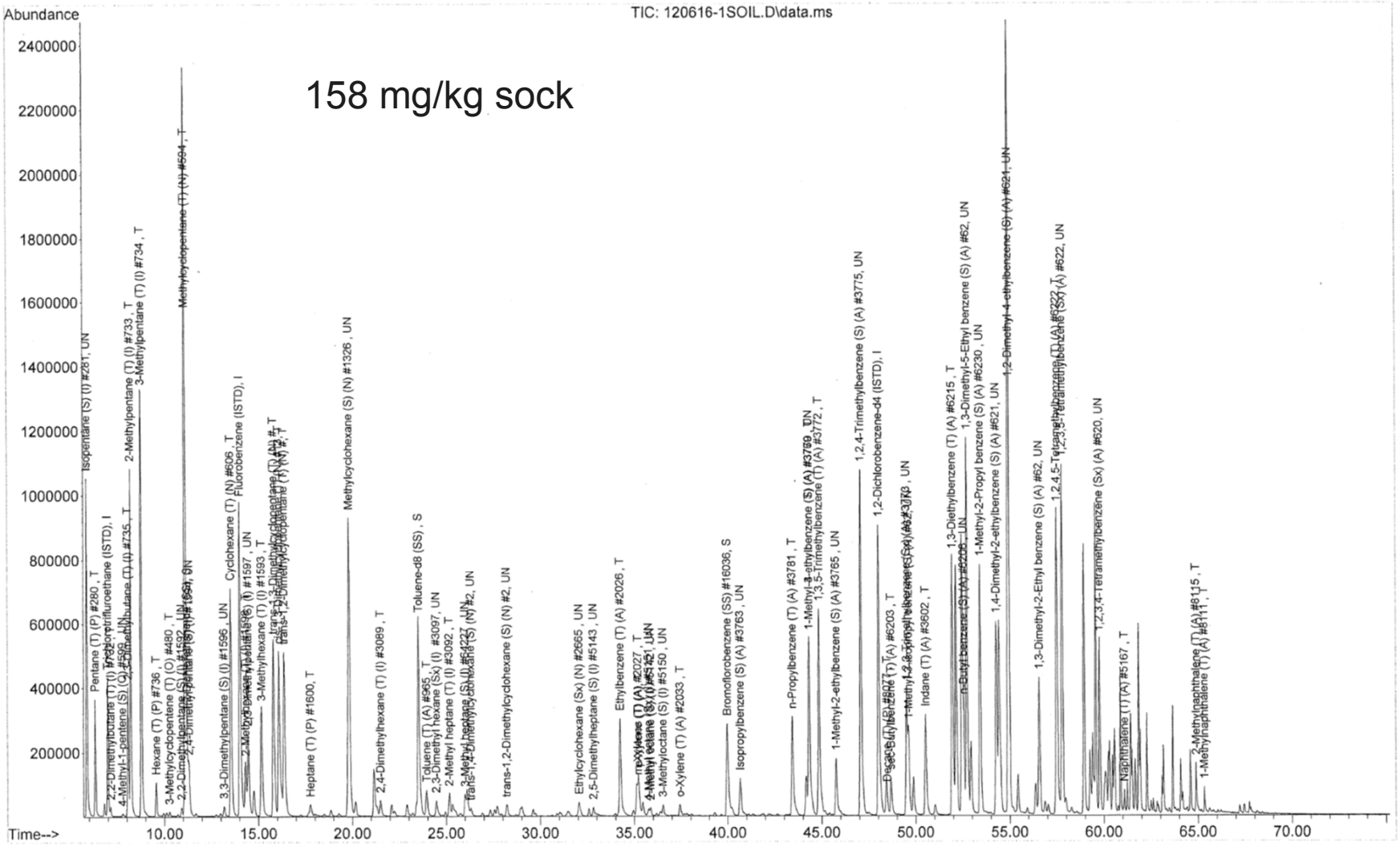
MW-5 SOCK (21043-1)



