Atlantic Richfield Company

Chuck Carmel

Environmental Business Manager

RECEIVED

4:07 pm, Apr 30, 2010

Alameda County
Environmental Health

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3803 Fax: (925) 275-3815 E-Mail: charles.carmel@bp.com

30 April 2010

Re: First Quarter 2010 Semi-Annual Ground-Water Monitoring Report

Atlantic Richfield Company Station #2107 3310 Park Boulevard, Oakland, California

ACEH Case #RO0002526

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct.

Submitted by,

Chuck Carmel Environmental Business Manager

Attachment:



First Quarter 2010 Semi-Annual Ground-Water Monitoring Report Atlantic Richfield Company Station #2107

3310 Park Boulevard, Oakland, California
ACEH Case #RO0002526

Prepared for

Mr. Chuck Carmel
Environmental Business Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212 Chico, California 95926 (530) 566-1400 www.broadbentinc.com

30 April 2010

Project No. 06-88-614



30 April 2010

Project No. 06-88-614

Atlantic Richfield Company P.O. Box 1257 San Ramon, CA 94583 Submitted via ENFOS

Attn.: Mr. Chuck Carmel

Re:

First Quarter 2010 Semi-Annual Ground-Water Monitoring Report, Atlantic Richfield

Company Station #2107, 3310 Park Boulevard, Oakland, California;

ACEH Case #RO0002526

Dear Mr. Carmel:

Attached is the First Quarter 2010 Semi-Annual Ground-Water Monitoring Report for Atlantic Richfield Company (a BP affiliated company) Station #2107 located at, 3310 Park Boulevard, Oakland, Alameda County, California (Site). This report presents results of groundwater monitoring conducted at the Site during the First Quarter of 2010.

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact me at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E.

Senior Engineer

Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (Submitted via ACEH ftp site)

Electronic copy uploaded to GeoTracker

NEVADA

ARIZONA

CALIFORNIA

TEXAS

STATION # 2107 SEMI-ANNUAL GROUND-WATER MONITORING REPORT

Facility: #2107 Address: 3310 Park Boulevard, Oakland, California

Environmental Business Manager: Mr. Chuck Carmel

Consulting Co./Contact Person: Broadbent & Associates, Inc.(BAI)/Mr. Tom Venus, PE

(530) 566-1400

Consultant Project No.: 06-88-614

Primary Agency/Regulatory ID No.: Alameda County Environmental Health (ACEH)

ACEH Case # RO0002526

Facility Permits/Permitting Agency: NA

WORK PERFORMED THIS QUARTER (First Quarter 2010):

1. Prepared and submitted *Fourth Quarter 2009 Ground-Water Monitoring Report* (BAI, 1/5/2010).

2. Conducted ground-water monitoring/sampling for First Quarter 2010. Work performed on 19 February 2010 by BAI.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2010):

1. Prepared and submitted this *First Quarter 2010 Semi-Annual Ground-Water Monitoring Report* (contained herein).

2. Consistent with the modifications to the sampling schedule proposed in the *Fourth Quarter* 2009 Ground-Water Monitoring Report, no sampling or environmental activities are scheduled at the Site during Second Quarter 2010.

RESULTS SUMMARY:

Current phase of project: Ground-Water Monitoring/Sampling

Frequency of ground-water Semi-Annually (10 & 30): MW-11A, MW-11B, MW-12A,

monitoring:* MW-12B, MW-13A, MW-13B

Frequency of ground-water Semi-Annually (10 &30): MW-11A, MW-11B, MW-12A,

sampling:* MW-12B, MW-13A, MW-13B

Is free product (FP) present on-site: No

FP recovered this quarter: None

Current remediation techniques: NA

Current remediation techniques.

Depth to ground water (below TOC): 3.10 ft (MW-13B) to 11.07 ft (MW-12B)

General ground-water flow direction: North ('B' wells)

Approximate hydraulic gradient: 0.03 ft/ft ('B' wells)

DISCUSSION:

First quarter 2010 ground-water monitoring and sampling was conducted at Station #2107 on 19 February 2010 by BAI personnel. Water levels were gauged in the six wells associated with the Site. No irregularities were noted during water level gauging. Depth to water measurements ranged from 3.10 ft at MW-13B to 11.07 ft at MW-12B. Resulting ground-water surface elevations ranged from 113.72 ft above datum (NAVD88) in well MW-11B to 109.77 ft at well MW-12B. Water level elevations are summarized in Table 1. A review of the First Quarter 2010 ground-water level elevations shows an upward vertical hydraulic gradient between paired wells MW-11A and MW-11B, a slight upward vertical hydraulic gradient between paired wells MW-13B, but a downward vertical hydraulic

^{*} Revised schedule beginning First Quarter 2010. Schedule modifications discussed below.

Page 2

gradient between paired wells MW-12A and MW-12B. These vertical gradients are similar to those documented since the First Quarter 2009. Water level elevations in the three 'B' wells yielded a potentiometric ground-water flow direction and gradient to the north at approximately 0.03 ft/ft, generally consistent with previous monitoring events (see Table 3). Ground-water monitoring field data sheets are provided within Appendix A. Measured depths to ground water and respective ground-water elevations are summarized in Table 1. A Site Location Map is provided as Drawing 1. Potentiometric ground-water elevation contours are presented in Drawing 2.

Ground-water samples were collected from each well associated with the Site this quarter. No irregularities were reported during sampling. Samples were submitted under chain-of-custody protocol to Calscience Environmental Laboratories, Inc. (Garden Grove, California), for analysis of Gasoline Range Organics (GRO, C6-12) by EPA Method 8015B; for Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX) by EPA Method 8260B; and Methyl Tert-Butyl Ether (MTBE), Ethyl Tert-Butyl Ether (ETBE), Tert-Amyl Methyl Ether (TAME), Di-Isopropyl Ether (DIPE), 1,2-Dibromomethane (EDB), 1,2-Dicholorethane (1,2-DCA), Tert-Butyl Alcohol (TBA) and Ethanol by EPA Method 8260B. No significant irregularities were encountered during laboratory analysis of the samples. Ground-water sampling field data sheets and the laboratory analytical report, including chain-of-custody documentation, are provided in Appendix A.

Concentrations of GRO were detected above the laboratory reporting limit in three of the six wells sampled at concentrations up to 1,300 micrograms per liter (μ g/L) in well MW-11A. MTBE was detected above the laboratory reporting limit in each of the six wells sampled at concentrations up to 620 μ g/L in well MW-12B. Benzene, Toluene, and Ethylbenzene were detected in well MW-11A at concentrations of 20 μ g/L, 17 μ g/L, and 25 μ g/L, respectively. TAME was detected above the laboratory reporting limit in two of the six wells sampled at concentrations of 6.1 μ g/L (MW-11A) and 5.1 μ g/L (MW-12B). The remaining fuel constituents were not detected above their laboratory reporting limits in the five wells sampled this quarter.

Laboratory analytical results are summarized in Table 1 and Table 2. The most recent GRO, Benzene, and MTBE concentrations are also presented in Drawing 2. Ground-water monitoring data (GEO_WELL) and laboratory analytical results (EDF) were uploaded to the GeoTracker AB2886 database. Upload confirmation receipts are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS:

Preliminary review of the vertical gradients documented between co-located well pairs after five rounds of monitoring appears to show an upward vertical gradient at MW-11A/MW-11B, a negligible vertical gradient at MW-13A/MW-13B, and downward vertical gradient at MW-12A/MW-12B. As was mentioned in the *Ground-Water Investigation and First Quarter 2009 Ground-Water Monitoring Report* (BAI, 4/30/2009), over-drilling of well MW-13A to 24 ft bgs, then partially backfilling with bentonite to 19 ft bgs, and constructing the well screen from 11.5-16.5 ft bgs was a variation from the planned scope of work. The validity of data distinguishing ground-water conditions between wells MW-13A and MW-13B is therefore suspect.

In accordance with the State Water Resources Control Board Resolution #2009-0042, BAI recommends subsequent gauging and sampling activities be modified to a semi-annual schedule, to take place during the first and third calendar quarters of the year. The next ground-water monitoring event would occur Third Quarter 2010.

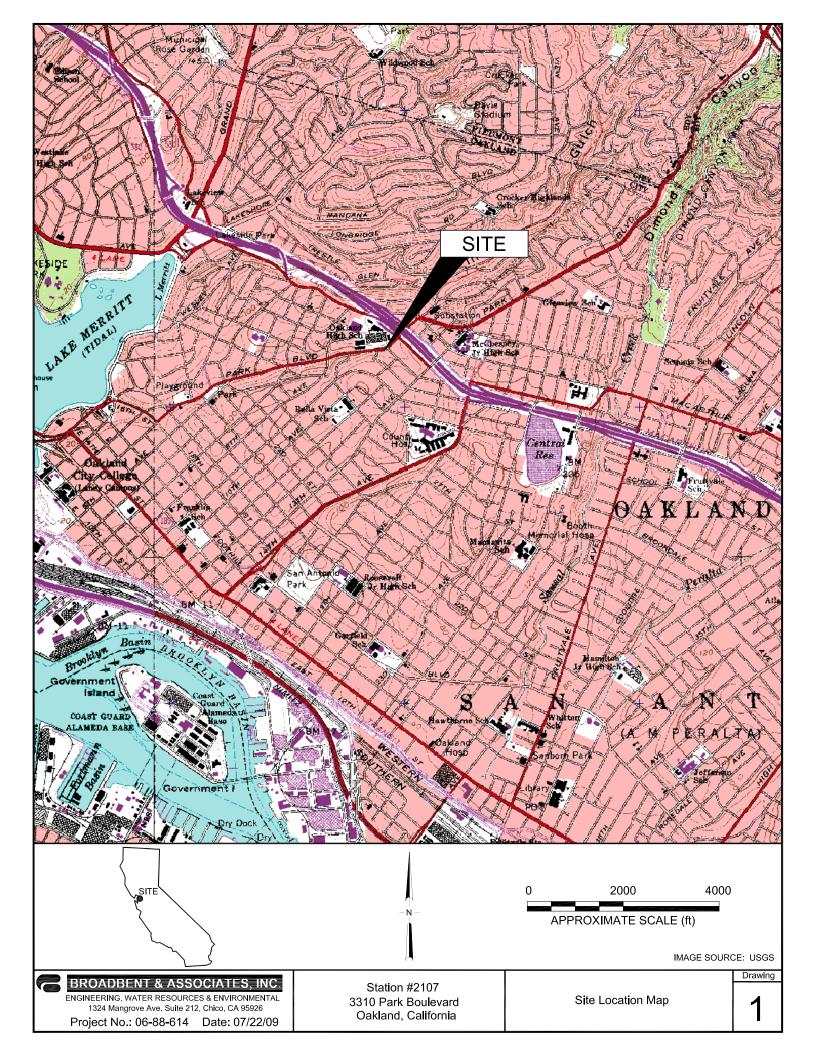
Page 3

CLOSURE:

The findings presented in this report are based upon: observations of Broadbent & Associates, Inc. and/or their subcontractors' personnel (see Appendix A), the points investigated, and results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California). Our services were performed in accordance with the generally accepted standard of practice at the time this report was written. No other warranty, expressed or implied was made. This report has been prepared for the exclusive use of Atlantic Richfield Company. It is possible that variations in soil or ground-water conditions could exist beyond points explored in this investigation. Also, changes in site conditions could occur in the future due to variations in rainfall, temperature, regional water usage, or other factors.

