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By Alameda County Environmental Health at 2:51 pm, Jan 27, 2014

Atlantic Richfield Company

Chuck Carmel

Remediation Management Project Manager

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

January 24, 2014

Re: Fourth Quarter 2013 Status Report

Atlantic Richfield Company Station No. 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

Remediation Management Project Manager

Attachment:





January 24, 2014

Project No. 06-88-614

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

Attn.: Mr. Chuck Carmel

Re:

Fourth Quarter 2013 Status Report, Atlantic Richfield Company Station No. 2107, 3310

Park Boulevard, Oakland, Alameda County, California; ACEH Case #RO0002526

Dear Mr. Carmel:

Attached is the *Fourth Quarter 2013 Status Report* for Atlantic Richfield Company Station No. 2107 located at 3310 Park Boulevard, Oakland, Alameda County, California (Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2013. 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.

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

Senior Geologist

Enclosures

cc:

Mr. Jerry Wickham, Alameda County Environmental Health (submitted via ACEH ftp site)

TIDWELL

ERTIFIED

Electronic copy uploaded to GeoTracker

FOURTH QUARTER 2013 STATUS REPORT STATION No. 2107, OAKLAND, CALIFORNIA

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Fourth Quarter 2013 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station No. 2107 located in Oakland, Alameda County, California (Site). 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 No. 2107 / 3310 Park Boulevard, Oakland, California
Client Project Manager / Title:	Mr. Chuck Carmel, Remediation Management Project Manager
Broadbent Contact:	Kristene Tidwell, P.G., C.Hg., (707) 455-7290
Broadbent Project No.:	06-88-614
Primary Regulatory Agency / ID No.:	ACEH / Case #RO0002526
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 2013):

- 1. Submitted Third Quarter 2013 Monitoring Report on October 29, 2013 (Q3 GWM Report).
- 2. Carried out the majority of the *Addendum to the Work Plan for Groundwater Investigation* (Work Plan Addendum) dated August 21, 2013.

MW-11A, MW-11B, MW-12A, MW-

3. No other environmental field activities were conducted during the Fourth Quarter 2013.

WORK SCHEDULED FOR NEXT QUARTER (First Quarter 2014):

- 1. Conduct remaining offsite investigation activities as outlined in Work Plan Addendum.
- 2. Submit Fourth Quarter 2013 Status Report (contained herein).
- 3. Conduct First Quarter 2014 groundwater monitoring and sampling event.
- 4. Submit a report documenting recent offsite investigation described above.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:

	12B, MW-13A, MW-13B	(1Q & 3Q)
Groundwater sample collection:	MW-11A, MW-11B, MW-12A, MW-	
	12B, MW-13A, MW-13B	(1Q & 3Q)
Biodegradation indicator parameter		-
monitoring:	None	<u>-</u>
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 Gradier	nt:	
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 routine groundwater monitoring and sampling activities were conducted during Fourth Quarter 2013.

DISCUSSION:

The most recent groundwater monitoring/sampling occurred during the Third Quarter of 2013, the results of which are contained within the Q3 QWM Report. The scope of work outlined in the Work Plan Addendum was carried out in late December 2013, carrying over into the first quarter of 2014. A report documenting these field activities is currently underway and will be submitted during the first quarter 2014.

A site location map is presented 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 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

Ferrous Iron

Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, September 4, 2013

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

μ**g/L**:

micrograms per liter

DRAWINGS



