

Atlantic Richfield Company

Shannon Couch
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10:54 am, Jul 12, 2011

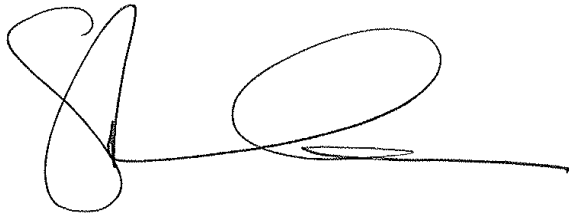
Alameda County
Environmental Health

July 5, 2011

Re: Second Quarter 2011 Status Report
Atlantic Richfield Company Station #2112
1260 Park Street, Alameda, California
ACEH Case #RO0000044

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 5, 2011

Project No. 06-88-616

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

Attn.: Ms. Shannon Couch

Re: Second Quarter 2011 Status Report, Atlantic Richfield Company Station #2112,
1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Ms. Couch:

Attached is the Second Quarter 2011 Status Report for Atlantic Richfield Company Station #2112 located at 1260 Park Street, Alameda, California. Should you have questions regarding this submittal, please do not hesitate to contact me at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.



Thomas A. Venus, P.E.
Senior Engineer



Enclosures

cc: Mr. Paresh Khatri, Alameda County Environmental Health (submitted via ACEH ftp site)
Electronic copy uploaded to GeoTracker

**SECOND QUARTER 2011
STATUS REPORT
ARCO STATION #2112, ALBANY, CALIFORNIA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *Second Quarter 2011 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for ARCO Station #2112 located in Alameda, Alameda County, California. Quarterly reporting is being submitted to the Alameda County Environmental Health Services Agency (ACEH) consistent with their requirements under the legal authority of the California Regional Water Quality Control Board as codified by California Code of Regulations Title 23, Section 2652(d). A summary description of current developments regarding the Site is provided below.

Facility Name / Address:	<u>ARCO Station #2112 / 1260 Park Street, Alameda</u>
Client Project Manager / Title:	<u>Ms. Shannon Couch / RM Operations Project Manager</u>
BAI Contact:	<u>Mr. Tom Venus, PE / (530) 566-1400</u>
BAI Project No.:	<u>06-88-616</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000044</u>
Current phase of project:	<u>Awaiting Closure Approval</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 2011):

1. Submitted *First Quarter 2011 Monitoring Report* (BAI, 4/29/2011).
2. Conducted sensitive receptor survey, and prepared and submitted a *Case Evaluation and Justification for No Further Action Status* report (BAI, 5/31/2011).
3. No environmental field work was conducted at Station #2112 during the Second Quarter 2011.

WORK SCHEDULED FOR NEXT QUARTER (Third Quarter 2011):

1. Submit *Second Quarter 2011 Status Report* (contained herein).
2. No environmental field work is presently scheduled at Station #2112 during the Third Quarter 2011.
3. Await case closure notice from ACEH with approval to abandon wells.

DISCUSSION:

In their letter dated September 3, 2009, the ACEH stated that soil sample analytical results indicated that the Site might still pose a risk to human health, specifically potential contaminant volatilization to indoor air. This position was based on interpretation of results within the *On-Site Soil Investigation Report* (BAI, 8/10/2009) in which GRO and Benzene were detected at concentrations of 2,000 milligrams per kilogram (mg/kg) and 0.23 mg/kg, respectively from a depth of 11 ft in boring B-8, on the southwest side of the station building. Like the majority of soil samples collected from borings on the southeast side of the station building that did not detect or detected low concentrations of hydrocarbons, soil samples collected in boring B-8 at 5 ft and 8 ft detected no GRO or Benzene above the laboratory reporting limits. Based on the September 3, 2009 ACEH request, BAI had originally proposed to install and sample new soil gas monitoring implants at the Site for the purposes of conducting a vapor intrusion assessment.

Guidance available now however, suggests that there is no need to assess the vapor intrusion pathway with low concentrations of dissolved petroleum hydrocarbons in groundwater (i.e. Benzene less than 1 mg/L and GRO less than 10 mg/L) and greater than five feet separation between a contaminant source and building. According to California State Water Resources Control Board draft guidance, there have been no published examples of petroleum vapor intrusion for this site condition and that modeling studies indicate bioattenuation will limit the potential for vapor intrusion. During the last several rounds of monitoring at Station #2112, groundwater samples from wells across the Site have tested negative for petroleum hydrocarbon contaminants. Therefore a *Case Evaluation and Request for No Further Action* report (BAI, 5/31/2011) was prepared and submitted to the ACEH. BP and BAI currently await a response from the ACEH. For reference, a Site Location Map is provided as Drawing 1.