ATTACHMENT D

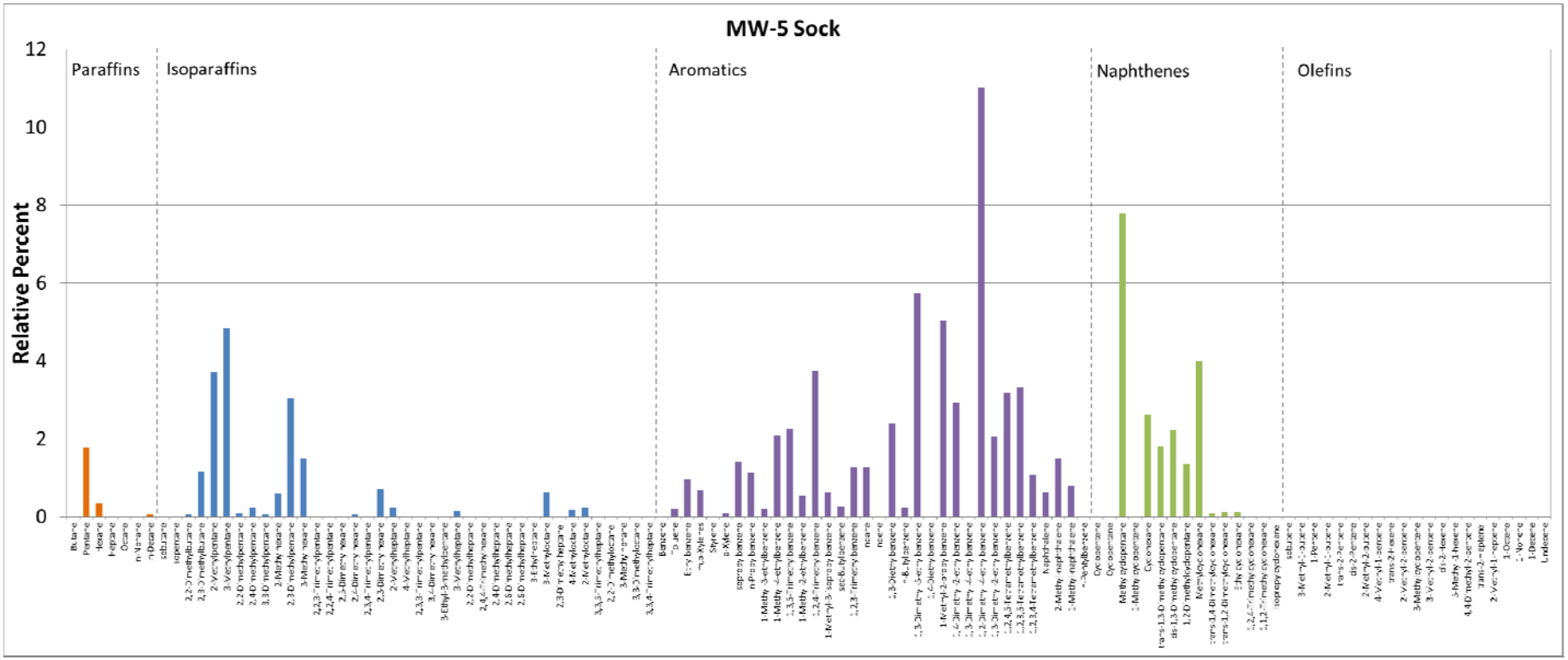
[PIANO Analysis for MW-5]

