

**ExxonMobil
Environmental Services Company**

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Jennifer C. Sedlachek
Project Manager

RECEIVED

2:53 pm, Jan 23, 2012

Alameda County
Environmental Health

ExxonMobil

January 16, 2012

Ms. Barbara Jakub
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Exxon RAS #70234/3450 35th Avenue, Oakland, California.

Dear Ms. Jakub:

Attached for your review and comment is a copy of the letter report entitled *Semi-Annual Groundwater Monitoring Report, Fourth Quarter 2011*, dated January 16, 2012, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details activities for the subject site.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,



Jennifer C. Sedlachek
Project Manager

Attachment: ERI's *Semi-Annual Groundwater Monitoring Report, Fourth Quarter 2011*, dated January 16, 2012

cc: w/ attachment
Mr. Shay Wideman, Valero Companies, Environmental Liability Management

w/o attachment
Ms. Janice A. Jacobson, Cardno ERI



January 16, 2012
Cardno ERI 247613.Q114

Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services
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SUBJECT **Semi-Annual Groundwater Monitoring Report, Fourth Quarter 2011**
Former Exxon Service Station 70234
3450 35th Avenue, Oakland, California

Alameda County RO#2515

INTRODUCTION

At the request of ExxonMobil Environmental Services (EMES), on behalf of Exxon Mobil Corporation, Cardno ERI performed fourth quarter 2011 groundwater monitoring and sampling activities at the subject site. Relevant plates, tables, and appendices are included at the end of this report. Currently, the site is vacant.

GROUNDWATER MONITORING AND SAMPLING SUMMARY

| | |
|-----------------------------------|--|
| Gauging and sampling date: | 11/23/11 |
| Wells gauged and sampled: | MW4 through MW9 |
| Presence of NAPL: | Not observed |
| Concurrently Sampled: | ConocoPhillips, 3420 35 th Avenue |
| Data Provided by: | Conestoga-Rovers & Associates (CRA) Emeryville, California |
| Laboratory: | Calscience Environmental Laboratories, Inc. Garden Grove, California |
| Analyses performed: | EPA 8015B TPHg EPA 8021B BTEX EPA 8260B MTBE, ETBE, TAME, TBA, EDB, 1,2-DCA, DIPE |

January 16, 2012

Cardno ERI 247613.Q114 Former Exxon Service Station 70234, Oakland, California

Waste disposal:

56 gallons of purge and decon water delivered to Instrat, Inc., of Rio Vista, California, on 12/01/11

CONCLUSIONS

Groundwater monitoring and sampling data are consistent with previous data collected from the site. The monitoring and sampling frequency at the adjacent ConocoPhillips site (3420 35th Avenue) and the subject site have been reduced to semi-annual, occurring during second and fourth quarters. Cardno ERI conducted concurrent sampling during fourth quarter 2011. Groundwater flow is towards the southwest.

LIMITATIONS

For any documents cited that were not generated by Cardno ERI, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno ERI does not guarantee the accuracy of this data and makes no warranties for the referenced work performed nor the inferences or conclusions stated in these documents.

This document was prepared in accordance with generally accepted standards of environmental, geological, and engineering practices in California at the time of investigation. No soil engineering or geotechnical references are implied or should be inferred. The evaluation of the geologic conditions at the site for this investigation is made from a limited number of data points. Subsurface conditions may vary away from these data points.

Please contact Ms. Janice A. Jacobson, Cardno ERI's project manager for this site, at janice.jacobson@cardno.com or at (707) 766-2000 with any questions regarding this report.

Sincerely,

SCANNED
IMAGE
Jennifer Lacy

Jennifer L. Lacy
Senior Staff Scientist
for Cardno ERI
707 766 2000
Email: jennifer.lacy@cardno.com

SCANNED
IMAGE
Heidi Dieffenbach-Carle

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January 16, 2012
Cardno ERI 247613.Q114 Former Exxon Service Station 70234, Oakland, California

Enclosures:

Acronym List

| | |
|------------|--|
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| Table 2 | Well Construction Details |
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| Appendix B | Groundwater Monitoring Data, ConocoPhillips, 3420 35th Avenue |
| Appendix C | Laboratory Analytical Report and Chain-of-Custody Record |
| Appendix D | Waste Disposal Documentation |
| Appendix E | Field Data Sheets |

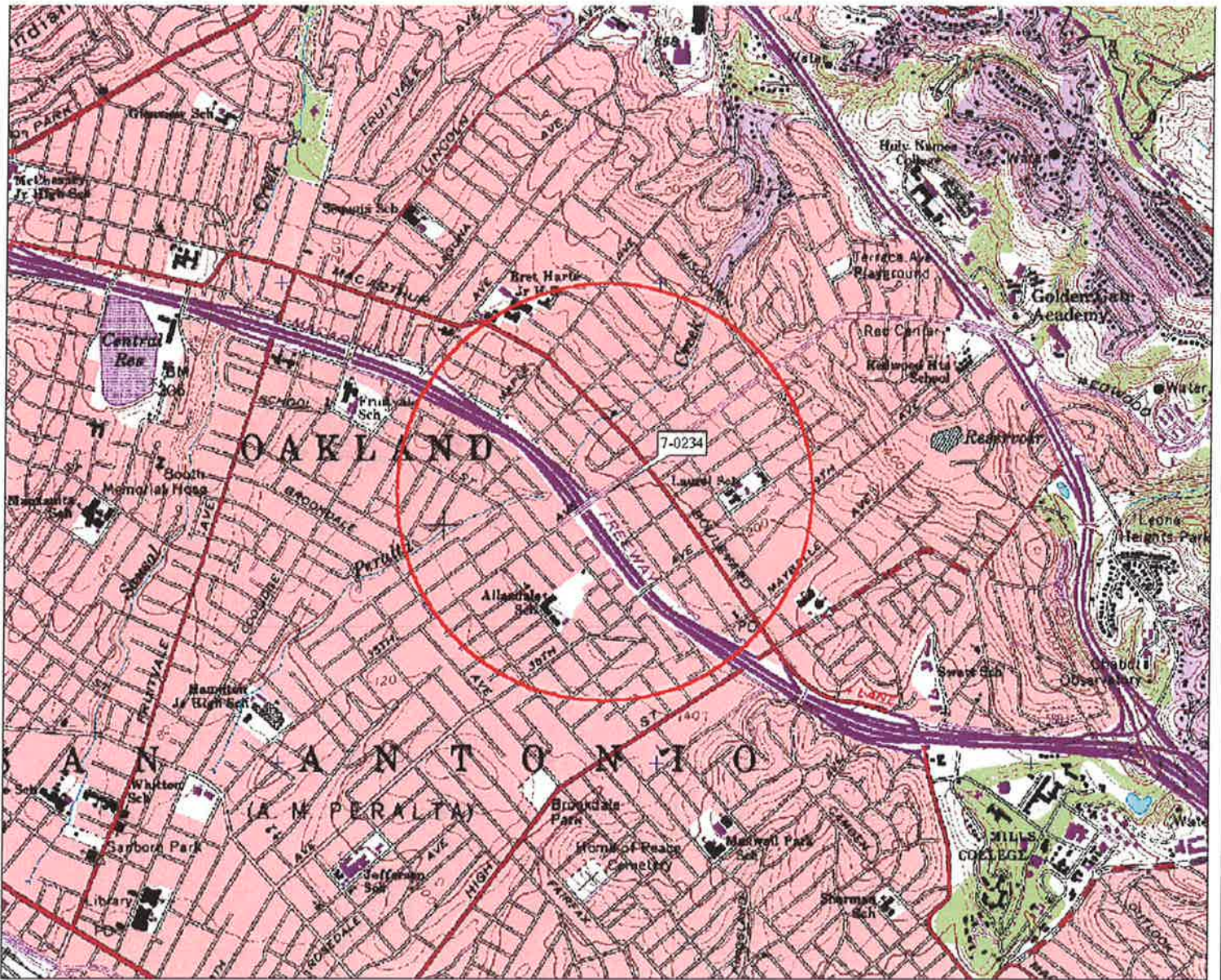
cc: Ms. Barbara Jakub, P.G., Alameda County Health Care Services Agency, Department of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577

Mr. Shay Wideman, The Valero Companies, Environmental Liability Management, P.O. Box 696000, San Antonio, Texas 78269

January 16, 2012
 Cardno ERI 247613.Q114 Former Exxon Service Station 70234, Oakland, California

ACRONYM LIST


| | | | |
|-------------------|---|-------|--|
| µg/L | Micrograms per liter | NEPA | National Environmental Policy Act |
| µs | Microsiemens | NGVD | National Geodetic Vertical Datum |
| 1,2-DCA | 1,2-dichloroethane | NPDES | National Pollutant Discharge Elimination System |
| acfm | Actual cubic feet per minute | O&M | Operations and Maintenance |
| AS | Air sparge | ORP | Oxidation-reduction potential |
| bgs | Below ground surface | OSHA | Occupational Safety and Health Administration |
| BTEX | Benzene, toluene, ethylbenzene, and total xylenes | OVA | Organic vapor analyzer |
| CEQA | California Environmental Quality Act | P&ID | Process & Instrumentation Diagram |
| cfm | Cubic feet per minute | PAH | Polycyclic aromatic hydrocarbon |
| COC | Chain of Custody | PCB | Polychlorinated biphenyl |
| CPT | Cone Penetration (Penetrometer) Test | PCE | Tetrachloroethene or perchloroethylene |
| DIPE | Di-isopropyl ether | PID | Photo-ionization detector |
| DO | Dissolved oxygen | PLC | Programmable logic control |
| DOT | Department of Transportation | POTW | Publicly owned treatment works |
| DPE | Dual-phase extraction | ppmv | Parts per million by volume |
| DTW | Depth to water | PQL | Practical quantitation limit |
| EDB | 1,2-dibromoethane | psi | Pounds per square inch |
| EPA | Environmental Protection Agency | PVC | Polyvinyl chloride |
| ESL | Environmental screening level | QA/QC | Quality assurance/quality control |
| ETBE | Ethyl tertiary butyl ether | RBSL | Risk-based screening levels |
| FID | Flame-ionization detector | RCRA | Resource Conservation and Recovery Act |
| fpm | Feet per minute | RL | Reporting limit |
| GAC | Granular activated carbon | scfm | Standard cubic feet per minute |
| gpd | Gallons per day | SSTL | Site-specific target level |
| gpm | Gallons per minute | STLC | Soluble threshold limit concentration |
| GWPTS | Groundwater pump and treat system | SVE | Soil vapor extraction |
| HVOC | Halogenated volatile organic compound | SVOC | Semivolatile organic compound |
| J | Estimated value between MDL and PQL (RL) | TAME | Tertiary amyl methyl ether |
| LEL | Lower explosive limit | TBA | Tertiary butyl alcohol |
| LPC | Liquid-phase carbon | TCE | Trichloroethene |
| LRP | Liquid-ring pump | TOC | Top of well casing elevation; datum is msl |
| LUFT | Leaking underground fuel tank | TOG | Total oil and grease |
| LUST | Leaking underground storage tank | TPHd | Total petroleum hydrocarbons as diesel |
| MCL | Maximum contaminant level | TPHg | Total petroleum hydrocarbons as gasoline |
| MDL | Method detection limit | TPHmo | Total petroleum hydrocarbons as motor oil |
| mg/kg | Milligrams per kilogram | TPHs | Total petroleum hydrocarbons as stoddard solvent |
| mg/L | Milligrams per liter | TRPH | Total recoverable petroleum hydrocarbons |
| mg/m ³ | Milligrams per cubic meter | UCL | Upper confidence level |
| MPE | Multi-phase extraction | USCS | Unified Soil Classification System |
| MRL | Method reporting limit | USGS | United States Geologic Survey |
| msl | Mean sea level | UST | Underground storage tank |
| MTBE | Methyl tertiary butyl ether | VCP | Voluntary Cleanup Program |
| MTCA | Model Toxics Control Act | VOC | Volatile organic compound |
| NAI | Natural attenuation indicators | VPC | Vapor-phase carbon |
| NAPL | Non-aqueous phase liquid | | |



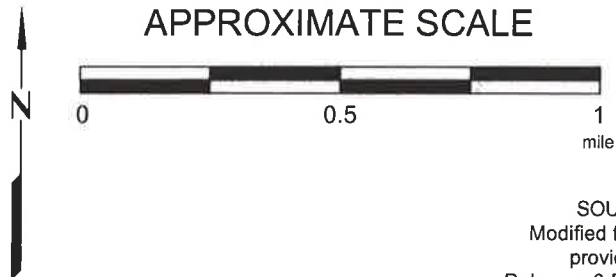
3-D TopoQuads Copyright © 1999 DeLorme Earthmate, Inc 0-6890 Source Data USGS 500 ft Scale 1 : 19,200 Datum: NAD 83 Datum: WGS 84

2476TOPO

EXPLANATION

 1/2-mile radius circle

APPROXIMATE SCALE



SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads



SITE VICINITY MAP
FORMER EXXON SERVICE STATION 70234
3450 35th Avenue
Oakland, California

PROJECT NO.

