



James P. Kiernan, P.E.
Project Manager

**Chevron Environmental
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July 13, 2016

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

RECEIVED

By Alameda County Environmental Health 9:30 am, Jul 14, 2016

Re: Unocal No. 6129 (351639)
First Semi-Annual 2016 Groundwater Monitoring Report
3420 35th Avenue, Oakland, California
Fuel Leak Case No.: RO0000058
GeoTracker Global ID #T0600101465

I have reviewed the attached report dated July 13, 2016.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by AECOM, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13257(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

James P. Kiernan, P.E.
Project Manager

Attachment: First Semi-Annual 2016 Groundwater Monitoring Report by AECOM



AECOM
1220 Avenida Acaso
Camarillo, CA 93012

(805) 388-3775 tel
(805) 388-3577 fax

July 13, 2016

Mr. Keith Nowell
Alameda County Health Care Services Agency
Environmental Health Services
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577
(via internet upload)

**Subject: First Semi-Annual 2016 Groundwater Monitoring Report
Unocal #6129 (351639)
3420 35th Avenue, Oakland, California
Fuel Leak Case No. RO0000058
GeoTracker Global ID T0600101465**

Dear Mr. Nowell,

On behalf of Chevron Environmental Management Company's (EMC's) affiliate, Union Oil Company of California ("Union Oil"), AECOM has prepared this first semi-annual 2016 groundwater monitoring report for the above-referenced site.

Future Work

The next semi-annual groundwater monitoring event is scheduled to be conducted during the fourth quarter of 2016.

Remarks/Signatures

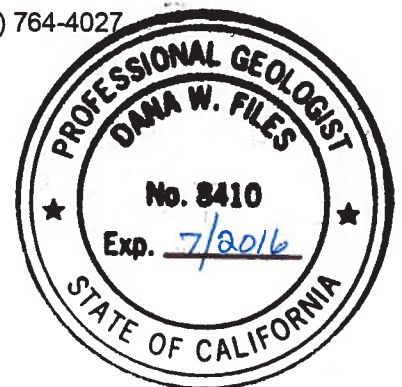
The interpretations in this report represent AECOM's professional opinions and are based, in part, on the information supplied by the groundwater monitoring contractor and laboratory. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this project, please contact Chad Roper at (805) 764-4027.

Sincerely,

Chad Roper, PhD
Project Manager

Dana Files, PG #8410
Project Geologist



ccs: James Kieman, EMC (via electronic copy)
Ed Ralston, P66 (via electronic copy)
Son Nguyen & Le Pham, Nguyen/Pham Family Trust, property owner (via paper copy)

7/13/16

Enclosures:

- Attachment A - Groundwater Summary
- Attachment B - Figures
- Attachment C - Tables
- Attachment D - Hydrographs
- Attachment E - Field Procedures and Field Logs
- Attachment F - Laboratory Analytical Report and Chain-of-Custody Documentation

ATTACHMENT A

GROUNDWATER SUMMARY

GROUNDWATER MONITORING SUMMARY REPORT

Unocal #6129 (351639)
3420 35th Avenue, Oakland, California

CURRENT FIELD ACTIVITIES

| | |
|---|-------------------------|
| Groundwater monitoring frequency: | Semi-annual |
| Activity date: | 6/15/2016 |
| Groundwater monitoring subcontractor: | Gettler-Ryan Inc. (G-R) |
| Number of groundwater wells total: | 3 |
| Number of groundwater wells off-site: | 0 |
| Number of wells sampled (this period): | 3 |
| Number of wells with LNAPL (this period): | 0 |
| Cumulative LNAPL recovered to date (gallons): | 0 |
| LNAPL recovered during this period (gallons): | 0 |

SITE HYDROGEOLOGY

| | |
|--|--|
| Groundwater elevation range (feet above mean sea level) (this period): | 159.94 to 161.45 (depth to water range is 28.64 to 29.64 feet below top of casing) |
| Approximate groundwater flow direction (this period): | Southwest |
| Approximate hydraulic gradient (feet per foot) (this period): | 0.014 |

GROUNDWATER CONDITIONS

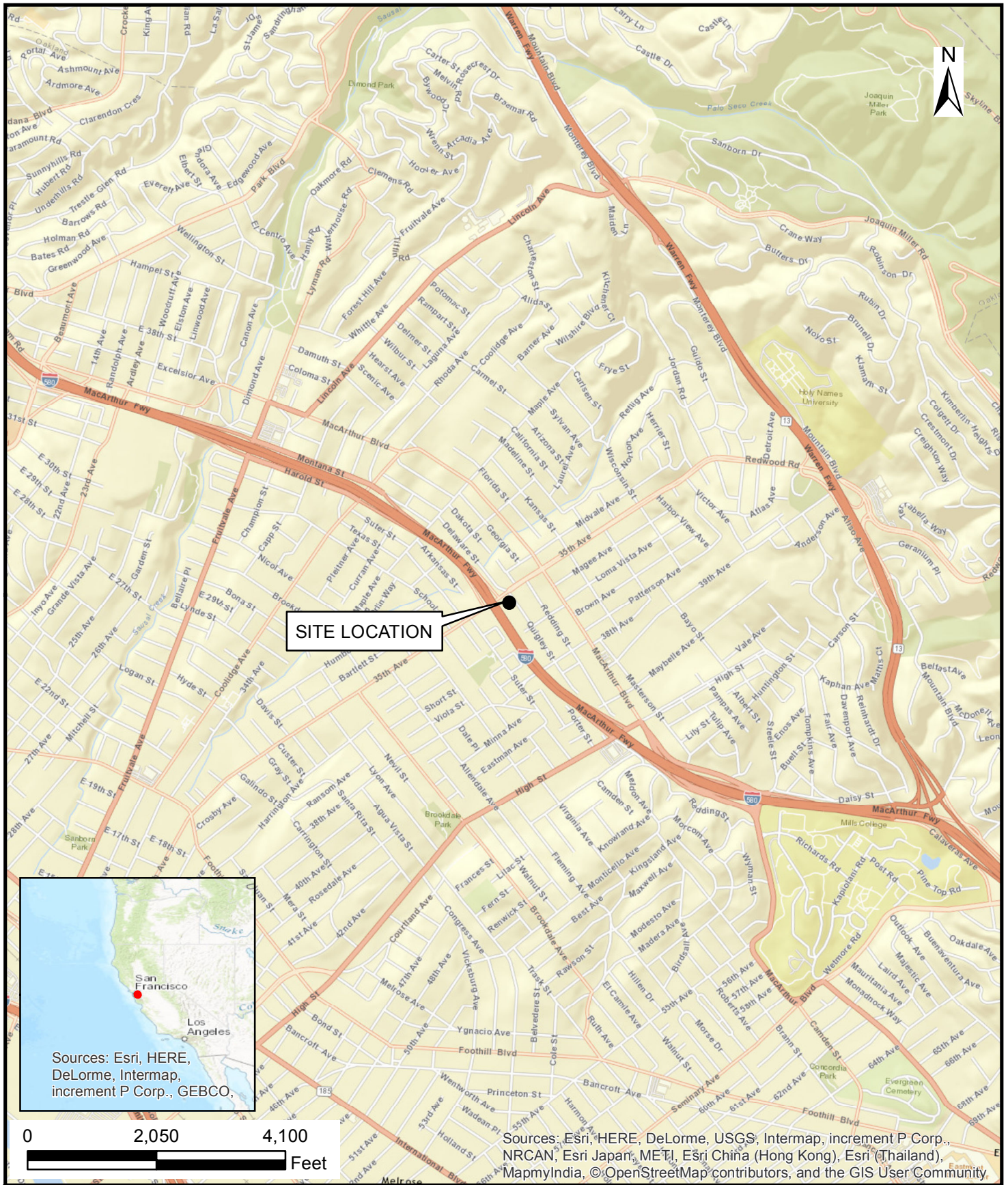
| | |
|---|---------------------------------|
| Maximum detected TPHg concentration (this period): | 550 µg/L (MW-3) |
| Historical maximum detected TPHg concentration: | 2,600 µg/L (MW-3) on 11/13/2003 |
| Maximum detected benzene concentration (this period): | Not detected |
| Historical maximum detected benzene concentration: | 0.32 µg/L (MW-1) on 2/12/1991 |
| Maximum detected MTBE concentration (this period): | 680 µg/L (MW-3) |
| Historical maximum detected MTBE concentration: | 3,700 µg/L (MW-3) on 11/13/2003 |
| Maximum detected TBA concentration (this period): | Not detected |
| Historical maximum detected TBA concentration: | 500 µg/L (MW-3) on 3/28/2007 |

GROUNDWATER TRENDS AND OBSERVATIONS

- Groundwater flow direction remains to the southwest.
- Groundwater analytical results were generally consistent with previous results and are stable to declining.
- TPHg was detected in groundwater samples collected from two of three wells sampled during this period, 89 µg/L (well MW-1) and 550 µg/L (well MW-3). These concentrations are within the recent historical range for this constituent at these wells.
- Benzene was not detected in groundwater samples collected from the three wells sampled during this period.

ATTACHMENT B

FIGURES



SITE LOCATION



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO,

Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, ©OpenStreetMap contributors, and the GIS User Community,



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 1220 AVENIDA ACASO
 CAMARILLO, CALIFORNIA 93012
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 WEB: HTTP://WWW.AECOM.COM

SITE LOCATION MAP

Unocal # 6129 (351639)
 3420 35th Avenue
 Oakland, California

FIGURE NUMBER:

1

DRAWN BY:

T. Quiroz

DATE:

06/28/2016

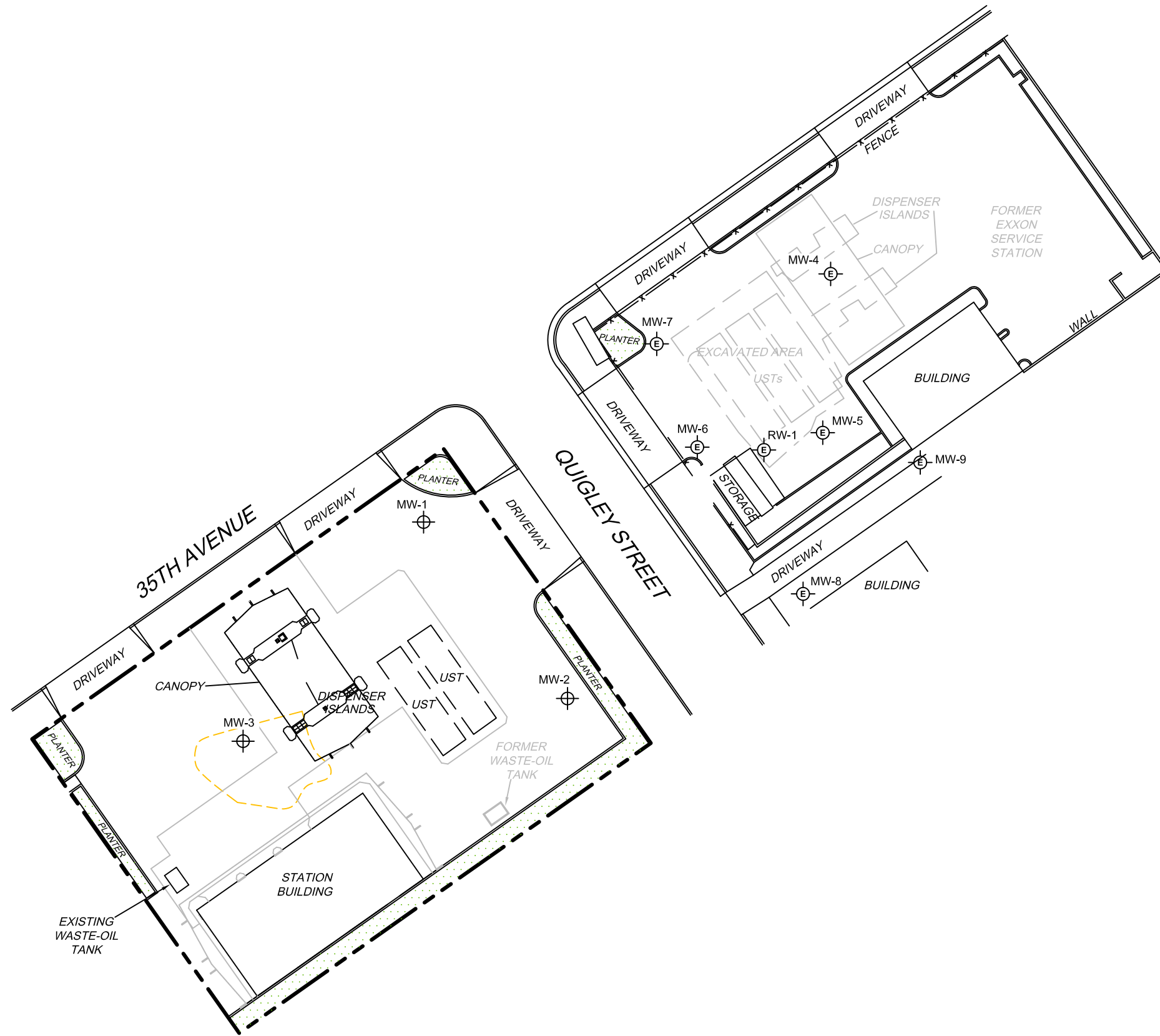
PROJECT NUMBER:

