

# Atlantic Richfield Company

**Shannon Couch**  
Operations Project Manager

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San Ramon, CA 94583  
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January 21, 2013

Re: Fourth Quarter 2013 Status Report  
Former BP Service Station #11104  
1716 Webster Street  
Alameda, California  
ACEH Case #RO0000281

**RECEIVED**

*By Alameda County Environmental Health at 3:03 pm, Jan 28, 2013*

"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

January 21, 2013

Project No. 06-88-644

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

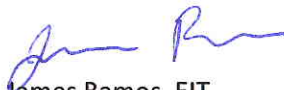
Attn.: Ms. Shannon Couch

Re: Fourth 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 *Fourth 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 First 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.

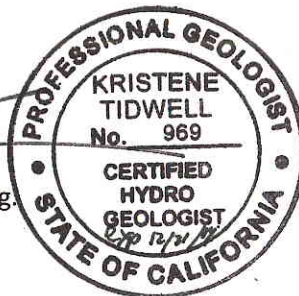
Sincerely,  
BROADBENT & ASSOCIATES, INC.



James Ramos, EIT  
Senior Staff Engineer



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

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

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth 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:	Station #11104 / 1716 Webster Street, Alameda, California
Client Project Manager / Title:	Ms. Shannon Couch, Remediation Management Project Manager
Broadbent Contact:	Kristene Tidwell, P.G., C.Hg., (707) 455-7290
Broadbent Project No.:	06-88-644
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0000281
Current phase of project:	Monitoring
List of Acronyms / Abbreviations:	See end of report text for list of acronyms/abbreviations used in report.

**WORK PERFORMED THIS QUARTER (Fourth Quarter 2012):**

1. Submitted *Third Quarter 2012 Monitoring Report* on October 26, 2012 (Q3 GWM Report).
2. No environmental field activities were scheduled for Fourth Quarter 2012.

**WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2013):**

1. Submit *Fourth Quarter 2012 Status Report* (contained herein).
2. Conduct First Quarter 2013 groundwater monitoring and sampling event.

**GROUNDWATER MONITORING PLAN SUMMARY:**

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

**QUARTERLY RESULTS SUMMARY:**

**LNAPL**

LNAPL observed this quarter:	N/A	(yes/no)
LNAPL recovered this quarter:	N/A	(gal)
Cumulative LNAPL recovered:	N/A	(gal)

**Groundwater Elevation and Gradient:**

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

### Laboratory Analytical Data

Summary:

No environmental activities were conducted for Fourth Quarter 2012.

### DISCUSSION:

No environmental field activities were conducted by Broadbent & Associates at the Site during the Fourth Quarter of 2012. The most recent groundwater monitoring and sampling event occurred during the Third Quarter of 2012, the results of which are contained within the Q3 GWM Report. Currently, the Site is being evaluated for site closure under the Low Threat UST Closure Policy that was recently put in place by the State Water Resources Control Board. A site location map is provided as Drawing 1 and a groundwater elevation and analytical summary map from the most recent third 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 TestAmerica Laboratories, Inc. (Irvine, 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, August 15, 2012, Station #11104, 1716 Webster Street, Alameda, California

### LIST OF COMMONLY USED ACRONYMS/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 <sub>3</sub> :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO <sub>4</sub> :	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 <sup>2+</sup> :	Ferrous Iron	µg/L:	micrograms per liter