2476

PLATE

1

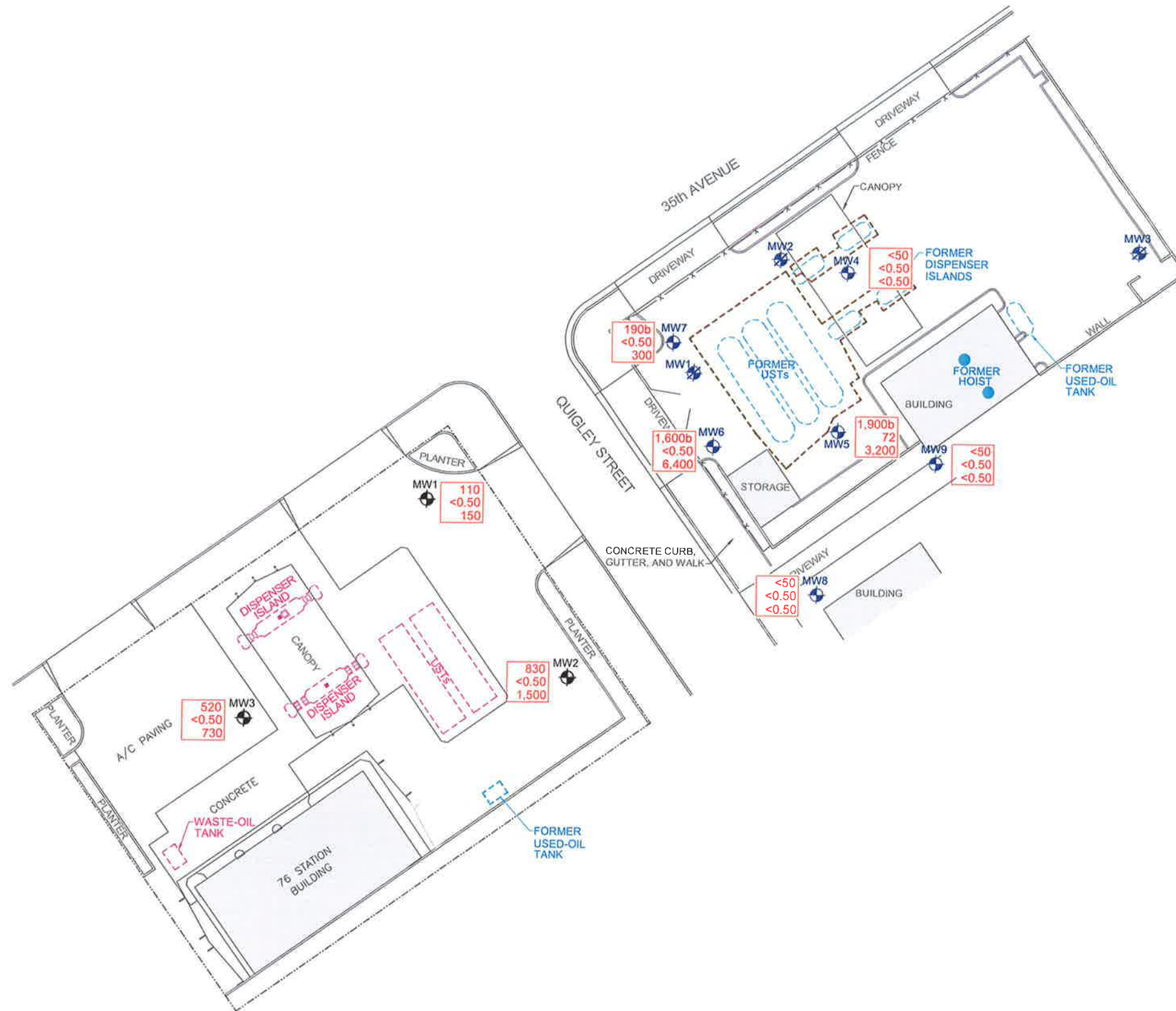
Analyte Concentrations in ug/L
 Sampled November 23, 2011

Total Petroleum Hydrocarbons
 as gasoline
 Benzene
 Methyl Tertiary Butyl Ether

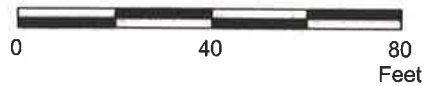
< Less Than the Stated Laboratory
 Reporting Limit

ug/L Micrograms per Liter

b Hydrocarbon pattern does not match
 the requested fuel.



APPROXIMATE SCALE



SOURCE: Modified
 from maps provided by
 MORROW SURVEING
 AND TRC

FN 2476 11 4QTR QM

SELECT ANALYTICAL RESULTS

November 23, 2011

FORMER
 EXXON SERVICE STATION 70234
 3450 35th Avenue
 Oakland, California

EXPLANATION

MW9
 Groundwater Monitoring Well

MW1
 Destroyed Groundwater Monitoring Well

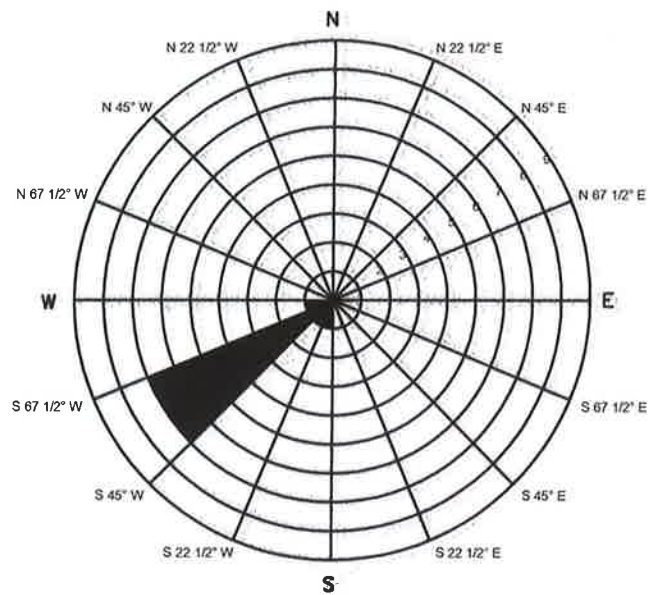
MW3
 Groundwater Monitoring Well By Others

Excavated Area

PROJECT NO.
 2476

PLATE
 2

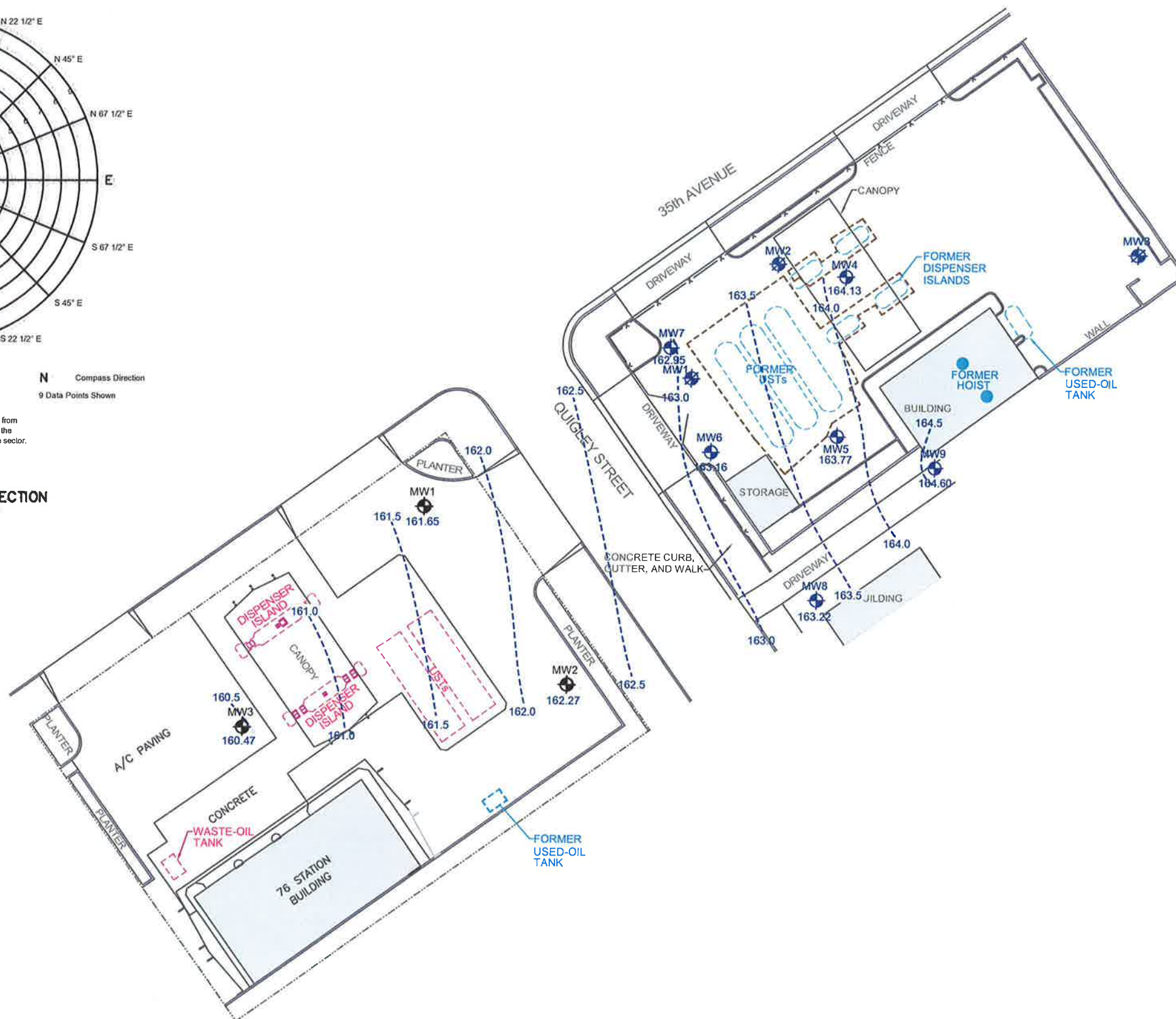




N Compass Direction
9 Data Points Shown

Rose diagram developed by evaluating the groundwater gradient direction from the quarterly monitoring data. Each circle on the rose diagram represents the number of monitoring events that the gradient plotted in that 22.5 degree sector. March 30, 2009 to November 23, 2011

GROUNDWATER FLOW DIRECTION ROSE DIAGRAM



APPROXIMATE SCALE



FN 2476 11 4QTR QM

SOURCE: Modified from maps provided by MORROW SURVEING AND TRC

GROUNDWATER ELEVATION MAP
November 23, 2011
FORMER EXXON SERVICE STATION 70234
3450 35th Avenue
Oakland, California