60509231

SHEET NUMBER:

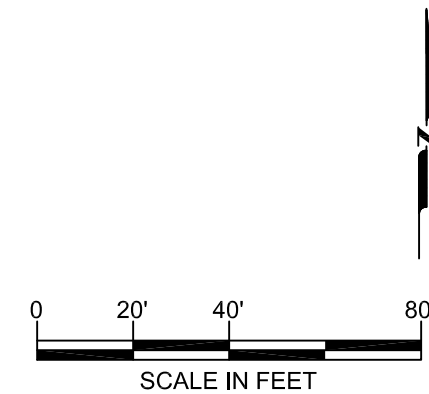
1 of 1

FILENAME: J:\Client-Projects\76_Products\351639_6129_Oakland_3420_35th_Ave\7.0_Deliverables\7.2_CADD\2016_15A\351639-15A-16.dwg



LEGEND

- SUBJECT PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ⊕ FORMER EXXON SERVICE STATION MONITORING WELL
- - - 1991 EXCAVATION BOUNDARY
- UST UNDERGROUND STORAGE TANK



| DESIGNED BY: | DRAWN BY: | NO.: | REVISIONS | |
|--------------|--------------|------|--------------|-------|
| | | | DESCRIPTION: | DATE: |
| X | M. Scop | | | |
| | CHECKED BY: | | | |
| | APPROVED BY: | | | |

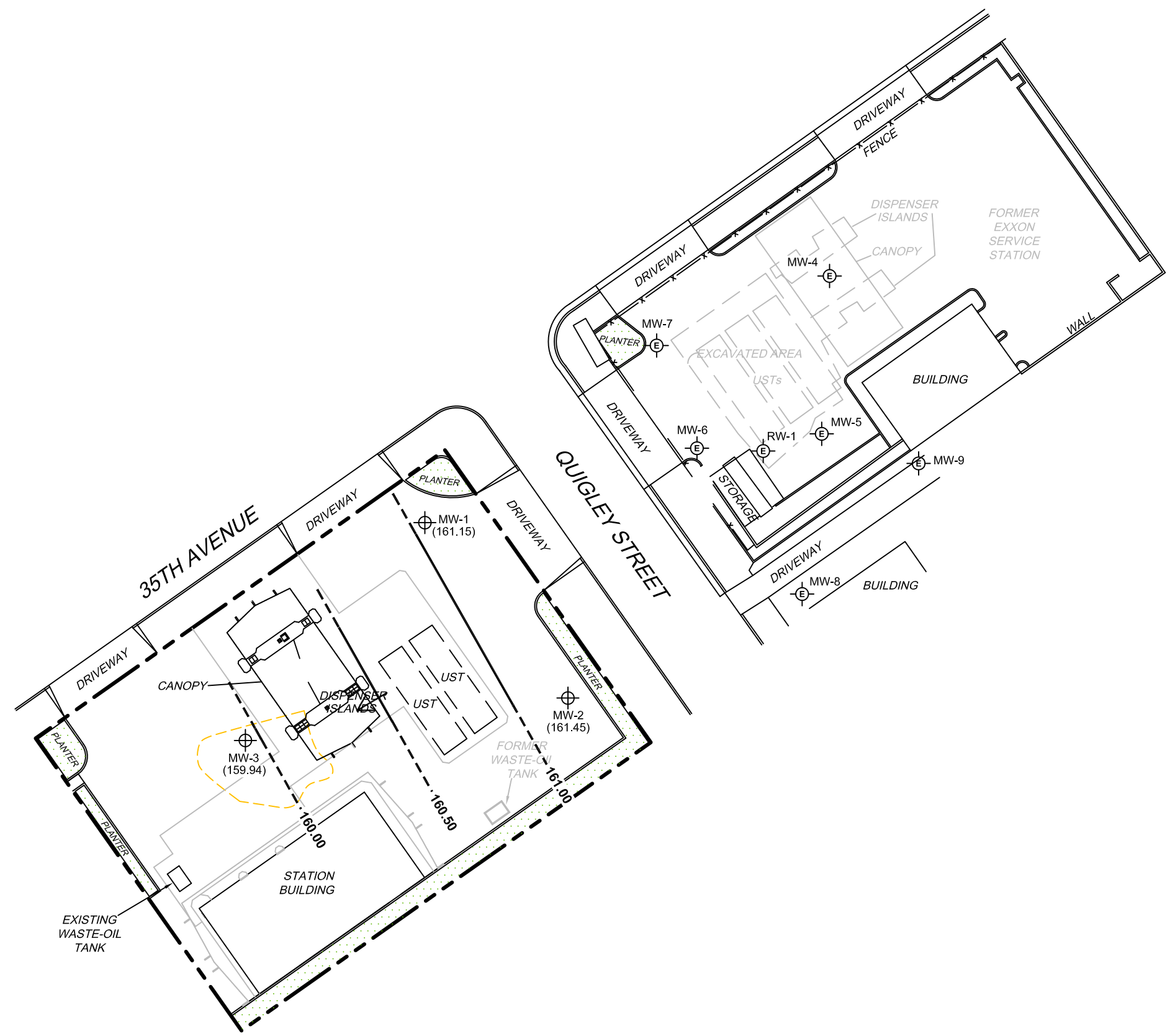
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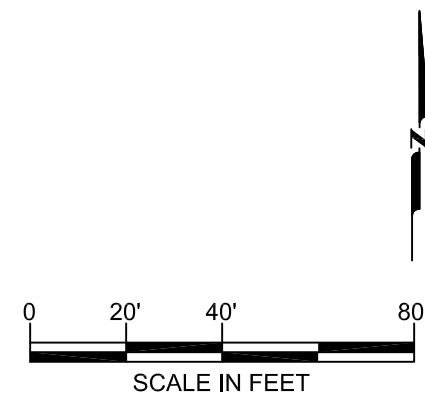
| | |
|--|-----------------------------|
| SITE PLAN | |
| Unocal #6129 (351639) 3420 35th Avenue Oakland, California | |
| SCALE: 1" = 40' | DATE: 06/28/2016 |
| | PROJECT NUMBER: 60509231 |

| |
|----------------------------|
| FIGURE NUMBER: 2 |
| SHEET NUMBER: 1 of 1 |

FILENAME: J:\Client-Projects\76_Products\351639_Oakland_3420_35th_Ave\7.0_Deliverables\7.2_CADD\2016_15A\351639-15A-16.dwg



- LEGEND**
- SUBJECT PROPERTY BOUNDARY
 - ⊕ MONITORING WELL
 - ⊖ FORMER EXXON SERVICE STATION MONITORING WELL
 - 1991 EXCAVATION BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - (#) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
 - 160.50 --- CONTOUR OF GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (DASHED WHERE INFERRED)
 - ← GROUNDWATER FLOW DIRECTION
 - HYDRAULIC GRADIENT = 0.014 FEET PER FOOT



| DESIGNED BY: | | DRAWN BY: | | CHECKED BY: | | APPROVED BY: | |
|--------------|--|-----------|--|-------------|--|--------------|--|
| X | | M. Scop | | X | | X | |

| REVISIONS | NO. | DESCRIPTION | DATE | BY |
|-----------|-----|-------------|------|----|
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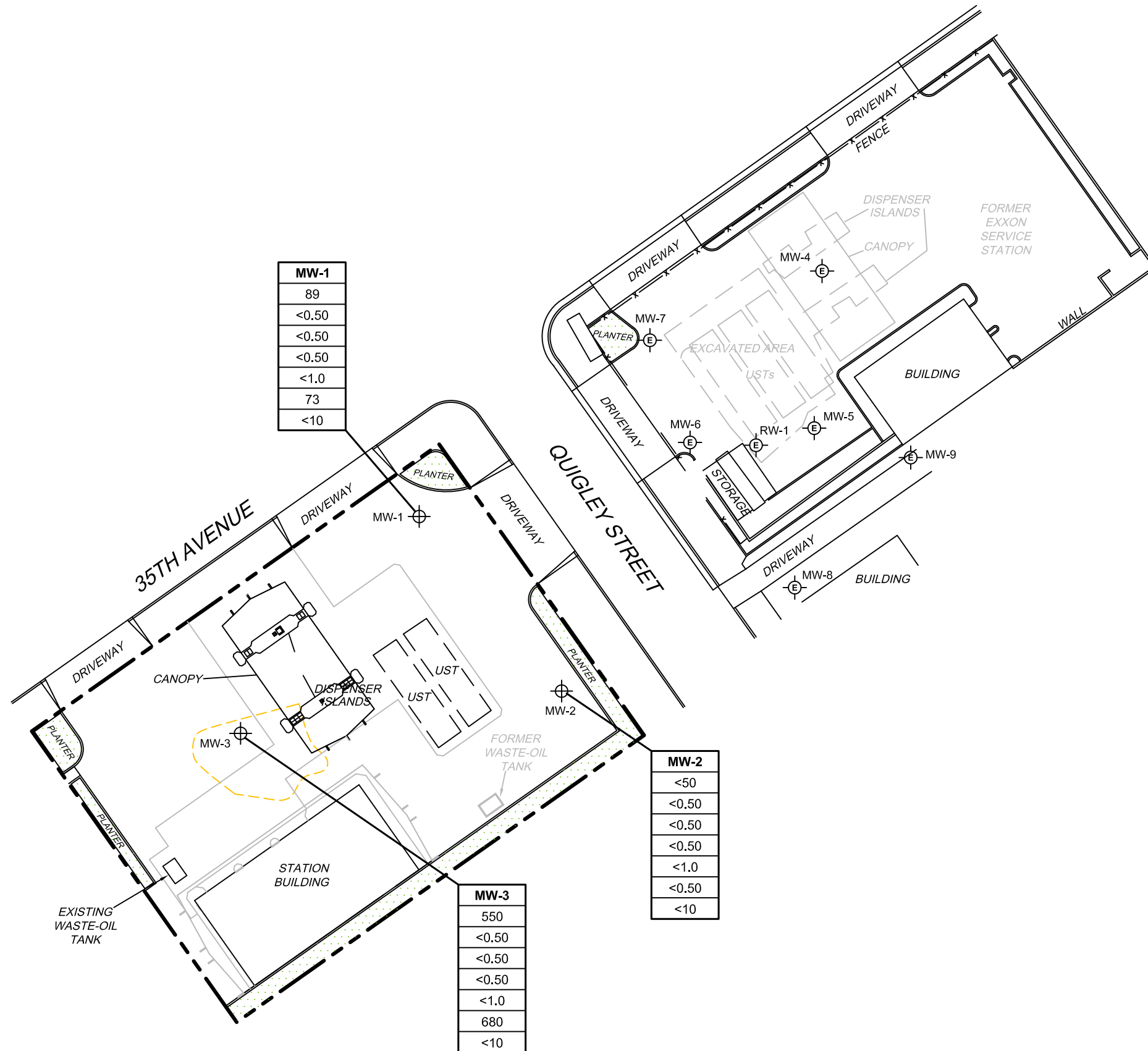
**FIRST SEMI-ANNUAL 2016
GROUNDWATER ELEVATION MAP**

Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

SCALE: 1" = 40'
DATE: 06/28/2016
PROJECT NUMBER: 60509231

FIGURE NUMBER:
3

SHEET NUMBER:
1 of 1



| MW-1 |
|-------|
| 89 |
| <0.50 |
| <0.50 |
| <0.50 |
| <1.0 |
| 73 |
| <10 |

| MW-2 |
|-------|
| <50 |
| <0.50 |
| <0.50 |
| <0.50 |
| <0.50 |
| <1.0 |
| <0.50 |
| <10 |

| MW-3 |
|-------|
| 550 |
| <0.50 |
| <0.50 |
| <0.50 |
| <1.0 |
| 680 |
| <10 |

LEGEND

- SUBJECT PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ⊕ FORMER EXXON SERVICE STATION MONITORING WELL
- - - 1991 EXCAVATION BOUNDARY
- UST UNDERGROUND STORAGE TANK

| Well ID |
|---------------|
| TPH-g |
| Benzene |
| Toluene |
| Ethylbenzene |
| Total Xylenes |
| MTBE |
| TBA |

ID = IDENTIFICATION
 TPH-g = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE; REPORTED AS TOTAL PURGEABLE PETROLEUM HYDROCARBONS BY THE LABORATORY
 MTBE = METHYL T-BUTYL ETHER
 TBA = T-BUTYL ALCOHOL
 <# = ANALYTE NOT DETECTED AT OR ABOVE INDICATED LABORATORY PRACTICAL QUANTITATION LIMIT
 ANALYTE RESULTS EXPRESSED IN MICROGRAMS PER LITER

| DESIGNED BY: | NO.: | DESCRIPTION: | DATE: | BY: |
|--------------|------|--------------|-------|-----|
| X | | | | |
| DRAWN BY: | | | | |
| M. Scop | | | | |
| CHECKED BY: | | | | |
| X | | | | |
| APPROVED BY: | | | | |
| X | | | | |

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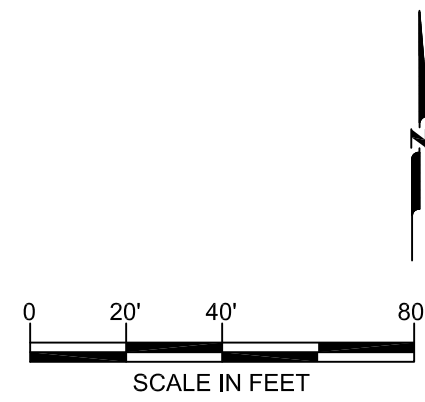
**FIRST SEM-ANNUAL 2016
 GROUNDWATER ANALYTICAL DATA MAP**

Unocal #6129 (351639)
 3420 35th Avenue
 Oakland, California

SCALE: 1" = 40'
 DATE: 06/28/2016
 PROJECT NUMBER: 60509231

FIGURE NUMBER:
4

SHEET NUMBER:
 1 of 1



ATTACHMENT C

TABLES

Table 1
Current Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|---------|--------------|-----------|-------------|--------------|----------------------------|-----------------|-------------|-------------|-------------|-------------|----------|
| MW-1 | 190.79 | 6/15/2016 | 29.64 | 161.15 | 0 | 89 | <0.50 | <0.50 | <0.50 | <1.0 | |
| MW-2 | 190.80 | 6/15/2016 | 29.35 | 161.45 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| MW-3 | 188.58 | 6/15/2016 | 28.64 | 159.94 | 0 | 550 | <0.50 | <0.50 | <0.50 | <1.0 | |
| QA | -- | 6/15/2016 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |

NOTES:

* TOC and GWE are in feet above mean sea level.

BTEX compounds analyzed by Environmental Protection Agency Method 8260B

TPH-g analyzed by Leaking underground fuel tank-gas chromatography/mass spectrometry (Luft-GC/MS) method

µg/L = Micrograms per liter

<# = Analyte not detected at or above indicated laboratory practical quantitation limit

-- = Not available

B = Benzene

DTW = Depth to water below TOC

E = Ethylbenzene

ft = Feet

GWE = Groundwater elevation

ID = Identification

LNAPL = Light non-aqueous phase liquid

QA = Quality assurance/trip blank

T = Toluene

TOC = Top of casing

TPH-g = Total petroleum hydrocarbons as gasoline; reported as total purgeable petroleum hydrocarbons by the laboratory

X = Total Xylenes

Table 2
Current Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|---------|-----------|----------------|---------------|-------------------|----------------|----------------|----------------|---------------|---------------|
| MW-1 | 6/15/2016 | 73 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-2 | 6/15/2016 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-3 | 6/15/2016 | 680 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| QA | 6/15/2016 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

NOTES:

Oxygenate compounds analyzed by Environmental Protection Agency Method 8260B

µg/L = Micrograms per liter

<# = Analyte not detected at or above indicated laboratory practical quantitation limit

ID = Identification

DIPE = Diisopropyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

ETBE = Ethyl t-butyl ether

MTBE = Methyl t-butyl ether

QA = Quality assurance/trip blank

TAME = T-amyl methyl ether

TBA = T-butyl alcohol

Table 3
Historical Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|------------------------|--------------|------------|-------------|--------------|----------------------------|-----------------|-------------|-------------|-------------|-------------|----------|
| MW-1 | 190.79 | 1/5/1990 | 32.80 | 157.99 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| screened | 190.79 | 5/11/1990 | 31.80 | 158.99 | -- | <30 | <0.30 | 7.1 | <0.30 | <0.30 | |
| 24 to 44 ft bgs | 190.79 | 8/9/1990 | 32.37 | 158.42 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 190.79 | 11/14/1990 | 33.32 | 157.47 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 190.79 | 2/12/1991 | 33.02 | 157.77 | -- | <30 | 0.32 | <0.30 | <0.30 | <0.30 | |
| | 190.79 | 5/9/1991 | 30.95 | 159.84 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 190.79 | 11/13/2003 | -- | -- | -- | 180 | <1.0 | <1.0 | <1.0 | <2.0 | |
| | 190.79 | 8/27/2004 | 30.65 | 160.14 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/23/2004 | 29.35 | 161.44 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 2/9/2005 | 26.89 | 163.90 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/17/2005 | 26.56 | 164.23 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 7/27/2005 | 27.33 | 163.46 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 12/6/2005 | 29.59 | 161.20 | 0 | <50 | <0.50 | 0.93 | <0.50 | 1.80 | |
| | 190.79 | 2/21/2006 | 28.27 | 162.52 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 6/8/2006 | 26.07 | 164.72 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 9/15/2006 | 28.86 | 161.93 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.79 | 12/14/2006 | 29.49 | 161.30 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.79 | 3/28/2007 | 27.24 | 163.55 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.79 | 6/25/2007 | 28.30 | 162.49 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.79 | 9/22/2007 | 30.61 | 160.18 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.79 | 12/14/2007 | 30.30 | 160.49 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 3/17/2008 | 27.22 | 163.57 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 6/20/2008 | 30.10 | 160.69 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 9/11/2008 | 31.04 | 159.75 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/25/2008 | 30.88 | 159.91 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 3/9/2009 | 27.50 | 163.29 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/28/2009 | 28.25 | 162.54 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 12/11/2009 | 30.60 | 160.19 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/7/2010 | 26.06 | 164.73 | 0 | 67 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/1/2010 | 30.18 | 160.61 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/27/2011 | 26.87 | 163.92 | 0 | 110 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/23/2011 | 29.14 | 161.65 | 0 | 1,101 | <0.50 | <0.50 | <0.50 | <1.0 | |

Table 3
Historical Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|------------------------|---------------|------------------|--------------|---------------|----------------------------|-----------------|-----------------|-----------------|-----------------|----------------|----------|
| | 190.79 | 5/24/2012 | 26.58 | 164.21 | 0 | 140 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 10/23/2012 | 30.51 | 160.28 | 0 | 130 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/2/2013 | 28.30 | 162.49 | 0 | 150 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/13/2013 | 31.65 | 159.14 | 0 | 240 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 5/12/2014 | 28.95 | 161.84 | 0 | 98 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 11/19/2014 | 31.50 | 159.29 | 0 | 130 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 6/17/2015 | 29.27 | 161.52 | 0 | 52 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 12/15/2015 | 31.76 | 159.03 | 0 | 60 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.79 | 6/15/2016 | 29.64 | 161.15 | 0 | 89 | <0.50 | <0.50 | <0.50 | <1.0 | |
| MW-2 | 190.80 | 1/5/1990 | 33.02 | 157.78 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| screened | 190.80 | 5/11/1990 | 31.98 | 158.82 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| 24 to 44 ft bgs | 190.80 | 8/9/1990 | 32.45 | 158.35 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 190.80 | 11/14/1990 | 33.47 | 157.33 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 190.80 | 2/12/1991 | 33.15 | 157.65 | -- | <30 | <0.30 | 0.42 | <0.30 | 0.51 | |
| | 190.80 | 5/9/1991 | 30.88 | 159.92 | -- | <30 | <0.30 | >0.30 | <0.30 | <0.30 | |
| | 190.80 | 11/13/2003 | -- | -- | -- | <2,000 | <20 | <20 | <20 | <40 | |
| | 190.80 | 8/27/2004 | 30.28 | 160.52 | 0 | 950 | <5.0 | <5.0 | <5.0 | <10 | |
| | 190.80 | 11/23/2004 | 28.75 | 162.05 | 0 | 53 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 2/9/2005 | 26.08 | 164.72 | 0 | <500 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 5/17/2005 | 24.53 | 166.27 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 7/27/2005 | 27.51 | 163.29 | 0 | <500 | <5.0 | <5.0 | <5.0 | <10 | |
| | 190.80 | 12/6/2005 | 29.13 | 161.67 | 0 | 340 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 2/21/2006 | 29.23 | 161.57 | 0 | 190 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 6/8/2006 | 25.76 | 165.04 | 0 | <500 | <5.0 | <5.0 | <5.0 | <10 | |
| | 190.80 | 9/15/2006 | 29.17 | 161.63 | 0 | <500 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 190.80 | 12/14/2006 | 29.11 | 161.69 | 0 | 520 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.80 | 3/28/2007 | 26.68 | 164.12 | 0 | 290 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.80 | 6/25/2007 | 25.91 | 164.89 | 0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.80 | 9/22/2007 | 30.18 | 160.62 | 0 | 400 | <0.50 | <0.50 | <0.50 | <0.50 | |
| | 190.80 | 12/14/2007 | 29.96 | 160.84 | 0 | 400 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 3/17/2008 | 26.74 | 164.06 | 0 | 570 | <5.0 | <5.0 | <5.0 | <10 | |

