

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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San Ramon, CA 94583
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July 17, 2012

Re: Second Quarter 2012 Status Report
Former BP Service Station #11104
1716 Webster Street
Alameda, California
ACEH Case #RO0000281

RECEIVED

2:22 pm, Jul 23, 2012

Alameda County
Environmental Health

"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,



Shannon Couch
Operations Project Manager

Attachment

July 17, 2012

Project No. 06-88-644

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

Attn.: Ms. Shannon Couch

Re: Second Quarter 2012 Status Report, Former ARCO Service Station #11104, 1716
Webster Street, Alameda, Alameda County, California; ACEH Case #RO0000281

Dear Ms. Couch:

Attached is the *Second Quarter 2012 Status Report* for former ARCO Service Station #11104, located at 1716 Webster Street, Alameda, Alameda County, California (Site). This report presents a summary of current developments at the Site through the Second Quarter of 2012. Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (707) 455-7290.

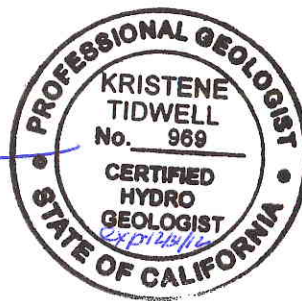
Sincerely,
BROADBENT & ASSOCIATES, INC.



Alexander J. Martinez
Senior Staff Geologist



Kristene Tidwell, P.G., C.Hg.
Senior Geologist



Enclosures

cc: Ms. Dilan Roe, Alameda County Environmental Health (submitted via ACEH ftp site)
Ms. Shelby Lathrop, ConocoPhillips, 76 Broadway, Sacramento, California 95818
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2012
STATUS REPORT
FORMER ARCO STATION #11104, ALAMEDA, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Second Quarter 2012 Status Report* on behalf of Atlantic Richfield Company (ARC, a BP affiliated company) for former ARCO Station #11104 located in Alameda, Alameda County, California. Monitoring activities at the site were performed in accordance with the reporting requirements issued by the Alameda County Environmental Health (ACEH). Details of work performed, discussion of results, and recommendations are provided below.

| | |
|-------------------------------------|--|
| Facility Name / Address: | <u>Station #11104 / 1716 Webster Street, Alameda, California</u> |
| Client Project Manager / Title: | <u>Ms. Shannon Couch, Remediation Management Project Manager</u> |
| Broadbent Contact: | <u>Kristene Tidwell, P.G., C.Hg., (707) 455-7290</u> |
| Broadbent Project No.: | <u>06-88-644</u> |
| Primary Regulatory Agency / ID No.: | <u>ACEH / Case #RO0000281</u> |
| Current phase of project: | <u>Monitoring</u> |
| List of Acronyms / Abbreviations: | <u>See end of report text for list of acronyms/abbreviations used in report.</u> |

WORK PERFORMED THIS QUARTER (Second Quarter 2012):

1. Submitted *First Quarter 2012 Monitoring Report* on April 15, 2012 (Q1 GWM Report).
2. No environmental field activities were scheduled for Second Quarter 2012.

WORK SCHEDULED FOR NEXT QUARTER (Third Quarter 2012):

1. Submit *Second Quarter 2012 Status Report* (contained herein).
2. Conduct Third Quarter 2012 groundwater monitoring and sampling event.

GROUNDWATER MONITORING PLAN SUMMARY:

| | | |
|--|-----------------------------------|-----------|
| Groundwater level gauging: | <u>MW-1 through MW-5 and RW-1</u> | (1Q & 3Q) |
| Groundwater sample collection: | <u>MW-1 through MW-5 and RW-1</u> | (1Q) |
| | <u>MW-1 and RW-1</u> | (3Q) |
| Biodegradation indicator parameter monitoring: | <u>None</u> | |

QUARTERLY RESULTS SUMMARY:

LNAPL

| | | |
|-------------------------------|------------|----------|
| LNAPL observed this quarter: | <u>N/A</u> | (yes/no) |
| LNAPL recovered this quarter: | <u>N/A</u> | (gal) |
| Cumulative LNAPL recovered: | <u>N/A</u> | (gal) |