ATTACHMENTS:

- Drawing 1. Site Location Map, Station #2107, 3310 Park Boulevard, Oakland, California
- Drawing 2. Ground-Water Elevation Contour and Analytical Summary Map, 19 February 2010, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 2. Summary of Fuel Additives Analytical Data, Station #2107, 3310 Park Boulevard, Oakland, California
- Table 3. Historical Ground-Water Flow Direction and Gradient Data, Station #2107, 3310 Park Boulevard, Oakland, California
- Appendix A. BAI Ground-Water Sampling Data Package (Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report with Chain-of-Custody Documentation, and Field Procedures).
- Appendix B. GeoTracker Upload Confirmation Receipts



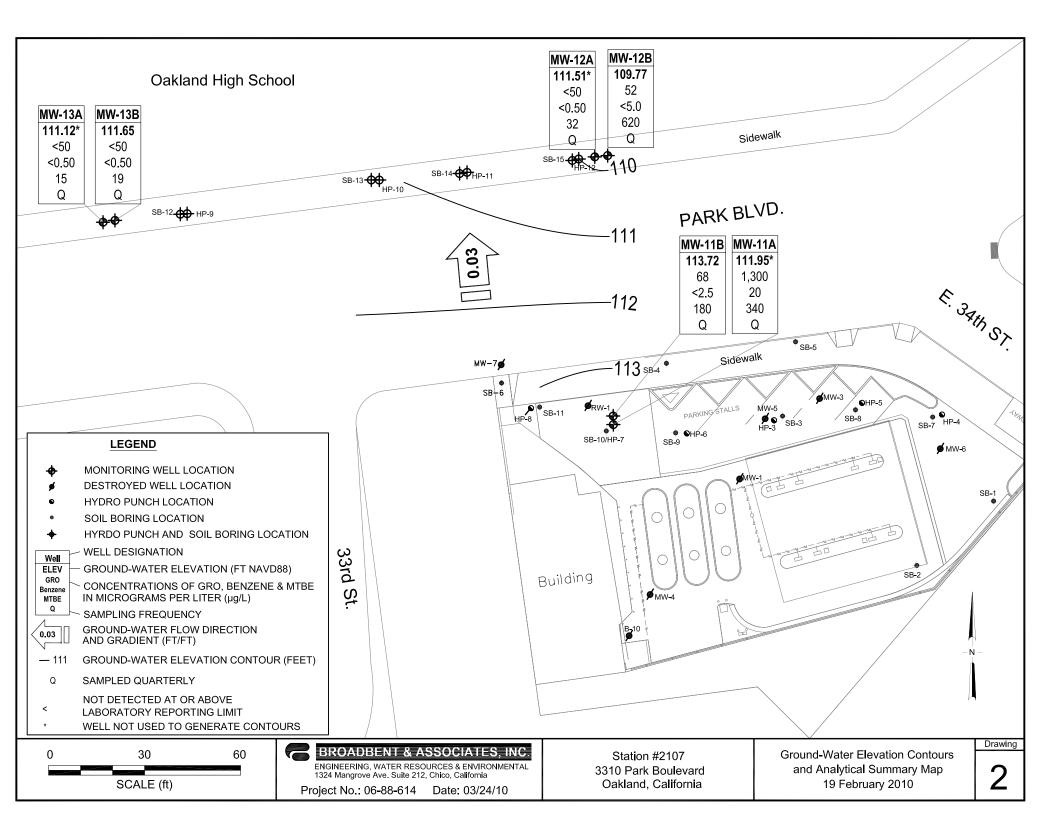


Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2107, 3310 Park Boulevard, Oakland, CA

| | | | Top of Bottom of Water Level Concentrations in (µg/L) | | | | | | | | | | | | |
|-------------|------|----------|---|----------|----------|--------|-----------|-------|---------|-----------|---------|---------|------|--------|-------|
| Well and | | | TOC | Screen | Screen | DTW | Elevation | GRO/ | | Concentra | Ethyl- | Total | | DO | |
| Sample Date | P/NP | Comments | (feet) | (ft bgs) | (ft bgs) | (feet) | (feet) | TPHg | Benzene | Toluene | Benzene | Xylenes | MTBE | (mg/L) | pН |
| MW-11A | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 120.85 | 16 | 20 | 12.41 | 108.44 | 1,000 | 1.5 | <1.0 | 13 | 4.8 | 60 | 9.20 | 12.74 |
| 6/18/2009 | P | a | 120.85 | 16 | 20 | 14.58 | 106.27 | 260 | 11 | < 5.0 | 6.8 | < 5.0 | 280 | | 9.83 |
| 9/1/2009 | P | | 120.85 | 16 | 20 | 8.75 | 112.10 | 1,400 | 28 | 20 | 61 | 6.7 | 340 | 1.40 | 7.84 |
| 11/11/2009 | | | 120.85 | 16 | 20 | 10.40 | 110.45 | | | | | | | 1.55 | 12.5 |
| 2/19/2010 | P | | 120.85 | 16 | 20 | 8.90 | 111.95 | 1,300 | 20 | 17 | 25 | <5.0 | 340 | 2.01 | 12.13 |
| MW-11B | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 121.31 | 26 | 30 | 7.33 | 113.98 | 280 | 1.3 | 1.3 | 7.6 | < 0.50 | 240 | 9.56 | 7.14 |
| 6/18/2009 | P | a | 121.31 | 26 | 30 | 7.38 | 113.93 | 130 | <5.0 | < 5.0 | < 5.0 | <5.0 | 200 | | 6.96 |
| 9/1/2009 | P | | 121.31 | 26 | 30 | 7.66 | 113.65 | 69 | <5.0 | < 5.0 | <5.0 | <5.0 | 210 | 1.01 | 7.01 |
| 11/11/2009 | P | | 121.31 | 26 | 30 | 7.70 | 113.61 | 55 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 200 | 0.38 | 6.7 |
| 2/19/2010 | P | | 121.31 | 26 | 30 | 7.59 | 113.72 | 68 | <2.5 | <2.5 | <2.5 | <2.5 | 180 | 2.38 | 7.44 |
| MW-12A | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 120.64 | 13 | 18 | 8.70 | 111.94 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 41 | 4.62 | 6.76 |
| 6/18/2009 | P | a | 120.64 | 13 | 18 | 8.58 | 112.06 | < 50 | <1.0 | <1.0 | <1.0 | <1.0 | 40 | | 7.92 |
| 9/1/2009 | P | | 120.64 | 13 | 18 | 9.21 | 111.43 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 39 | 1.06 | 6.97 |
| 11/11/2009 | P | | 120.64 | 13 | 18 | 9.15 | 111.49 | <50 | <1.0 | <1.0 | <1.0 | <1.0 | 41 | 0.51 | 6.2 |
| 2/19/2010 | P | | 120.64 | 13 | 18 | 9.13 | 111.51 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 32 | 0.38 | 6.58 |
| MW-12B | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 120.84 | 27 | 30 | 14.89 | 105.95 | <50 | < 0.50 | 0.55 | < 0.50 | < 0.50 | 150 | 5.87 | 7.74 |
| 6/18/2009 | P | a | 120.84 | 27 | 30 | 13.51 | 107.33 | 140 | <2.5 | <2.5 | <2.5 | <2.5 | 380 | | 8.60 |
| 9/1/2009 | P | | 120.84 | 27 | 30 | 9.54 | 111.30 | 89 | <10 | <10 | <10 | <10 | 460 | 0.99 | 6.88 |
| 11/11/2009 | P | | 120.84 | 27 | 30 | 11.53 | 109.31 | < 50 | < 5.0 | < 5.0 | < 5.0 | < 5.0 | 600 | 1.00 | 6.46 |
| 2/19/2010 | P | | 120.84 | 27 | 30 | 11.07 | 109.77 | 52 | <5.0 | <5.0 | <5.0 | <5.0 | 620 | 3.32 | 6.89 |
| MW-13A | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 114.55 | 11.5 | 16.5 | 9.53 | 105.02 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 13 | 9.39 | 7.64 |
| 6/18/2009 | P | a | 114.55 | 11.5 | 16.5 | 2.88 | 111.67 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 23 | | 7.21 |
| 9/1/2009 | P | | 114.55 | 11.5 | 16.5 | 3.31 | 111.24 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 34 | 0.96 | 6.90 |
| 11/11/2009 | P | | 114.55 | 11.5 | 16.5 | 3.66 | 110.89 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 21 | 1.79 | 6.5 |

Table 1. Summary of Ground-Water Monitoring Data: Relative Water Elevations and Laboratory Analyses
Station #2107, 3310 Park Boulevard, Oakland, CA

| | | | | Top of | Bottom of | | Water Level | Concentrations in (µg/L) | | | | | | | |
|-------------------------|------|----------|---------------|--------------------|--------------------|---------------|------------------|--------------------------|---------|---------|-------------------|------------------|------|--------------|------|
| Well and Sample Date | P/NP | Comments | TOC (feet) | Screen (ft bgs) | Screen (ft bgs) | DTW (feet) | Elevation (feet) | GRO/ TPHg | Benzene | Toluene | Ethyl- Benzene | Total Xylenes | МТВЕ | DO (mg/L) | pН |
| MW-13A Cont. | | | | | | | | | | | | | | | |
| 2/19/2010 | P | | 114.55 | 11.5 | 16.5 | 3.43 | 111.12 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 15 | 0.92 | 6.69 |
| MW-13B | | | | | | | | | | | | | | | |
| 3/9/2009 | P | | 114.75 | 18.5 | 22.5 | 2.96 | 111.79 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 13 | 8.44 | 6.99 |
| 6/18/2009 | P | a | 114.75 | 18.5 | 22.5 | 2.85 | 111.90 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 12 | | 6.92 |
| 9/1/2009 | P | | 114.75 | 18.5 | 22.5 | 3.36 | 111.39 | <50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 17 | 0.96 | 7.29 |
| 11/11/2009 | P | | 114.75 | 18.5 | 22.5 | 3.49 | 111.26 | < 50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | 21 | 2.45 | 6.39 |
| 2/19/2010 | P | | 114.75 | 18.5 | 22.5 | 3.10 | 111.65 | < 50 | <0.50 | <0.50 | <0.50 | <0.50 | 19 | 1.46 | 6.50 |

ABBREVIATIONS AND SYMBOLS:

--/--- Not measured/applicable/analyzed/sampled

 $\mu g/L = Micrograms per liter$

DO = Dissolved oxygen

DTW = Depth to water in ft below TOC

GRO = Gasoline range organics mg/L = Milligrams per liter

MTBE = Methyl tert butyl ether

< = Not detected at or above specified laboratory reporting limit

NP = Well not purged prior to sampling

P = Well purged prior to sampling

TOC = Top of casing in ft above NAVD88 datum

FOOTNOTES:

NOTES:

a = DO meter not working.

Values for DO and pH were obtained through field measurements.