Table 3
Historical Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|------------------------|---------------|------------------|--------------|---------------|----------------------------|-----------------|-----------------|-----------------|-----------------|----------------|----------|
| | 190.80 | 6/20/2008 | 29.78 | 161.02 | 0 | 580 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 9/11/2008 | 30.62 | 160.18 | 0 | 220 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 11/25/2008 | 30.48 | 160.32 | 0 | 500 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 3/9/2009 | 25.75 | 165.05 | 0 | 910 | <5.0 | <5.0 | <5.0 | <10 | |
| | 190.80 | 5/28/2009 | 27.71 | 163.09 | 0 | 460 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 12/11/2009 | 29.80 | 161.00 | 0 | 640 | <5.0 | <5.0 | <5.0 | <10 | |
| | 190.80 | 5/7/2010 | 25.11 | 165.69 | 0 | 600 | <1.0 | <1.0 | <1.0 | <2.0 | |
| | 190.80 | 11/1/2010 | 29.90 | 160.90 | 0 | 140 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 5/27/2011 | 26.44 | 164.36 | 0 | 560 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 11/23/2011 | 28.53 | 162.27 | 0 | 830 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 5/24/2012 | 25.97 | 164.83 | 0 | 1,000 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 10/23/2012 | 30.14 | 160.66 | 0 | 750 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 5/2/2013 | 27.14 | 163.66 | 0 | 290 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 11/13/2013 | 31.37 | 159.43 | 0 | 1,200 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 5/12/2014 | 28.49 | 162.31 | 0 | 260 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 11/19/2014 | 31.46 | 159.34 | 0 | 430 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 6/17/2015 | 29.70 | 161.10 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 12/15/2015 | 31.71 | 159.09 | 0 | 680 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 190.80 | 6/15/2016 | 29.35 | 161.45 | 0 | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| MW-3 | 188.58 | 1/5/1990 | 31.88 | 156.70 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| screened | 188.58 | 5/11/1990 | 31.25 | 157.33 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| 23 to 43 ft bgs | 188.58 | 8/9/1990 | 31.53 | 157.05 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 188.58 | 11/14/1990 | 33.30 | 155.28 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 188.58 | 2/12/1991 | 32.05 | 156.53 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 188.58 | 5/9/1991 | 30.37 | 158.21 | -- | <30 | <0.30 | <0.30 | <0.30 | <0.30 | |
| | 188.58 | 11/13/2003 | -- | -- | -- | 2,600 | <20 | <20 | <20 | <40 | |
| | 188.58 | 8/27/2004 | 29.61 | 158.97 | 0 | 1,700 | <10 | <10 | <10 | <20 | |
| | 188.58 | 11/23/2004 | 28.48 | 160.10 | 0 | 1,500 | <10 | <10 | <10 | <20 | |
| | 188.58 | 2/9/2005 | 26.45 | 162.13 | 0 | <1,000 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 188.58 | 5/17/2005 | 25.61 | 162.97 | 0 | <1,000 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | 188.58 | 7/27/2005 | 27.35 | 161.23 | 0 | <1,000 | <10 | <10 | <10 | <20 | |

Table 3
Historical Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|---------------|--------------|------------------|--------------|---------------|----------------------------|-----------------|-----------------|-----------------|-----------------|----------------|----------|
| 188.58 | | 12/6/2005 | 28.78 | 159.80 | 0 | 430 | <0.50 | 1.6 | <0.50 | 3.6 | |
| 188.58 | | 2/21/2006 | 28.91 | 159.67 | 0 | 420 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 6/8/2006 | 25.97 | 162.61 | 0 | <1,200 | <12 | <12 | <12 | <25 | |
| 188.58 | | 9/15/2006 | 28.73 | 159.85 | 0 | <1,200 | <12 | <12 | <12 | <12 | |
| 188.58 | | 12/14/2006 | 28.62 | 159.96 | 0 | <1,000 | <10 | <10 | <10 | <10 | |
| 188.58 | | 3/28/2007 | 26.69 | 161.89 | 0 | 500 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 188.58 | | 6/25/2007 | 26.74 | 161.84 | 0 | 270 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 188.58 | | 9/22/2007 | 29.57 | 159.01 | 0 | 500 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 188.58 | | 12/14/2007 | 29.30 | 159.28 | 0 | 270 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 3/17/2008 | 26.82 | 161.76 | 0 | 220 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 6/20/2008 | 29.10 | 159.48 | 0 | 490 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 9/11/2008 | 29.89 | 158.69 | 0 | 630 | <5.0 | <5.0 | <5.0 | <10 | |
| 188.58 | | 11/25/2008 | 29.74 | 158.84 | 0 | 380 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 3/9/2009 | 25.56 | 163.02 | 0 | 310 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/28/2009 | 27.55 | 161.03 | 0 | 410 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 12/11/2009 | 29.10 | 159.48 | 0 | 220 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/7/2010 | 25.72 | 162.86 | 0 | 360 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 11/1/2010 | 29.29 | 159.29 | 0 | 120 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/27/2011 | 26.53 | 162.05 | 0 | 340 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/24/2012 | 25.95 | 162.63 | 0 | 660 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 10/23/2012 | 29.39 | 159.19 | 0 | 480 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/2/2013 | 26.98 | 161.60 | 0 | 130 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 11/13/2013 | 30.28 | 158.30 | 0 | 110 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 5/12/2014 | 27.93 | 160.65 | 0 | 98 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 11/19/2014 | 30.22 | 158.36 | 0 | 180 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 6/17/2015 | 28.75 | 159.83 | 0 | 220 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 12/15/2015 | 30.45 | 159.83 | 0 | 220 | <0.50 | <0.50 | <0.50 | <1.0 | |
| 188.58 | | 6/15/2016 | 28.64 | 159.94 | 0 | 550 | <0.50 | <0.50 | <0.50 | <1.0 | |
| QA | -- | 12/15/2015 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |
| | -- | 6/15/2016 | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <1.0 | |

Table 3
Historical Groundwater Monitoring Data and Analytical Results
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | TOC* (ft) | DATE | DTW (ft) | GWE* (ft) | LNAPL THICKNESS (ft) | TPH-g (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | COMMENTS |
|---------|--------------|------|-------------|--------------|----------------------------|-----------------|-------------|-------------|-------------|-------------|----------|
|---------|--------------|------|-------------|--------------|----------------------------|-----------------|-------------|-------------|-------------|-------------|----------|

NOTES:

* TOC and GWE are in feet above mean sea level.

µg/L = Micrograms per liter

<# = Analyte not detected at or above indicated laboratory practical quantitation limit

-- = Not available

B = Benzene

bgs = Below ground surface

DTW = Depth to water below TOC

E = Ethylbenzene

ft = Feet

GWE = Groundwater elevation

ID = Identification

LNAPL = Light Non-Aqueous Phase Liquid

QA = Quality assurance/trip blank

T = Toluene

TOC = Top of casing

TPH-g = Total petroleum hydrocarbons as gasoline; reported as total purgeable petroleum hydrocarbons by the laboratory

X = Total Xylenes

Table 4
Historical Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|-----------|------------|----------------|---------------|-------------------|----------------|----------------|----------------|---------------|---------------|
| MW-1 | 1/5/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/11/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/9/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2/12/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2003 | 240 | <200 | <1,000 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| | 8/27/2004 | <0.50 | <5.0 | <50 | <0.50 | <1.0 | <0.50 | <0.50 | <0.50 |
| | 11/23/2004 | <0.50 | <5.0 | <50 | <0.50 | <1.0 | <0.50 | <0.50 | <0.50 |
| | 2/9/2005 | 9.3 | <5.0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/17/2005 | 1.9 | <5.0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 7/27/2005 | <0.50 | <5.0 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/6/2005 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 2/21/2006 | 2.6 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/8/2006 | 11 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 9/15/2006 | 1.4 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/14/2006 | 3.5 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/28/2007 | 0.64 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/25/2007 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 9/22/2007 | 4.10 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/14/2007 | 0.65 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/17/2008 | 14 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/20/2008 | 11 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 9/11/2008 | 1.3 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/25/2008 | 5.8 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/9/2009 | 25 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/28/2009 | 17 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/11/2009 | 18 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 5/7/2010 | 64 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 11/1/2010 | 92 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 5/27/2011 | 220 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |

Table 4
Historical Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|-------------|------------------|----------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 11/23/2011 | 150 | 41 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/24/2012 | 190 | 66 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 10/23/2012 | 140 | 47 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/2/2013 | 270 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/13/2013 | 270 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/12/2014 | 170 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/19/2014 | 180 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/17/2015 | 100 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/15/2015 | 48 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/15/2016 | 73 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-2 | 1/5/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/11/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/9/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2/12/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2003 | 2,100 | <4,000 | <20,000 | <80 | <80 | <80 | <80 | <80 |
| | 8/27/2004 | 1,400 | <5.0 | <500 | <5.0 | 24 | <5.0 | <5.0 | <5.0 |
| | 11/23/2004 | 4.2 | <5.0 | <50 | <0.50 | 18 | <0.50 | <0.50 | <0.50 |
| | 2/9/2005 | 400 | <5.0 | <500 | <5.0 | 19 | <5.0 | <5.0 | <5.0 |
| | 5/17/2005 | 330 | <5.0 | <50 | <0.50 | 12 | <0.50 | <0.50 | <0.50 |
| | 7/27/2005 | 580 | 140 | <500 | <5.0 | 16 | <5.0 | <5.0 | <5.0 |
| | 12/6/2005 | 780 | 61 | <250 | <0.50 | 15 | <0.50 | <0.50 | <0.50 |
| | 2/21/2006 | 340 | <10 | <250 | <0.50 | 18 | <0.50 | <0.50 | <0.50 |
| | 6/8/2006 | 440 | <100 | <2,500 | <5.0 | 14 | <5.0 | <5.0 | <5.0 |
| | 9/15/2006 | 570 | <100 | <2,500 | <5.0 | 17 | <5.0 | <5.0 | <5.0 |
| | 12/14/2006 | 770 | 27 | <250 | <0.50 | 20 | <0.50 | <0.50 | <0.50 |
| | 3/28/2007 | 460 | 260 | <250 | <0.50 | 23 | <0.50 | <0.50 | <0.50 |
| | 6/25/2007 | 1.2 | <10 | <250 | <0.50 | 23 | <0.50 | <0.50 | <0.50 |
| | 9/22/2007 | 530 | <10 | <250 | <0.50 | 35 | <0.50 | <0.50 | <0.50 |

Table 4
Historical Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|-------------|------------------|-----------------|---------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | 12/14/2007 | 930 | 48 | <250 | <0.50 | 24 | <0.50 | <0.50 | <0.50 |
| | 3/17/2008 | 630 | <100 | <2,500 | <5.0 | 18 | <5.0 | <5.0 | <5.0 |
| | 6/20/2008 | 1,200 | <10 | <250 | <0.50 | 16 | <0.50 | <0.50 | <0.50 |
| | 9/11/2008 | 29 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/25/2008 | 1,500 | <10 | <250 | <0.50 | 19 | <0.50 | <0.50 | <0.50 |
| | 3/9/2009 | 1,400 | <100 | <2,500 | <5.0 | 15 | <5.0 | <5.0 | <5.0 |
| | 5/28/2009 | 740 | <10 | <250 | <0.50 | 20 | <0.50 | <0.50 | <0.50 |
| | 12/11/2009 | 1,300 | <100 | <2,500 | <5.0 | 19 | <5.0 | <5.0 | <5.0 |
| | 5/7/2010 | 940 | <20 | <500 | <1.0 | 14 | <1.0 | <1.0 | <1.0 |
| | 11/1/2010 | 730 | <10 | <250 | <0.50 | 28 | <0.50 | <0.50 | <0.50 |
| | 5/27/2011 | 1,100 | 210 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/23/2011 | 1,500 | 400 | <250 | <0.50 | 9.00 | <0.50 | <0.50 | <0.50 |
| | 5/24/2012 | 1,200 | 430 | <250 | <0.50 | 8.8 | <0.50 | <0.50 | <0.50 |
| | 10/23/2012 | 1,300 | 420 | <250 | <0.50 | 14 | <0.50 | <0.50 | <0.50 |
| | 5/2/2013 | 460 | <10 | <250 | 6.2 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/13/2013 | 1,300 | <10 | <250 | 17 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/12/2014 | 510 | 44 | <250 | 12 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/19/2014 | 980 | <10 | <250 | 31 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/17/2015 | 25 | <10 | <250 | 3.1 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/15/2015 | 1,300 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/15/2016 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-3 | 1/5/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/11/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 8/9/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/14/1990 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 2/12/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 5/9/1991 | -- | -- | -- | -- | -- | -- | -- | -- |
| | 11/13/2003 | 3,700 | <4,000 | <20,000 | <80 | <80 | <80 | <80 | <80 |
| | 8/27/2004 | 2,600 | <100 | <1,000 | <10 | <20 | <10 | <10 | <10 |
| | 11/23/2004 | 1,800 | <100 | <1,000 | <10 | <20 | <10 | <10 | <10 |

