

Atlantic Richfield Company

Shannon Couch
Operations Project Manager

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RECEIVED

5:54 pm, Jun 11, 2012

Alameda County
Environmental Health

April 5, 2012

Re: First Quarter 2012 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



BROADBENT

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Creating Solutions. Building Trust.

April 5, 2012

Project No. 06-88-616

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

Attn.: Ms. Shannon Couch

Re: First Quarter 2012 Status Report, Atlantic Richfield Company Station #2112,
1260 Park Street, Alameda, California; ACEH Case #RO0000044

Dear Ms. Couch:

Attached is the First Quarter 2012 Status Report for Atlantic Richfield Company Station #2112 located at 1001 San Pablo Avenue, Albany, California. This report presents a summary of current developments at the Site through the First Quarter of 2012.

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: Ms. Dilan Roe, P.E., Alameda County Environmental Health (submitted via ACEH ftp site)
Messrs. Martin Vallejo & Joel Guterrez, M & S Mini Mart, Inc., 1260 Park Street,
Alameda, CA 94501
Electronic copy uploaded to GeoTracker

**FIRST QUARTER 2012
STATUS REPORT
ARCO STATION #2112, ALAMEDA, CALIFORNIA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *First Quarter 2012 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>
Broadbent Contact:	<u>Mr. Tom Venus, PE / (530) 566-1400</u>
Broadbent Project No.:	<u>06-88-616</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000044</u>
Current phase of project:	<u>Vapor Intrusion Investigation to obtain Site 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 (First Quarter 2012):

1. Submitted *Fourth Quarter 2011 Monitoring Report* (Broadbent, 1/5/2012).
2. No environmental field work was conducted at Station #2112 during the First Quarter 2012.

WORK SCHEDULED FOR NEXT QUARTER (Second Quarter 2012):

1. Submit *First Quarter 2012 Status Report* (contained herein).
2. Submit addendum to *Revised Vapor Intrusion Assessment Work Plan* (Broadbent, 4/15/2010).
3. Install and sample soil-gas implants behind station building to investigate soil vapor intrusion.

DISCUSSION:

Due to a lack of petroleum hydrocarbon contaminants in groundwater samples at Station #2112 during the last several rounds of monitoring, Broadbent prepared and submitted a *Case Evaluation and Request for No Further Action* (BAI, 5/31/2011). Although it was found that low concentrations of dissolved petroleum hydrocarbons exist in groundwater (i.e. Benzene less than 1 mg/L and GRO less than 10 mg/L) and there is greater than five feet of separation between a contaminant source and building, the ACEH stated in a letter dated October 27, 2011, proposed adoptions to existing leaking UST regulations could not be implemented prior to finalization. The ACEH requested implementing the previously-approved *Revised Vapor Intrusion Assessment Work Plan* (Broadbent, 4/15/2010). Pre-planning has been initiated, a contractor has been competitively selected, the Work Risk Assessment safety meeting has occurred, the borings have been marked for USA and cleared of underground utility conflicts by a private locator, and the process of securing the drilling permit from the Alameda County Public Works Agency (ACPWA) is underway. Broadbent is prepared to implement the work plan submitted April 15, 2010, detailing the installation and sampling of soil gas on the southeastern side of the station building in order to assess the potential of soil vapor intrusion into the station building from the low levels of residual petroleum hydrocarbon contamination remaining near the former leaking USTs excavation. However, final review of the older work plan by BP's Remediation & Engineering Technology Group has identified areas for improvement. Therefore, Broadbent shall submit an addendum to the work plan for ACEH information prior to implementation. For reference, a Site Location Map is provided as Drawing 1. A Site Plan with Proposed Soil Gas Boring Locations is provided as Drawing 2.