EXPLANATION

- MW9 Groundwater Monitoring Well
- 164.60 Groundwater elevation in feet; datum is mean sea level
- MW1 Destroyed Groundwater Monitoring Well

- MW3 Groundwater Monitoring Well By Others

164.5 - - - - Line of Equal Groundwater Elevation; datum is mean sea level

- Excavated Area

PROJECT NO.
2476

PLATE
3



TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | TOC Elev. (feet) | DTW (feet) | GW Elev. (feet) | NAPL (feet) | TPHg (µg/L) | MTBE (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | Total Pb (µg/L) | Organic Pb (mg/L) |
|--------------------------------|------------------------------|--------------|------------------|-----------------|-----------------|-------------|-------------|-------------|----------|----------|----------|----------|-----------------|-------------------|
| Monitoring Well Samples | | | | | | | | | | | | | | |
| MW1 | 07/15/92 | -- | -- | Well installed. | | | | | | | | | | |
| MW1 | 07/17/92 | -- | 192.00 | 33.02 | 158.98 | No | 67 | -- | 6.6 | 6.9 | 2.0 | 4.5 | 17 | -- |
| MW1 | 10/22/92 | -- | 192.00 | 34.07 | 157.93 | No | <50 | -- | 2.9 | <0.5 | <0.5 | <0.5 | 16 | -- |
| MW1 | 02/04/93 | -- | 192.00 | 29.43 | 162.57 | No | <50 | -- | 0.8 | <0.5 | <0.5 | <0.5 | 4 | -- |
| MW1 | 05/03/93 | -- | 192.00 | 29.72 | 162.28 | No | 71 | -- | 2.8 | 7.2 | 2.2 | 22 | 40 | -- |
| MW1 | 07/30/93 | -- | 192.00 | 32.95 | 159.05 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 5 | -- |
| MW1 | 10/19/93 | -- | 192.00 | 34.34 | 157.66 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 12 | -- |
| MW1 | 02/23/94 | -- | 192.00 | 31.72 | 160.28 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 4 | -- |
| MW1 | 06/06/94 | -- | 192.00 | 31.77 | 160.23 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW1 | 08/18/94 | -- | 192.00 | 33.76 | 158.24 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 130 | -- |
| MW1 | 11/15/94 | -- | 192.00 | 34.08 | 157.92 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | <100 |
| MW1 | 02/06/95 | -- | 192.00 | 28.50 | 163.50 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| MW1 | 05/10/95 | -- | 192.00 | 29.30 | 162.70 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| MW1 | 09/20/99 | -- | 192.00 | 33.30 | 158.70 | No | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <75 | <50 |
| MW1 | Well destroyed in June 2000. | | | | | | | | | | | | | |
| MW2 | 07/15/92 | -- | -- | Well installed. | | | | | | | | | | |
| MW2 | 07/17/92 | -- | 194.85 | 34.65 | 160.20 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW2 | 10/22/92 | -- | 194.85 | 35.64 | 159.21 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| MW2 | 02/04/93 | -- | 194.85 | 31.13 | 163.72 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW2 | 05/03/93 | -- | 194.85 | 31.08 | 163.77 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 3 | -- |
| MW2 | 07/30/93 | -- | 194.85 | 34.34 | 160.51 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 14 | -- |
| MW2 | 10/19/93 | -- | 194.85 | 36.00 | 158.85 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW2 | 02/23/94 | -- | 194.85 | 33.92 | 160.93 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW2 | 06/06/94 | -- | 194.85 | 33.50 | 161.35 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | -- |
| MW2 | 08/18/94 | -- | 194.85 | 35.38 | 159.47 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | -- |
| MW2 | 11/15/94 | -- | 194.85 | 35.93 | 158.92 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | <100 |
| MW2 | 02/06/95 | -- | 194.85 | 30.38 | 164.47 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| MW2 | 05/10/95 | -- | 194.85 | 30.77 | 164.08 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| MW2 | 09/20/99 | -- | 194.85 | 35.15 | 159.70 | No | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <75 | <0.5 |
| MW2 | Well destroyed in June 2000. | | | | | | | | | | | | | |
| MW3 | 07/15/92 | -- | -- | Well installed. | | | | | | | | | | |
| MW3 | 07/17/92 | -- | 196.90 | 37.24 | 159.66 | No | <50 | -- | <0.5 | <0.5 | <0.5 | <0.5 | 50 | -- |

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | TOC Elev. (feet) | DTW (feet) | GW Elev. (feet) | NAPL (feet) | TPHg (µg/L) | MTBE (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | Total Pb (µg/L) | Organic Pb (mg/L) | |
|------------|------------------------------|--------------|------------------|-----------------|-----------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|--|
| MW3 | 10/22/92 | --- | 196.90 | 35.95 | 160.95 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | 9 | --- | |
| MW3 | 02/04/93 | --- | 196.90 | 29.85 | 167.05 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | --- | |
| MW3 | 05/03/93 | --- | 196.90 | 29.87 | 167.03 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | 3 | --- | |
| MW3 | 07/30/93 | --- | 196.90 | 33.85 | 163.05 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | 22 | --- | |
| MW3 | 10/19/93 | --- | 196.90 | 35.89 | 161.01 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | 12 | --- | |
| MW3 | 02/23/94 | --- | 196.90 | 32.88 | 164.02 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | 25 | --- | |
| MW3 | 06/06/94 | --- | 196.90 | 32.40 | 164.50 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | <3 | --- | |
| MW3 | 08/18/94 | --- | 196.90 | 35.07 | 161.83 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | --- | |
| MW3 | 11/15/94 | --- | 196.90 | 35.97 | 160.93 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | --- | |
| MW3 | 02/06/95 | --- | 196.90 | 28.39 | 168.51 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | <3.0 | <100 | |
| MW3 | 05/10/95 | --- | 196.90 | 28.90 | 168.00 | No | <50 | --- | <0.5 | <0.5 | <0.5 | <0.5 | --- | --- | |
| MW3 | 09/20/99 | --- | 196.90 | 34.68 | 162.22 | No | 75.0 | 1.87 | <0.5 | 11.5 | 1.8 | 18.0 | <75 | <0.5 | |
| MW3 | Well destroyed in June 2000. | | | | | | | | | | | | | | |
| MW4 | 03/02/09 | --- | --- | Well installed. | | | | | | | | | | | |
| MW4 | 03/30/09 | --- | 197.62 | 30.94 | 166.68 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | |
| MW4 | 04/02/09 | --- | 197.62 | Well surveyed. | | | | | | | | | | | |
| MW4 | 05/28/09 | --- | 197.62 | 32.00 | 165.62 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | |
| MW4 | 08/31/09 | --- | 197.62 | 35.43 | 162.19 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- | |
| MW4 | 12/11/09 | --- | 197.62 | 35.01 | 162.61 | No | <50 | <0.50 | <0.50 | 0.83 | <0.50 | 1.1 | --- | --- | |
| MW4 | 05/07/10 | --- | 197.62 | 29.11 | 168.51 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- | |
| MW4 | 11/01/10 | --- | 197.62 | 34.95 | 162.67 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- | |
| MW4 | 05/27/11 d | --- | 197.62 | 30.65 | 166.97 | No | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW4 | 11/23/11 | --- | 197.62 | 33.49 | 164.13 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- | |
| MW5 | 03/06/09 | --- | --- | Well installed. | | | | | | | | | | | |
| MW5 | 03/30/09 | --- | 196.35 | 30.05 | 166.30 | No | 4,200 | 1,900 | 540 | 140 | <12 | 310 | --- | --- | |
| MW5 | 04/02/09 | --- | 196.35 | Well surveyed. | | | | | | | | | | | |
| MW5 | 05/28/09 | --- | 196.35 | 31.45 | 164.90 | No | 5,300 | 3,600 | 890 | 150 | <25 | 140 | --- | --- | |
| MW5 | 08/31/09 | --- | 196.35 | 34.70 | 161.65 | No | 5,800 | 3,500 | 550 | <100 | <100 | <100 | --- | --- | |
| MW5 | 12/11/09 | --- | 196.35 | 34.52 | 161.83 | No | 4,000b | 3,800 | 230 | <100 | <100 | <100 | --- | --- | |
| MW5 | 05/07/10 | --- | 196.35 | 30.84 | 165.51 | No | 2,700b | 1,700 | 73 | 5.3 | 3.6 | 6.5 | --- | --- | |
| MW5 | 11/01/10 | --- | 196.35 | 33.93 | 162.42 | No | 2,400b | 3,400 | 320 | 71 | 21 | 40 | --- | --- | |
| MW5 | 05/27/11 d | --- | 196.35 | 31.65 | 164.70 | No | --- | --- | --- | --- | --- | --- | --- | --- | |
| MW5 | 11/23/11 | --- | 196.35 | 32.58 | 163.77 | No | 1,900b | 3,200 | 72 | 2.7 | 3.1 | 8.1 | --- | --- | |
| MW6 | 03/09/09 | --- | --- | Well installed. | | | | | | | | | | | |