Table 4
Historical Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|----------------|------------------|------------------------|-----------------------|---------------------------|------------------------|------------------------|------------------------|-----------------------|-----------------------|
| | 2/9/2005 | 2,100 | 130 | <1,000 | <10 | <10 | <10 | <10 | <10 |
| | 5/17/2005 | 1,200 | <100 | <1,000 | <10 | <10 | <10 | <10 | <10 |
| | 7/27/2005 | 1,400 | 360 | <1,000 | <10 | <10 | <10 | <10 | <10 |
| | 12/6/2005 | 1,800 | 160 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 2/21/2006 | 1,100 | 88 | <250 | <0.50 | <0.50 | 0.58 | <0.50 | <0.50 |
| | 6/8/2006 | 1,000 | <250 | <6,200 | <12 | <12 | <12 | <12 | <12 |
| | 9/15/2006 | 1,200 | <250 | <6,200 | <12 | <12 | <12 | <12 | <12 |
| | 12/14/2006 | 1,300 | <200 | <5,000 | <10 | <10 | <10 | <10 | <10 |
| | 3/28/2007 | 860 | 500 | <500 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 6/25/2007 | 570 | 11 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | 0.65 |
| | 9/22/2007 | 980 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/14/2007 | 570 | 26 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/17/2008 | 520 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | 0.65 |
| | 6/20/2008 | 1,300 | 49 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 9/11/2008 | 1,200 | <100 | <2,500 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 11/25/2008 | 870 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/9/2009 | 720 | 15 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/28/2009 | 750 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/11/2009 | 620 | 63 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/7/2010 | 660 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/1/2010 | 490 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/27/2011 | 890 | 73 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/24/2012 | 1,100 | 300 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 10/23/2012 | 500 | 160 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/2/2013 | 220 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/13/2013 | 100 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/12/2014 | 160 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/19/2014 | 250 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/17/2015 | 570 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 12/15/2015 | 240 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/15/2016 | 680 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

Table 4
Historical Groundwater Analytical Results - Oxygenate Compounds
Unocal #6129 (351639)
3420 35th Avenue
Oakland, California

| WELL ID | DATE | MTBE (µg/L) | TBA (µg/L) | ETHANOL (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | EDB (µg/L) | EDC (µg/L) |
|---------|------------|----------------|---------------|-------------------|----------------|----------------|----------------|---------------|---------------|
| QA | 12/15/2015 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 6/15/2016 | <0.50 | <10 | <250 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

NOTES:

µg/L = Micrograms per liter

<# = Analyte not detected at or above indicated laboratory practical quantitation limit

-- = Not available/not sampled

DIPE = Diisopropyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

ETBE = Ethyl t-butyl ether

MTBE = Methyl t-butyl ether

QA = Quality assurance/trip blank

TAME = T-amyl methyl ether

TBA = T-butyl alcohol

ATTACHMENT D

HYDROGRAPHS

Chart 1 - Hydrograph for Well MW-1

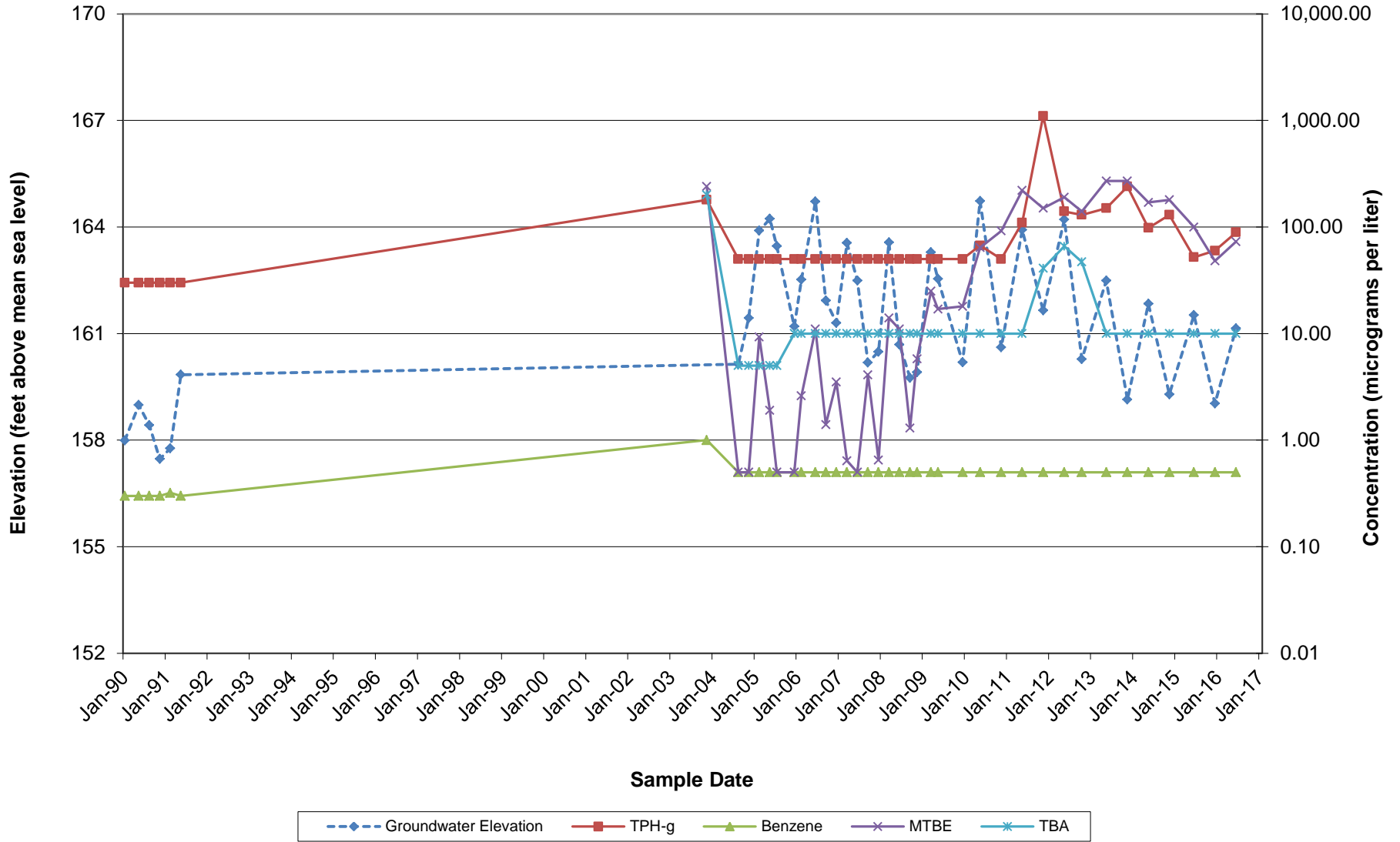


Chart 2 - Hydrograph for Well MW-2

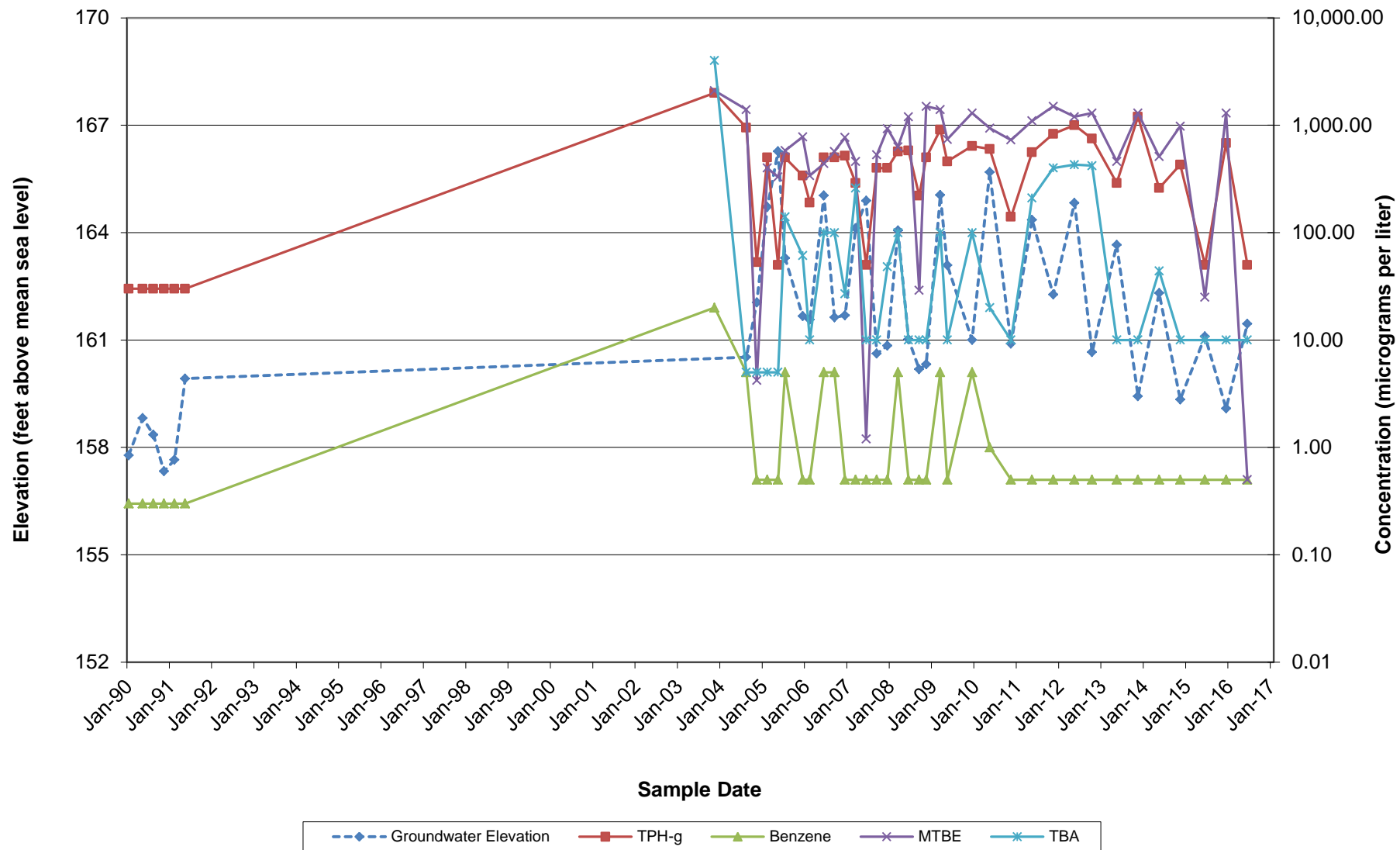
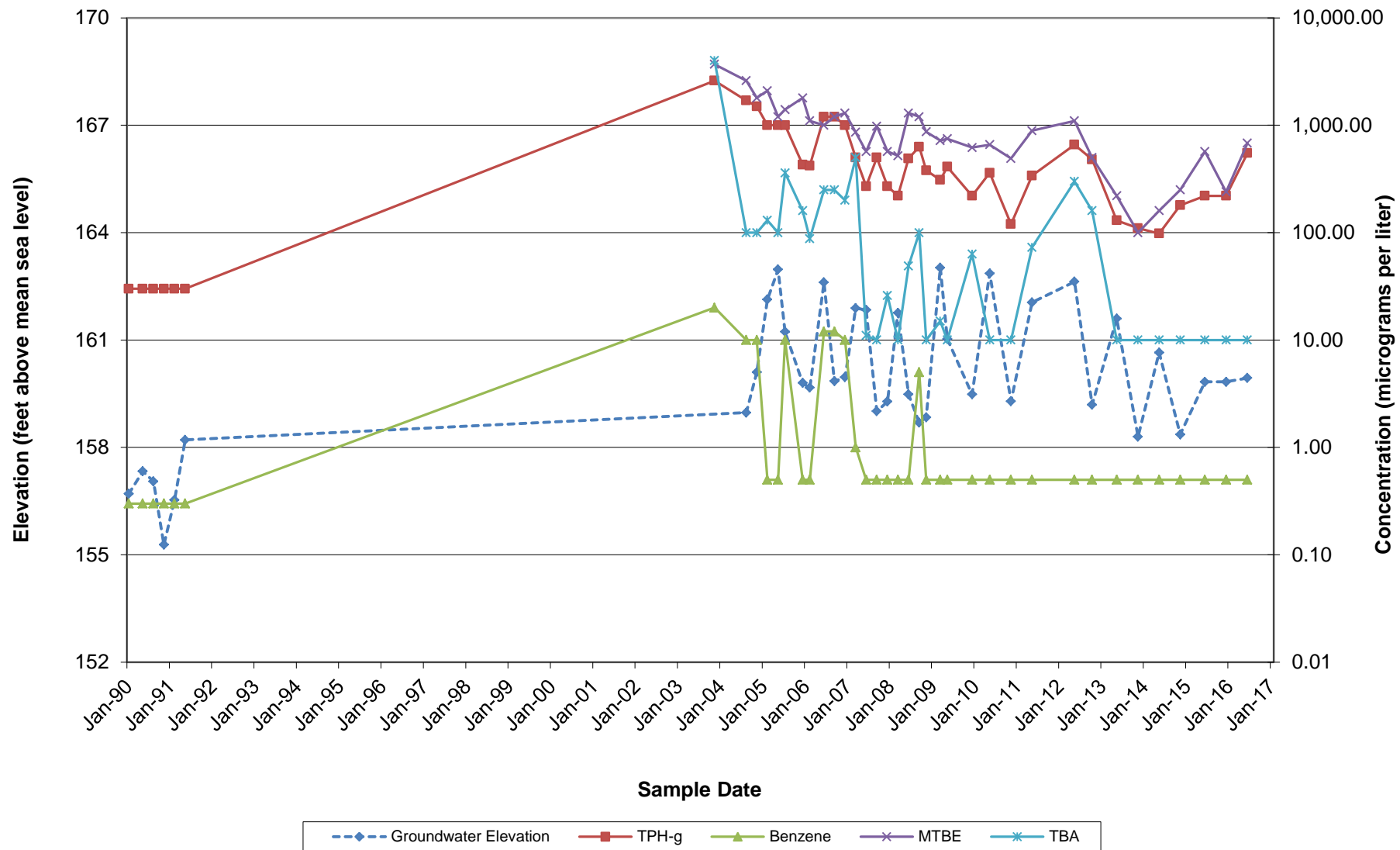