Table 2. Summary of Fuel Additives Analytical Data Station #2107, 3310 Park Boulevard, Oakland, CA

| Well and | | | | Concentrati | | | | | |
|-------------|---------|------|------|-------------|--------|--------|---------|--------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-11A | | | | | | | | | |
| 3/9/2009 | | <20 | 60 | <1.0 | <1.0 | <1.0 | | | |
| 6/18/2009 | <3,000 | <100 | 280 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/1/2009 | <3,000 | <100 | 340 | <5.0 | <5.0 | 5.3 | <5.0 | < 5.0 | |
| 2/19/2010 | <3,000 | <100 | 340 | <5.0 | <5.0 | 6.1 | <5.0 | <5.0 | |
| MW-11B | | | | | | | | | |
| 3/9/2009 | | <10 | 240 | < 0.50 | < 0.50 | 3.1 | | | |
| 6/18/2009 | <3,000 | <100 | 200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 9/1/2009 | <3,000 | <100 | 210 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 11/11/2009 | <3,000 | <100 | 200 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 2/19/2010 | <1,500 | <50 | 180 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| MW-12A | | | | | | | | | |
| 3/9/2009 | | <10 | 41 | < 0.50 | < 0.50 | < 0.50 | | | |
| 6/18/2009 | <600 | <20 | 40 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/1/2009 | <300 | <10 | 39 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 11/11/2009 | <600 | <20 | 41 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 2/19/2010 | <300 | <10 | 32 | <0.50 | <0.50 | <0.50 | < 0.50 | < 0.50 | |
| MW-12B | | | | | | | | | |
| 3/9/2009 | | <10 | 150 | < 0.50 | < 0.50 | < 0.50 | | | |
| 6/18/2009 | <1,500 | <50 | 380 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 9/1/2009 | <6,000 | <200 | 460 | <10 | <10 | <10 | <10 | <10 | |
| 11/11/2009 | <3,000 | <100 | 600 | <5.0 | <5.0 | <5.0 | <5.0 | < 5.0 | |
| 2/19/2010 | <3,000 | <100 | 620 | <5.0 | <5.0 | 5.1 | <5.0 | <5.0 | |
| MW-13A | | | | | | | | | |
| 3/9/2009 | | <10 | 13 | < 0.50 | < 0.50 | < 0.50 | | | |
| 6/18/2009 | <300 | <10 | 23 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 9/1/2009 | <300 | <10 | 34 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 11/11/2009 | <300 | <10 | 21 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 2/19/2010 | <300 | <10 | 15 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| MW-13B | | | | | | | | | |

Table 2. Summary of Fuel Additives Analytical Data Station #2107, 3310 Park Boulevard, Oakland, CA

| Well and | | | | Concentration | ons in (µg/L) | | | | |
|--------------|---------|-----|------|---------------|---------------|--------|---------|--------|----------|
| Sample Date | Ethanol | TBA | MTBE | DIPE | ETBE | TAME | 1,2-DCA | EDB | Comments |
| MW-13B Cont. | | | | | | | | | |
| 3/9/2009 | | <10 | 13 | < 0.50 | < 0.50 | < 0.50 | | | |
| 6/18/2009 | <300 | <10 | 12 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 9/1/2009 | <300 | <10 | 17 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 11/11/2009 | <300 | <10 | 21 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| 2/19/2010 | <300 | <10 | 19 | <0.50 | <0.50 | <0.50 | <0.50 | < 0.50 | |

ABBREVIATIONS AND SYMBOLS:

-- = Not analyzed/applicable/measurable

< = Not detected above reported detection limit

1,2-DCA = 1,2-Dichloroethane

 μ g/L = Micrograms per Liter DIPE = Di-isopropyl ether EDB = 1, 2-Dibromoethane

ETBE = Ethyl tert-butyl ether

MTBE = Methyl tert-butyl ether
TAME = tert-Amyl methyl ether

TBA = tert-Butyl alcohol

FOOTNOTES:

NOTES:

All volatile organic compounds analyzed using EPA Method 8260B.

Table 3. Historical Ground-Water Flow Direction and Gradient Station #2107, 3310 Park Boulevard, Oakland, CA

| Date Sampled | Approximate Flow Direction | Approximate Hydraulic Gradient |
|--------------|----------------------------|--------------------------------|
| 3/9/2009 | Northeast | 0.06 |
| 6/18/2009 | Northeast | 0.06 |
| 9/1/2009 | North-Northwest | 0.03 |
| 11/11/2009 | North | 0.05 |
| 2/19/2010 | North | 0.03 |

APPENDIX A

BAI GROUND-WATER SAMPLING DATA PACKAGE

(Includes Field Data Sheets, Non-Hazardous Waste Data Form, Laboratory Analytical Report with Chain-Of-Custody Documentation, and Field Procedures)



| DAIL | Υ | REPORT |
|------|---|--------|
| Dage | | of 7 |

| Project: BP 2/0/ Project No.: 06.48.614 Field Representative(s): Etaria T. Geddes Day: Fliday Date: 2/19/10 |
|--|
| |
| |
| Time Onsite: From: To:; From: To:; From: To: |
| ✓ Signed HASP |
| Weather: 60's, Overcest |
| Equipment In Use: Samue truck, CBailes, OD metr, PH, cond prope, |
| Visitors: |
| C700 Depart for BP 2107 OGCO Arr BP 2107 - Heavy site traffic at this Time, decided to go do BP374 First departed Site for BP374 1170 Onsite BP2107 1415 @ office |
| Signature: |





DATE: 2/19/10
PERSONNEL: T. Golden E. Farrar
WEATHER: Ownest 50

PROJECT NO.: 06.88.614 COMMENTS:

Equip: Geosquirt Tubing Bailers

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Ec/pH

| | or any. | | | | | | | | | | | |
|---------|--------------|--------------------|--------------|----------------------|----|-----------------|----------------|--|--|-----|----------------|--|
| Well ID | Time | MEASURING POINT | DTW (FT) | PRODUCT THICKNESS | рН | Cond. (X100) | Temp. (C/F) | DO (mg/l) | Redox (mV) | | Alk. (mg/l) | WELL HEAD CONDITION: VAULT, BOLTS, CAP, LOCK, ETC |
| MW-1/A | 1044 | TOC | 8.90 7.59 | | | | | | | | | |
| MW-1/13 | 1045 | | 7.59 | | | - | | - | | | | |
| MW-12A | 1032 | | 9,13 | | | | | | | | | |
| MW-12B | 1133 | | 11107 | | | | | | | | | |
| MW-13A | 1215 | | 3.43 | | | | | | | | | |
| MW-1303 | 1214 | | 3.10 | | | | | | | | | |
| 100 170 | | | | | | | | | | | | |
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| Well I.D.: | The state of the s | | mw-1 | IA | | was: | | | | |
|---------------------------|--|---------|------------|--------------|---------------|------------------------|----------------------|--------------------|--|--|
| Project Na | | | BP 2 | 107_ | - | | Project a | #: 08-88-618 | | |
| Sampler's | | | Erform | · 1.6 | add-s | | Date: 0/ | 9/10 | | |
| Purging Ed | | nt: | Barr | • | | | | | | |
| Sampling | | | Baile | | | | | | | |
| Casing Ty | pe: PVC | | | | | | • | | | |
| Casing Dia | ameter: | | | | inch | | *UNIT CASING VOLUMES | | | |
| Total Well | Depth: | | | <u> 30</u> , | oo feet | | | = 0.16 gal/lin ft. | | |
| Depth to \ | Water: | | | - 6.9 | <u>0</u> feet | | | = 0.37 gal/lin ft. | | |
| Water Col | umn Th | ickness | | = | /feet | | | = 0.65 gal/lin ft. | | |
| Unit Casin | g Volun | ne*: | | x 0.1 | 6 gallon / f | oot | 6" | = 1.47 gal/lin ft. | | |
| Casing Wa | ater Volu | ume: | | = / | 7gaīlons | | | | | |
| Casing Vo | lume: | | | × | 3 each | | | | | |
| Estimated | Purge \ | √olume | <u> </u> | = 5, | 3gallons | | | | | |
| Free prod | uct mea | sureme | ent (if pr | esent): | | | | | | |
| Purged | Time | DO | ORP | Fe | Conductance | Temperature | pН | Observations | | |
| (gallons) | (24:00) | | (mV) | | (μS) | (Fahrenheit) | | | | |
| 0 | 1/64 | 7,01 | -197 | | 8711 | 633 | 12,13 | | | |
| 1.5 | 1106 | x | х | Х | 9383 | 63.6 | 12.13 | | | |
| | | Х | Х | Х | | | | | | |
| | | х | Х | X | | | | | | |
| | | × | X | Х | | | | | | |
| | | × | Х | Х | | | | | | |
| | | × | х | Х | | | | | | |
| | | х | Х | × | | | | | | |
| Total Wat | er Volur | ne Purc | led: | L | 2 | gallons | | <u> </u> | | |
| Depth to | | | | tion: | 9.05 | řeet | • | | | |
| Sample (| | | | | 1115 | | - | ged Dry? (N) | | |
| Sample | Jonecu | | · | | | | =v^} | | | |
| Comment | s: | | D.T. C | <u>5. 18</u> | 7.70 | | | | | |
| | | | | | | | | | | |
| | | | | | | 100 28 100 1 | | | | |
| contract particle for the | | | | | | | | | | |
| | | | | | 1 | | | | | |



| | | | mw-1 | 1B | | | | | | |
|------------|----------------------|----------|------------|--------------|-------------|--------------|--|--|--|--|
| Well I.D.: | | - | | | | | Project # | :06.88.618 | | |
| Project Na | | | BP 21 | | 115 | | Date: 2 | | | |
| Sampler's | | • | E.fali | 2 1.6 | 600.42 | | Date. 40 | | | |
| Purging Ed | | | | | | | | | | |
| Sampling | Equipme | ent: | | | | | | | | |
| Casing Typ | | | | 2 | | • | *!!NITT | CASING VOLUMES | | |
| Casing Dia | meter: | | | | - IIICII | | 2" = 0.16 gal/lin ft. | | | |
| Total Well | Depth: | | | 30 | | d | 2" = 0.16 gai/iin ft. 3" = 0.37 gai/iin ft. | | | |
| Depth to V | | | | - 42 | feet 7.5 | 7 | | = 0.65 gal/lin ft. | | |
| Water Col | | | | = 31. | feet | | | = 0.65 gal/lin ft. = 1.47 gal/lin ft. | | |
| Unit Casin | ig Volum | ne*: | | x <u>0.1</u> | | oot | 0 | = 1.47 yai/iii ic. | | |
| Casing Wa | ater Volu | ıme: | | =3.37 | | | | | | |
| Casing Vo | lume: | | | | each | | | | | |
| Estimated | | | | = 101 | <u>/</u> | | | | | |
| Free produ | uct mea | sureme | nt (if pro | esent): | | | | | | |
| Purged | Time | DO | ORP | Fe | Conductance | Temperature | pН | Observations | | |
| (gallons) | (24:00) | 035/ | (mV) | | (μS) | (Fahrenheit) | 5 | | | |
| 10 | 1048 | 238 | -17 | | 100.0 | 6 d. / | 1.0 | | | |
| 5 | 1053 | X | х | X | 695.9 | 62.6 | 6.66 | | | |
| 8 | 10154 | 125 | Х | Х | 857.8 | 65.2 | 8,20 | | | |
| 11 | 1401 | 1.59 | х | × | 7 98.3 | 65.3 | 7.44 | | | |
| | | X | х | X | | | | | | |
| | | х | Χ** | Х | | | | | | |
| | | × | х | Х | | | | | | |
| | | х | х | X | | | | | | |
| Total Wat | er Volur | ne Pura | ed: | L | 11 | gallons | | | | |
| Depth to | | | | tion: | 7.6 | | - | | | |
| Sample (| | | | | 11015 | | - Pur | ged Dry? (Y/N) | | |
| Jampie | | | | 6 | | | - 2. • | | | |
| Comment | ι s: ϱ | TB | 29,0 |) | · · | | | | | |
| | | | | | | | | | | |
| | | <u> </u> | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



