# **Atlantic Richfield Company**

#### **Shannon Couch**

Environmental Business Manager

PO Box 1257 San Ramon, CA 94583 Phone: (925) 275-3804 Mobile: (510) 798-8314 E-Mail: Shannon.Couchl@bp.com

# **RECEIVED**

8:08 am, Feb 02, 2012

Alameda County Environmental Health

January 31, 2012

Re: Fourth Quarter 2011 Status Report

Atlantic Richfield Company Station #2111 1156 Davis Street, San Leandro, California

ACEH Case #RO0000494

"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

**Environmental Business Manager** 

Attachment:





January 31, 2012

Project No. 06-88-615

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

Attn.: Ms. Shannon Couch

Re:

Fourth Quarter 2011 Status Report, Atlantic Richfield Company Station #2111,

1156 Davis Street, San Leandro, Alameda County, California; ACEH Case #RO0000494

Dear Ms. Couch:

Attached is the Fourth Quarter 2011 Status Report for Atlantic Richfield Company Station #2111 located at 1156 Davis Street, Alameda County, California (Site). This report presents a summary of current developments at the Site through the Fourth Quarter of 2011. 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, E.I.T.

alex month

Staff Engineer

Thomas A. Sparrowe, P.G.

Senior Geologist

Homas

**Enclosures** 

cc:

Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site) Mr. Karl Busche, City of San Leandro Environmental Services Division, 835 East 14<sup>th</sup> Street, San Leandro, California 945977 (Submitted via Geo Tracker)

Electronic copy uploaded to GeoTracker

# FOURTH QUARTER 2011 STATUS REPORT STATION #2111, SAN LEANDRO, 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 Station #2111 located in San Leandro, 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:

Client Project Manager / Title:

Broadbent Contact:

Broadbent Project No.:

Broadbent Project No.:

Current phase of project:

List of Acronyms / Abbreviations:

Station #2111 / 1156 Davis Street, San Leandro, California

Ms. Shannon Couch, Remediation Management Project Manager

Tom Sparrowe, P.G., (707) 455-7290

06-88-615

Alameda County Environmental Health (ACEH)/ Case #RO0000494

Monitoring

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 31, 2011.*
- 2. No environmental field activities were conducted 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 2012 groundwater monitoring/sampling activities.

#### **GROUNDWATER MONITORING PLAN SUMMARY:**

Groundwater level gauging:	MW-1 through MW-8	(1Q & 3Q)
Groundwater sample collection:	MW-1 through MW-5, MW-7 and	•
	MW-8	(1Q & 3Q)
	MW-6	(3Q)
Biodegradation indicator parameter		•
monitoring:	None	

#### **OUARTERLY 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 field activities were conducted during Fourth

Quarter 2011.

Micrograms per liter

#### **DISCUSSION:**

No environmental field work was conducted by Broadbent 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, 10/31/11). As to date, ARC and Broadbent are awaiting further correspondence from ACEH or access from the offsite property owner to proceed with an offsite investigation to determine if the petroleum hydrocarbons in the groundwater plume present an exposure hazard to down gradient receptors. For immediate reference, a site location map is provided as Drawing 1 and a groundwater elevation and analytical summary map, dated August 30, 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:**

Fe<sup>2+</sup>:

Ferrous Iron

Drawing 1: Site Location Map, Station #2111, 1156 Davis Street, San Leandro, California

Drawing 2: Groundwater Elevation Contours and Analytical Summary Map, August 30, 2011, Station