Chart 3 - Hydrograph for Well MW-3



ATTACHMENT E

**FIELD PROCEDURES AND
FIELD LOGS**



GETTLER-RYAN INC.



TRANSMITTAL

June 24, 2016
G-R #385640

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: **Chevron Facility**
#351639/6129
3420 35th Avenue
Oakland, California

WE HAVE ENCLOSED THE FOLLOWING:

| COPIES | DESCRIPTION |
|---------|--|
| VIA PDF | Groundwater Monitoring and Sampling Data Package First Semi-Annual Event of June 15, 2016 |

COMMENTS:

Pursuant to your request, we are providing you with copies 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/351639 6129

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 #351639 / 6129 Job Number: 385640
 Site Address: 3420 35Th Avenue Event Date: 6/15/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-1 Date Monitored: 6/15/16
 Well Diameter: 2 in.
 Total Depth: 43.27 ft.
 Depth to Water: 29.64 ft. Check if water column is less than 0.50 ft.
13.63 xVF .17 = 2.31 x3 case volume = Estimated Purge Volume: 6.95 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.36

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

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: _____ 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): 1035 Weather Conditions: Clear
 Sample Time/Date: 1105 / 6/15/16 Water Color: Clear Odor: Y / 0
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.90

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS/cm) | Temperature (°F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|----------------------|------------------|-----------------|-----------------|
| <u>1040</u> | <u>2</u> | <u>6.67</u> | <u>609</u> | <u>19.8</u> | PRE: <u>1.5</u> | PRE: <u>121</u> |
| <u>1045</u> | <u>4</u> | <u>6.65</u> | <u>617</u> | <u>19.9</u> | <u>1.6</u> | <u>130</u> |
| <u>1051</u> | <u>7</u> | <u>6.59</u> | <u>628</u> | <u>20.1</u> | <u>1.6</u> | <u>137</u> |
| | | | | | <u>1.7</u> | <u>152</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------|------------|---------------|----------------|---|
| <u>MW-1</u> | <u>3</u> x voa vial | <u>YES</u> | <u>HCL</u> | <u>BC LABS</u> | <u>TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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 #351639 / 6129 Job Number: 385640
 Site Address: 3420 35Th Avenue Event Date: 6/15/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-2 Date Monitored: 6/15/16
 Well Diameter: 2 in.
 Total Depth: 43.56 ft.
 Depth to Water: 29.35 ft. Check if water column is less than 0.50 ft.
14.21 xVF .17 = 2.41 x3 case volume = Estimated Purge Volume: 7.24 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 32.19

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

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: _____ 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): 0915 Weather Conditions: Clear
 Sample Time/Date: 0945 / 6/15/16 Water Color: Clear Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.17

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS / mS µmhos/cm) | Temperature (° F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|---------------------------------|-------------------|-----------------|-----------------|
| <u>0922</u> | <u>2.5</u> | <u>7.24</u> | <u>560</u> | <u>19.6</u> | PRE: <u>1.5</u> | PRE: <u>138</u> |
| <u>0929</u> | <u>5.0</u> | <u>7.40</u> | <u>571</u> | <u>19.8</u> | <u>1.6</u> | <u>145</u> |
| <u>0936</u> | <u>7.5</u> | <u>7.53</u> | <u>583</u> | <u>19.9</u> | <u>1.6</u> | <u>151</u> |
| | | | | | <u>1.7</u> | <u>163</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------|------------|---------------|----------------|---|
| <u>MW-2</u> | <u>3</u> x voa vial | <u>YES</u> | <u>HCL</u> | <u>BC LABS</u> | <u>TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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 #351639 / 6129 Job Number: 385640
 Site Address: 3420 35Th Avenue Event Date: 6/15/16 (inclusive)
 City: Oakland, CA Sampler: JH

Well ID: MW-3 Date Monitored: 6/15/16
 Well Diameter: 2 in.
 Total Depth: 39.44 ft.
 Depth to Water: 28.64 ft. Check if water column is less than 0.50 ft.
10.80 xVF 0.17 = 1.83 x3 case volume = Estimated Purge Volume: 5.50 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 30.80

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

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: _____ 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): 0955 Weather Conditions: Clean
 Sample Time/Date: 1025 / 6/15/16 Water Color: Clean Odor: Y 10
 Approx. Flow Rate: _____ gpm. Sediment Description: None
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 30.07

| Time (2400 hr.) | Volume (gal.) | pH | Conductivity (µS) mS (µmhos/cm) | Temperature (C / F) | D.O. (mg/L) | ORP (mV) |
|-----------------|---------------|-------------|---------------------------------|---------------------|-----------------|-----------------|
| <u>1000</u> | <u>2</u> | <u>7.52</u> | <u>816</u> | <u>19.7</u> | PRE: <u>1.7</u> | PRE: <u>107</u> |
| <u>1005</u> | <u>4</u> | <u>7.65</u> | <u>825</u> | <u>19.8</u> | <u>1.9</u> | <u>125</u> |
| <u>1010</u> | <u>5.5</u> | <u>7.78</u> | <u>831</u> | <u>19.9</u> | <u>1.9</u> | <u>136</u> |
| | | | | | <u>2.0</u> | <u>158</u> |

LABORATORY INFORMATION

| SAMPLE ID | (#) CONTAINER | REFRIG. | PRESERV. TYPE | LABORATORY | ANALYSES |
|-------------|---------------------|------------|---------------|----------------|---|
| <u>MW-3</u> | <u>3</u> x voa vial | <u>YES</u> | <u>HCL</u> | <u>BC LABS</u> | <u>TPH-GRO(8015)/BTEX+MTBE(8260)/8 OXYS(8260)</u> |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

COMMENTS: _____

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

ATTACHMENT F

**LABORATORY ANALYTICAL
REPORT AND CHAIN-OF-
CUSTODY DOCUMENTATION**



Date of Report: 06/28/2016

Tamera Rogers

Arcadis

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

Client Project: 351638
BCL Project: 7124
BCL Work Order: 1616578
Invoice ID: B239124

Enclosed are the results of analyses for samples received by the laboratory on 6/15/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 1616578

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 Containers None Comments: _____
Intact? Yes No Intact? Yes No

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

COC Received: YES NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 6-15-2015

Temperature: (A) 0.0 °C / (C) 0.1 °C Analyst Init: ARL

| SAMPLE CONTAINERS | SAMPLE NUMBERS | | | | | | | | | |
|--|----------------|-------|-------|-------|-------|---|---|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| QT PE UNPRES | | F | F | F | F | | | | | |
| 4oz / 8oz / 16oz PE UNPRES | | | | | | | | | | |
| 2oz Cr ⁶ | | | | | | | | | | |
| QT INORGANIC CHEMICAL METALS | | | | | | | | | | |
| INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz | | J | J | J | J | | | | | |
| PT CYANIDE | | | | | | | | | | |
| PT NITROGEN FORMS | | | | | | | | | | |
| PT TOTAL SULFIDE | | K | K | K | K | | | | | |
| 2oz. NITRATE / NITRITE | | | | | | | | | | |
| PT TOTAL ORGANIC CARBON | | M | M | M | M | | | | | |
| PT CHEMICAL OXYGEN DEMAND | | | | | | | | | | |
| PIA PHENOLICS | | | | | | | | | | |
| 40ml VOA VIAL TRAVEL BLANK | AB | | | | | | | | | |
| 40ml VOA VIAL | | ABC-F | ABC-F | ABC-F | ABC-F | | | | | |
| QT EPA 1664 | | | | | | | | | | |
| PT ODOR | | | | | | | | | | |
| RADIOLOGICAL | | | | | | | | | | |
| BACTERIOLOGICAL | | | | | | | | | | |
| 40 ml VOA VIAL- 504 <u>DBV</u> | | GH | GH | GH | GH | | | | | |
| 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 | | L | L | L | L | | | | | |
| ENCORE | | | | | | | | | | |
| SMART KIT | | | | | | | | | | |
| SUMMA CANISTER | | | | | | | | | | |

Comments: _____ Date/Time: 6-15-16 2325 Rev 21 05/23/2016

Sample Numbering Completed By: _____ [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMRECrev 20]

A = Actual / C = Corrected



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

Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |
|------------|---------------------------|
|------------|---------------------------|

| | | |
|-------------------|--|--|
| 1616578-01 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: QA-W-160615 Sampled By: GRD | Receive Date: 06/15/2016 22:10 Sampling Date: 06/15/2016 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): QA Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|---|
| 1616578-02 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-1-W-160615 Sampled By: GRD | Receive Date: 06/15/2016 22:10 Sampling Date: 06/15/2016 05:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|---|

| | | |
|-------------------|--|---|
| 1616578-03 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-2-W-160615 Sampled By: GRD | Receive Date: 06/15/2016 22:10 Sampling Date: 06/15/2016 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|---|

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Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Laboratory / Client Sample Cross Reference

| Laboratory | Client Sample Information |
|------------|---------------------------|
|------------|---------------------------|

| | | |
|-------------------|--|--|
| 1616578-04 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-3-W-160615 Sampled By: GRD | Receive Date: 06/15/2016 22:10 Sampling Date: 06/15/2016 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

| | | |
|-------------------|--|--|
| 1616578-05 | COC Number: --- Project Number: 7124 Sampling Location: --- Sampling Point: MW-4-W-160615 Sampled By: GRD | Receive Date: 06/15/2016 22:10 Sampling Date: 06/15/2016 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Metal Analysis: 2-Lab Filtered and Acidified past 15 minute holding time Delivery Work Order: Global ID: T0600173591 Location ID (FieldPoint): MW-4 Matrix: W Sample QC Type (SACode): CS Cooler ID: |
|-------------------|--|--|