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | TOC Elev. (feet) | DTW (feet) | GW Elev. (feet) | NAPL (feet) | TPHg (µg/L) | MTBE (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | Total Pb (µg/L) | Organic Pb (mg/L) |
|------------|-----------------|--------------|------------------|-----------------|-----------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|
| MW6 | 03/30/09 | --- | 192.41 | 26.94 | 165.47 | No | 2,800 | 4,800 | 0.91 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW6 | 04/02/09 | --- | 192.41 | Well surveyed. | | | | | | | | | --- | --- |
| MW6 | 05/28/09 | --- | 192.41 | 28.04 | 164.37 | No | 2,800 | 6,000 | <100 | <100 | <100 | <100 | --- | --- |
| MW6 | 08/31/09 | --- | 192.41 | 30.57 | 161.84 | No | 4,900 | 6,600 | <100 | <100 | <100 | <100 | --- | --- |
| MW6 | 12/11/09 | --- | 192.41 | 30.78 | 161.63 | No | 4,900b | 6,200 | <100 | <100 | <100 | <100 | --- | --- |
| MW6 | 05/07/10 | --- | 192.41 | 25.42 | 166.99 | No | 2,900b | 3,700 | 2.7 | <0.50 | 0.74c | <1.0 | --- | --- |
| MW6 | 11/01/10 | --- | 192.41 | 30.68 | 161.73 | No | 850b | 6,100 | 2.1 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW6 | 05/27/11 d | --- | 192.41 | 27.07 | 165.34 | No | --- | --- | --- | --- | --- | --- | --- | --- |
| MW6 | 11/23/11 | --- | 192.41 | 29.25 | 163.16 | No | 1,600b | 6,400 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW7 | 03/09/09 | --- | --- | Well installed. | | | | | | | | | --- | --- |
| MW7 | 03/30/09 | --- | 194.34 | 29.15 | 165.19 | No | 55 | 66 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW7 | 04/02/09 | --- | 194.34 | Well surveyed. | | | | | | | | | --- | --- |
| MW7 | 05/28/09 | --- | 194.34 | 30.16 | 164.18 | No | 50 | 67 | <1.0 | <1.0 | <1.0 | <1.0 | --- | --- |
| MW7 | 08/31/09 | --- | 194.34 | 33.31 | 161.03 | No | <50 | 12 | <0.50 | 0.60 | <0.50 | <0.50 | --- | --- |
| MW7 | 12/11/09 | --- | 194.34 | 32.71 | 161.63 | No | <50 | 31 | 0.78 | 1.7 | 0.62 | 2.4 | --- | --- |
| MW7 | 05/07/10 | --- | 194.34 | 27.54 | 166.80 | No | 510b | 700 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW7 | 11/01/10 | --- | 194.34 | 32.82 | 161.52 | No | 68b | 140 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW7 | 05/27/11 d | --- | 194.34 | 28.85 | 165.49 | No | --- | --- | --- | --- | --- | --- | --- | --- |
| MW7 | 11/23/11 | --- | 194.34 | 31.39 | 162.95 | No | 190b | 300 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW8 | 03/04/09 | --- | --- | Well installed. | | | | | | | | | --- | --- |
| MW8 | 03/30/09 | --- | 192.96 | 27.35 | 165.61 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW8 | 04/02/09 | --- | 192.96 | Well surveyed. | | | | | | | | | --- | --- |
| MW8 | 05/28/09 | --- | 192.96 | 28.72 | 164.24 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW8 | 08/31/09 | --- | 192.96 | 31.93 | 161.03 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW8 | 12/11/09 | --- | 192.96 | 31.24 | 161.72 | No | <50 | <0.50 | 0.74 | 1.6 | 0.59 | 2.3 | --- | --- |
| MW8 | 05/07/10 | --- | 192.96 | 25.68 | 167.28 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW8 | 11/01/10 | --- | 192.96 | 31.18 | 161.78 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW8 | 05/27/11 | --- | 192.96 | 27.55 | 165.41 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW8 | 11/23/11 | --- | 192.96 | 29.74 | 163.22 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW9 | 03/05/09 | --- | --- | Well installed. | | | | | | | | | --- | --- |
| MW9 | 03/30/09 | --- | 195.16 | 28.31 | 166.85 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW9 | 04/02/09 | --- | 195.16 | Well surveyed. | | | | | | | | | --- | --- |
| MW9 | 05/28/09 | --- | 195.16 | 29.69 | 165.47 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| MW9 | 08/31/09 | --- | 195.16 | 33.20 | 161.96 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | TOC Elev. (feet) | DTW (feet) | GW Elev. (feet) | NAPL (feet) | TPHg (µg/L) | MTBE (µg/L) | B (µg/L) | T (µg/L) | E (µg/L) | X (µg/L) | Total Pb (µg/L) | Organic Pb (mg/L) |
|---------------------------------|-----------------|--------------|------------------|--------------|-----------------|-------------|---------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|
| MW9 | 12/11/09 | --- | 195.16 | 32.62 | 162.54 | No | <50 | <0.50 | 0.73 | 1.7 | 0.54 | 2.2 | --- | --- |
| MW9 | 05/07/10 | --- | 195.16 | 26.59 | 168.57 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW9 | 11/01/10 | --- | 195.16 | 32.45 | 162.71 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW9 | 05/27/11 | --- | 195.16 | 29.62 | 165.54 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| MW9 | 11/23/11 | --- | 195.16 | 30.56 | 164.60 | No | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| Grab Groundwater Samples | | | | | | | | | | | | | | |
| Pit Water | 06/14/02 | 11.5a | --- | --- | --- | --- | 5,600 | 12,000 | 140 | 840 | 100 | 530 | --- | --- |
| UST Pit | 06/19/02 | 13.5a | --- | --- | --- | --- | 680 | 640 | 2.7 | 36 | 18 | 130 | --- | --- |
| W-38-B11 | 11/14/07 | 38 | --- | --- | --- | --- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| W-15-B12 | 11/13/07 | 15 | --- | --- | --- | --- | 8,400 | 78 | 67 | <5.0 | 140 | 150 | --- | --- |
| W-40-B13 | 11/12/07 | 40 | --- | --- | --- | --- | <50 | 0.53 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| W-15-B14 | 11/13/07 | 15 | --- | --- | --- | --- | 2,500 | 16 | 1.7 | 3.0 | 26 | 13 | --- | --- |
| W-38-B15 | 11/15/07 | 38 | --- | --- | --- | --- | 18,000 | 12,000 | 3,400 | 2,500 | 330 | 2,000 | --- | --- |
| W-40-B16 | 11/15/07 | 40 | --- | --- | --- | --- | <50 | 7.7 | <0.50 | <0.50 | <0.50 | <0.50 | --- | --- |
| W-37-B17 | 11/13/07 | 37 | --- | --- | --- | --- | 630 | 2,200 | 1.8 | <0.50 | 4.1 | 1.4 | --- | --- |
| W-38-B18 | 11/12/07 | 38 | --- | --- | --- | --- | 4,300 | 1,400 | 52 | <12 | 56 | 96 | --- | --- |
| W-35-B19 | 03/03/09 | 35 | --- | --- | --- | --- | 4,400 | 7,100 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| W-35-B20 | 03/03/09 | 35 | --- | --- | --- | --- | 640 | 440 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |
| W-35-B21 | 03/03/09 | 35 | --- | --- | --- | --- | <50 | 1.4 | <0.50 | <0.50 | <0.50 | <1.0 | --- | --- |

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 70234
 3450 35th Avenue
 Oakland, California

| | | |
|------------|---|---|
| Notes: | = | Data prior to 1999 provided by EA Environmental Science and Engineering in previously submitted reports. |
| TOC Elev. | = | Top of well casing elevation; datum is mean sea level. |
| DTW | = | Depth to water. |
| GW Elev. | = | Groundwater elevation; datum is mean sea level. |
| NAPL | = | Non-aqueous phase liquid. |
| TPHg | = | Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015. |
| MTBE | = | Methyl tertiary butyl ether analyzed using EPA Method 8260. |
| BTEX | = | Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B8020/8021B; during March 2009, analyzed using EPA Method 8020/8021B. |
| Total Pb | = | Total lead analyzed using EPA Method 6010. |
| Organic Pb | = | Organic lead analyzed using CA DHS LUFT method. |
| EDB | = | 1,2-dibromoethane analyzed using EPA Method 8260B. |
| 1,2-DCA | = | 1,2-dichloroethane analyzed using EPA Method 8260B. |
| TAME | = | Tertiary amyl methyl ether analyzed using EPA Method 8260B. |
| TBA | = | Tertiary butyl alcohol analyzed using EPA Method 8260B. |
| ETBE | = | Ethyl tertiary butyl ether analyzed using EPA Method 8260B. |
| DIPE | = | Di-isopropyl ether analyzed using EPA Method 8260B. |
| Ethanol | = | Ethanol analyzed using EPA Method 8260B. |
| µg/L | = | Micrograms per liter. |
| mg/L | = | Milligrams per liter. |
| < | = | Less than the stated laboratory reporting limit. |
| — | = | Not sampled/Not analyzed/Not measured/Not applicable. |
| a | = | Approximate depth to groundwater surface at time of sampling. |
| b | = | Hydrocarbon pattern does not match the requested fuel. |
| c | = | Analyte presence was not confirmed by second column or GC/MS analysis. |
| d | = | Well inaccessible for sampling. |

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | EDB (µg/L) | 1,2-DCA (µg/L) | TAME (µg/L) | TBA (µg/L) | ETBE (µg/L) | DIPE (µg/L) | Ethanol (µg/L) |
|--------------------------------|------------------------------|--------------|----------------------------------|-----------------|-----------------|----------------|-----------------|-----------------|----------------|
| Monitoring Well Samples | | | | | | | | | |
| MW1 | 07/17/92 - 09/20/99 | -- | Not analyzed for these analytes. | | | | | | |
| MW1 | Well destroyed in June 2000. | -- | | | | | | | |
| MW2 | 07/17/92 - 09/20/99 | -- | Not analyzed for these analytes. | | | | | | |
| MW2 | Well destroyed in June 2000. | -- | | | | | | | |
| MW3 | 07/17/92 - 09/20/99 | -- | Not analyzed for these analytes. | | | | | | |
| MW3 | Well destroyed in June 2000. | -- | | | | | | | |
| MW4 | 03/30/09 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 05/28/09 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 08/31/09 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 12/11/09 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 05/07/10 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 11/01/10 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW4 | 05/27/11 d | -- | -- | -- | -- | -- | <0.50 | <0.50 | -- |
| MW4 | 11/23/11 | -- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | -- |
| MW5 | 03/30/09 | -- | <12 | 17 | <12 | 450 | <12 | <12 | -- |
| MW5 | 05/28/09 | -- | <25 | <25 | <25 | 530 | <25 | <25 | -- |
| MW5 | 08/31/09 | -- | <100 | <100 | <100 | <1,000 | <100 | <100 | -- |
| MW5 | 12/11/09 | -- | <100 | <100 | <100 | 2,000 | <100 | <100 | -- |
| MW5 | 05/07/10 | -- | <25 | <25 | <25 | 400 | <25 | <25 | -- |
| MW5 | 11/01/10 | -- | <50 | <50 | <50 | 1,500 | <50 | <50 | -- |
| MW5 | 05/27/11 d | -- | -- | -- | -- | -- | <50 | <50 | -- |
| MW5 | 11/23/11 | -- | <50 | <50 | <50 | <500 | <50 | <50 | -- |
| MW6 | 03/30/09 | -- | <0.50 | <0.50 | 1.3 | 410 | <0.50 | 0.82 | -- |
| MW6 | 05/28/09 | -- | <100 | <100 | <100 | <1,000 | <100 | <100 | -- |
| MW6 | 08/31/09 | -- | <100 | <100 | <100 | 1,100 | <100 | <100 | -- |
| MW6 | 12/11/09 | -- | <100 | <100 | <100 | 2,600 | <100 | <100 | -- |
| MW6 | 05/07/10 | -- | <100 | <100 | <100 | <1,000 | <100 | <100 | -- |
| MW6 | 11/01/10 | -- | <50 | <50 | <50 | 2,400 | <50 | <50 | -- |
| MW6 | 05/27/11 d | -- | -- | -- | -- | -- | <50 | <50 | -- |

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | EDB (µg/L) | 1,2-DCA (µg/L) | TAME (µg/L) | TBA (µg/L) | ETBE (µg/L) | DIPE (µg/L) | Ethanol (µg/L) |
|---------------------------------|-----------------|--------------|------------|----------------|-------------|------------|-------------|-------------|----------------|
| MW6 | 11/23/11 | --- | <100 | <100 | <100 | <1,000 | <100 | <100 | --- |
| MW7 | 03/30/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW7 | 05/28/09 | --- | <1.0 | <1.0 | <1.0 | <10 | <1.0 | <1.0 | --- |
| MW7 | 08/31/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW7 | 12/11/09 | --- | <0.50 | <0.50 | <0.50 | 12 | <0.50 | <0.50 | --- |
| MW7 | 05/07/10 | --- | <0.50 | <0.50 | <0.50 | 130 | <0.50 | <0.50 | --- |
| MW7 | 11/01/10 | --- | <2.5 | <2.5 | <2.5 | 27 | <2.5 | <2.5 | --- |
| MW7 | 05/27/11 d | --- | --- | --- | --- | --- | --- | --- | --- |
| MW7 | 11/23/11 | --- | <5.0 | <5.0 | <5.0 | <50 | <5.0 | <5.0 | --- |
| MW8 | 03/30/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 05/28/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 08/31/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 12/11/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 05/07/10 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 11/01/10 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 05/27/11 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW8 | 11/23/11 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 03/30/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 05/28/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 08/31/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 12/11/09 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 05/07/10 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 11/01/10 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 05/27/11 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| MW9 | 11/23/11 | --- | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | --- |
| Grab Groundwater Samples | | | | | | | | | |
| Pit Water | 06/14/02 | 11.5a | --- | --- | --- | --- | --- | --- | --- |
| UST Pit | 06/19/02 | 13.5a | --- | --- | --- | --- | --- | --- | --- |
| W-38-B11 | 11/14/07 | 38 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | <50 |
| W-15-B12 | 11/13/07 | 15 | <5.0 | <5.0 | <5.0 | <100 | <5.0 | <5.0 | <500 |
| W-40-B13 | 11/12/07 | 40 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | <50 |