Groundwater Elevation and Gradient:

| | | |
|------------------------------|------------|-----------------------------|
| Depth to groundwater: | <u>N/A</u> | (ft below TOC) |
| Gradient direction: | <u>N/A</u> | (compass direction) |
| Gradient magnitude: | <u>N/A</u> | (ft/ft) |
| Average change in elevation: | <u>N/A</u> | (ft since last measurement) |

Laboratory Analytical Data

| | |
|----------|--|
| Summary: | <u>No environmental activities were conducted for Second Quarter 2012.</u> |
|----------|--|

DISCUSSION:

No environmental field activities were conducted by Broadbent & Associates at the Site during the Second Quarter of 2012. The most recent groundwater monitoring and sampling event occurred during the First Quarter of 2012, the results of which are contained within the Q1 GWM Report. A site location map is provided as Drawing 1 and a groundwater elevation and analytical summary map from the most recent first quarter sampling is provided as Drawing 2.

LIMITATIONS:

The findings presented in this report are based upon observations of field personnel, points investigated, results of laboratory tests performed by Calscience Environmental Laboratories, Inc. (Garden Grove, California), and our understanding of ACEH requirements. 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 the Atlantic Richfield Company. It is possible that variations in soil or groundwater 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 #11104, 1716 Webster Street, Alameda, California

Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, February 28, 2012, Station #11104, 1716 Webster Street, Alameda, California

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

| | | | |
|--------------------|---|-------------------|--------------------------------|
| ACEH: | Alameda County Environmental Health | ft/ft: | feet per foot |
| Broadbent: | Broadbent & Associates, Inc. | gal: | Gallons |
| BTEX: | Benzene, Toluene, Ethylbenzene, Total Xylenes | GRO: | Gasoline-Range Organics |
| 1,2-DCA: | 1,2-Dichloroethane | LNAPL: | Light Non-Aqueous Phase Liquid |
| DIPE: | Di-Isopropyl Ether | MTBE: | Methyl Tertiary Butyl Ether |
| DO: | Dissolved Oxygen | NO ₃ : | Nitrate as Nitrogen |
| DRO: | Diesel-Range Organics | ppb: | parts per billion |
| EDB: | 1,2-Dibromomethane | SO ₄ : | Sulfate |
| Eh: | Oxidation Reduction Potential | TAME: | Tert-Amyl Methyl Ether |
| EPA: | Environmental Protection Agency | TBA: | Tertiary Butyl Ether |
| ETBE: | Ethyl Tertiary Butyl Ether | TOC: | Top of Casing |
| Fe ²⁺ : | Ferrous Iron | µg/L: | micrograms per liter |