## **DRAWINGS**

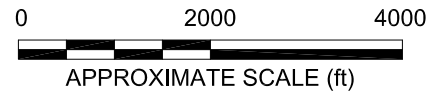
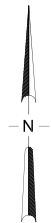
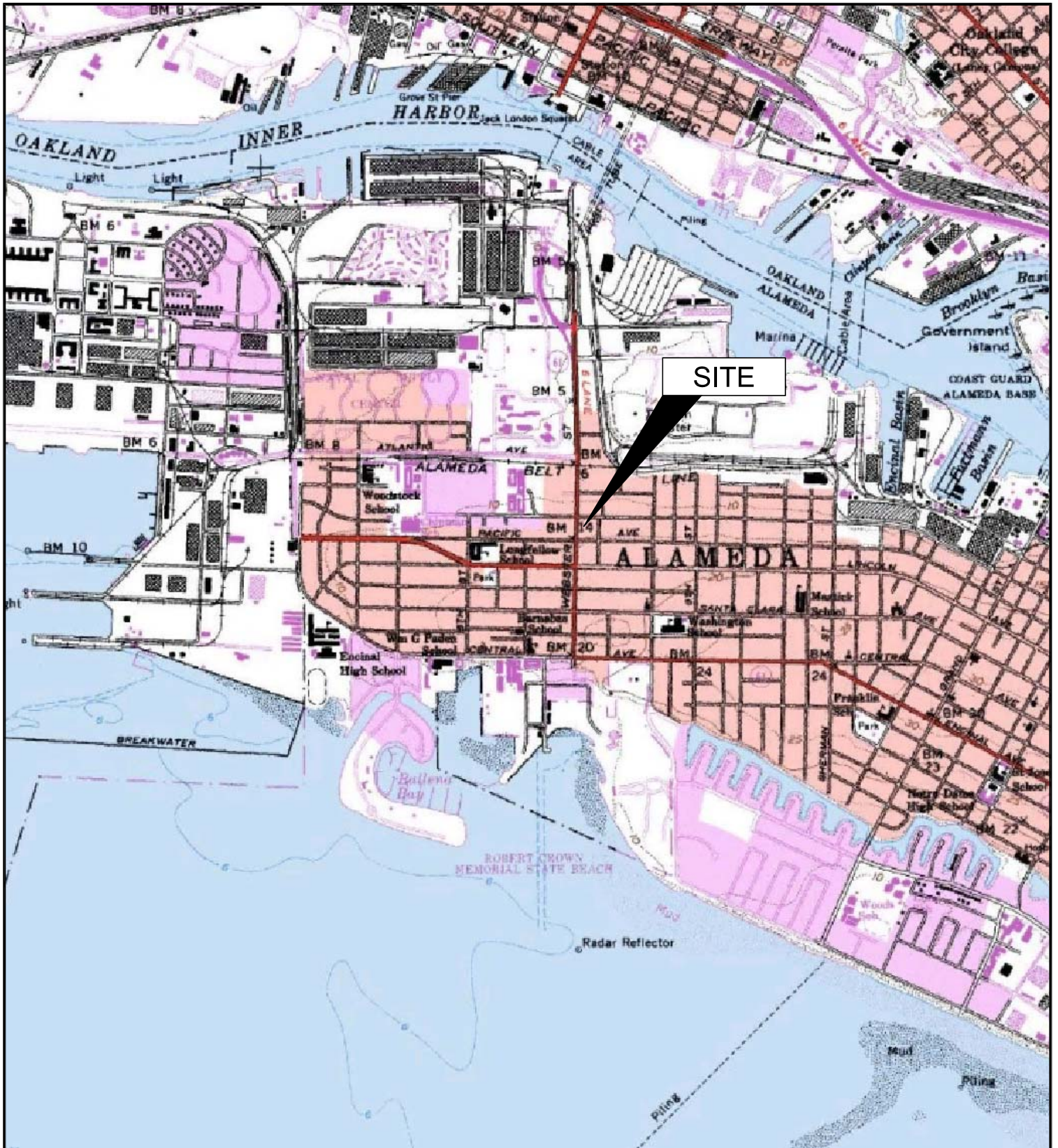