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Sampling Date | Depth (feet) | EDB (µg/L) | 1,2-DCA (µg/L) | TAME (µg/L) | TBA (µg/L) | ETBE (µg/L) | DIPE (µg/L) | Ethanol (µg/L) |
|----------|---------------|--------------|------------|----------------|-------------|------------|-------------|-------------|----------------|
| W-15-B14 | 11/13/07 | 15 | <1.0 | <1.0 | <1.0 | <20 | <1.0 | <1.0 | <100 |
| W-38-B15 | 11/15/07 | 38 | <25 | <25 | <25 | 1,900 | <25 | <25 | <2,500 |
| W-40-B16 | 11/15/07 | 40 | <0.50 | <0.50 | <0.50 | <10 | <0.50 | <0.50 | 85 |
| W-37-B17 | 11/13/07 | 37 | <0.50 | <0.50 | <0.50 | 58 | <0.50 | <0.50 | <50 |
| W-38-B18 | 11/12/07 | 38 | <12 | <12 | <12 | <250 | <12 | <12 | <1,200 |
| W-35-B19 | 03/03/09 | 35 | <50 | <50 | <50 | <500 | <50 | <50 | <5,000 |
| W-35-B20 | 03/03/09 | 35 | <0.50 | <0.50 | <0.50 | 12 | <0.50 | <0.50 | <50 |
| W-35-B21 | 03/03/09 | 35 | <0.50 | <0.50 | <0.50 | <5.0 | <0.50 | <0.50 | <50 |

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 70234
 3450 35th Avenue
 Oakland, California

| | | |
|------------|---|---|
| Notes: | = | Data prior to 1999 provided by EA Environmental Science and Engineering in previously submitted reports. |
| TOC Elev. | = | Top of well casing elevation; datum is mean sea level. |
| DTW | = | Depth to water. |
| GW Elev. | = | Groundwater elevation; datum is mean sea level. |
| NAPL | = | Non-aqueous phase liquid. |
| TPHg | = | Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015. |
| MTBE | = | Methyl tertiary butyl ether analyzed using EPA Method 8260. |
| BTEX | = | Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B8020/8021B; during March 2009, analyzed using EPA Method 8020/8021B. |
| Total Pb | = | Total lead analyzed using EPA Method 6010. |
| Organic Pb | = | Organic lead analyzed using CA DHS LUFT method. |
| EDB | = | 1,2-dibromoethane analyzed using EPA Method 8260B. |
| 1,2-DCA | = | 1,2-dichloroethane analyzed using EPA Method 8260B. |
| TAME | = | Tertiary amyl methyl ether analyzed using EPA Method 8260B. |
| TBA | = | Tertiary butyl alcohol analyzed using EPA Method 8260B. |
| ETBE | = | Ethyl tertiary butyl ether analyzed using EPA Method 8260B. |
| DIPE | = | Di-isopropyl ether analyzed using EPA Method 8260B. |
| Ethanol | = | Ethanol analyzed using EPA Method 8260B. |
| µg/L | = | Micrograms per liter. |
| mg/L | = | Milligrams per liter. |
| < | = | Less than the stated laboratory reporting limit. |
| — | = | Not sampled/Not analyzed/Not measured/Not applicable. |
| a | = | Approximate depth to groundwater surface at time of sampling. |
| b | = | Hydrocarbon pattern does not match the requested fuel. |
| c | = | Analyte presence was not confirmed by second column or GC/MS analysis. |
| d | = | Well inaccessible for sampling. |

TABLE 2
WELL CONSTRUCTION DETAILS
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

| Well ID | Well Installation Date | Well Destruction Date | TOC Elevation (feet) | Borehole Diameter (inches) | Total Depth of Boring (feet bgs) | Well Depth (feet bgs) | Casing Diameter (inches) | Well Casing Material | Screened Interval (feet bgs) | Slot Size (inches) | Filter Pack Interval (feet bgs) | Filter Pack Material |
|---------|------------------------|-----------------------|----------------------|----------------------------|----------------------------------|-----------------------|--------------------------|----------------------|------------------------------|--------------------|---------------------------------|----------------------|
| MW1 | 07/15/92 | Jun-00 | 192.00 | 11 | 45 | 45 | 4 | Schedule 40 PVC | 25-45 | 0.010 | 23-45 | 2/12 Lonestar Sand |
| MW2 | 07/15/92 | Jun-00 | 194.85 | 11 | 45 | 45 | 4 | Schedule 40 PVC | 25-45 | 0.010 | 23-45 | 2/12 Lonestar Sand |
| MW3 | 07/15/92 | Jun-00 | 196.90 | 11 | 45 | 45 | 4 | Schedule 40 PVC | 25-45 | 0.010 | 23-45 | 2/12 Lonestar Sand |
| MW4 | 03/02/09 | --- | 197.62 | 8 | 45 | 45 | 2 | PVC | 35-45 | 0.2 | 33-45 | #3 Sand |
| MW5 | 03/06/09 | --- | 196.35 | 8 | 40 | 40 | 2 | PVC | 30-40 | 0.2 | 28-40 | #3 Sand |
| MW6 | 03/09/09 | --- | 192.41 | 8 | 40 | 39 | 2 | PVC | 29-39 | 0.2 | 27-39 | #3 Sand |
| MW7 | 03/09/09 | --- | 194.34 | 8 | 40 | 40 | 2 | PVC | 30-40 | 0.2 | 28-40 | #3 Sand |
| MW8 | 03/04/09 | --- | 192.96 | 8 | 40 | 40 | 2 | PVC | 30-40 | 0.2 | 28-40 | #3 Sand |
| MW9 | 03/05/09 | --- | 195.16 | 8 | 40 | 40 | 2 | PVC | 30-40 | 0.2 | 28-40 | #3 Sand |

Notes:

- TOC = Top of well casing elevation; datum is mean sea level.
- PVC = Polyvinyl chloride.
- feet bgs = feet below ground surface.

APPENDIX A
GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contained water and/or separate-phase product are measured with an ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples." The quantity of water purged from each well is calculated as follows:

1 well casing volume = $\pi r^2 h(7.48)$ where:

| | | |
|-------|---|---|
| r | = | radius of the well casing in feet |
| h | = | column of water in the well in feet (depth to bottom - depth to water) |
| 7.48 | = | conversion constant from cubic feet to gallons |
| π | = | ratio of the circumference of a circle to its diameter |

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples." Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter [ml] glass vials, 1,000-ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the Chain-of-Custody record.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody record, to a California state-certified laboratory.

APPENDIX B

**GROUNDWATER MONITORING DATA
CONOCOPHILLIPS, 3420 35TH AVENUE**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #6129
3420 35TH AVE., OAKLAND, CALIFORNIA

| Location | Date | TOC | DTW | GWE | HYDROCARBONS | | | | | PRIMARY VOCS | | | | | | | |
|----------|------------|--------|-------|---------|----------------|-------|-------|-------|------|----------------|------|-------|-------|-------|-------|---------|---------|
| | | | | | TPH - Gasoline | B | T | E | X | MTBE by SWS260 | TBA | ETBE | DIPE | TAME | EDB | 1,2-DCA | Ethanol |
| | Units | ft | ft | ft-amsl | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |
| MW-1 | 05/27/2011 | 190.79 | 26.87 | 163.92 | 110 | <0.50 | <0.50 | <0.50 | <1.0 | 220 | <10 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 |
| MW-1 | 11/23/2011 | 190.79 | 29.14 | 161.65 | 110 | <0.50 | <0.50 | <0.50 | <1.0 | 150 | 41 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 |
| MW-2 | 05/27/2011 | 190.80 | 26.44 | 164.36 | 560 | <0.50 | <0.50 | <0.50 | <1.0 | 1,100 | 210 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 |
| MW-2 | 11/23/2011 | 190.80 | 28.53 | 162.27 | 830 | <0.50 | <0.50 | <0.50 | <1.0 | 1,500 | 400 | <0.50 | 9.0 | <0.50 | <0.50 | <0.50 | <250 |
| MW-3 | 05/27/2011 | 188.58 | 26.53 | 162.05 | 340 | <0.50 | <0.50 | <0.50 | <1.0 | 890 | 73 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 |
| MW-3 | 11/23/2011 | 188.58 | 28.11 | 160.47 | 520 | <0.50 | <0.50 | <0.50 | <1.0 | 730 | 170 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <250 |

**TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #6129
3420 35TH AVE., OAKLAND, CALIFORNIA**

| Location | Date | TOC | DTW | GWE | HYDROCARBONS | | | | | PRIMARY VOCS | | | | | | | |
|----------|------|-----|-----|---------|----------------|------|------|------|------|----------------|------|------|------|------|------|---------|---------|
| | | | | | TPH - Gasoline | B | T | E | X | MTBE by SWS260 | TBA | ETBE | DIPE | TAME | EDB | 1,2-DCA | Ethanol |
| Units | | ft | ft | ft-amsl | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L | µg/L |

Abbreviations and Notes:

TOC = Top of Casing

DTW = Depth to Water

GWE = Groundwater elevation

(ft-amsl) = Feet Above Mean sea level

ft = Feet

µg/L = Micrograms per Liter

TPH - Total Petroleum Hydrocarbons

VOCS = Volatile Organic Compounds

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylene

MTBE = Methyl tert butyl ether

TBA = Tert-Butyl alcohol

DIPE = Diisopropyl ether

ETBE = Tert-Butyl ethyl ether

TAME = Tert-Amyl methyl ether

EDB = 1,2-Dibromoethane (Ethylene dibromide)

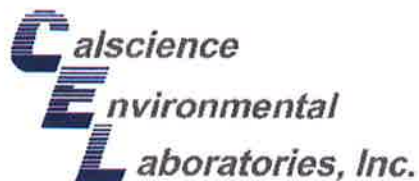
1,2-DCA = 1,2-Dichloroethane

- = Not available / not applicable

<x = Not detected above laboratory method detection limit

APPENDIX C

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



CALSCIENCE

WORK ORDER NUMBER: 11-11-1921

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

RECEIVED
DEC 13 2011

BY:

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 70234 / 022476

Attention: Janice Jacobson
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile de Guia

Approved for release on 12/9/2011 by:
Cecile de Guia
Project Manager

ResultLink ▶

Email your PM ▶



Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety. Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.