| | | | MW-1 | λA | | | | | | | |
|------------|------------------------------------|---------|------------|----------------|-------------|--|-----------------------|--|--|--|--|
| Well I.D.: | | ٠. | | | | | Droject # | : 06.88-618 | | | |
| Project Na | | ation: | BP21 | - | c 11. | | Date: े | | | | |
| Sampler's | | | E. EI | X | 6e dd S | | Date: & | 777110 | | | |
| Purging E | quipmen | it: | <u>B~1</u> | 7 | | | | | | | |
| Sampling | Equipme | ent: | Bu | w | <u> </u> | | | | | | |
| Casing Ty | pe: PVC | | | 9 | | · · · · · · · · · · · · · · · · · · · | *UNIT CASING VOLUMES | | | | |
| Casing Dia | ameter: | | | · | inch | | 2" = 0.16 gal/lin ft. | | | | |
| Total Well | | | | | go feet | | | | | | |
| | Depth to Water: $-\frac{9.1}{8.5}$ | | | | | feet $3'' = 0.37 \text{ gal/lin ft.}$ feet $4'' = 0.65 \text{ gal/lin ft.}$ | | | | | |
| Water Col | | | | | | • • • • • • • • • • • • • • • • • • • | | = 0.65 gal/lin ft. = 1.47 gal/lin ft. | | | |
| Unit Casir | | | <u> </u> | x 0.1 | | oot | 0 | = 1.47 gai/iiii it. | | | |
| Casing Wa | Casing Water Volume: = 1.4 | | | | | | | | | | |
| Casing Vo | lume: | | | | 3 each | | | | | | |
| Estimated | | | | = 1/1. | gallons | | | | | | |
| Free prod | uct mea | sureme | nt (if pr | esent): | | | | | | | |
| Purged | Time | DO | ORP | Fe | Conductance | Temperature | рН | Observations | | | |
| (gallons) | (24:00) | -20 | (mV) | | (μ5) | (Fahrenheit) | cn | | | | |
| 0 | 1153 | 0.36 | -13 | | 755.7 | 65,2 | 6.72 | | | | |
| 2.5 | 1158 | х | Х | Х | 747.8 | 85.4 | 6.5 | | | | |
| 5 | 1200 | 0.98 | х | X | 745.8 | 64.6 | 6.81 | | | | |
| | | х | х | Х | | | | | | | |
| | | × | х | X · | | | | | | | |
| | | х | х | Х | | | | | | | |
| | | Х | х | X | | | | | | | |
| | | х | х | × | | | | | | | |
| Total Wat | er Volur | ne Pura | ed: | | S | gallons | | | | | |
| Depth to | | | | tion: | 10.00 | | | and the second | | | |
| Sample | | | | | 1700 | . , | - | ged Dry? (Y | | | |
| Sample | Conecu | O., | c. Za | - ∑ | - 666 | | • | | | | |
| Comment | s: | | U | 13. | 17-88 | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 1 | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | 2865 | | | | | | |

| W-11 T D : | | | MW-1 | 2B | | | | | |
|--------------------------|----------|---------|---------------------------------------|----------|--------------------------|--------------|--------------|-----------|--|
| Well I.D.: | | _ | BP2 | | | | | Project # | : Of 88. 818 |
| Project Na | | ation | E. Far | | T | Gedda | | Date: 2 | 119/10 |
| Sampler's | | | _ | | ••• | o ever-5 | | | |
| Purging Eq | | | Baile | | | | | | |
| Sampling I | | enc: | 04.40 | | | | , a | | |
| Casing Typ | | | | า | | inch | 7. | *UNIT | CASING VOLUMES |
| Casing Dia | | | | 30. | <u>-</u> | feet | | | = 0.16 gal/lin ft. |
| Total Well | | | | | | reet feet | | | = 0.37 gal/lin ft. |
| Depth to V | | | · · · · · · · · · · · · · · · · · · · | | .93 | | | | = 0.65 gal/lin ft. |
| Water Colu | | | | <i>U</i> | | feet | n a t | | = 1.47 gal/lin ft. |
| Unit Casin | | | | x _Q' | | gallon / fo | | U | - 1.47 gayiii ic. |
| Casing Wa | | ıme: | | =2 | 2.0 | gailons | | | |
| Casing Vo | | | | X | 3 | each | | | |
| Estimated | | | | - | 0 | gallons | | | |
| Free produ | ıct mea | sureme | nt (if pr | esent): | | | | | |
| Purged | Time | DO | ORP | Fe | C | onductance | Temperature | pН | Observations |
| (gallons) | (24:00) | | (mV) | | + | (μS) | (Fahrenheit) | 7. | |
| <i>i</i> D. | 1177 | >.~} | 17 | | 1 | 192 | G. \$ | 7.66 | |
| #3.5 | ((L) BA | Х | Х | X | 1 | 109 | 66-2 | 6,90 | |
| 4,5 | 1149 | 2.79 | х | × | 17 | 107 | 66.6 | 6.89 | |
| | | Х | х | X | | | | | |
| | | X | х | X | | | | | |
| | | X | Х | х | 1 | | | | |
| | | × | × | Х | † · | | | | and the second s |
| | | х | x | x | † | | | | |
| Tatal Wate | or Volum | no Pura | eq. | L | | 4.5 | gallons | L | |
| Total Wate Depth to \ | | | | tion: | | - II.12 | | • | |
| - | | | | CiOii. | | 1152 | | - | ged Dry? (Y)/N) |
| Sample C | onectio | on Hime | e: | 2 | | | | | ged 5.17. (1)/ 1.17 |
| Comment | s: | 1 | Dt.U. | 30 | ,2\ | | | | |
| | • | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | : : | and the same of the same | | | | |



| Well I.D.: | | | mw- | BA | | | | | |
|-------------|-----------|-------------|-----------|----------|-------------|--------------|----------------------|--------------------|--|
| Project Na | me/Loc | ation: | BPZ | | | | Project #: 06.98.6/8 | | |
| Sampler's | | | Eifall | or I. | Gedd 3 | | Date: ス | 19110 | |
| Purging Ed | | ¥.5 | Brito | | | | | | |
| Sampling | | | Brito | | | | | | |
| Casing Ty | pe: PVC | | | ^ | | | | | |
| Casing Dia | meter: | | | <u> </u> | inch | | | CASING VOLUMES | |
| Total Well | Depth: | | | 16.5 | | | | = 0.16 gal/lin ft. | |
| Depth to \ | Nater: | | | - 3,2 | feet | | | = 0.37 gal/lin ft. | |
| Water Col | umn Thi | ckness: | | | feet | | | = 0.65 gal/lin ft. | |
| Unit Casin | g Volum | ne*: | | x 0.16 | gallon / f | oot | 6" | = 1.47 gal/lin ft. | |
| Casing Wa | ater Volu | ıme: | | = 2.0 | 9 gailons | | | | |
| Casing Vo | lume: | | | × | 3each | | | | |
| Estimated | Purge \ | /olume: | | = 4.7 | 2gallons | | | | |
| Free prod | uct mea | sureme | nt (if pr | esent): | | | | | |
| Purged | Time | DO | ORP | Fe | Conductance | Temperature | pН | Observations | |
| (gallons) | (24:00) | | (mV) | | (μS) | (Fahrenheit) | | | |
| 6 00 | 1230 | .92 | 66 | | 1011 | 63-6 | 6.52 | | |
| 3 | Q33 | x | Х | Х | 1012 | 65.4 | 6.53 | | |
| 3.5 | (355 | 3.×21 | х | X | 1033 | 65.5 | 6.69 | Dry | |
| | | Х | х | Х | | | | | |
| | | х | х | Х | | | | | |
| | | Х | Х | х | | | | | |
| | | × | х | × | | | - | | |
| | | х | × | х | | | | | |
| Total Wat | er Volur | ne Pura | ed: | I | 3.5 | gallons | <u> </u> | | |
| Depth to | | | | tion: | 3.58 | feet | _ | | |
| Sample (| | | | | 1240 | | Pur | ged Dry? (Y)N) | |
| Jumpio | | <u>- ال</u> | | 1 | 7 | | - | | |
| Comment | s: | 1/1/- | <u> </u> | 6.5 | 7 | | · · | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| <u> </u> | | | | | | | | | |
| | | | | | | | | | |



| Well I.D.: | | | MW- | 13 | \mathcal{B} | | | : Ja | 1 | |
|-------------|----------|------------------|----------|----------|---------------|-------------|-------------|----------------------------------|-----------|--------------------|
| Project Na | me/Loca | ation. | BP210 | | | | 4 | | Project # | :06-88.618 |
| Sampler's | | | Eiferen | | T | heclo | les | | Date: ユ | 119110 |
| Purging Ed | | | Baile | | | 7, 10,10 | 4 | | **** | |
| Sampling Lo | | ent: | Ba. Ze | _ | - | | 1 | | | |
| Casing Ty | | | | | $\widehat{}$ | | | | | |
| Casing 17 | | | | | 2 | | inch | | *UNIT | CASING VOLUMES |
| Total Well | | | | - | 39.5 | 50 | feet | | 2" | = 0.16 gal/lin ft. |
| Depth to \ | | | | | 3,10 | | feet | | 3" | = 0.37 gal/lin ft. |
| Water Col | | ckness: | ; | = | 19,0 | 1 | feet | | 4" | = 0.65 gal/lin ft. |
| Unit Casin | | | | x | 0.1 | 6 | gallon / fo | oot | 6" | = 1.47 gal/lin ft. |
| Casing Wa | | | | = | 3.1 | Ò | gailons | | | |
| Casing Vo | | | | × | | 3 | each | | | |
| Estimated | | /olume: | | = . | 9.3 | 1 | gallons | | | |
| Free prod | | | | ese | ent): | | | | | |
| Purged | Time | DO | ORP | | Fe | Con | ductance | Temperature | pН | Observations |
| (gallons) | (24:00) | | (mV) | | 9 | | (μS) | (Fahrenheit) | | |
| 0 | 1221 | 1,46 | 51 | | | 160 | 35 | 61.8 | 6.67 | O streets |
| 5 | 325 | X | х | | X | 10 | 40 | 65.5 | 6.70 | |
| 10 | 1231 | 1. x | × | | X | 10 | 35 | 66.5 | 6.50 | |
| | | Х | Х | | х | 9 |). (8) | | | |
| | | × | X | | X | i. | | | | |
| | | × | X | - | X | 8 | | | | |
| | | X | X | - | х | | is | | | |
| | | | ^_ | \vdash | | | · · | 2. | | |
| | | Х | × | | × | W. | | | 5 1 | |
| Total Wat | er Volur | ne Purg | ed: | | | | 10 | gallons | - 1 | |
| Depth to | Water a | t Sampl | e Collec | tio | n: | | 3. 2 0 | feet | • | |
| Sample (| | | | | | | 1235 | | Pur | ged Dry?(Y/N) |
| | T | ρ_{λ} | 1.70 | | | | | | | |
| Comment | <u> </u> | <u> </u> | / / - | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | n de la servició La servición | | |
| | | 1 | | | | | | | | pt ⊗ |
| | | | | | | | | | | |

NON-HAZARDOUS WASTE DATA FORM

| | | | | 1. BES | SI# | | | | | |
|------------|--|-------------------------|---|------------------------|-------------|-------------------------------|-------------------|-------------|------------|--------------|
| | 2. Generator's Name and Mailing Address BP WEST COAST PRODUCTS, LLC P.O. BOX 80249 RANCHO SANTA MARGARITA, CA 92688 | 3 | Generator's Site Ad BP 3310 OALL | | | | | | | |
| | Generator's Phone: (949) 460-5200 | COMPANY OF STREET | 24-HOL | IR EME | RGEN(| CY PHON | IE: (94 | 9) 699-3 | 706 | |
| 304. | 3. Transporter 1 Company Name | | | | | ^{one #} 530) 566- | 4400 | | | |
| | Broadbent & Associates, Inc. 4. Transporter 2 Company Name | | | | | one # | - 1400 | | | |
| | Gomes Excavating | | | | | 707) 374- | -2881 | | | |
| | 5. Designated Facility Name and Site Address INTRAT, INC. 1105 AIRPORT RD #C RIO VISTA, CA 94571 | | | | | ^{one #} 530) 753- | -1829 | | | |
| Ä | Waste Shipping Name and Description | | | 7. Cont | ainers Type | 8. Total Quantity | 9. Unit Wt/Vol | 10. P | ofile No. | |
| GENERATOR | A. NON-HAZARDOUS WATER | | | 4 | TT | 36 | G | | | |
| GENE | В. | | | | | | | | | |
| | C. | | | | | | | | | |
| | D. | | | | | | | | | |
| | 11. Special Handling Instructions and Additional Information WEAR ALL APPROPRIATE PROTECTIVE CI WELL PURGING / DECON WATER | LOTHING | | | | | | | | |
| *: | 12. GENERATOR'S CERTIFICATION: I certify the materials described above or | n this data form are no | n-hazardous. | | | | | | | |
| | Generator's/Offeror's Printed/Typed Name Eric Farrey | Signature | | 2~ | | | | Month 2 | Day | Year |
| Œ | 13. Transporter Acknowledgment of Receipt of Materials | | AND | Processors of the Con- | | | | | | |
|)RTE | Transporter 1 Printed/Typed Name Cra Transporter 2 Printed/Typed Name | Signature Signature | ニマ | | | | | Month Month | Day Day | Year 10 Year |
| TRANSPORTE | The second of th | - gradie | | | | | | | | |
| | | | | | | | | | | |
| FACILITY | 14. Designated Facility Owner or Operator: Certification of receipt of materials Printed/Typed Name | Signature | orm. | | | | | Month | Day | Year |





March 09, 2010

Tom Venus Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Subject: Calscience Work Order No.: 10-02-1922

Client Reference: BP 2107

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 2/24/2010 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental

Laboratories, Inc.