ATTACHMENTS:

Drawing 1: Site Location Map

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
BAI:	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

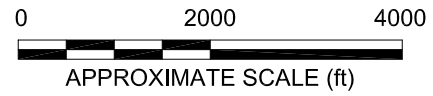
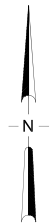
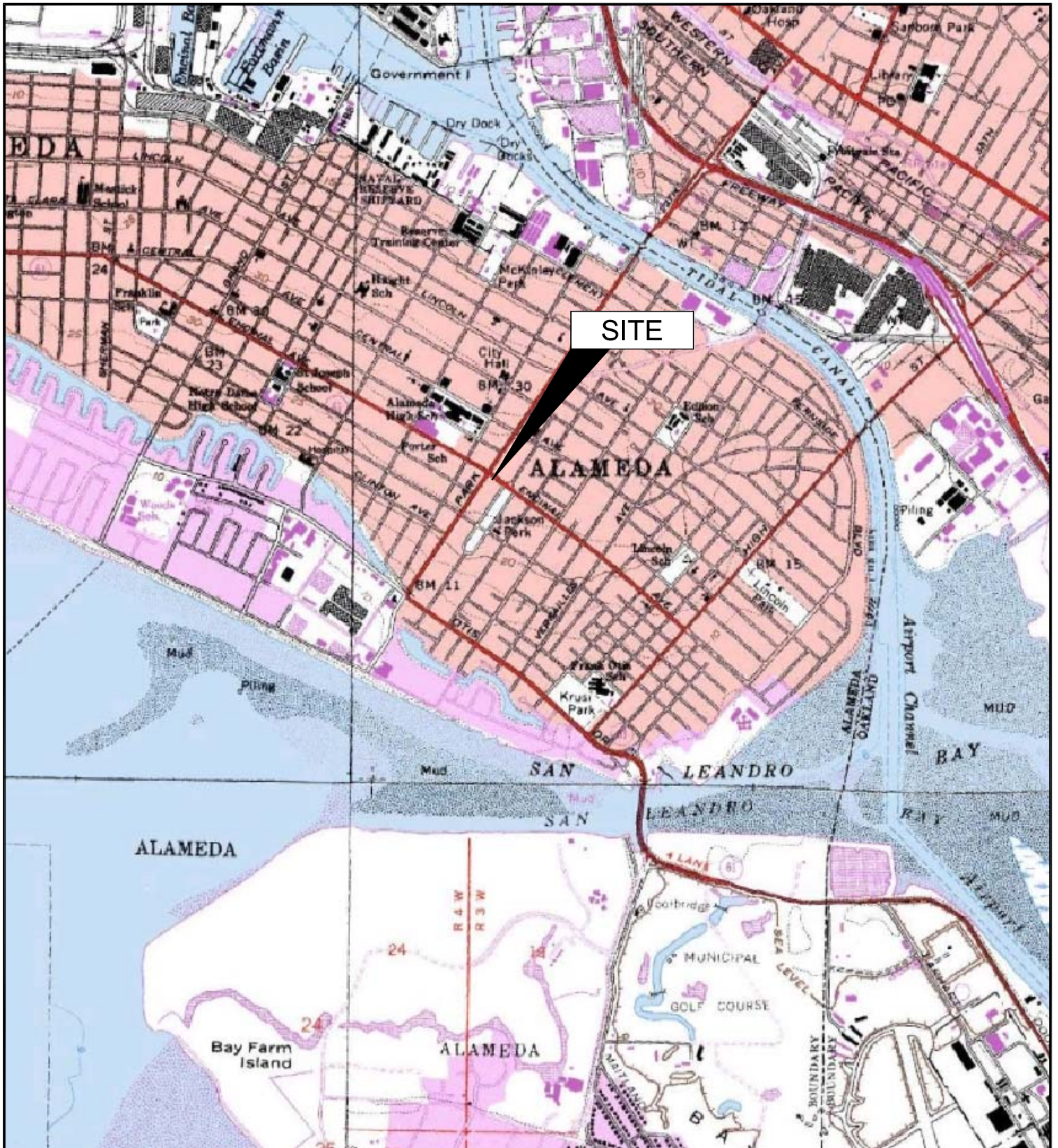


IMAGE SOURCE: USGS