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Client Project Name: ExxonMobil 70234 / 022476
Work Order Number: 11-11-1921

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Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 70234 / 022476

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-36-MW4 | 11-11-1921-2-E | 11/23/11 10:00 | Aqueous | GC 57 | 12/01/11 | 12/01/11 13:01 | 111201B01 |

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | ND | 50 | 1 | U | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 125 | 38-134 | |

| | | | | | | | |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|
| W-35-MW5 | 11-11-1921-3-E | 11/23/11 11:20 | Aqueous | GC 57 | 12/01/11 | 12/01/11 14:35 | 111201B01 |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | 1900 | 50 | 1 | HD | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 85 | 38-134 | |

| | | | | | | | |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|
| W-31-MW6 | 11-11-1921-4-E | 11/23/11 12:10 | Aqueous | GC 57 | 12/01/11 | 12/01/11 15:06 | 111201B01 |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | 1600 | 50 | 1 | HD | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 83 | 38-134 | |

| | | | | | | | |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|
| W-33-MW7 | 11-11-1921-5-E | 11/23/11 10:45 | Aqueous | GC 57 | 12/01/11 | 12/01/11 15:38 | 111201B01 |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | 190 | 50 | 1 | HD | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 78 | 38-134 | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 70234 / 022476

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-32-MW8 | 11-11-1921-6-E | 11/23/11 09:10 | Aqueous | GC 57 | 12/01/11 | 12/01/11 16:09 | 111201B01 |

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | ND | 50 | 1 | U | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 82 | 38-134 | |

| | | | | | | | |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|
| W-32-MW9 | 11-11-1921-7-F | 11/23/11 08:40 | Aqueous | GC 57 | 12/01/11 | 12/01/11 16:40 | 111201B01 |
|----------|----------------|----------------|---------|-------|----------|----------------|-----------|

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | ND | 50 | 1 | U | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 80 | 38-134 | |

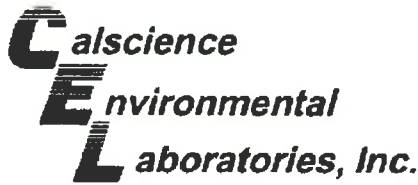
| | | | | | | | |
|--------------|------------------|-----|---------|-------|----------|----------------|-----------|
| Method Blank | 099-12-436-6,895 | N/A | Aqueous | GC 57 | 12/01/11 | 12/01/11 11:27 | 111201B01 |
|--------------|------------------|-----|---------|-------|----------|----------------|-----------|

| Parameter | Result | RL | DF | Qual | Units |
|-----------------|--------|----|----|------|-------|
| TPH as Gasoline | ND | 50 | 1 | U | ug/L |

| Surrogates: | REC (%) | Control Limits | Qual |
|------------------------|---------|----------------|------|
| 1,4-Bromofluorobenzene | 114 | 38-134 | |

Return to Compliance

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 70234 / 022476

Page 1 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-36-MW4 | 11-11-1921-2-D | 11/23/11 10:00 | Aqueous | GC 8 | 11/30/11 | 11/30/11 13:28 | 111130B01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 93 | 70-130 | | | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-35-MW5 | 11-11-1921-3-D | 11/23/11 11:20 | Aqueous | GC 8 | 11/30/11 | 11/30/11 15:16 | 111130B01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | 72 | 0.50 | 1 | | Ethylbenzene | 3.1 | 0.50 | 1 | |
| Toluene | 2.7 | 0.50 | 1 | | Xylenes (total) | 8.1 | 1.0 | 1 | |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 97 | 70-130 | | | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-31-MW6 | 11-11-1921-4-D | 11/23/11 12:10 | Aqueous | GC 8 | 11/30/11 | 11/30/11 16:28 | 111130B01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 94 | 70-130 | | | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-33-MW7 | 11-11-1921-5-D | 11/23/11 10:45 | Aqueous | GC 8 | 11/30/11 | 11/30/11 17:05 | 111130B01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 93 | 70-130 | | | | | | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| W-32-MW8 | 11-11-1921-6-D | 11/23/11 09:10 | Aqueous | GC 8 | 11/30/11 | 11/30/11 17:41 | 111130B01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 92 | 70-130 | | | | | | | |

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Return to Contents



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 70234 / 022476

Page 2 of 2

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|-----------------------|----------------|-------------|-----------------|-----------------------|------------------|
| W-32-MW9 | 11-11-1921-7-E | 11/23/11 08:40 | Aqueous | GC 8 | 11/30/11 | 11/30/11 18:17 | 111130B01 |

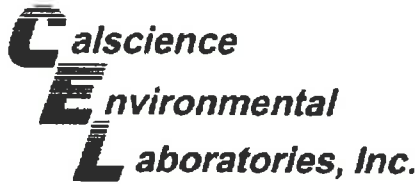
| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 92 | 70-130 | | | | | | | |

| | | | | | | | |
|---------------------|-------------------------|------------|----------------|-------------|-----------------|-----------------------|------------------|
| Method Blank | 099-12-667-1,310 | N/A | Aqueous | GC 8 | 11/30/11 | 11/30/11 11:39 | 111130B01 |
|---------------------|-------------------------|------------|----------------|-------------|-----------------|-----------------------|------------------|

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|------------------------|----------------|-----------------------|-------------|------|-----------------|--------|------|----|------|
| Benzene | ND | 0.50 | 1 | U | Ethylbenzene | ND | 0.50 | 1 | U |
| Toluene | ND | 0.50 | 1 | U | Xylenes (total) | ND | 1.0 | 1 | U |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | | | | | |
| 1,4-Bromofluorobenzene | 95 | 70-130 | | | | | | | |

Return to Contents

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 70234 / 022476

Page 1 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-36-MW4 | 11-11-1921-2-B | 11/23/11 10:00 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 16:33 | 111202L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 1 | U | Tert-Amyl-Methyl Ether (TAME) | ND | 0.50 | 1 | U |
| Tert-Butyl Alcohol (TBA) | ND | 5.0 | 1 | U | 1,2-Dibromoethane | ND | 0.50 | 1 | U |
| Diisopropyl Ether (DIPE) | ND | 0.50 | 1 | U | 1,2-Dichloroethane | ND | 0.50 | 1 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 0.50 | 1 | U | | | | | |
| Surrogates: | REC (%) | Control Limits | Qual | | Surrogates: | REC (%) | Control Limits | Qual | |
| 1,4-Bromofluorobenzene | 100 | 68-120 | | | Dibromofluoromethane | 103 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 111 | 80-128 | | | Toluene-d8 | 98 | 80-120 | | |

| | | | | | | | |
|-----------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-35-MW5 | 11-11-1921-3-C | 11/23/11 11:20 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 17:01 | 111202L01 |
|-----------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | 3200 | 50 | 100 | | Tert-Amyl-Methyl Ether (TAME) | ND | 50 | 100 | U |
| Tert-Butyl Alcohol (TBA) | ND | 500 | 100 | U | 1,2-Dibromoethane | ND | 50 | 100 | U |
| Diisopropyl Ether (DIPE) | ND | 50 | 100 | U | 1,2-Dichloroethane | ND | 50 | 100 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 50 | 100 | U | | | | | |
| Surrogates: | REC (%) | Control Limits | Qual | | Surrogates: | REC (%) | Control Limits | Qual | |
| 1,4-Bromofluorobenzene | 102 | 68-120 | | | Dibromofluoromethane | 105 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 120 | 80-128 | | | Toluene-d8 | 100 | 80-120 | | |

| | | | | | | | |
|-----------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-31-MW6 | 11-11-1921-4-B | 11/23/11 12:10 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 17:29 | 111202L01 |
|-----------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | 6400 | 100 | 200 | | Tert-Amyl-Methyl Ether (TAME) | ND | 100 | 200 | U |
| Tert-Butyl Alcohol (TBA) | ND | 1000 | 200 | U | 1,2-Dibromoethane | ND | 100 | 200 | U |
| Diisopropyl Ether (DIPE) | ND | 100 | 200 | U | 1,2-Dichloroethane | ND | 100 | 200 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 100 | 200 | U | | | | | |
| Surrogates: | REC (%) | Control Limits | Qual | | Surrogates: | REC (%) | Control Limits | Qual | |
| 1,4-Bromofluorobenzene | 100 | 68-120 | | | Dibromofluoromethane | 106 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 119 | 80-128 | | | Toluene-d8 | 99 | 80-120 | | |

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers

Return to Compliance

Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 70234 / 022476

Page 2 of 3

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-33-MW7 | 11-11-1921-5-B | 11/23/11 10:45 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 17:56 | 111202L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | 300 | 5.0 | 10 | | Tert-Amyl-Methyl Ether (TAME) | ND | 5.0 | 10 | U |
| Tert-Butyl Alcohol (TBA) | ND | 50 | 10 | U | 1,2-Dibromoethane | ND | 5.0 | 10 | U |
| Diisopropyl Ether (DIPE) | ND | 5.0 | 10 | U | 1,2-Dichloroethane | ND | 5.0 | 10 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 5.0 | 10 | U | | | | | |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | |
| 1,4-Bromofluorobenzene | 101 | 68-120 | | | Dibromofluoromethane | 104 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 117 | 80-128 | | | Toluene-d8 | 101 | 80-120 | | |

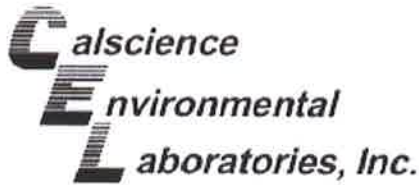
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-32-MW8 | 11-11-1921-6-B | 11/23/11 09:10 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 18:24 | 111202L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 1 | U | Tert-Amyl-Methyl Ether (TAME) | ND | 0.50 | 1 | U |
| Tert-Butyl Alcohol (TBA) | ND | 5.0 | 1 | U | 1,2-Dibromoethane | ND | 0.50 | 1 | U |
| Diisopropyl Ether (DIPE) | ND | 0.50 | 1 | U | 1,2-Dichloroethane | ND | 0.50 | 1 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 0.50 | 1 | U | | | | | |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | |
| 1,4-Bromofluorobenzene | 99 | 68-120 | | | Dibromofluoromethane | 105 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 111 | 80-128 | | | Toluene-d8 | 100 | 80-120 | | |

| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-----------------------|---------------------------|----------------|------------------|-----------------|---------------------------|------------------|
| W-32-MW9 | 11-11-1921-7-B | 11/23/11 08:40 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 11:57 | 111202L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 1 | U | Tert-Amyl-Methyl Ether (TAME) | ND | 0.50 | 1 | U |
| Tert-Butyl Alcohol (TBA) | ND | 5.0 | 1 | U | 1,2-Dibromoethane | ND | 0.50 | 1 | U |
| Diisopropyl Ether (DIPE) | ND | 0.50 | 1 | U | 1,2-Dichloroethane | ND | 0.50 | 1 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 0.50 | 1 | U | | | | | |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | |
| 1,4-Bromofluorobenzene | 99 | 68-120 | | | Dibromofluoromethane | 105 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 112 | 80-128 | | | Toluene-d8 | 99 | 80-120 | | |

RL - Reporting Limit DF - Dilution Factor Qual - Qualifiers



Analytical Report



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 70234 / 022476

Page 3 of 3

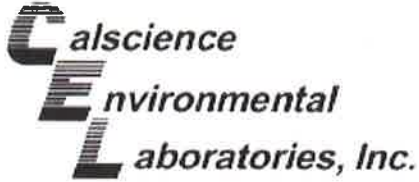
| Client Sample Number | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
|----------------------|-------------------|---------------------|---------|------------|---------------|--------------------|-------------|
| Method Blank | 099-12-884-740 | N/A | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 11:29 | 111202L01 |

| Parameter | Result | RL | DF | Qual | Parameter | Result | RL | DF | Qual |
|-----------------------------|----------------|-----------------------|-------------|------|-------------------------------|----------------|-----------------------|-------------|------|
| Methyl-t-Butyl Ether (MTBE) | ND | 0.50 | 1 | U | Tert-Amyl-Methyl Ether (TAME) | ND | 0.50 | 1 | U |
| Tert-Butyl Alcohol (TBA) | ND | 5.0 | 1 | U | 1,2-Dibromoethane | ND | 0.50 | 1 | U |
| Diisopropyl Ether (DIPE) | ND | 0.50 | 1 | U | 1,2-Dichloroethane | ND | 0.50 | 1 | U |
| Ethyl-t-Butyl Ether (ETBE) | ND | 0.50 | 1 | U | | | | | |
| <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | | <u>Surrogates:</u> | <u>REC (%)</u> | <u>Control Limits</u> | <u>Qual</u> | |
| 1,4-Bromofluorobenzene | 99 | 68-120 | | | Dibromofluoromethane | 107 | 80-127 | | |
| 1,2-Dichloroethane-d4 | 114 | 80-128 | | | Toluene-d8 | 98 | 80-120 | | |

Return to Contingency

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8015B (M)

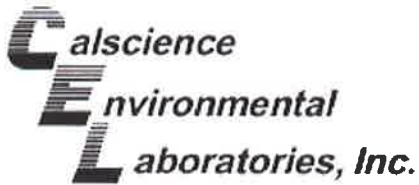
Project ExxonMobil 70234 / 022476

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|----------------|--------------|-----------------|-----------------|---------------------|
| W-36-MW4 | Aqueous | GC 57 | 12/01/11 | 12/01/11 | 111201S01 |

| <u>Parameter</u> | <u>SPIKE ADDED</u> | <u>MS %REC</u> | <u>MSD %REC</u> | <u>%REC CL</u> | <u>RPD</u> | <u>RPD CL</u> | <u>Qualifiers</u> |
|------------------|--------------------|----------------|-----------------|----------------|------------|---------------|-------------------|
| TPH as Gasoline | 2000 | 83 | 82 | 68-122 | 2 | 0-18 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8021B