Richard Villafania

Richard Veller

Project Manager

CA-ELAP I

NELAP ID: 03220CA

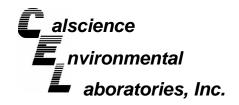
CSDLAC ID: 10109

SCAQMD ID: 93LA0830

7440 Lincoln Way, Garden Grove, CA 92841-1427 ·

TEL:(714) 895-5494 ·

FAX: (714) 894-7501





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: 02/24/10 10-02-1922 EPA 5030B EPA 8015B (M)

Project: BP 2107

Page 1 of 2

| Project. BP 2107 | | | | | | | Го | age i oi z |
|----------------------------------|---------------|----------------------|------------------------|-------------|--------------|------------------|-----------------------|-------------|
| Client Sample Number | | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
| MW-11A | | 10-02-1922-1-E | 02/19/10 11:15 | Aqueous | GC 11 | 02/25/10 | 02/25/10 23:45 | 100225B01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | 1300 | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | <u>Qual</u> | | | | |
| 1,4-Bromofluorobenzene | 110 | 38-134 | | | | | | |
| MW-11B | | 10-02-1922-2-E | 02/19/10 11:05 | Aqueous | GC 11 | 02/25/10 | 02/26/10 00:19 | 100225B01 |
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | 68 | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 92 | 38-134 | | | | | | |
| MW-12A | | 10-02-1922-3-E | 02/19/10 12:02 | Aqueous | GC 11 | 02/25/10 | 02/25/10 21:30 | 100225B01 |
| <u>Parameter</u> | <u>Result</u> | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | ND | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 90 | 38-134 | | | | | | |
| MW-12B | | 10-02-1922-4-E | 02/19/10 11:52 | Aqueous | GC 11 | 02/25/10 | 02/26/10 00:53 | 100225B01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | 52 | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 94 | 38-134 | | | | | | |
| | | | | | | | | |

RL - Reporting Limit

DF - Dilution Factor ,

Qual - Qualifiers



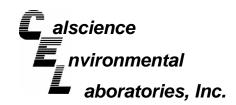


Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Date Received: Work Order No: Preparation: Method:

02/24/10 10-02-1922 EPA 5030B EPA 8015B (M)

| Project: BP 2107 | | | | | | | Pa | ige 2 of 2 |
|----------------------------------|---------|----------------------|------------------------|-------------|--------------|------------------|-----------------------|-------------|
| Client Sample Number | | Lab Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/Time Analyzed | QC Batch ID |
| MW-13A | | 10-02-1922-5-E | 02/19/10 12:40 | Aqueous | GC 11 | 02/25/10 | 02/26/10 01:27 | 100225B01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | ND | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 92 | 38-134 | | | | | | |
| MW-13B | | 10-02-1922-6-E | 02/19/10 12:35 | Aqueous | GC 11 | 02/25/10 | 02/26/10 02:00 | 100225B01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | ND | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 92 | 38-134 | | | | | | |
| Method Blank | | 099-12-695-763 | N/A | Aqueous | GC 11 | 02/25/10 | 02/25/10 19:15 | 100225B01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Units</u> | | | |
| Gasoline Range Organics (C6-C12) | ND | 50 | 1 | | ug/L | | | |
| Surrogates: | REC (%) | Control Limits | | Qual | | | | |
| 1,4-Bromofluorobenzene | 90 | 38-134 | | | | | | |





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received:
Work Order No:
Preparation:
Method:
Units:

10-02-1922 EPA 5030B EPA 8260B ug/L

02/24/10

Project: BP 2107

Page 1 of 3

| Project: BP 2107 | | | | | | | | | | Ра | ge 1 of 3 |
|-----------------------|---------|-------------------|------------|--------------------|------------------------------|-----------------|------------|------------------|-------------------|-----------|-------------|
| Client Sample Number | | | | b Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/\ Analy | | QC Batch ID |
| MW-11A | | | 10-02-1 | 1922-1-B | 02/19/10 11:15 | Aqueous | GC/MS BB | 03/02/10 | 03/02 13:4 | | 100302L01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | Qual | <u>Parameter</u> | | | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> |
| Benzene | 20 | 5.0 | 10 | | Methyl-t-Buty | l Ether (MTB | BE) | 340 | 5.0 | 10 | |
| 1,2-Dibromoethane | ND | 5.0 | 10 | | Tert-Butyl Alc | • | , | ND | 100 | 10 | |
| 1,2-Dichloroethane | ND | 5.0 | 10 | | Diisopropyl E | ther (DIPE) | | ND | 5.0 | 10 | |
| Ethylbenzene | 25 | 5.0 | 10 | | Ethyl-t-Butyl I | Ether (ETBE |) | ND | 5.0 | 10 | |
| Toluene | 17 | 5.0 | 10 | | Tert-Amyl-Me | ethyl Ether (T | AME) | 6.1 | 5.0 | 10 | |
| Xylenes (total) | ND | 5.0 | 10 | | Ethanol | | | ND | 3000 | 10 | |
| Surrogates: | REC (%) | Control Limits | <u>Qua</u> | <u>ıl</u> | Surrogates: | | | REC (%) | Control Limits | <u>(</u> | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 101 | 80-128 | | | Dibromofluore | omethane | | 105 | 80-127 | | |
| Toluene-d8 | 92 | 80-120 | | | 1,4-Bromoflu | orobenzene | | 96 | 68-120 | | |
| MW-11B | | | 10-02-1 | 1922-2-C | 02/19/10 11:05 | Aqueous | GC/MS O | 03/03/10 | 03/03 19:4 | | 100303L01 |
| Parameter Parameter | Result | RL | DF | Qual | Parameter | | | Result | RL | DF | <u>Qual</u> |
| Benzene | ND | 2.5 | 5 | ' <u></u> | Methyl-t-Buty | l Ether (MTR | (F) | 180 | 2.5 | 5 | |
| 1,2-Dibromoethane | ND | 2.5 | 5 | | Tert-Butyl Alc | | ,L) | ND | 50 | 5 | |
| 1,2-Dichloroethane | ND | 2.5 | 5 | | Diisopropyl E | | | ND | 2.5 | 5 | |
| Ethylbenzene | ND | 2.5 | 5 | | Ethyl-t-Butyl I | , |) | ND | 2.5 | 5 | |
| Toluene | ND | 2.5 | 5 | | Tert-Amyl-Me | , | , | ND | 2.5 | 5 | |
| Xylenes (total) | ND | 2.5 | 5 | | Ethanol | , , , | , | ND | 1500 | 5 | |
| Surrogates: | REC (%) | Control Limits | Qua | <u>al</u> | Surrogates: | | | REC (%) | | <u>(</u> | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 111 | 80-128 | | | Dibromofluor | omethane | | 108 | 80-127 | | |
| Toluene-d8 | 93 | 80-120 | | | 1,4-Bromoflu | | | 87 | 68-120 | | |
| MW-12A | | | 10-02-1 | 1922-3-B | 02/19/10 12:02 | | GC/MS BB | 03/02/10 | 03/02 14:4 | | 100302L01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | Qual | <u>Parameter</u> | | | Result | <u>RL</u> | <u>DF</u> | Qual |
| Benzene | ND | 0.50 | 1 | | Methyl-t-Buty | l Ether (MTB | BE) | 32 | 0.50 | 1 | |
| 1,2-Dibromoethane | ND | 0.50 | 1 | | Tert-Butyl Ald | , | , | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl E | , , | | ND | 0.50 | 1 | |
| Ethylbenzene | ND | 0.50 | 1 | | Ethyl-t-Butyl I | ` , |) | ND | 0.50 | 1 | |
| Toluene | ND | 0.50 | 1 | | Tert-Amyl-Me | | , | ND | 0.50 | 1 | |
| Xylenes (total) | ND | 0.50 | 1 | | Ethanol | · | • | ND | 300 | 1 | |
| Surrogates: | REC (%) | Control Limits | Qua | <u>al</u> | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 98 | 80-128 | | | Dibromofluor | omethane | | 97 | 80-127 | | |
| Toluene-d8 | 90 | 80-120 | | | 1.4-Bromoflu | | | 94 | 68-120 | | |
| i diadilo ad | 30 | 30 120 | | | 1, 1 -51011101101 | OI ODOI IZEI IE | | J. | 30 120 | | |

DF - Dilution Factor , C

Qual - Qualifiers





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received:
Work Order No:
Preparation:
Method:
Units:

