

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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RECEIVED

2:02 pm, Jul 23, 2012

Alameda County
Environmental Health

July 17, 2012

Re: Second Quarter 2012 Status 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,



Shannon Couch
Operations Project Manager

Attachment:

July 17, 2012

Project No. 06-88-614

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

Attn.: Ms. Shannon Couch

Re: Second Quarter 2012 Status Report, Atlantic Richfield Company Station #2107, 3310
Park Boulevard, Oakland, Alameda County, California; ACEH Case #RO0002526

Dear Ms. Couch:

Attached is the *Second Quarter 2012 Status Report* for Atlantic Richfield Company Station #2107 located at 3310 Park Boulevard, Oakland, 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.

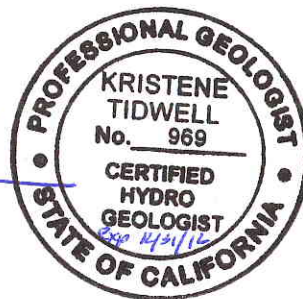
Sincerely,
BROADBENT & ASSOCIATES, INC.



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)
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2012
STATUS REPORT
STATION #2107, OAKLAND, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Second Quarter 2012 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #2107 located in Oakland, 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 #2107 / 3310 Park Boulevard, Oakland, 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>06-88-614</u>
Primary Regulatory Agency / ID No.:	<u>ACEH / Case #RO0002526</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 1, 2012 (Q1 GWM Report).
2. No environmental field activities were conducted during the 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-11A, MW-11B, MW-12A, MW-12B, MW-13A, MW-13B</u>	(1Q & 3Q)
Groundwater sample collection:	<u>MW-11A, MW-11B, MW-12A, MW-12B, MW-13A, MW-13B</u>	(1Q & 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 field activities were conducted during Second Quarter 2012.</u>
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DISCUSSION:

No environmental field activities were conducted by Broadbent at the Site during the Second Quarter of 2012. The most recent groundwater monitoring/sampling occurred during the First Quarter of 2012, the results of which are contained within the Q1 QWM Report. 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 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 #2107, 3310 Park Boulevard, Oakland, California

Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, January 16, 2012, Station #2107, 3310 Park Boulevard, Oakland, 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

