Atlantic Richfield Company

Shannon Couch Operations Project Manager

RECEIVED

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3804 Fax: (925) 275-3815 E-Mail: shannon.couch@bp.com

8:10 am, Feb 02, 2012

Alameda County Environmental Health

January 31, 2012

Re: Fourth Quarter 2011 Status Report Former BP Service Station #11104 1716 Webster Street Alameda, California ACEH Case #RO0000281

"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



FOURTH QUARTER 2011 STATUS REPORT FORMER ARCO STATION #11104, ALAMEDA, CALIFORNIA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2011 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:	Tom Sparrowe, P.G., (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 2011):

- 1. Submitted Third Quarter 2011 Monitoring Report on October 6, 2011.
- 2. No environmental field activities were scheduled for Fourth Quarter 2011.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2012):

- 1. Submit Fourth Quarter 2011 Status Report (contained herein).
- 2. Conduct First Quarter 2012groundwater monitoring/sampling.

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 2011.		

DISCUSSION:

No environmental field activities were conducted by Broadbent & Associates at the Site during the Fourth Quarter of 2011. The most recent groundwater monitoring/sampling occurred during the Third Quarter of 2011, the results of which are contained within the *Third Quarter 2011 Monitoring Report* (Broadbent, 10/06/11). For immediate reference, a site location map is provided as Drawing 1 and a groundwater elevation and analytical summary map, dated July 5, 2011, 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, July 5, 2011, 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