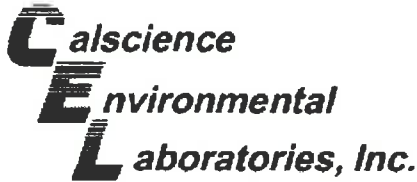
Project ExxonMobil 70234 / 022476

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|----------------|-------------|-----------------|-----------------|---------------------|
| W-36-MW4 | Aqueous | GC 8 | 11/30/11 | 11/30/11 | 111130S01 |

| Parameter | SPIKE ADDED | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-----------------|-------------|---------|----------|---------|-----|--------|------------|
| Benzene | 100.0 | 105 | 106 | 57-129 | 2 | 0-23 | |
| Toluene | 100.0 | 99 | 101 | 50-134 | 2 | 0-26 | |
| Ethylbenzene | 100.0 | 102 | 102 | 58-130 | 0 | 0-26 | |
| Xylenes (total) | 300.0 | 101 | 101 | 58-130 | 0 | 0-28 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: 11/29/11
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8260B

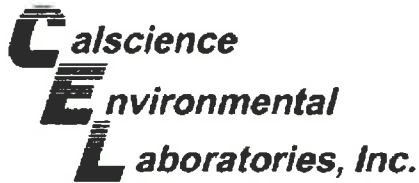
Project ExxonMobil 70234 / 022476

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | MS/MSD Batch Number |
|---------------------------|----------------|------------------|-----------------|-----------------|---------------------|
| W-32-MW9 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 | 111202S01 |

| Parameter | SPIKE ADDED | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-------------------------------|-------------|---------|----------|---------|-----|--------|------------|
| Benzene | 10.00 | 105 | 102 | 76-124 | 3 | 0-20 | |
| Toluene | 10.00 | 107 | 106 | 80-120 | 1 | 0-20 | |
| Ethylbenzene | 10.00 | 113 | 110 | 78-126 | 3 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 10.00 | 110 | 106 | 67-121 | 4 | 0-49 | |
| Tert-Butyl Alcohol (TBA) | 50.00 | 107 | 103 | 36-162 | 4 | 0-30 | |
| Diisopropyl Ether (DIPE) | 10.00 | 118 | 114 | 60-138 | 3 | 0-45 | |
| Ethyl-t-Butyl Ether (ETBE) | 10.00 | 113 | 110 | 69-123 | 3 | 0-30 | |
| Tert-Amyl-Methyl Ether (TAME) | 10.00 | 105 | 100 | 65-120 | 4 | 0-20 | |
| Ethanol | 100.0 | 110 | 108 | 30-180 | 2 | 0-72 | |
| 1,2-Dibromoethane | 10.00 | 108 | 102 | 80-120 | 5 | 0-20 | |
| 1,2-Dichloroethane | 10.00 | 117 | 113 | 80-120 | 3 | 0-20 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



| | | |
|--------------------------|----------------|---------------|
| Cardno ERI | Date Received: | N/A |
| 601 North McDowell Blvd. | Work Order No: | 11-11-1921 |
| Petaluma, CA 94954-2312 | Preparation: | EPA 5030C |
| | Method: | EPA 8015B (M) |

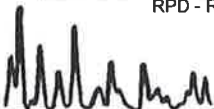
Project: ExxonMobil 70234 / 022476

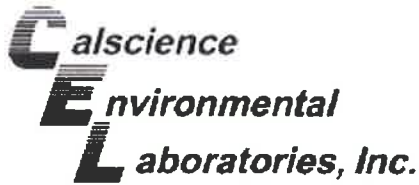
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-436-6,895 | Aqueous | GC 57 | 12/01/11 | 12/01/11 | 111201B01 |

| Parameter | SPIKE ADDED | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-----------------|-------------|----------|-----------|---------|-----|--------|------------|
| TPH as Gasoline | 2000 | 83 | 80 | 78-120 | 4 | 0-10 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8021B

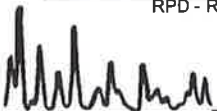
Project: ExxonMobil 70234 / 022476

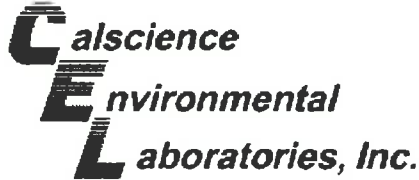
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number |
|---------------------------|---------|------------|---------------|---------------|-----------------------|
| 099-12-667-1,310 | Aqueous | GC 8 | 11/30/11 | 11/30/11 | 111130B01 |

| Parameter | SPIKE ADDED | LCS %REC | LCSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
|-----------------|-------------|----------|-----------|---------|-----|--------|------------|
| Benzene | 100.0 | 100 | 103 | 70-118 | 3 | 0-9 | |
| Toluene | 100.0 | 102 | 99 | 66-114 | 3 | 0-9 | |
| Ethylbenzene | 100.0 | 103 | 103 | 72-114 | 0 | 0-9 | |
| Xylenes (total) | 300.0 | 103 | 103 | 74-116 | 0 | 0-9 | |

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



Cardno ERI
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Date Received: N/A
Work Order No: 11-11-1921
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 70234 / 022476

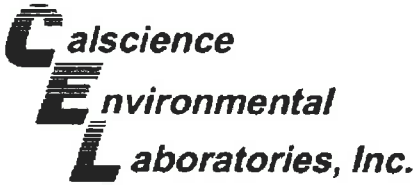
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Batch Number | | | |
|-------------------------------|-------------|------------|---------------|---------------|-----------------------|-----|--------|------------|
| 099-12-884-740 | Aqueous | GC/MS FFF | 12/02/11 | 12/02/11 | 111202L01 | | | |
| Parameter | SPIKE ADDED | LCS %REC | LCSD %REC | %REC CL | ME CL | RPD | RPD CL | Qualifiers |
| Benzene | 10.00 | 97 | 107 | 80-120 | 73-127 | 9 | 0-20 | |
| Toluene | 10.00 | 100 | 110 | 80-120 | 73-127 | 9 | 0-20 | |
| Ethylbenzene | 10.00 | 103 | 112 | 80-120 | 73-127 | 8 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 10.00 | 99 | 111 | 69-123 | 60-132 | 11 | 0-20 | |
| Tert-Butyl Alcohol (TBA) | 50.00 | 98 | 100 | 63-123 | 53-133 | 2 | 0-20 | |
| Diisopropyl Ether (DIPE) | 10.00 | 108 | 117 | 59-137 | 46-150 | 8 | 0-37 | |
| Ethyl-t-Butyl Ether (ETBE) | 10.00 | 103 | 113 | 69-123 | 60-132 | 10 | 0-20 | |
| Tert-Amyl-Methyl Ether (TAME) | 10.00 | 96 | 104 | 70-120 | 62-128 | 9 | 0-20 | |
| Ethanol | 100.0 | 97 | 105 | 28-160 | 6-182 | 8 | 0-57 | |
| 1,2-Dibromoethane | 10.00 | 98 | 108 | 79-121 | 72-128 | 9 | 0-20 | |
| 1,2-Dichloroethane | 10.00 | 108 | 117 | 80-120 | 73-127 | 8 | 0-20 | |

Total number of LCS compounds : 11
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit





Glossary of Terms and Qualifiers



Work Order Number: 11-11-1921

| <u>Qualifier</u> | <u>Definition</u> |
|------------------|--|
| AZ | Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification. |
| B | Analyte was present in the associated method blank. |
| BA | The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification. |
| BB | Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater. |
| BU | Sample analyzed after holding time expired. |
| DF | Reporting limits elevated due to matrix interferences. |
| E | Concentration exceeds the calibration range. |
| ET | Sample was extracted past end of recommended max. holding time. |
| GE | The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported without further clarification. |
| HD | Chromat. profile inconsistent with pattern(s) of ref. fuel stnds. |
| HT | Analytical value calculated using results from associated tests. |
| HX | Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification. |
| IL | Relative percent difference out of control. |
| J | Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated. |
| LD | Analyte presence was not confirmed by second column or GC/MS analysis. |
| LQ | LCS recovery above method control limits. |
| LR | LCS recovery below method control limits. |
| ND | Parameter not detected at the indicated reporting limit. |
| QO | Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics. |
| RU | LCS/LCSD Recovery Percentage is within Marginal Exceedance (ME) Control Limit range. |
| SG | A silica gel cleanup procedure was performed. |
| SN | See applicable analysis comment. |
| U | Undetected at detection limit. |

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.



**Calscience
Environmental
Laboratories, Inc.**

7440 Lincoln Way
Garden Grove, CA 92841

Phone: 714-895-5494
Fax: 714-894-7501

ExxonMobil
11-11-1921

Consultant Name: Cardno ERI Account #: NA PO#: 4512312717
Consultant Address: 601 N. McDowell Boulevard Invoice To: Jennifer Sedlachek
Consultant City/State/Zip: Petaluma, California, 94954 Report To: Janice Jacobson
ExxonMobil Project Mgr: Jennifer Sedlachek Project Name: 02 2476 13X
Consultant Project Mgr: Janice Jacobson ExxonMobil Site #: 70234 Major Project (AFE #): _____
Consultant Telephone Number: 707-766-2000 Fax No.: 707-789-0414 Site Address: 3450 35th Avenue
Sampler Name (Print): Azat Magdanch Site City, State, Zip: Oakland, California
Sampler Signature: *[Signature]* Oversight Agency: Alameda County Environmental Health Department

| Sample ID | Field Point Name | Date Sampled | Time Sampled | No. of Containers Shipped | Grab | Composite | Field Filtered | Preservative | | | | | | | | | | | Matrix | | | | | | | Analyze For: | | | | RUSH TAT (Pre-Schedule) | 5-day TAT | Standard 10-day TAT | Due Date of Report | | | | | | | | |
|------------|------------------|--------------|--------------|---------------------------|------|-----------|----------------|--------------|------------------|-----|------|--|--|------------------|-----|-------|------|-------------|------------|----------------|--------|------|-----|----------------------------------|------------|--------------|------------------|--|--|-------------------------|-----------|---------------------|--------------------|--|--|--|--|--|---|--|--|
| | | | | | | | | Methanol | Sodium Bisulfate | HCl | NaOH | H ₂ SO ₄ , Plastic | H ₂ SO ₄ , Glass | HNO ₃ | Ice | Other | None | Groundwater | Wastewater | Drinking Water | Sludge | Soil | Air | Other (specify): Distilled Water | TPHg 8015B | BTEX 8021B | OXYGENATES 8260B | | | | | | | | | | | | | | |
| 1 BB | | 11/23/11 | 1200 | 2V | | | | | | X | | | | | | | | | | X | | | | | | | | | | | | | | | | | | | | | |
| 2 W-36-MW4 | MW4 | | 1000 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |
| 3 W-35-MW5 | MW5 | | 1120 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |
| 4 W-31-MW6 | MW6 | | 1210 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |
| 5 W-33-MW7 | MW7 | | 1045 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |
| 6 W-32-MW8 | MW8 | | 0910 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |
| 7 W-32-MW9 | MW9 | | 0840 | 6V | | | | | | X | | | | | | X | | | | | | | X | X | X | | | | | | | | | | | | | | X | | |

Comments/Special Instructions: PLEASE E-MAIL ALL PDF FILES TO norcallabs@eri-us.com; ERI-EIMLABS@eri-us.com
GLOBAL ID # T06019757161
7 CA Olys = MTBE, ETBE, TAME, TBA, EDB, 1,2-DCA, DIPE.
Set TBA detection limit at or below 12 ug/L