DRAWINGS

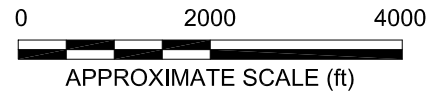
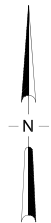
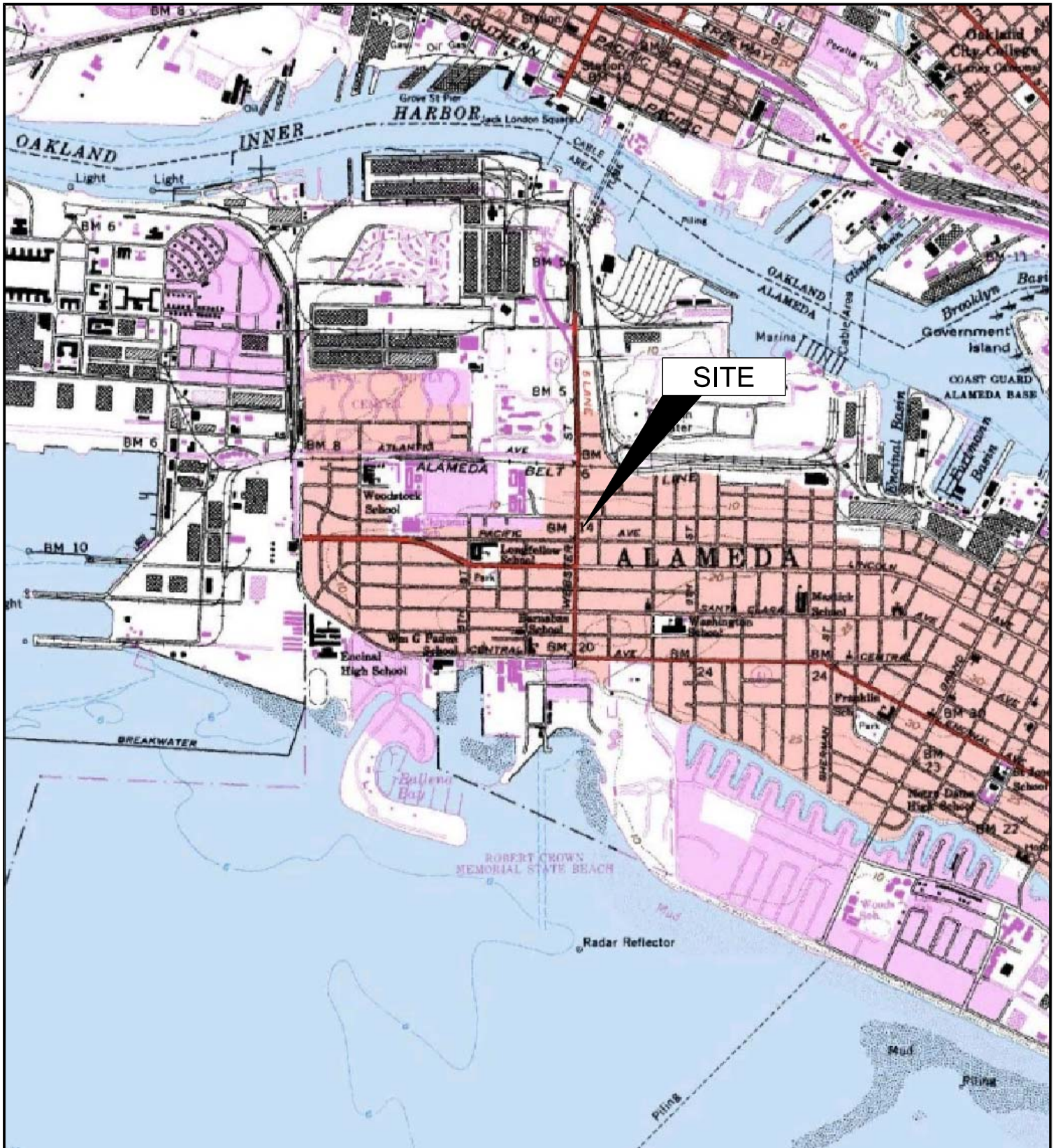