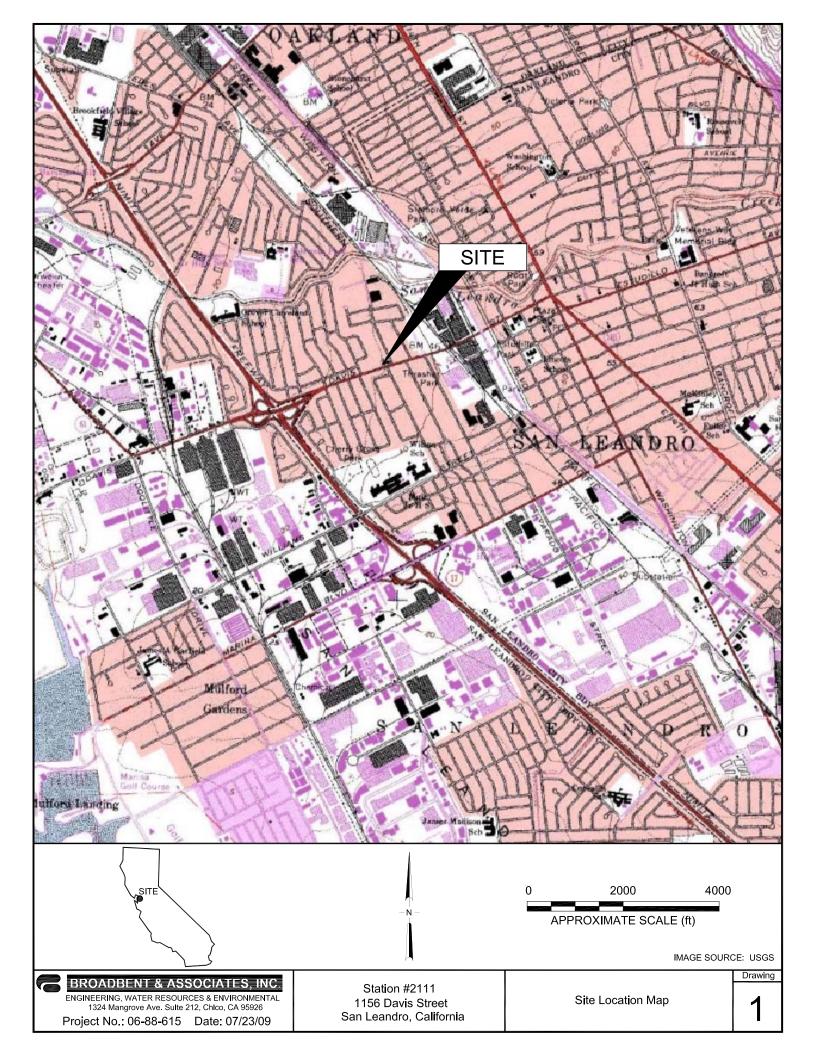
#2111, 1156 Davis Street, San Leandro, California

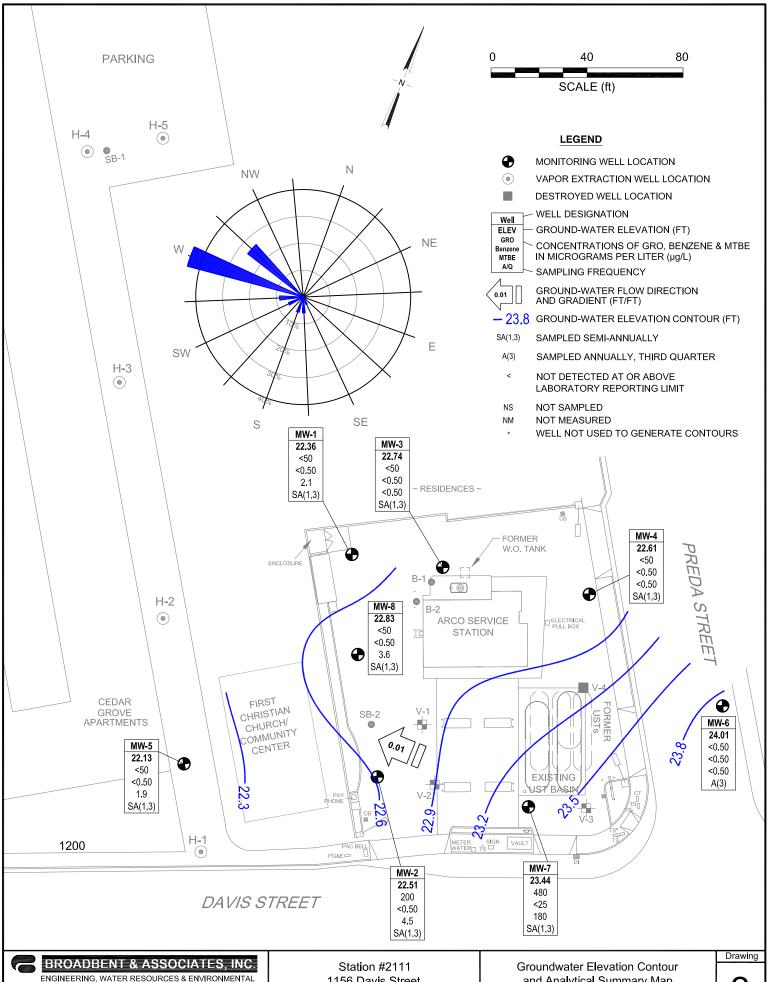
#### LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

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

μg/L:

# **DRAWINGS**





ENGINEERING, WATER RESOURCES & ENVIRONMENTAL 1324 Mangrove Ave. Suite 212, Chico, California 95926

Project No. 06-88-615 Date: 10/6/2011

Station #2111 1156 Davis Street San Leandro, California Groundwater Elevation Contour and Analytical Summary Map August 30, 2011