MW-5 Sock – PIANO Chromatogram

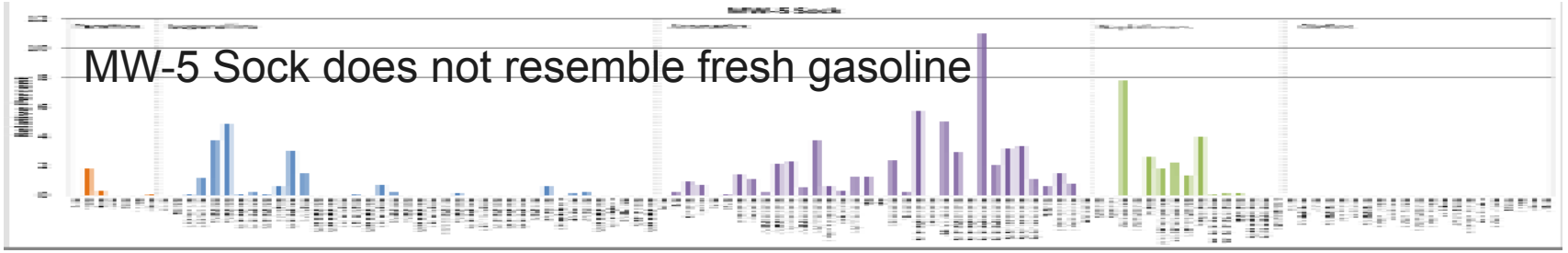


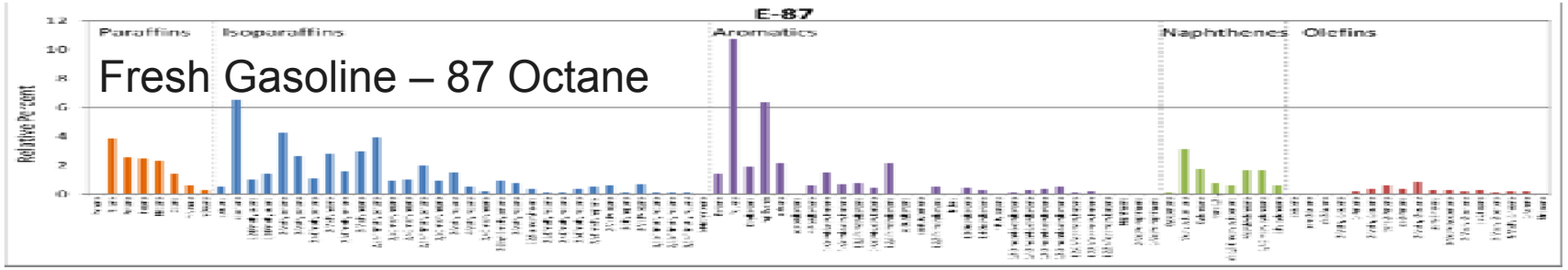
MW-5 Sock – PIANO Bar Chart

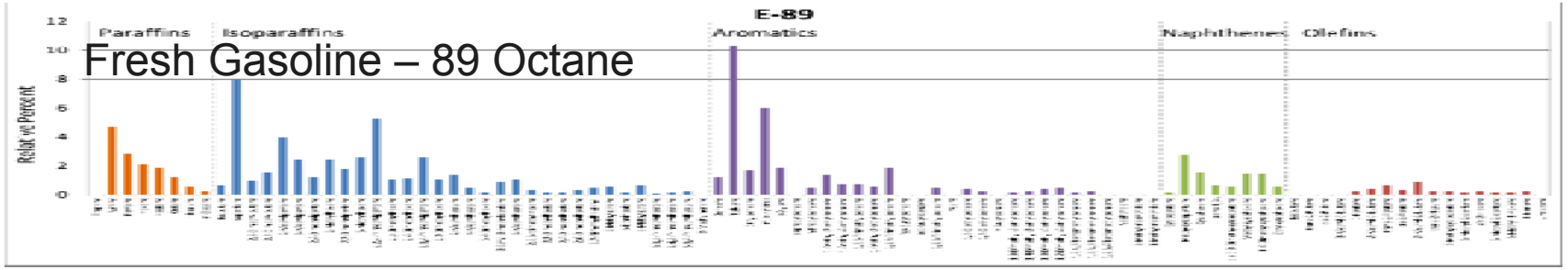
- Resembles weathered gasoline
- Presence of C5 and C6 alkanes and isoalkanes suggests LNAPL is water washed (preferential removal of BTEX)