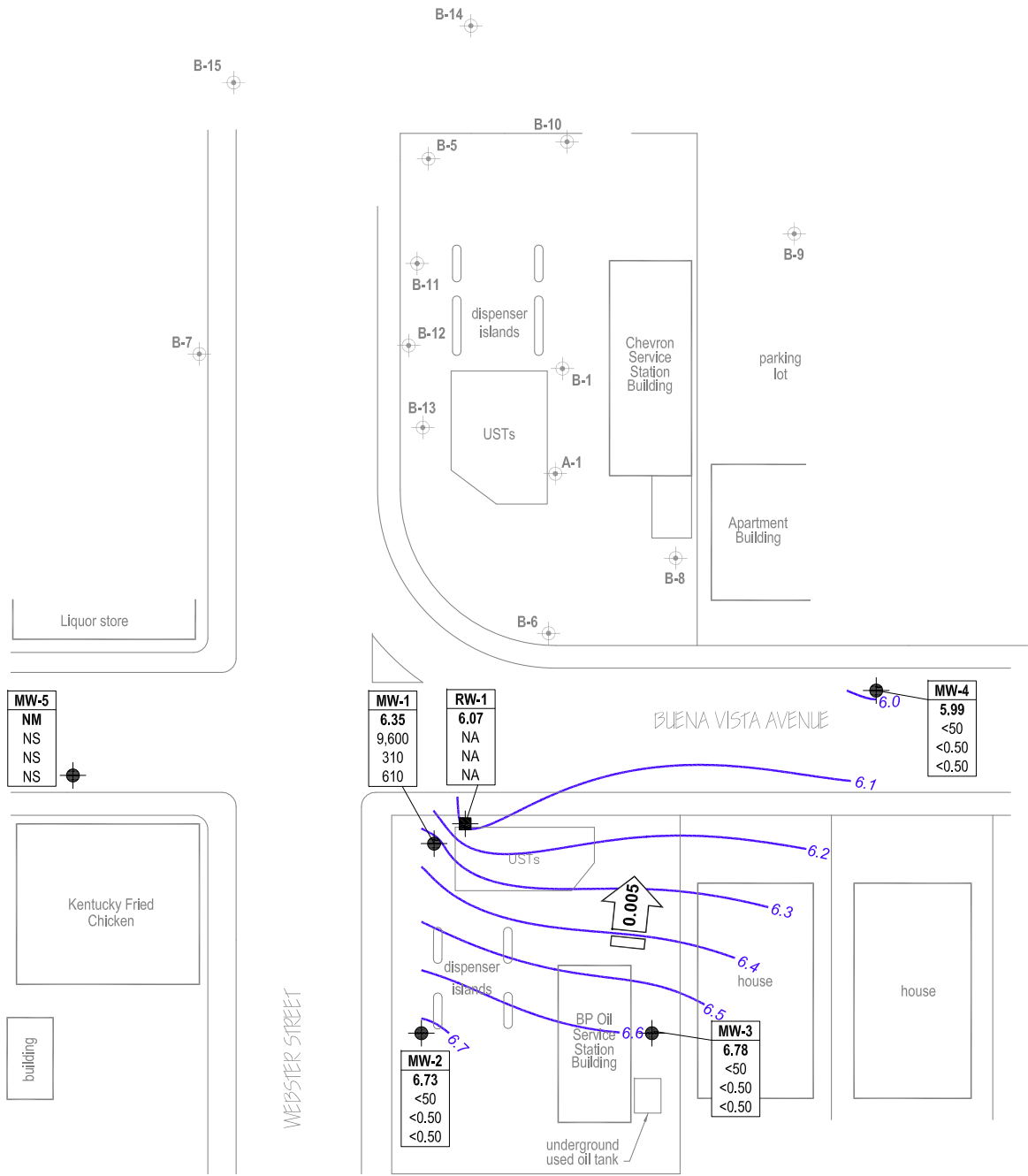
IMAGE SOURCE: USGS

BROADBENT & ASSOCIATES, INC
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, CA 95926
 Project No.: 06-88-644 Date: 9/1/09

Station #11104
 1716 Webster Street
 Alameda, California

Site Location Map

Drawing
1

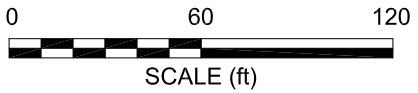


LEGEND

- Monitoring well
- Groundwater recovery well
- Chevron monitoring well
- Groundwater flow direction and gradient (ft/MSL)
- Groundwater elevation contour (Feet above site datum)

| | |
|-------------|---|
| Well | Well designation |
| ELEV | Groundwater elevation (ft/MSL) |
| GRO | GRO, Benzene and MTBE concentrations in ground water (µg/L) |
| Benzene | |
| MTBE | |
| < | Not detected at or above laboratory reporting limits |
| NM/NS | Not Measured/Not sampled |
| NA | Not Analyzed |
| * | Elevation not used for contouring |

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 875 Cotting Lane Suite G, Vacaville, California
 Project No.: 06-88-644 Date: 3/26/2012

Station #11104
 1716 Webster Street
 Alameda, California

Groundwater Elevation Contour and
 Analytical Summary Map
 February 28, 2012