10-02-1922 EPA 5030B EPA 8260B ug/L

02/24/10

Project: BP 2107

Page 2 of 3

| | | | | | | | | | | . ٠. | JO 2 01 0 |
|-----------------------|------------------------|-------------------|-------------|---------------|------------------------|--------------|------------|------------------|-------------------|-----------|-------------|
| Client Sample Number | | | | ample nber | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/ Analy | | QC Batch ID |
| MW-12B | | | 10-02-192 | 2-4-B | 02/19/10 11:52 | Aqueous | GC/MS BB | 03/02/10 | 03/02 15:0 | | 100302L01 |
| <u>Parameter</u> | Result F | <u> </u> | DF Q | <u>ual</u> | <u>Parameter</u> | | | Result | <u>RL</u> | <u>DF</u> | Qual |
| Benzene | ND | 5.0 | 10 | | Methyl-t-Buty | l Ether (MTB | E) | 620 | 10 | 20 | |
| 1,2-Dibromoethane | ND | 5.0 | 10 | | Tert-Butyl Alc | • | , | ND | 100 | 10 | |
| 1,2-Dichloroethane | ND | 5.0 | 10 | | Diisopropyl E | , , | | ND | 5.0 | 10 | |
| Ethylbenzene | ND | 5.0 | 10 | | Ethyl-t-Butyl E | Ether (ETBE) |) | ND | 5.0 | 10 | |
| Toluene | ND | 5.0 | 10 | | Tert-Amyl-Me | ` ' | · | 5.1 | 5.0 | 10 | |
| Xylenes (total) | ND | 5.0 | 10 | | Ethanol | , , , , | , | ND | 3000 | 10 | |
| Surrogates: | | Control Limits | Qual | | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | <u>tual</u> |
| 1,2-Dichloroethane-d4 | 99 8 | 30-128 | | | Dibromofluoro | omethane | | 100 | 80-127 | | |
| Toluene-d8 | 107 8 | 30-120 | | | 1,4-Bromoflu | orobenzene | | 94 | 68-120 | | |
| MW-13A | | | 10-02-192 | 2-5-C | 02/19/10 12:40 | Aqueous | GC/MS BB | 03/02/10 | 03/02 15:3 | | 100302L01 |
| <u>Parameter</u> | <u>Result</u> <u>F</u> | <u> </u> | DF Q | <u>ual</u> | Parameter | | | Result | <u>RL</u> | DF | Qual |
| Benzene | ND | 0.50 | 1 | | Methyl-t-Buty | l Ether (MTB | E) | 15 | 0.50 | 1 | |
| 1,2-Dibromoethane | ND | 0.50 | 1 | | Tert-Butyl Alc | , | , | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl E | , , | | ND | 0.50 | 1 | |
| Ethylbenzene | ND | 0.50 | 1 | | Ethyl-t-Butyl E | ` , |) | ND | 0.50 | 1 | |
| Toluene | ND | 0.50 | 1 | | Tert-Amyl-Me | ` ' | · | ND | 0.50 | 1 | |
| Xylenes (total) | ND | 0.50 | 1 | | Ethanol | ` | , | ND | 300 | 1 | |
| Surrogates: | | Control Limits | <u>Qual</u> | | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | tual |
| 1,2-Dichloroethane-d4 | _ | 30-128 | | | Dibromofluoro | nmethane | | 99 | 80-127 | | |
| Toluene-d8 | | 30-120 | | | 1,4-Bromoflu | | | 94 | 68-120 | | |
| MW-13B | | | 10-02-192 | 2-6-B | 02/19/10 12:35 | | GC/MS BB | | 03/02 | | 100302L01 |
| <u>Parameter</u> | Result F | <u>RL</u> | DF Q | <u>ual</u> | <u>Parameter</u> | | | Result | <u>RL</u> | <u>DF</u> | Qual |
| Benzene | ND | 0.50 | 1 | | Methyl-t-Buty | l Ether (MTB | E) | 19 | 0.50 | 1 | |
| 1,2-Dibromoethane | ND | 0.50 | 1 | | Tert-Butyl Alc | • | • | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl E | | | ND | 0.50 | 1 | |
| Ethylbenzene | ND | 0.50 | 1 | | Ethyl-t-Butyl E | |) | ND | 0.50 | 1 | |
| Toluene | ND | 0.50 | 1 | | Tert-Amyl-Me | ` ' | · | ND | 0.50 | 1 | |
| Xylenes (total) | ND | 0.50 | 1 | | Ethanol | - \ | , | ND | 300 | 1 | |
| Surrogates: | <u>REC (%)</u> C | Control Limits | Qual | | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | tual |
| 1,2-Dichloroethane-d4 | _ | 30-128 | | | Dibromofluoro | nmethane | | 100 | 80-127 | | |
| • | _ | 30-120 | | | | | | 95 | 68-120 | | |
| Toluene-d8 | 109 8 | 00-120 | | | 1,4-Bromoflu | DIODENZENE | | 30 | 00-120 | | |
| | | | | | | | | | | | |



DF - Dilution Factor ,

Qual - Qualifiers





Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: Units:

10-02-1922 EPA 5030B EPA 8260B ug/L

02/24/10

Project: BP 2107

Page 3 of 3

| Client Sample Number | | | | b Sample Number | Date/Time Collected | Matrix | Instrument | Date Prepared | Date/\ Analy | | QC Batch ID |
|-----------------------|---------|-------------------|------------|--------------------|------------------------|----------------|------------|------------------|-------------------|-----------|-------------|
| Method Blank | | | 099-12 | -703-1,250 | N/A | Aqueous | GC/MS BB | 03/02/10 | 03/02 11: | | 100302L01 |
| <u>Parameter</u> | Result | <u>RL</u> | <u>DF</u> | <u>Qual</u> | <u>Parameter</u> | | | Result | <u>RL</u> | <u>DF</u> | Qual |
| Benzene | ND | 0.50 | 1 | | Methyl-t-Buty | l Ether (MTE | BE) | ND | 0.50 | 1 | |
| 1,2-Dibromoethane | ND | 0.50 | 1 | | Tert-Butyl Ald | cohol (TBA) | | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl E | ther (DIPE) | | ND | 0.50 | 1 | |
| Ethylbenzene | ND | 0.50 | 1 | | Ethyl-t-Butyl | Ether (ETBE |) | ND | 0.50 | 1 | |
| Toluene | ND | 0.50 | 1 | | Tert-Amyl-Me | ethyl Ether (T | AME) | ND | 0.50 | 1 | |
| Xylenes (total) | ND | 0.50 | 1 | | Ethanol | | | ND | 300 | 1 | |
| Surrogates: | REC (%) | Control Limits | Qua | <u>al</u> | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 93 | 80-128 | | | Dibromofluor | omethane | | 101 | 80-127 | | |
| Toluene-d8 | 91 | 80-120 | | | 1,4-Bromoflu | orobenzene | | 95 | 68-120 | | |
| Method Blank | | | 099-12 | -703-1,251 | N/A | Aqueous | GC/MS O | 03/03/10 | 03/03 16:4 | | 100303L01 |
| <u>Parameter</u> | Result | RL | DF | Qual | Parameter | | | Result | RL | DF | Qual |
| Benzene | ND | 0.50 | 1 | | Methyl-t-Buty | l Ether (MTE | BE) | ND | 0.50 | 1 | |
| 1,2-Dibromoethane | ND | 0.50 | 1 | | Tert-Butyl Ald | , | -/ | ND | 10 | 1 | |
| 1,2-Dichloroethane | ND | 0.50 | 1 | | Diisopropyl E | ther (DIPE) | | ND | 0.50 | 1 | |
| Ethylbenzene | ND | 0.50 | 1 | | Ethyl-t-Butyl | Ether (ETBE |) | ND | 0.50 | 1 | |
| Toluene | ND | 0.50 | 1 | | Tert-Amyl-Me | ethyl Ether (T | AME) | ND | 0.50 | 1 | |
| Xylenes (total) | ND | 0.50 | 1 | | Ethanol | | | ND | 300 | 1 | |
| Surrogates: | REC (%) | Control Limits | <u>Qua</u> | <u>al</u> | Surrogates: | | | REC (%) | Control Limits | <u>C</u> | <u>Qual</u> |
| 1,2-Dichloroethane-d4 | 109 | 80-128 | | | Dibromofluor | omethane | | 105 | 80-127 | | |
| Toluene-d8 | 96 | 80-120 | | | 1,4-Bromoflu | orobenzene | | 88 | 68-120 | | |



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Date Received: Work Order No: Preparation: Method: 02/24/10 10-02-1922 EPA 5030B EPA 8015B (M)

Project BP 2107

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | | Date Analyzed | MS/MSD Batch Number |
|----------------------------------|---------|------------|------------------|------------|------------------|------------------------|
| MW-12A | Aqueous | GC 11 | 02/25/10 | | 02/25/10 | 100225S02 |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | <u>RPD</u> | RPD CL | Qualifiers |
| Gasoline Range Organics (C6-C12) | 101 | 103 | 38-134 | 2 | 0-25 | |

Mulling.

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642

Date Received: Work Order No: Preparation: Method: 02/24/10 10-02-1922 EPA 5030B EPA 8260B

Project BP 2107

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | | Date Analyzed | MS/MSD Batch Number |
|-------------------------------|---------|------------|------------------|------------|------------------|------------------------|
| 10-03-0071-1 | Aqueous | GC/MS BB | 03/02/10 | | 03/02/10 | 100302S01 |
| | | | | | | · |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | <u>RPD</u> | RPD CL | <u>Qualifiers</u> |
| Benzene | 101 | 103 | 76-124 | 2 | 0-20 | |
| Carbon Tetrachloride | 87 | 90 | 74-134 | 3 | 0-20 | |
| Chlorobenzene | 98 | 101 | 80-120 | 3 | 0-20 | |
| 1,2-Dibromoethane | 91 | 96 | 80-120 | 6 | 0-20 | |
| 1,2-Dichlorobenzene | 94 | 100 | 80-120 | 6 | 0-20 | |
| 1,1-Dichloroethene | 97 | 106 | 73-127 | 9 | 0-20 | |
| Ethylbenzene | 97 | 100 | 78-126 | 3 | 0-20 | |
| Toluene | 106 | 92 | 80-120 | 15 | 0-20 | |
| Trichloroethene | 90 | 94 | 77-120 | 4 | 0-20 | |
| Vinyl Chloride | 102 | 98 | 72-126 | 4 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 97 | 100 | 67-121 | 3 | 0-49 | |
| Tert-Butyl Alcohol (TBA) | 101 | 111 | 36-162 | 9 | 0-30 | |
| Diisopropyl Ether (DIPE) | 102 | 103 | 60-138 | 1 | 0-45 | |
| Ethyl-t-Butyl Ether (ETBE) | 100 | 103 | 69-123 | 3 | 0-30 | |
| Tert-Amyl-Methyl Ether (TAME) | 94 | 97 | 65-120 | 2 | 0-20 | |
| Ethanol | 116 | 136 | 30-180 | 16 | 0-72 | |

MMM_



Quality Control - Spike/Spike Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: 02/24/10 10-02-1922 EPA 5030B EPA 8260B

Project BP 2107

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | | Date Analyzed | MS/MSD Batch Number |
|-------------------------------|---------|------------|------------------|-----|------------------|------------------------|
| 10-02-2014-6 | Aqueou | s GC/MS O | 03/03/10 | | 03/03/10 | 100303S01 |
| | | | | | | |
| <u>Parameter</u> | MS %REC | MSD %REC | %REC CL | RPD | RPD CL | Qualifiers |
| Benzene | 101 | 103 | 76-124 | 2 | 0-20 | |
| Carbon Tetrachloride | 98 | 99 | 74-134 | 0 | 0-20 | |
| Chlorobenzene | 101 | 99 | 80-120 | 3 | 0-20 | |
| 1,2-Dibromoethane | 97 | 97 | 80-120 | 1 | 0-20 | |
| 1,2-Dichlorobenzene | 100 | 97 | 80-120 | 3 | 0-20 | |
| 1,1-Dichloroethene | 94 | 74 | 73-127 | 24 | 0-20 | |
| Ethylbenzene | 111 | 105 | 78-126 | 6 | 0-20 | |
| Toluene | 106 | 101 | 80-120 | 5 | 0-20 | |
| Trichloroethene | 97 | 95 | 77-120 | 2 | 0-20 | |
| Vinyl Chloride | 93 | 88 | 72-126 | 5 | 0-20 | |
| Methyl-t-Butyl Ether (MTBE) | 95 | 94 | 67-121 | 1 | 0-49 | |
| Tert-Butyl Alcohol (TBA) | 105 | 108 | 36-162 | 2 | 0-30 | |
| Diisopropyl Ether (DIPE) | 100 | 82 | 60-138 | 20 | 0-45 | |
| Ethyl-t-Butyl Ether (ETBE) | 94 | 94 | 69-123 | 0 | 0-30 | |
| Tert-Amyl-Methyl Ether (TAME) | 98 | 100 | 65-120 | 2 | 0-20 | |
| Ethanol | 105 | 115 | 30-180 | 9 | 0-72 | |

RPD - Relative Percent Difference ,
7440 Lincoln

CL - Control Limit



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 10-02-1922 EPA 5030B EPA 8015B (M)