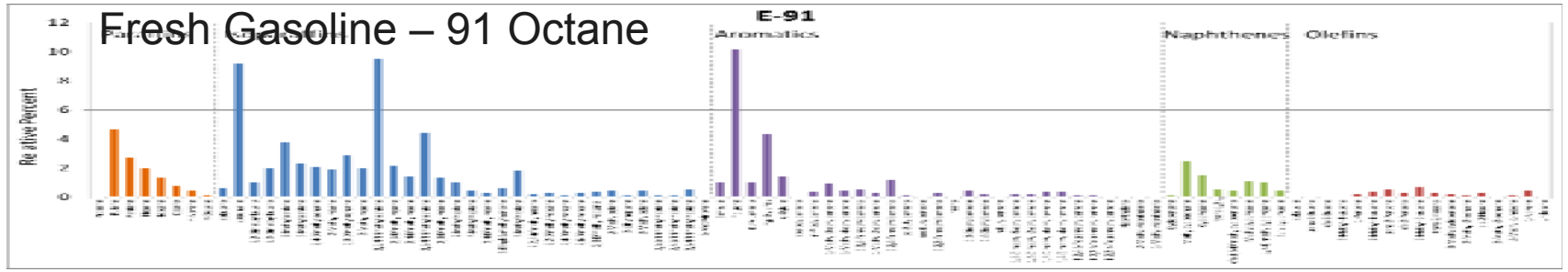


MW-5 PIANO Bar Chart – Comparison to Fresh Gasoline



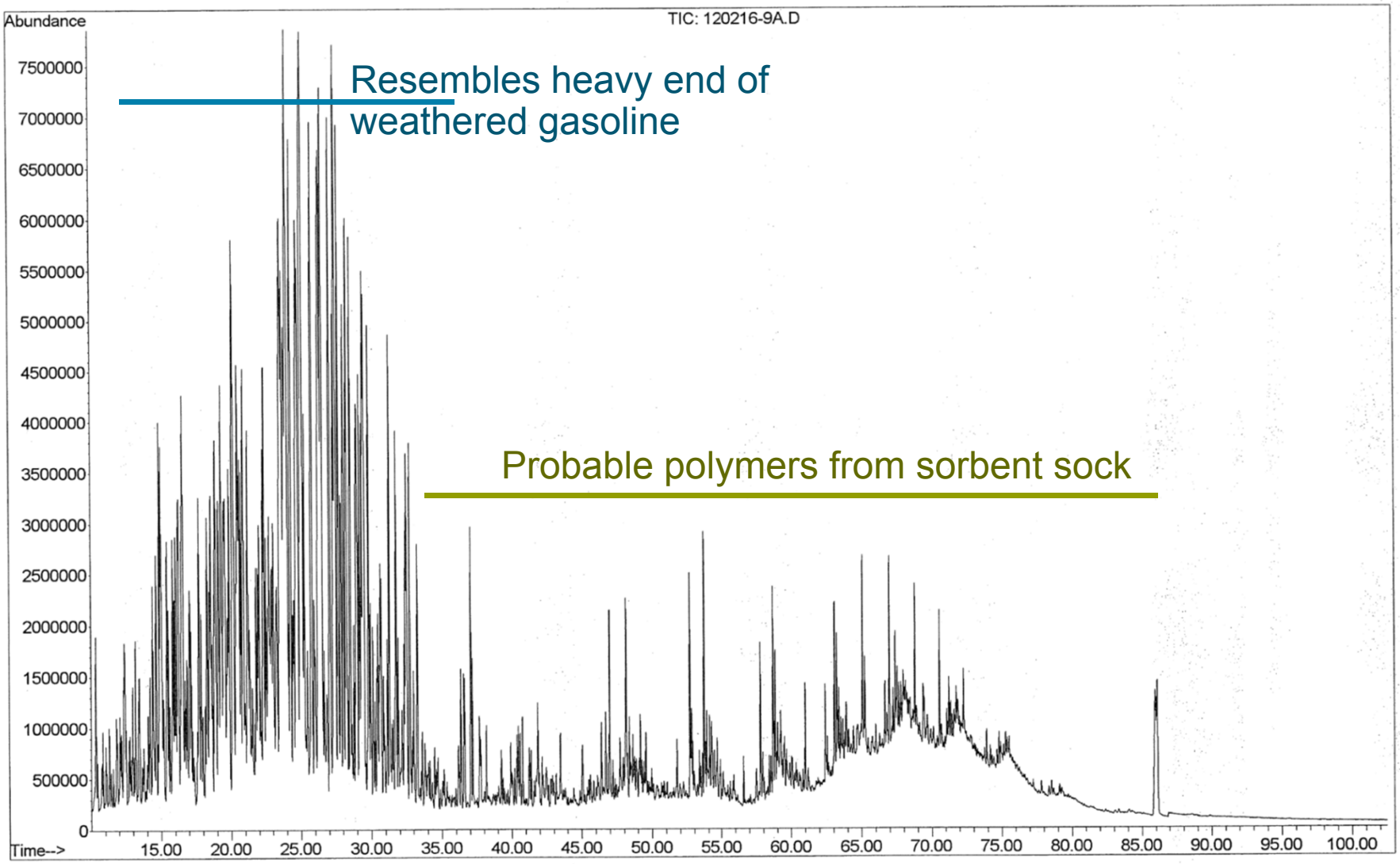




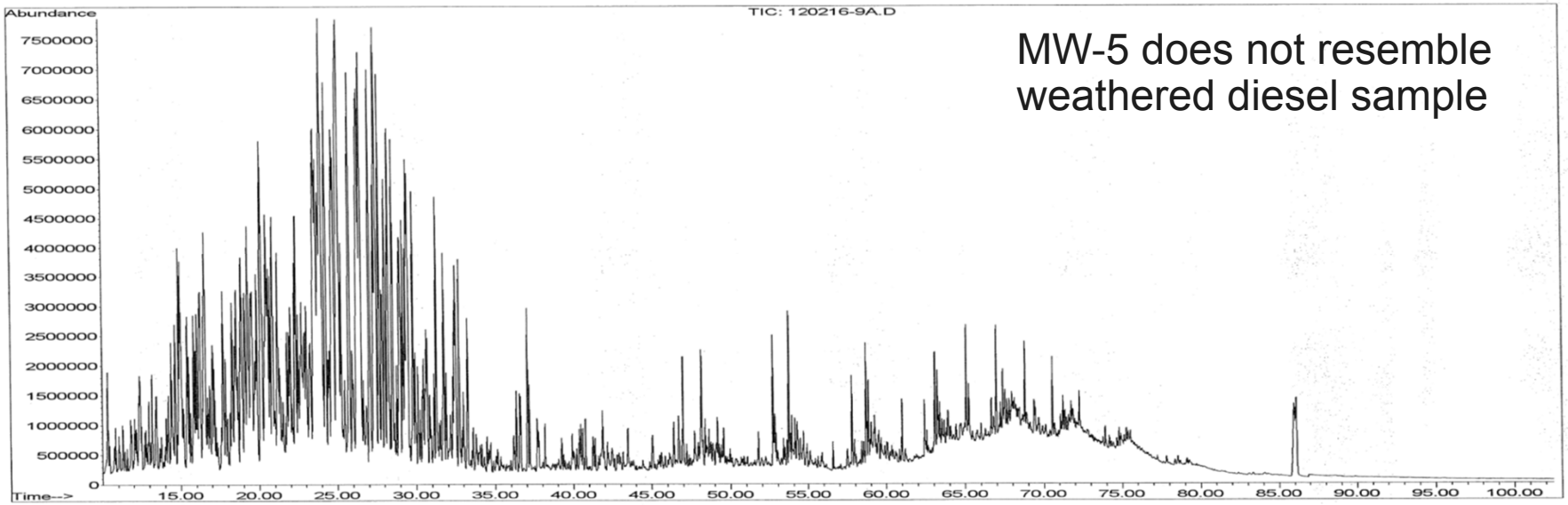


Note: MW-5 data from GC/MS PIANO analysis, fresh gasoline from GC/FID analysis