IMAGE SOURCE: USGS



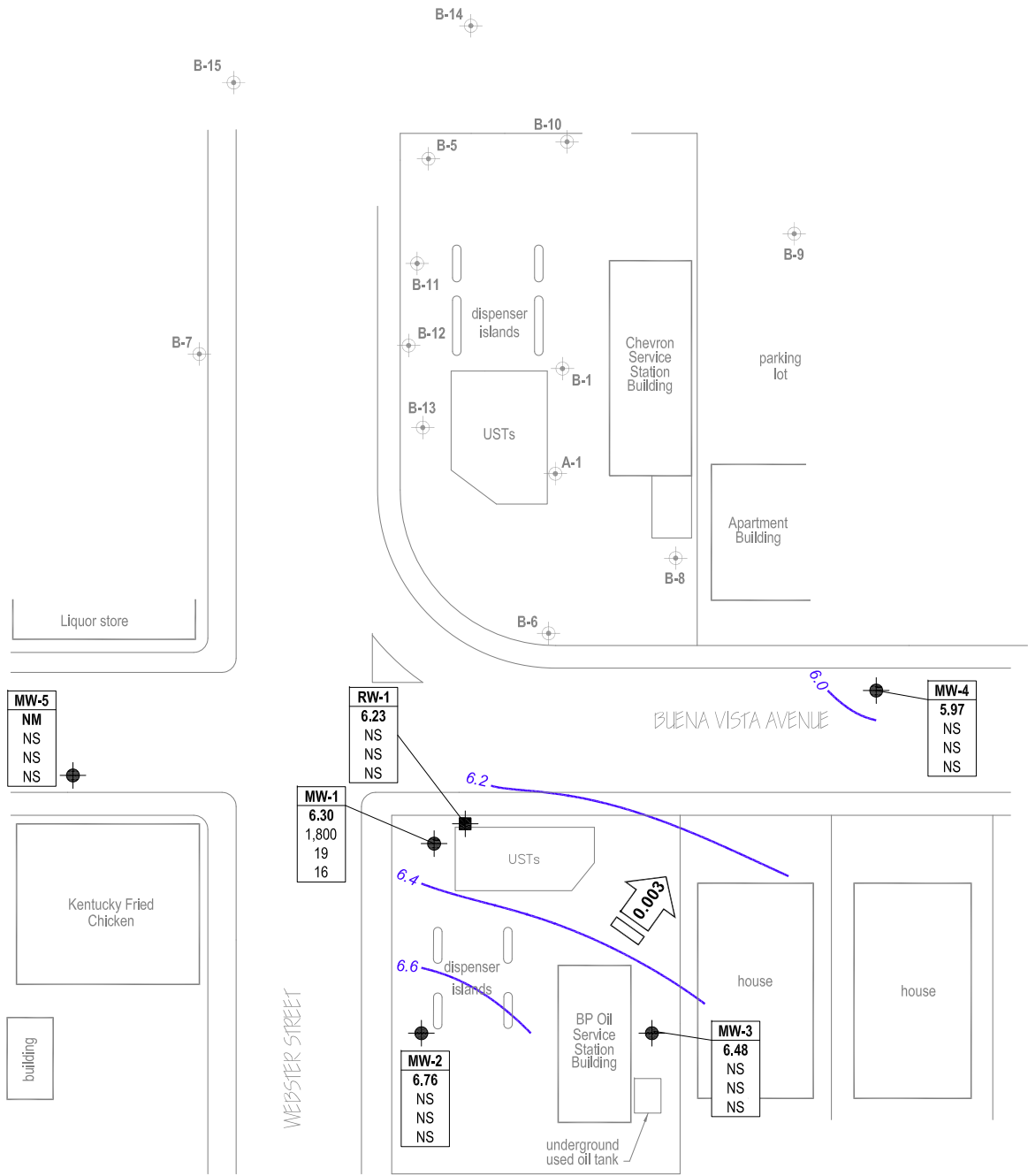
875 Cotting Lane, Suite G  
Vacaville, California 95688  
Project No.: 06-88-644 Date: 9/4/2012

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 groundwater (µg/L)
Benzene	
MTBE	
<	Not detected at or above laboratory reporting limits
NM/NS	Not Measured/Not sampled

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



**BROADBENT**  
 875 Cotting Lane, Suite G  
 Vacaville, California 95688  
 Project No.: 06-88-644    Date: 9/4/2012

Station #11104  
 1716 Webster Street  
 Alameda, California

Groundwater Elevation Contour and  
 Analytical Summary Map  
 August 15, 2012

Drawing  
**2**