Project: BP 2107

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Date Analyzed | LCS/LCSD Bat Number | ch |
|----------------------------------|---------|------------|------------------|------------------|------------------------|------------|
| 099-12-695-763 | Aqueous | GC 11 | 02/25/10 | 02/25/10 | 100225B01 | |
| Parameter | LCS % | 6REC LCSD | %REC %F | REC CL R | PD RPD CL | Qualifiers |
| Gasoline Range Organics (C6-C12) | 103 | 104 | | <u> </u> | 0-20 | |



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 10-02-1922 EPA 5030B EPA 8260B

Project: BP 2107

| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Da Anal | ate yzed | LCS/LCSD Batch Number | | | |
|-------------------------------|----------|------------|------------------|------------|-------------|--------------------------|------------|--|--|
| 099-12-703-1,250 | Aqueous | GC/MS BB | 03/02/10 | 03/02 | /10 | 100302L | 01 | | |
| <u>Parameter</u> | LCS %REC | LCSD %REC | %REC CL | ME CL | RPD | RPD CL | Qualifiers | | |
| Benzene | 102 | 101 | 80-120 | 73-127 | 1 | 0-20 | | | |
| Carbon Tetrachloride | 92 | 90 | 74-134 | 64-144 | 3 | 0-20 | | | |
| Chlorobenzene | 99 | 99 | 80-120 | 73-127 | 0 | 0-20 | | | |
| 1,2-Dibromoethane | 97 | 95 | 79-121 | 72-128 | 3 | 0-20 | | | |
| 1,2-Dichlorobenzene | 99 | 100 | 80-120 | 73-127 | 1 | 0-20 | | | |
| 1,1-Dichloroethene | 95 | 101 | 78-126 | 70-134 | 6 | 0-28 | | | |
| Ethylbenzene | 99 | 102 | 80-120 | 73-127 | 4 | 0-20 | | | |
| Toluene | 109 | 90 | 80-120 | 73-127 | 19 | 0-20 | | | |
| Trichloroethene | 93 | 91 | 79-127 | 71-135 | 2 | 0-20 | | | |
| Vinyl Chloride | 98 | 102 | 72-132 | 62-142 | 3 | 0-20 | | | |
| Methyl-t-Butyl Ether (MTBE) | 100 | 97 | 69-123 | 60-132 | 3 | 0-20 | | | |
| Tert-Butyl Alcohol (TBA) | 110 | 108 | 63-123 | 53-133 | 2 | 0-20 | | | |
| Diisopropyl Ether (DIPE) | 98 | 101 | 59-137 | 46-150 | 3 | 0-37 | | | |
| Ethyl-t-Butyl Ether (ETBE) | 98 | 98 | 69-123 | 60-132 | 0 | 0-20 | | | |
| Tert-Amyl-Methyl Ether (TAME) | 100 | 95 | 70-120 | 62-128 | 5 | 0-20 | | | |
| Ethanol | 100 | 100 | 28-160 | 6-182 | 0 | 0-57 | | | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

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

RPD - Relative Percent Difference ,

CL - Control Limit



Quality Control - LCS/LCS Duplicate



Broadbent & Associates, Inc. 1324 Mangrove Ave, Ste 212 Chico, CA 95926-2642 Date Received: Work Order No: Preparation: Method: N/A 10-02-1922 EPA 5030B EPA 8260B

Project: BP 2107

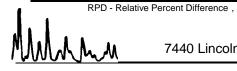
| Quality Control Sample ID | Matrix | Instrument | Date Prepared | Da Anal | ate yzed | LCS/LCSD Batch Number | | | |
|-------------------------------|----------|------------|------------------|------------|-------------|--------------------------|------------|--|--|
| 099-12-703-1,251 | Aqueous | GC/MS O | 03/03/10 | 03/03 | /10 | 100303L | 1 | | |
| <u>Parameter</u> | LCS %REC | LCSD %REC | %REC CL | ME CL | RPD | RPD CL | Qualifiers | | |
| Benzene | 99 | 105 | 80-120 | 73-127 | 5 | 0-20 | | | |
| Carbon Tetrachloride | 100 | 99 | 74-134 | 64-144 | 0 | 0-20 | | | |
| Chlorobenzene | 101 | 100 | 80-120 | 73-127 | 1 | 0-20 | | | |
| 1,2-Dibromoethane | 97 | 100 | 79-121 | 72-128 | 2 | 0-20 | | | |
| 1,2-Dichlorobenzene | 100 | 100 | 80-120 | 73-127 | 0 | 0-20 | | | |
| 1,1-Dichloroethene | 99 | 97 | 78-126 | 70-134 | 1 | 0-28 | | | |
| Ethylbenzene | 113 | 111 | 80-120 | 73-127 | 2 | 0-20 | | | |
| Toluene | 106 | 105 | 80-120 | 73-127 | 1 | 0-20 | | | |
| Trichloroethene | 98 | 96 | 79-127 | 71-135 | 1 | 0-20 | | | |
| Vinyl Chloride | 97 | 97 | 72-132 | 62-142 | 0 | 0-20 | | | |
| Methyl-t-Butyl Ether (MTBE) | 91 | 95 | 69-123 | 60-132 | 4 | 0-20 | | | |
| Tert-Butyl Alcohol (TBA) | 93 | 93 | 63-123 | 53-133 | 0 | 0-20 | | | |
| Diisopropyl Ether (DIPE) | 100 | 87 | 59-137 | 46-150 | 14 | 0-37 | | | |
| Ethyl-t-Butyl Ether (ETBE) | 91 | 100 | 69-123 | 60-132 | 9 | 0-20 | | | |
| Tert-Amyl-Methyl Ether (TAME) | 92 | 103 | 70-120 | 62-128 | 10 | 0-20 | | | |
| Ethanol | 94 | 96 | 28-160 | 6-182 | 2 | 0-57 | | | |

Total number of LCS compounds: 16

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result : Pass





Glossary of Terms and Qualifiers



Work Order Number: 10-02-1922

| <u>Qualifier</u> AX | <u>Definition</u> Sample too dilute to quantify surrogate. |
|------------------------|--|
| ВА | Relative percent difference out of control. |
| BA,AY | BA = Relative percent difference out of control. AY = Matrix interference suspected. |
| ВВ | Sample > 4x spike concentration. |
| BF | Reporting limits raised due to high hydrocarbon background. |
| ВН | Reporting limits raised due to high level of non-target analytes. |
| BU | Sample analyzed after holding time expired. |
| BV | Sample received after holding time expired. |
| BY | Sample received at improper temperature. |
| BZ | Sample preserved improperly. |
| CL | Initial analysis within holding time but required dilution. |
| CQ | Analyte concentration greater than 10 times the blank concentration. |
| CU | Surrogate concentration diluted to not detectable during analysis. |
| DF | Reporting limits elevated due to matrix interferences. |
| DU | Insufficient sample quantity for matrix spike/dup matrix spike. |
| ET | Sample was extracted past end of recommended max. holding time. |
| EY | Result exceeds normal dynamic range; reported as a min est. |
| GR | Internal standard recovery is outside method recovery limit. |
| IB | CCV recovery abovelimit; analyte not detected. |
| IH | Calibrtn. verif. recov. below method CL for this analyte. |
| IJ | Calibrtn. verif. recov. above method CL for this analyte. |
| J,DX | J=EPA Flag -Estimated value; DX= Value < lowest standard (MQL), but > than MDL. |
| LA | Confirmatory analysis was past holding time. |
| LG,AY | LG= Surrogate recovery below the acceptance limit. AY= Matrix interference suspected. |
| LH,AY | LH= Surrogate recovery above the acceptance limit. AY= Matrix interference suspected. |
| LM,AY | LM= MS and/or MSD above acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected. |
| LN,AY | LN= MS and/or MSD below acceptance limits. See Blank Spike (LCS). AY= Matrix interference suspected. |
| LQ | LCS recovery above method control limits. |
| LR | LCS recovery below method control limits. |
| | |

Work Order Number: 10-02-1922

| Qualifier LW | <u>Definition</u> Quantitation of unknown hydrocarbon(s) in sample based on gasoline. |
|-----------------|--|
| LX | Quantitation of unknown hydrocarbon(s) in sample based on diesel. |
| MB | Analyte present in the method blank. |
| PC | Sample taken from VOA vial with air bubble > 6mm diameter. |
| PI | Primary and confirm results varied by > than 40% RPD. |
| RB | RPD exceeded method control limit; % recoveries within limits. |
| SG | A silica gel cleanup procedure was performed. |
| | Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. |



THIS LINE - LAB USE ONLY: Custody Seals in Place: Yes / No

Laboratory Management Program LaMP Chain of Custody Record

(1922)

| Page/ | _ of <u> </u> |
|-------|---------------|
|-------|---------------|

BP/ARC Project Name: BP 2107

Req Due Date (mm/dd/yy): STD-TAT

°F/C

Trip Blank: Yes / No

O-TAT Rush TAT: Yes

res No X

| (| Ompany O A BP affiliated company | BP/ARC Fa | cility No: | 210 | 07 | | | | | | | | | - | Lab | Worl | (Ord | er N | umbe | er: | | | | | | | - |
|--|-------------------------------------|--------------|------------|--------------------------------|----------------|--|---------|---------------------|-------------|------------------|------------------|---------|----------|------|--------------|-------------|-------------------------------------|------------|---|----------------|------|-----|------|-----------|--|-----------------|------------|
| Lab N | ame: Cal science | | | BP/ | /ARC | Faci | lity Ad | ddress | s: | 3310 | Park | Blvd. | | | ٠ | | | | Consultant/Contractor: Broadbent & Associates, Inc. | | | | | | | | |
| Lab A | ddress: 7440 Lincoln Way | | | City | , Sta | ite, ZI | IP Co | de: | | Oakl | and, C | CA | | | | | | • | Consultant/Contractor Project No: 06-88-614-1-813 | | | | | | | | |
| Lab P | M: Richard Villafania | | | Lead Regulatory Agency: ACEH A | | | | | | | | | Addre | ess: | 1324 | Mang | jrove | Ave. | Ste. 212, Chico, CA | 95926 | | | | | | | |
| Lab Phone: 714-895-5494 / 714-895-7501 (fax) | | | | | | California Global ID No.: T06019734306 | | | | | | | | | | | Consultant/Contractor PM: Tom Venus | | | | | | | | | | |
| Lab S | hipping Accnt: 9255 | | | Enf | os P | ropos | al No |): | | 000T | K-000 | 04 | | | | | | | Phone: 530-566-1400 / 530-566-1401 (fax) | | | | | | | | |
| Lab B | ottle Order No: | | | Acc | count | ing M | lode: | | Pro | vision | <u>X</u> | _ 00 | C-BU | | 000 | C-RM | | | Email EDD To: tvenus@broadbentinc.com | | | | | | | | |
| Other | Info: | | <u> </u> | Sta | ge: | App | oraise | (1) | Α | ctivity: | Moni | itoring | (13) | · | | | | | Invoid | ce To: | | BP | /ARC | <u> x</u> | Contracto | r | |
| BP/AF | RC EBM: Chuck Carmel | | | | Ma | atrix | , | No | o. Co | ntain | ers / | Pres | ervat | tive | | | ı | Requ | estec | d Ana | lyse | s | | | Report Ty | pe & QC l | _evel |
| ЕВМ | Phone: 925-275-3803 | | | | | T | | ø | | | | | | | | | | | | | | | | | Sta | andard <u>X</u> | - |
| EBM | Email: charles.carmel@bp.com | | | | | | | Containers | | | | | | | | | | | | | | | | | Full Data Pa | ıckage | - |
| Lab No. | Sample Description | Date | Time | Soil / Solid | Water / Liquid | Air / Vapor | | Total Number of Con | Unpreserved | +SO ₄ | HNO ₃ | HCI | Methanol | | GRO (8015) | BTEX (8260) | 5 Oxys (8260) | EDB (8260) | 1,2-DCA (8260) | Ethanol (8260) | | | | | Co Note: If sample not Sample" in commer and initial any prepri | nts and single- | strike out |
| ŧ | MW-11A | 2/19/10 | 1115 | | X | | | 6 | | | | х | | | Х | Х | Х | Х | х | Х | | | | | | | |
| 2 | MW-11B | Ì | 1105 | | x | | | 6 | | | | х | | | х | х | х | х | х | х | | | | | | | |
| 3 | MW-12A | | 1202 | | x | | | 6 | | | | х | | | х | х | Х | X | х | х | | | | | | | |
| 4 | MW-12B | | 1152 | | х | | | 6 | | | | х | | | х | х | х | х | х | х | | | | | | | |
| 3 | MW-13A | | 1240 | | X | | | 6 | | | | х | • | | Х | х | х | Х | Х | х | | | | | | | |
| 6 | MW-13B | V | 1235 | | х | | | 6 | | | | х | | | х | Х | х | х | х | Х | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | -TB-2107-100219 | | | | x | | | 2 | | | | х | | | | | | | | | | | | | ON HOLD | | |
| Samp | oler's Name: Tracy build | 16 | | | | Ī | Relir | nquis | hed | By / <i>A</i> | Affilia | tion | | | Da | ate | Tit | ne | | | __ | _ (| | | iliation | Date | Time |
| Samp | oler's Company: BAI | | | | 1 | Z . | 1 | 2 | S | | | | | | 2/23/10 1600 | | | | Wolsoth Cer 2/24/10/1 | | | | | | 1030 | | |
| Shipn | nent Method: (550 | Ship Date: 2 | 123/10 | | | | 7 | | | | | | | | | | | | | | | | | | | | _ |
| Shipn | nent Tracking No: 1064623 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | O C |
| Spec | cial Instructions: | | | | | | | | | | | | | | | | | | | | | | | | | | |