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|--|
| BCL Sample ID: 1616578-01 | Client Sample Name: 7124, QA-W-160615, 6/15/2016 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 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 101 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 94.9 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 90.7 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/16/16 | 06/16/16 16:14 | IO1 | MS-V12 | 1 | BZF1102 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|--|
| BCL Sample ID: 1616578-01 | Client Sample Name: 7124, QA-W-160615, 6/15/2016 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) | 102 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/20/16 | 06/20/16 18:10 | AKM | GC-V9 | 1 | BZF1288 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-02 | Client Sample Name: 7124, MW-1-W-160615, 6/15/2016 5:50:00AM |
|----------------------------------|---|

| 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 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 98.7 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 98.2 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 91.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/16/16 | 06/16/16 19:12 | IO1 | MS-V12 | 1 | BZF1102 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-02 | Client Sample Name: 7124, MW-1-W-160615, 6/15/2016 5:50:00AM |
|----------------------------------|---|

| 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 | 06/20/16 | 06/20/16 18:31 | AKM | GC-V9 | 1 | BZF1288 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-02 | Client Sample Name: 7124, MW-1-W-160615, 6/15/2016 5:50:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|--------|-------|--------|-----|----------|---------|-----------|-------|
| Methane | 0.0016 | mg/L | 0.0010 | | RSK-175M | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/28/16 | 06/28/16 10:25 | JH2 | GC-V1 | 1 | BZF2287 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-02 | Client Sample Name: 7124, MW-1-W-160615, 6/15/2016 5:50:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 170 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | 40 | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 29 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | ND | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | ND | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/20/16 | 06/20/16 09:36 | RML | MET-1 | 1 | BZF1602 |
| 2 | EPA-300.0 | 06/16/16 | 06/16/16 13:41 | EMW | IC1 | 1 | BZF1398 |
| 3 | SM-3500-FeD | 06/16/16 | 06/16/16 17:13 | RCC | KONE-1 | 1 | BZF1629 |
| 4 | EPA-353.2 | 06/16/16 | 06/16/16 10:19 | RCC | KONE-1 | 1 | BZF1438 |
| 5 | SM-4500SD | 06/20/16 | 06/20/16 09:00 | DIW | SPEC06 | 1 | BZF1671 |
| 6 | EPA-415.1 | 06/16/16 | 06/17/16 08:40 | ALW | TOC2 | 1 | BZF1405 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-02 | Client Sample Name: 7124, MW-1-W-160615, 6/15/2016 5:50:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|---------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 2600 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 06/16/16 | 06/27/16 13:59 | JCC | PE-OP3 | 1 | BZF1452 |
| 2 | EPA-6010B | 06/20/16 | 06/21/16 18:49 | JRG | PE-OP2 | 1 | BZF1655 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-03 | Client Sample Name: 7124, MW-2-W-160615, 6/15/2016 6:30:00AM |
|----------------------------------|---|

| 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 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 106 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 94.2 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 95.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/16/16 | 06/16/16 19:30 | IO1 | MS-V12 | 1 | BZF1102 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-03 | Client Sample Name: 7124, MW-2-W-160615, 6/15/2016 6:30:00AM |
|----------------------------------|---|

| 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) | 102 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/20/16 | 06/20/16 18:52 | AKM | GC-V9 | 1 | BZF1288 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-03 | Client Sample Name: 7124, MW-2-W-160615, 6/15/2016 6:30:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|--------|-------|--------|-----|----------|---------|-----------|-------|
| Methane | 0.0020 | mg/L | 0.0010 | | RSK-175M | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/28/16 | 06/28/16 10:30 | JH2 | GC-V1 | 1 | BZF2287 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-03 | Client Sample Name: 7124, MW-2-W-160615, 6/15/2016 6:30:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 200 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | ND | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 36 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | 1000 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | ND | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/20/16 | 06/20/16 09:49 | RML | MET-1 | 1 | BZF1602 |
| 2 | EPA-300.0 | 06/16/16 | 06/16/16 13:58 | EMW | IC1 | 1 | BZF1398 |
| 3 | SM-3500-FeD | 06/16/16 | 06/16/16 17:13 | RCC | KONE-1 | 1 | BZF1629 |
| 4 | EPA-353.2 | 06/16/16 | 06/16/16 10:23 | RCC | KONE-1 | 1 | BZF1438 |
| 5 | SM-4500SD | 06/20/16 | 06/20/16 09:00 | DIW | SPEC06 | 1 | BZF1671 |
| 6 | EPA-415.1 | 06/16/16 | 06/17/16 08:55 | ALW | TOC2 | 1 | BZF1405 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-03 | Client Sample Name: 7124, MW-2-W-160615, 6/15/2016 6:30:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|-----------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 6700 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 06/16/16 | 06/27/16 14:01 | JCC | PE-OP3 | 1 | BZF1452 |
| 2 | EPA-6010B | 06/20/16 | 06/21/16 18:52 | JRG | PE-OP2 | 1 | BZF1655 |

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San Jose, CA 95119

Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-04 | Client Sample Name: 7124, MW-3-W-160615, 6/15/2016 7:15:00AM |
|----------------------------------|---|

| 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 | 0.96 | 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 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 100 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 92.4 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 98.8 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/16/16 | 06/16/16 19:47 | IO1 | MS-V12 | 1 | BZF1102 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-04 | Client Sample Name: 7124, MW-3-W-160615, 6/15/2016 7:15:00AM |
|----------------------------------|---|

| 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) | 96.1 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/20/16 | 06/20/16 19:33 | AKM | GC-V9 | 1 | BZF1288 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-04 | Client Sample Name: 7124, MW-3-W-160615, 6/15/2016 7:15:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|--------|-------|--------|-----|----------|---------|-----------|-------|
| Methane | 0.035 | mg/L | 0.0010 | | RSK-175M | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/28/16 | 06/28/16 10:34 | JH2 | GC-V1 | 1 | BZF2287 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-04 | Client Sample Name: 7124, MW-3-W-160615, 6/15/2016 7:15:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 280 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | ND | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 7.4 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | 1400 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.10 | | SM-4500SD | ND | | 5 |
| Non-Volatile Organic Carbon | 1.8 | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/20/16 | 06/20/16 09:55 | RML | MET-1 | 1 | BZF1602 |
| 2 | EPA-300.0 | 06/16/16 | 06/16/16 14:15 | EMW | IC1 | 1 | BZF1398 |
| 3 | SM-3500-FeD | 06/16/16 | 06/16/16 17:13 | RCC | KONE-1 | 1 | BZF1629 |
| 4 | EPA-353.2 | 06/16/16 | 06/16/16 10:23 | RCC | KONE-1 | 1 | BZF1438 |
| 5 | SM-4500SD | 06/20/16 | 06/20/16 09:00 | DIW | SPEC06 | 1 | BZF1671 |
| 6 | EPA-415.1 | 06/16/16 | 06/17/16 09:10 | ALW | TOC2 | 1 | BZF1405 |

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Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-04 | Client Sample Name: 7124, MW-3-W-160615, 6/15/2016 7:15:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|---------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 6000 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 06/16/16 | 06/27/16 14:02 | JCC | PE-OP3 | 1 | BZF1452 |
| 2 | EPA-6010B | 06/20/16 | 06/21/16 18:54 | JRG | PE-OP2 | 1 | BZF1655 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Volatile Organic Analysis (EPA Method 8260B)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-05 | Client Sample Name: 7124, MW-4-W-160615, 6/15/2016 8:00:00AM |
|----------------------------------|---|

| 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 |
| t-Amyl Methyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| t-Butyl alcohol | ND | ug/L | 10 | | EPA-8260B | ND | | 1 |
| Diisopropyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| Ethanol | ND | ug/L | 250 | | EPA-8260B | ND | | 1 |
| Ethyl t-butyl ether | ND | ug/L | 0.50 | | EPA-8260B | ND | | 1 |
| 1,2-Dichloroethane-d4 (Surrogate) | 103 | % | 75 - 125 (LCL - UCL) | | EPA-8260B | | | 1 |
| Toluene-d8 (Surrogate) | 96.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |
| 4-Bromofluorobenzene (Surrogate) | 91.3 | % | 80 - 120 (LCL - UCL) | | EPA-8260B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8260B | 06/16/16 | 06/17/16 12:45 | IO1 | MS-V12 | 1 | BZF1102 |

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Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Purgeable Aromatics and Total Petroleum Hydrocarbons

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-05 | Client Sample Name: 7124, MW-4-W-160615, 6/15/2016 8:00:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|--|--------|-------|----------------------|-----|-----------|---------|-----------|-------|
| Gasoline Range Organics (C6 - C12) | 92 | ug/L | 50 | | EPA-8015B | ND | | 1 |
| a,a,a-Trifluorotoluene (FID Surrogate) | 96.9 | % | 70 - 130 (LCL - UCL) | | EPA-8015B | | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-8015B | 06/20/16 | 06/20/16 19:12 | AKM | GC-V9 | 1 | BZF1288 |

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Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-05 | Client Sample Name: 7124, MW-4-W-160615, 6/15/2016 8:00:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-------------|--------|-------|--------|-----|----------|---------|-----------|-------|
| Methane | 0.0016 | mg/L | 0.0010 | | RSK-175M | ND | | 1 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|----------|-----------|----------------|---------|------------|----------|-------------|
| 1 | RSK-175M | 06/28/16 | 06/28/16 10:38 | JH2 | GC-V1 | 1 | BZF2287 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-05 | Client Sample Name: 7124, MW-4-W-160615, 6/15/2016 8:00:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|-----------------------------|--------|-------|------|-----|-------------|---------|-----------|-------|
| Total Alkalinity as CaCO3 | 250 | mg/L | 4.1 | | EPA-310.1 | ND | | 1 |
| Nitrate as NO3 | ND | mg/L | 0.44 | | EPA-300.0 | ND | | 2 |
| Sulfate | 26 | mg/L | 1.0 | | EPA-300.0 | ND | | 2 |
| Iron (II) Species | 1200 | ug/L | 100 | | SM-3500-FeD | ND | | 3 |
| Nitrite as NO2 | ND | mg/L | 0.17 | | EPA-353.2 | ND | | 4 |
| Total Sulfide | ND | mg/L | 0.50 | | SM-4500SD | ND | A07 | 5 |
| Non-Volatile Organic Carbon | 4.8 | mg/L | 1.0 | | EPA-415.1 | ND | | 6 |

| Run # | Method | Prep Date | Run Date/Time | Analyst | Instrument | Dilution | QC Batch ID |
|-------|-------------|-----------|----------------|---------|------------|----------|-------------|
| 1 | EPA-310.1 | 06/20/16 | 06/20/16 10:01 | RML | MET-1 | 1 | BZF1602 |
| 2 | EPA-300.0 | 06/16/16 | 06/16/16 14:32 | EMW | IC1 | 1 | BZF1398 |
| 3 | SM-3500-FeD | 06/16/16 | 06/16/16 17:13 | RCC | KONE-1 | 1 | BZF1629 |
| 4 | EPA-353.2 | 06/16/16 | 06/16/16 10:23 | RCC | KONE-1 | 1 | BZF1438 |
| 5 | SM-4500SD | 06/20/16 | 06/20/16 09:00 | DIW | SPEC06 | 5 | BZF1671 |
| 6 | EPA-415.1 | 06/16/16 | 06/17/16 09:24 | ALW | TOC2 | 1 | BZF1405 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Metals Analysis

| | |
|----------------------------------|---|
| BCL Sample ID: 1616578-05 | Client Sample Name: 7124, MW-4-W-160615, 6/15/2016 8:00:00AM |
|----------------------------------|---|