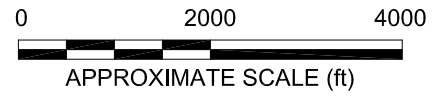
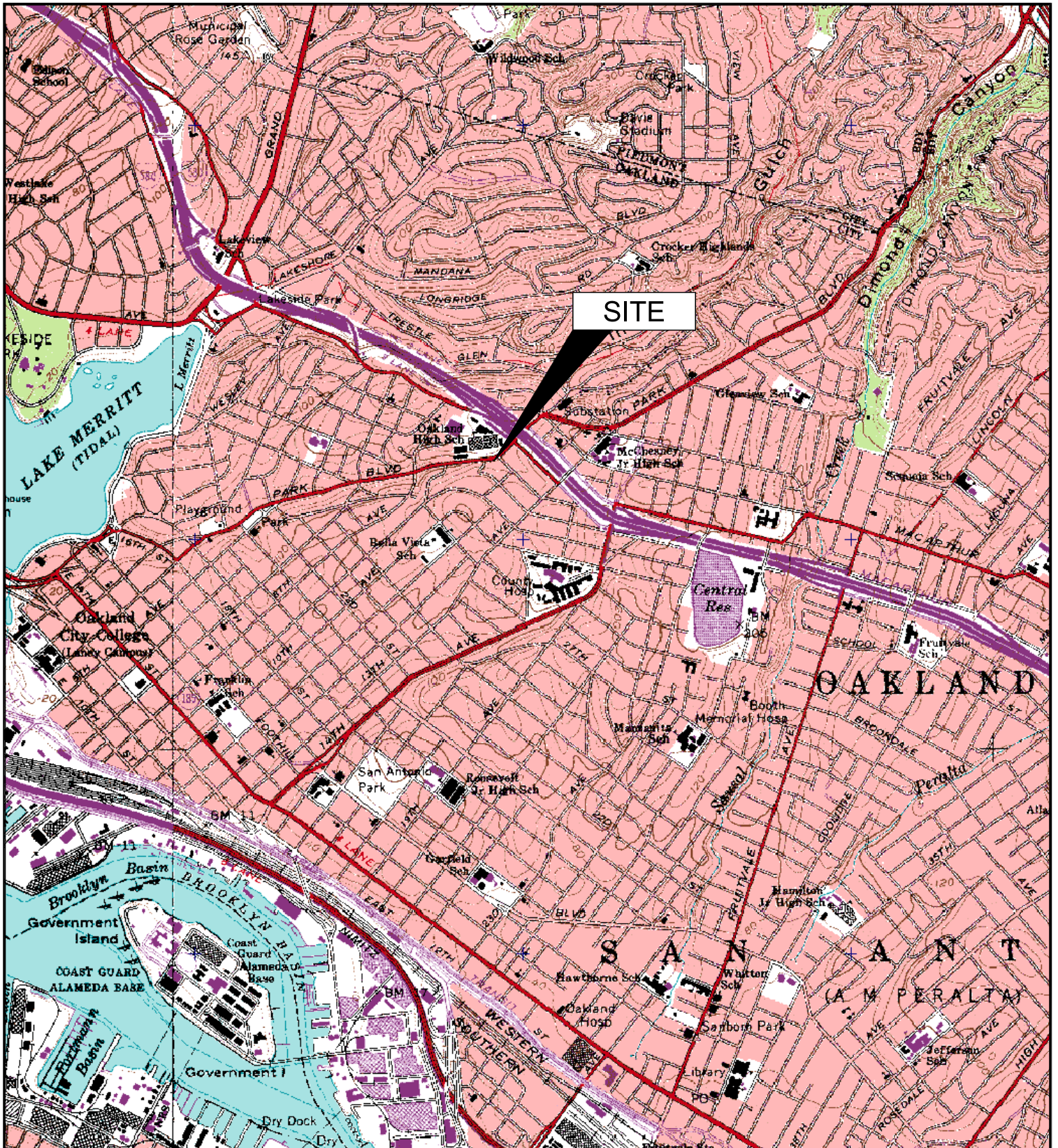


IMAGE SOURCE: USGS

BROADBENT & ASSOCIATES, INC
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave, Suite 212, Chico, CA 95926
 Project No.: 06-88-614 Date: 07/22/09

Station #2107
 3310 Park Boulevard
 Oakland, California

Site Location Map

Drawing

1

Oakland High School

MW-13A	MW-13B
111.44*	111.28
<50	<50
<0.50	<0.50
37	49
SA(1,3)	SA(1,3)

MW-12A	MW-12B
111.52*	111.39
<50	<50
<0.50	<12
18	840
SA(1,3)	SA(1,3)

PARK BLVD.

MW-11B	MW-11A
113.35	106.77*
<50	--
<1.0	--
47	--
SA(1,3)	SA(1,3)

E. 34th ST.

33rd St.

Building

LEGEND

- MONITORING WELL LOCATION
- DESTROYED WELL LOCATION
- HYDRO PUNCH LOCATION
- SOIL BORING LOCATION
- HYDRD PUNCH AND SOIL BORING LOCATION

Well	WELL DESIGNATION
ELEV	GROUND-WATER ELEVATION (FT NAVD88)
GRO	CONCENTRATIONS OF GRO, BENZENE & MTBE IN MICROGRAMS PER LITER (µg/L)
Benzene	
MTBE	
Q	SAMPLING FREQUENCY

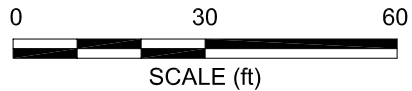
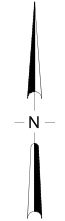
GROUND-WATER FLOW DIRECTION AND GRADIENT (FT/FT)

- 113.0 GROUND-WATER ELEVATION CONTOUR (FEET)

SA(1,3) SAMPLED SEMI-ANNUALLY, 1ST AND 3RD QUARTER

< NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT

* WELL NOT USED TO GENERATE CONTOURS



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California
 Project No.: 06-88-614 Date: 2/16/2012

Station #2107
 3310 Park Boulevard
 Oakland, California

Groundwater Elevation Contours
 and Analytical Summary Map
 January 16, 2012

Drawing
2