Cooler Temp on Receipt:

Temp Blank: Yes / No

MS/MSD Sample Submitted: Yes / No



| <u>نان بالنبان و المتعلق و المتعلق</u> و المتعلق و | السنتين ويعفن المنتس المساوات والمساوات والمساوات والمساوات | | - 1951 | |
|---|--|--|---|------|
| 1 September 1 A 7 September 1 | | GOLDEN STATE OVERNIGHT | SHIPPING AIR BILL 4 PACKAGE INFORMATION LETTER (MAX 8 OZ) | |
| F R | 6 LA | | PACKAGE (WT) 40 | |
| M N N N N N N N N N N N N N N N N N N N | And Carlon 95 And And Carlo | 1-800-322-5555 www.aso.com | COD AMOUNT \$ | |
| CONTRACTOR OF THE PROPERTY OF | 一个一个 | 5 DELIVERY OVERNIGHT BY 10:30 AM | | 7 |
| 2 COMPANY CAL SCIENCE NAME | PHONE | *DELIVERY TIMES MAY BE LATER IN SOME AREAS • (| DY 6:00 AIVI CONBULT YOUR SERVICE GUIDE OR CALL GOLDEN STATE OVERNIGHT. | |
| | NUMBER | SIGN TO AUTHORIZE DEL | IVERY WITHOUT OBTAINING SIGNATURE | |
| 744U LINCOEN WAY | | T CREDIT CARD CRE | EDIT CARD NUMBER EXP. DAT | 1 16 |
| ADDRESS | STE/ ROOM - | O PICK UP | | _ # |
| GARDEN GROVE | ZIP CODE 92841 | TIME | DRIVER # ROUTE # | - . |
| 3 YOUR INTERNAL BILLING REFERENCE WILL APPEAR ON YOUR INVOICE | | 106462360 | | ## A |
| SPECIAL INSTRUCTIONS - | | 9 GSO TRACKING NUMBER | 106462360 | |
| | The second secon | ————————————————————————————————————— | in an | 1 |

Page 16 of 17



WORK ORDER #: 10-02- 1 9 2 2

Laboratories, Inc. SAMPLE RECEIPT FORM

Cooler <u>\</u> of <u>\</u>

| CLIENT: 1000AD10ENT + ASSOCIATES | DATE: _ | 02/24 | <u>†/10</u> | | | | | | | |
|--|---------------------|---------------------------|----------------------------------|--|--|--|--|--|--|--|
| TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C - 6.0 °C, not frozen) Temperature\\ _\ _\ _\ ^C C + 0.5 °C (CF) =\ _\ ^C 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 □ Metals Only □ PCBs Only Initial: | | | | | | | | | | |
| CUSTODY SEALS INTACT: ☐ Cooler ☐ ☐ No (Not Intact) ☐ Not Present ☐ Sample ☐ ☐ No (Not Intact) ☐ Not Present | | | al: <u>W/</u> al: <u>/</u> *C | | | | | | | |
| SAMPLE CONDITION: Chain-Of-Custody (COC) document(s) received with samples COC document(s) received complete | | No | N/A | | | | | | | |
| ☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels ☐ No analysis requested. ☐ Not relinquished. ☐ No date/time relinquished. | | | | | | | | | | |
| Sampler's name indicated on COC | • | | | | | | | | | |
| Sample container label(s) consistent with COC | | | | | | | | | | |
| Proper containers and sufficient volume for analyses requested | | | | | | | | | | |
| Analyses received within holding time | . 🗹 | | | | | | | | | |
| Proper preservation noted on COC or sample container | | | | | | | | | | |
| Volatile analysis container(s) free of headspace | Z | | | | | | | | | |
| Tedlar bag(s) free of condensation | 🗆 | | | | | | | | | |
| CONTAINER TYPE: | _ | | | | | | | | | |
| Solid: 40zCGJ 80zCGJ 160zCGJ Sleeve () EnCore Water: VOA VOAh VOAna2 125AGB 125AGBh 125AGBp 500AGB 500AGJ 500AGJs 250AGB 250CGB 250PB 250PB 125PB 125PBznna 100PJ 100PJna2 | □1AGB [s □1PB [| ⊒1AGB na ₂ | | | | | | | | |
| Air: ☐Tedlar® ☐Summa® Other: ☐ Trip Blank Lot#: ☐ Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Preservative: h: HCl. n: HNO3 nac:NacSoOc Nat NaOH n: H-PO. s: H-SO. znna: ZnAc-t-NaOH | Envelope F | Checked by Reviewed by | r: <u>ρς</u> | | | | | | | |

SOP T100_090 (07/16/09

FIELD PROCEDURES

A.1 QUALITY ASSURANCE/QUALITY CONTROL FIELD PROTOCOLS

Field protocols have been implemented to maximize the accuracy and reliability of data collection, ground-water sample collection, transportation and laboratory analysis. Discussion of these protocols is provided below.

A.1.1 Water Level & Free-Phase Product Measurement

Prior to ground-water sample collection from each monitor well, the presence of free-phase product and depth to ground water shall be measured. Depth to ground water will be measured with a standard M-Scope water level indicator (or equivalent) that has been decontaminated prior to its use in accordance with procedures discussed below. Depth to ground water will be gauged from a saw cut notch at the top of the well casing on each well head. Once depth to water has been measured, a new disposable bailer will be utilized to monitor for the presence and thickness of free-phase product.

A.1.2 Monitor Well Purging

Subsequent to measuring depth to ground water, a minimum of three casing volumes of water will be purged from each monitor well using a Geosquirt submersible pump (or equivalent) and disposable plastic tubing dedicated to each individual well. The well will be purged at a low flow rate to minimize the possibility of purging the well dry. To assure that the sample collected is representative of formation water, several field parameters will be monitored during the purging process and the sample will not be collected until these parameters have stabilized to within 10% of a measured value. These parameters will include temperature, pH, and conductivity. If a well is purged dry, the sample will not be collected until the well has recovered to a minimum 50% of its initial volume.

Ground-water sampling equipment (e.g., M-scope and the Geosquirt purge pump) will be thoroughly cleansed with a solution of Liquinox, rinsed with tap water, and finally rinsed with control water prior to use in each well. Pre-cleaned disposable bailers and disposable plastic tubing will be dedicated to each individual well.

A.1.3 Ground-Water Sample Collection

Once the wells are satisfactorily purged, water samples will be collected from each well. Water samples for organic analyses will be collected using a clean disposable bailer and transferred to laboratory-prepared 40 ml vials, in duplicate; such that no head space or air bubbles are present in the sample. The samples will be properly labeled (sample identification, sampler initials, date and time of collection, site location, and requested analyses), placed in an ice chest with blue ice, and delivered to an analytical laboratory.

A.1.4 Surface Water Sample Collection

Surface water samples will be collected from mid-depth in the central area of the associated stream. Water samples will be collected in laboratory-prepared 40 ml vials by dipping the vial into the stream water. Each vial will be inverted to check that no head space or bubbles are present. The samples will be properly labeled and transported as described above.

A.1.5 Chain of Custody Procedure

Sample identification documents will be carefully prepared so identification and chain of custody can be maintained and sample disposition can be controlled. The sample identification documents include Chain-of-Custody (COC) records and Daily Field Report forms. Chain of custody procedures are outlined below.

Field Custody Procedures

The field sampler is personally responsible for the care and custody of the samples collected until they are properly transferred.

Samples will have individual labels. The information on these labels will correspond to the COC which shows the identification of individual samples and the contents of the shipping container. The original COC will accompany the shipment and a copy will be retained by the sampler for the client.

The staff person conducting the sampling will determine whether proper custody procedures were followed during the field work.

Transfer of Custody and Shipment

A COC will accompany samples during transfer and shipment. When transferring samples, the individual's relinquishing and receiving the samples will sign, date, and note the time on the COC. This COC documents the sample custody transfer.

Samples will be packaged properly for shipment and dispatched to the appropriate laboratory for analysis, with a separate COC accompanying each shipment. Shipments will be accompanied by the original COC. Samples will be delivered by BAI personnel to the laboratory, or shipped by courier.

A.1.6 Field Records

In addition to sample identification numbers and Chain-of Custody records, Daily Field Report records will be maintained by staff personnel to provide daily records of significant events, observations, and measurements during field investigations. These documents will contain information such as: personnel present, site conditions, sampling procedures, measurement procedures, calibration records, etc. Field measurements will be recorded on the appropriate forms. Entries on the data forms will be signed and dated. The data forms will be kept as permanent records.

APPENDIX B

GEOTRACKER UPLOAD CONFIRMATION RECEIPTS

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: GEO_WELL

Submittal Title: 1Q10 GEO_WELL 2107

Facility Global ID: T06019734306
Facility Name: ARCO #2107
File Name: GEO_WELL.zip

Organization Name: Broadbent & Associates, Inc.

<u>Username:</u> BROADBENT-C IP Address: 67.118.40.90

Submittal Date/Time: 3/19/2010 1:18:44 PM

Confirmation Number: 9774491667

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STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: EDF - Monitoring Report - Quarterly

Submittal Title: 1Q10 GW Monitoring

 Facility Global ID:
 T06019734306

 Facility Name:
 ARCO #2107

 File Name:
 10021922.zip

Organization Name: Broadbent & Associates, Inc.

<u>Username:</u> BROADBENT-C IP Address: 67.118.40.90

Submittal Date/Time: 3/19/2010 1:20:02 PM

Confirmation Number: 4324881315

VIEW QC REPORT

VIEW DETECTIONS REPORT

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