Laboratory Comments: Temperature Upon Receipt: _____
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 _____
Level 3 _____
Level 4 _____
Site Specific - if yes, please attach pre-schedule w/ TestAmerica Project Manager or attach specific instructions

Relinquished by: *Azat Magdanch*
Date: 11/28/11 Time: 1020
Relinquished by: *Tom O'Malley TO G50*
Date: 11/28/11 Time: 1730

Received by: *Tom O'Malley CEX* Date: 11/28/11 Time: 1020
Received by (Lab personnel): *Wobatu CEX* Date: 11/29/11 Time: 0815

| | | | |
|--|--|--|------------|
|  | | < WebShip > > > > 800-322-5555 www.gso.com | |
| Ship From: ALAN KEMP CAL SCIENCE- CONCORD 5063 COMMERCIAL CIRCLE #H CONCORD, CA 94520 | | Tracking #: 517916387  | EPS |
| Ship To: SAMPLE RECEIVING CEL 7440 LINCOLN WAY GARDEN GROVE, CA 92841 | | ORC D GARDEN GROVE | |
| COD: \$0.00 | | D92843A  96390656 | |
| Reference: ANTEA GROUP, CARDNO ERI | | Print Date : 11/28/11 18:03 PM | |
| Delivery Instructions: | | Package 1 of 1 | |
| Signature Type: SIGNATURE REQUIRED | | | |

1921

Print All

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

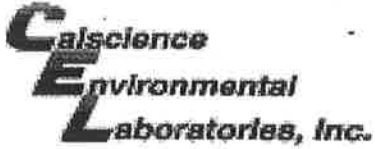
STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

ADDITIONAL OPTIONS:

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but or not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 11-11-1921

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: CARDNO ERI

DATE: 11/29/11

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.9 °C + 0.5°C (CF) = 2.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Initial: WB

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: WB

Sample _____ No (Not Intact) Not Present Initial: PS

SAMPLE CONDITION:

| | Yes | No | N/A |
|--|-------------------------------------|--------------------------|-------------------------------------|
| Chain-Of-Custody (COC) document(s) received with samples..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC document(s) received complete..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. | | | |
| <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished. | | | |
| Sampler's name indicated on COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container label(s) consistent with COC..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample container(s) intact and good condition..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Proper containers and sufficient volume for analyses requested..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Analyses received within holding time..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| pH / Res. Chlorine / Diss. Sulfide / Diss. Oxygen received within 24 hours... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Proper preservation noted on COC or sample container..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> Unpreserved vials received for Volatiles analysis | | | |
| Volatile analysis container(s) free of headspace..... | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Tedlar bag(s) free of condensation..... | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: PS

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z_{na}: ZnAc₂+NaOH f: Filtered Scanned by: PS

APPENDIX D
WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

| | | | | | | | |
|---|--|---|----------------|---|--------------------|----------------|-------------------|
| NON-HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. | | Manifest Document No. | | 2. Page 1 of 1 | |
| 3. Generator's Name and Mailing Address | | EM# 70234 3450 35TH AVE OAKLAND, CA | | CARDNO ERI 2476 | | | |
| 4. Generator's Phone () | | OAKLAND, CA | | | | | |
| 5. Transporter 1 Company Name | | 6. US EPA ID Number | | A. State Transporter's ID | | | |
| CARDNO ERI | | | | B. Transporter 1 Phone | | | |
| 7. Transporter 2 Company Name | | 8. US EPA ID Number | | C. State Transporter's ID | | | |
| | | | | D. Transporter 2 Phone | | | |
| 9. Designated Facility Name and Site Address | | 10. US EPA ID Number | | E. State Facility's ID | | | |
| INSTRAT INC 1105-C AIRPORT RD RIO VISTA CA | | CAR000150599 | | F. Facility's Phone | | | |
| | | | | 707-374-3834 | | | |
| 11. WASTE DESCRIPTION | | | 12. Containers | | 13. Total Quantity | | 14. Unit Wt./Vol. |
| | | | No. | Type | | | |
| a. | | | 1 | Poly | 56 | | GAL |
| b. | | | | | | | |
| c. | | | | | | | |
| d. | | | | | | | |
| G. Additional Descriptions for Materials Listed Above | | | | H. Handling Codes for Wastes Listed Above | | | |
| COLOR - BROWN ODOR - P SOLIDS - FINES | | | | | | | |
| 15. Special Handling Instructions and Additional Information | | | | | | | |
| | | | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations. | | | | | | | |
| Printed/Typed Name | | | | Signature | | Date | |
| | | | | | | Month Day Year | |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Date | |
| STEVEN CHUCK | | | | | | 12 1 11 | |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | | | | |
| Printed/Typed Name | | | | Signature | | Date | |
| | | | | | | Month Day Year | |
| 19. Discrepancy Indication Space | | | | | | | |
| 20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19. | | | | | | | |
| Printed/Typed Name | | | | Signature | | Date | |
| INSTRAT INC MICHAEL WHITEHEAD | | | | | | 12 1 11 | |

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



APPENDIX E
FIELD DATA SHEETS

Daily Field Report

Cardno ERI



Project ID #: 70115

Cardno ERI Job # 022129C

Subject: GW SAMPLING

Date: 11/23/2011

Equipment Used: SOLINST/HYDAC/PUMPS/BATTS'S/SAMPLING EQUIPMENT/ETC.

Sheet: 1

Name(s): MAGDANOV, AZAT

Time Arrived On Site: 6:15

Time Departed Site: 13:15

06:15 -ARRIVED ON SITE
-VACANT PROPERTY
-SET UP EXCLUSION ZONE AND CHOCKED THE WHEELS ON VEHICLE
-REVIEWED APPLICABLE JSA'S
-PERFORMED SPSA FOR: SOCIAL HAZARDS
-STARTED PAPERWORK FOR SITE AND LABELS
-SET UP DECON/WORK AREA AND DECON'D EQUIPMENT
06:15 -HELD H&S MEETING/REVIEWED HOSPITAL ROUTE /FINISHED AT 06:30
07:00 -OPENED WELLS AND ALLOWED WELLS TO CHARGE
07:15 -STARTED MEASURING /FINISHED AT 07:45
08:09 -STARTED PURGING /FINISHED AT 11:39
08:40 -STARTED SAMPLING /FINISHED AT 12:10
-DECON'D EQUIPMENT/CLEANED UP DECON STATION/LOADED TRUCK
-BROKE DOWN EXCLUSION ZONE/LOADED TRUCK
13:15 -CARDNO ERI OFF SITE

| | | |
|----------------|--------------|----------------------|
| *M/P/S 6 WELLS | *M/S 0 WELLS | M/S LOW FLOW 0 WELLS |
| *MO 0 WELLS | *O/P 0 WELLS | *POTABLE 0 WELLS |

TOTAL PURGED GALLONS: 36 DECON WATER GALLONS: 20
*0 T/C SET UPS

GROUNDWATER SAMPLING FIELD LOG

Client Name: Exxon Mobile

ERI Job #: 2476

Date: 11/23 Page 1 of 1
2011

Location: 70234

Field Cleaning Performed: _____

Case Volume = (TD - DTW) x F where F =

Field Crew: Azad Haydarov

Analysis: _____

0.163 for 2" inside-diameter well casing
0.652 for 4" inside-diameter well casing
1.457 for 6" inside-diameter well casing

| Well ID | Time | Case Volume | Purge Volume | Temp | Cond | pH | Post-Purge DTW | 80% Recharge | BB | 40mil | Amber | DO | ORP | Comments Well Box Condition |
|---------|------|-------------|--------------|------|------|------|----------------|--------------|------|-------|-------|----|-----|-----------------------------|
| MW 9 | 0809 | 1.13 | 2 | | | | 31.78 | 32.56 | | 0840 | | | | Water |
| | 0810 | | 2 | 17.0 | 707 | 6.34 | | | | | | | | |
| | 0812 | | 4 | 17.5 | 714 | 6.40 | | | | | | | | |
| | 0814 | | 6 | 17.5 | 702 | 6.55 | | | | | | | | |
| MW 8 | 0854 | 1.61 | 2 | | | | 31.70 | 31.72 | | 0910 | | | | OK |
| | 0856 | | 2 | 16.9 | 375 | 6.71 | | | | | | | | |
| | 0857 | | 4 | 17.2 | 421 | 6.57 | | | | | | | | |
| | 0859 | | 6 | 17.3 | 630 | 6.64 | | | | | | | | |
| MW 4 | 0945 | 1.03 | 2 | | | | 35.04 | 35.74 | | 1000 | | | | OK |
| | 0947 | | 2 | 17.5 | 411 | 6.82 | | | | | | | | |
| | 0948 | | 4 | 18.0 | 538 | 6.67 | | | | | | | | |
| | 0950 | | 6 | 18.5 | 540 | 6.65 | | | | | | | | |
| MW 7 | 1024 | 1.34 | 2 | | | | 32.85 | 33.03 | | 1045 | | | | OK |
| | 1025 | | 2 | 18.1 | 529 | 6.70 | | | | | | | | |
| | 1027 | | 4 | 18.5 | 609 | 6.59 | | | | | | | | |
| | | | 6 | 18.8 | 645 | 6.60 | | | | | | | | |
| MW 5 | 1101 | 1.17 | 2 | | | | 34.00 | 34.01 | | 1120 | | | | Water |
| | 1103 | | 2 | 17.3 | 707 | 6.16 | | | | | | | | |
| | 1104 | | 4 | 17.7 | 729 | 6.21 | | | | | | | | |
| | 1106 | | 6 | 17.7 | 776 | 6.22 | | | | | | | | |
| MW 6 | 1136 | 1.47 | 2 | | | | 30.85 | 31.05 | 1200 | 1210 | | | | BB collected @ 1200 |
| | 1138 | | 2 | 17.8 | 847 | 6.73 | | | | | | | | |
| | 1139 | | 4 | 18.0 | 941 | 6.65 | | | | | | | | |
| | | | 6 | 18.2 | 1003 | 6.53 | | | | | | | | |

WATER SAMPLING SITE STATUS

Date: 4/23/2011

ERI Job Number: 2476 Station No.: 70234

Inspected by: Robert Hayden
 Site Address: 3450 35th ave, Oakland, CA

| Well ID | Well Head Screws | Rubber Gasket | Well Cap Locking | Lock on Well Cap | Concrete Well Seal | Well Head PVC | Water in Well Vault | Well Cover | Fence/Gate Condition | # Drums | Drum Contents | Building Condition | Site Appearance | Comments / Well Covers |
|---------|------------------|---------------|------------------|------------------|--------------------|---------------|---------------------|------------|----------------------|---------|---------------|--------------------|-----------------|--|
| | N/R/ok | N/R/ok | N/R/ok | N/R/ok | N/R/ok | N/R/ok | Y/N | N/R/ok | N/R/ok | N/R/ok | s/w/e | g/v/o | N/R/ok | |
| MW3 | OK | OK | OK | OK | N | OK | Y | - | OK | - | - | - | - | OK |
| MW4 | ↓ | ↓ | ↓ | ↓ | OK | ↓ | N | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | Dig. Lock doesn't open on any combination provided. To enter the site cut the chain. Locked by Master lock. |
| MW7 | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| MW5 | ↓ | ↓ | ↓ | ↓ | N | ↓ | Y | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |
| MW6 | ↓ | ↓ | ↓ | ↓ | OK | ↓ | N | ↓ | ↓ | ↓ | ↓ | ↓ | ↓ | |

N = Not repairable in time available-see comments.
 R = Repaired-see comments
 ok = No action needed.

Y = Yes.
 N = No.

s = Soil.
 w = Water.
 e = Empty.

g = Graffiti on walls.
 v = Vagrants (or evidence of).
 o = Open (not secured).