| Constituent | Result | Units | PQL | MDL | Method | MB Bias | Lab Quals | Run # |
|------------------------|-------------|-------------|-----------|-----|------------------|---------|-----------|----------|
| Dissolved Iron | ND | ug/L | 50 | | EPA-6010B | ND | | 1 |
| Total Manganese | 1800 | ug/L | 10 | | EPA-6010B | ND | | 2 |

| Run # | Method | Prep Date | Run | | Instrument | Dilution | QC |
|-------|-----------|-----------|----------------|---------|------------|----------|----------|
| | | | Date/Time | Analyst | | | Batch ID |
| 1 | EPA-6010B | 06/16/16 | 06/27/16 14:04 | JCC | PE-OP3 | 1 | BZF1452 |
| 2 | EPA-6010B | 06/20/16 | 06/21/16 18:57 | JRG | PE-OP2 | 1 | BZF1655 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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: BZF1102 | | | | | | |
| Benzene | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dibromoethane | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dichloroethane | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| Ethylbenzene | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| Methyl t-butyl ether | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| Toluene | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| Total Xylenes | BZF1102-BLK1 | ND | ug/L | 1.0 | | |
| t-Amyl Methyl ether | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| t-Butyl alcohol | BZF1102-BLK1 | ND | ug/L | 10 | | |
| Diisopropyl ether | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| Ethanol | BZF1102-BLK1 | ND | ug/L | 250 | | |
| Ethyl t-butyl ether | BZF1102-BLK1 | ND | ug/L | 0.50 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BZF1102-BLK1 | 105 | % | 75 - 125 (LCL - UCL) | | |
| Toluene-d8 (Surrogate) | BZF1102-BLK1 | 94.7 | % | 80 - 120 (LCL - UCL) | | |
| 4-Bromofluorobenzene (Surrogate) | BZF1102-BLK1 | 98.0 | % | 80 - 120 (LCL - UCL) | | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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 | | Lab |
|-----------------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZF1102 | | | | | | | | | | |
| Benzene | BZF1102-BS1 | LCS | 19.530 | 25.000 | ug/L | 78.1 | | 70 - 130 | | |
| Toluene | BZF1102-BS1 | LCS | 21.790 | 25.000 | ug/L | 87.2 | | 70 - 130 | | |
| 1,2-Dichloroethane-d4 (Surrogate) | BZF1102-BS1 | LCS | 11.100 | 10.000 | ug/L | 111 | | 75 - 125 | | |
| Toluene-d8 (Surrogate) | BZF1102-BS1 | LCS | 10.000 | 10.000 | ug/L | 100 | | 80 - 120 | | |
| 4-Bromofluorobenzene (Surrogate) | BZF1102-BS1 | LCS | 9.4400 | 10.000 | ug/L | 94.4 | | 80 - 120 | | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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 | Control Limits | | Lab Quals |
|-----------------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|-----|--------------|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZF1102 | | Used client sample: N | | | | | | | | |
| Benzene | MS | 1612122-94 | ND | 23.410 | 25.000 | ug/L | | 93.6 | | 70 - 130 |
| | MSD | 1612122-94 | ND | 22.040 | 25.000 | ug/L | 6.0 | 88.2 | 20 | 70 - 130 |
| Toluene | MS | 1612122-94 | ND | 25.580 | 25.000 | ug/L | | 102 | | 70 - 130 |
| | MSD | 1612122-94 | ND | 25.130 | 25.000 | ug/L | 1.8 | 101 | 20 | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surrogate) | MS | 1612122-94 | ND | 11.480 | 10.000 | ug/L | | 115 | | 75 - 125 |
| | MSD | 1612122-94 | ND | 11.110 | 10.000 | ug/L | 3.3 | 111 | | 75 - 125 |
| Toluene-d8 (Surrogate) | MS | 1612122-94 | ND | 9.9300 | 10.000 | ug/L | | 99.3 | | 80 - 120 |
| | MSD | 1612122-94 | ND | 9.6600 | 10.000 | ug/L | 2.8 | 96.6 | | 80 - 120 |
| 4-Bromofluorobenzene (Surrogate) | MS | 1612122-94 | ND | 9.6900 | 10.000 | ug/L | | 96.9 | | 80 - 120 |
| | MSD | 1612122-94 | ND | 9.8200 | 10.000 | ug/L | 1.3 | 98.2 | | 80 - 120 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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: BZF1288 | | | | | | |
| Gasoline Range Organics (C6 - C12) | BZF1288-BLK1 | ND | ug/L | 50 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BZF1288-BLK1 | 103 | % | 70 - 130 (LCL - UCL) | | |

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

Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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 | | Lab |
|--|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZF1288 | | | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | BZF1288-BS1 | LCS | 920.94 | 1000.0 | ug/L | 92.1 | | 85 - 115 | | |
| a,a,a-Trifluorotoluene (FID Surrogate) | BZF1288-BS1 | LCS | 42.163 | 40.000 | ug/L | 105 | | 70 - 130 | | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
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 | Control Limits | | Lab Quals |
|--|------|-----------------------|------------------|--------|----------------|-------|------|---------------------|---------------------|--------------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BZF1288 | | Used client sample: N | | | | | | | | |
| Gasoline Range Organics (C6 - C12) | MS | 1616196-01 | ND | 878.72 | 1000.0 | ug/L | | 87.9 | | 70 - 130 |
| | MSD | 1616196-01 | ND | 1061.9 | 1000.0 | ug/L | 18.9 | 106 | 20 | 70 - 130 |
| a,a,a-Trifluorotoluene (FID Surrogate) | MS | 1616196-01 | ND | 41.944 | 40.000 | ug/L | | 105 | | 70 - 130 |
| | MSD | 1616196-01 | ND | 40.163 | 40.000 | ug/L | 4.3 | 100 | | 70 - 130 |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|--------|-----|-----------|
| QC Batch ID: BZF2287 | | | | | | |
| Methane | BZF2287-BLK1 | ND | mg/L | 0.0010 | | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Gas Testing in Water

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|----------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZF2287 | | | | | | | | | | |
| Methane | BZF2287-BS1 | LCS | 0.011065 | 0.010843 | mg/L | 102 | | 80 - 120 | | |
| | BZF2287-BSD1 | LCSD | 0.011245 | 0.010843 | mg/L | 104 | 1.6 | 80 - 120 | 20 | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|------|-----|-----------|
| QC Batch ID: BZF1398 | | | | | | |
| Nitrate as NO3 | BZF1398-BLK1 | ND | mg/L | 0.44 | | |
| Sulfate | BZF1398-BLK1 | ND | mg/L | 1.0 | | |
| QC Batch ID: BZF1405 | | | | | | |
| Non-Volatile Organic Carbon | BZF1405-BLK1 | ND | mg/L | 1.0 | | |
| QC Batch ID: BZF1438 | | | | | | |
| Nitrite as NO2 | BZF1438-BLK1 | ND | mg/L | 0.17 | | |
| QC Batch ID: BZF1602 | | | | | | |
| Total Alkalinity as CaCO3 | BZF1602-BLK1 | ND | mg/L | 4.1 | | |
| QC Batch ID: BZF1629 | | | | | | |
| Iron (II) Species | BZF1629-BLK1 | ND | ug/L | 100 | | |
| QC Batch ID: BZF1671 | | | | | | |
| Total Sulfide | BZF1671-BLK1 | ND | mg/L | 0.10 | | |

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Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | Control Limits | | Lab |
|-----------------------------|--------------|------|---------|-------------|-------|------------------|----------------|------------------|-----|
| | | | | | | | RPD | Percent Recovery | |
| QC Batch ID: BZF1398 | | | | | | | | | |
| Nitrate as NO3 | BZF1398-BS1 | LCS | 21.103 | 22.134 | mg/L | 95.3 | | 90 - 110 | |
| Sulfate | BZF1398-BS1 | LCS | 95.047 | 100.00 | mg/L | 95.0 | | 90 - 110 | |
| QC Batch ID: BZF1405 | | | | | | | | | |
| Non-Volatile Organic Carbon | BZF1405-BS1 | LCS | 5.2740 | 5.0000 | mg/L | 105 | | 85 - 115 | |
| QC Batch ID: BZF1438 | | | | | | | | | |
| Nitrite as NO2 | BZF1438-BS1 | LCS | 1.6057 | 1.6425 | mg/L | 97.8 | | 90 - 110 | |
| QC Batch ID: BZF1602 | | | | | | | | | |
| Total Alkalinity as CaCO3 | BZF1602-BS3 | LCS | 106.04 | 100.00 | mg/L | 106 | | 90 - 110 | |
| QC Batch ID: BZF1629 | | | | | | | | | |
| Iron (II) Species | BZF1629-BS1 | LCS | 2627.3 | 2500.0 | ug/L | 105 | | 90 - 110 | |
| QC Batch ID: BZF1671 | | | | | | | | | |
| Total Sulfide | BZF1671-BS1 | LCS | 0.51378 | 0.50000 | mg/L | 103 | | 90 - 110 | |

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC batches BZF1398, BZF1405, BZF1438, BZF1602, BZF1629, and BZF1671.

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Reported: 06/28/2016 18:31
Project: 7124
Project Number: 351638
Project Manager: Tamera Rogers

Metals Analysis

Quality Control Report - Method Blank Analysis

| Constituent | QC Sample ID | MB Result | Units | PQL | MDL | Lab Quals |
|-----------------------------|--------------|-----------|-------|-----|-----|-----------|
| QC Batch ID: BZF1452 | | | | | | |
| Dissolved Iron | BZF1452-BLK1 | ND | ug/L | 50 | | |
| QC Batch ID: BZF1655 | | | | | | |
| Total Manganese | BZF1655-BLK1 | ND | ug/L | 10 | | |

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Project Manager: Tamera Rogers

Metals Analysis

Quality Control Report - Laboratory Control Sample

| Constituent | QC Sample ID | Type | Result | Spike Level | Units | Percent Recovery | RPD | Control Limits | | Lab |
|-----------------------------|--------------|------|--------|-------------|-------|------------------|-----|------------------|-----|-----|
| | | | | | | | | Percent Recovery | RPD | |
| QC Batch ID: BZF1452 | | | | | | | | | | |
| Dissolved Iron | BZF1452-BS1 | LCS | 1065.6 | 1000.0 | ug/L | 107 | | 85 - 115 | | |
| QC Batch ID: BZF1655 | | | | | | | | | | |
| Total Manganese | BZF1655-BS1 | LCS | 484.35 | 500.00 | ug/L | 96.9 | | 85 - 115 | | |

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Metals Analysis

Quality Control Report - Precision & Accuracy

| Constituent | Type | Source Sample ID | Source Result | Result | Spike Added | Units | RPD | Control Limits | | Lab Quals |
|-----------------------------|------|-----------------------|------------------|--------|----------------|-------|-----|---------------------|---------------------|--------------|
| | | | | | | | | Percent Recovery | Percent Recovery | |
| QC Batch ID: BZF1452 | | Used client sample: N | | | | | | | | |
| Dissolved Iron | DUP | 1616437-01 | ND | ND | | ug/L | | | 20 | |
| | MS | 1616437-01 | ND | 1004.8 | 1020.4 | ug/L | | 98.5 | | 75 - 125 |
| | MSD | 1616437-01 | ND | 1080.7 | 1020.4 | ug/L | 7.3 | 106 | 20 | 75 - 125 |
| QC Batch ID: BZF1655 | | Used client sample: N | | | | | | | | |
| Total Manganese | DUP | 1616577-02 | 1834.6 | 1792.0 | | ug/L | 2.4 | | 20 | |
| | MS | 1616577-02 | 1834.6 | 2215.8 | 500.00 | ug/L | | 76.2 | | 75 - 125 |
| | MSD | 1616577-02 | 1834.6 | 2298.8 | 500.00 | ug/L | 3.7 | 92.8 | 20 | 75 - 125 |

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Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.