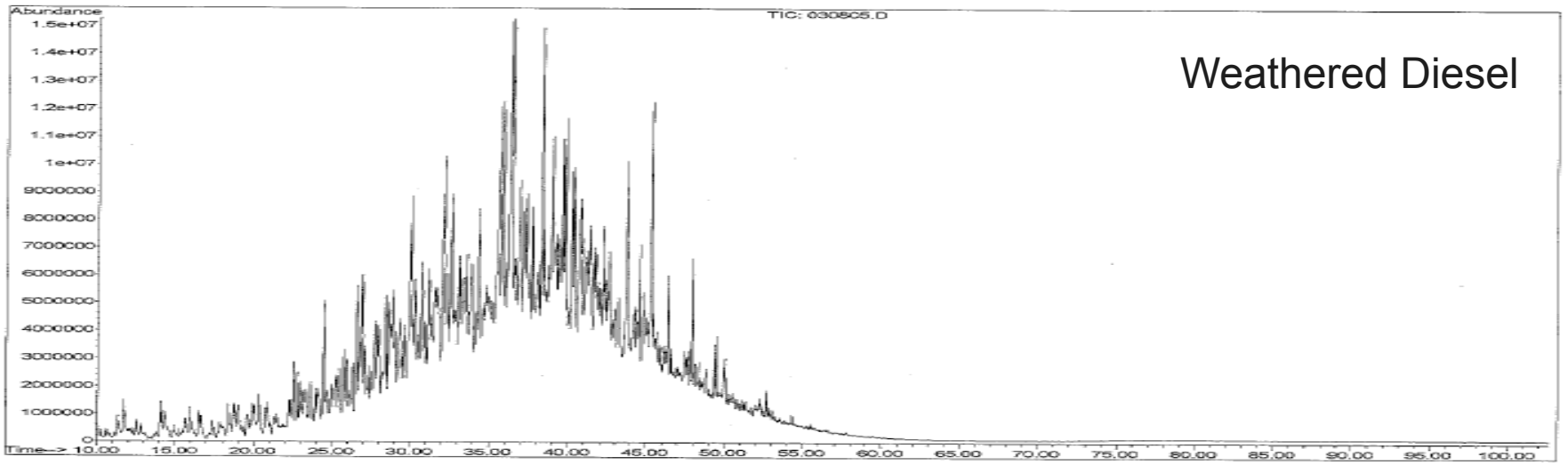
MW-5 Sock – GC/MS Full Scan
TIC Chromatogram



MW-5 Sock – GC/MS Full Scan
TIC Chromatogram



MW-5 does not resemble weathered diesel sample



Weathered Diesel