ATTACHMENTS:

- Drawing 1: Site Location Map
- Drawing 2: Site Plan with Proposed Soil Gas Boring Locations

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

ACEH:	Alameda County Environmental Health	ft/ft:	feet per foot
ACPWA:	Alameda County Public Works Agency	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

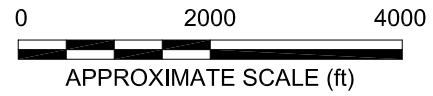
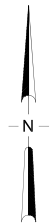
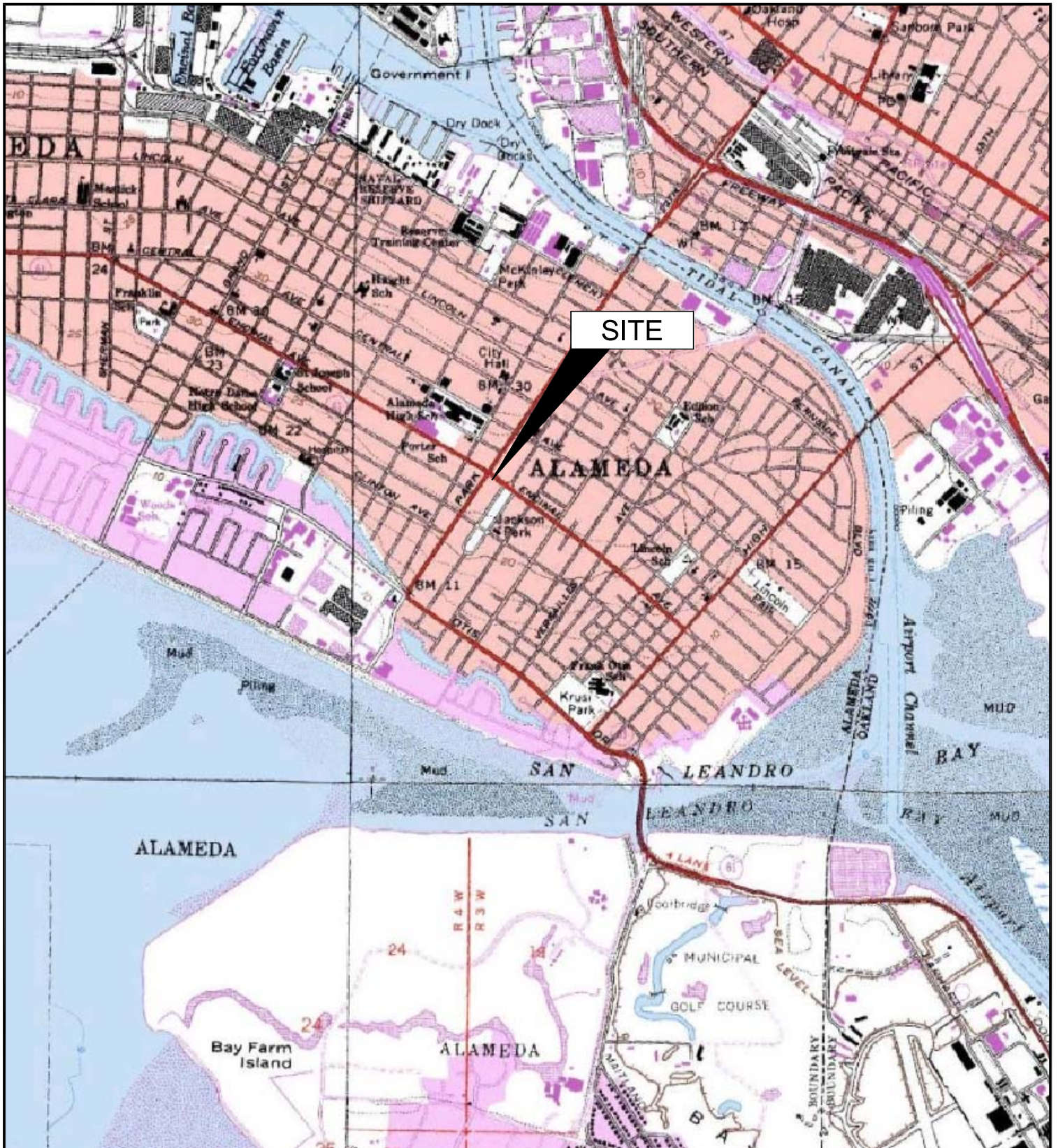
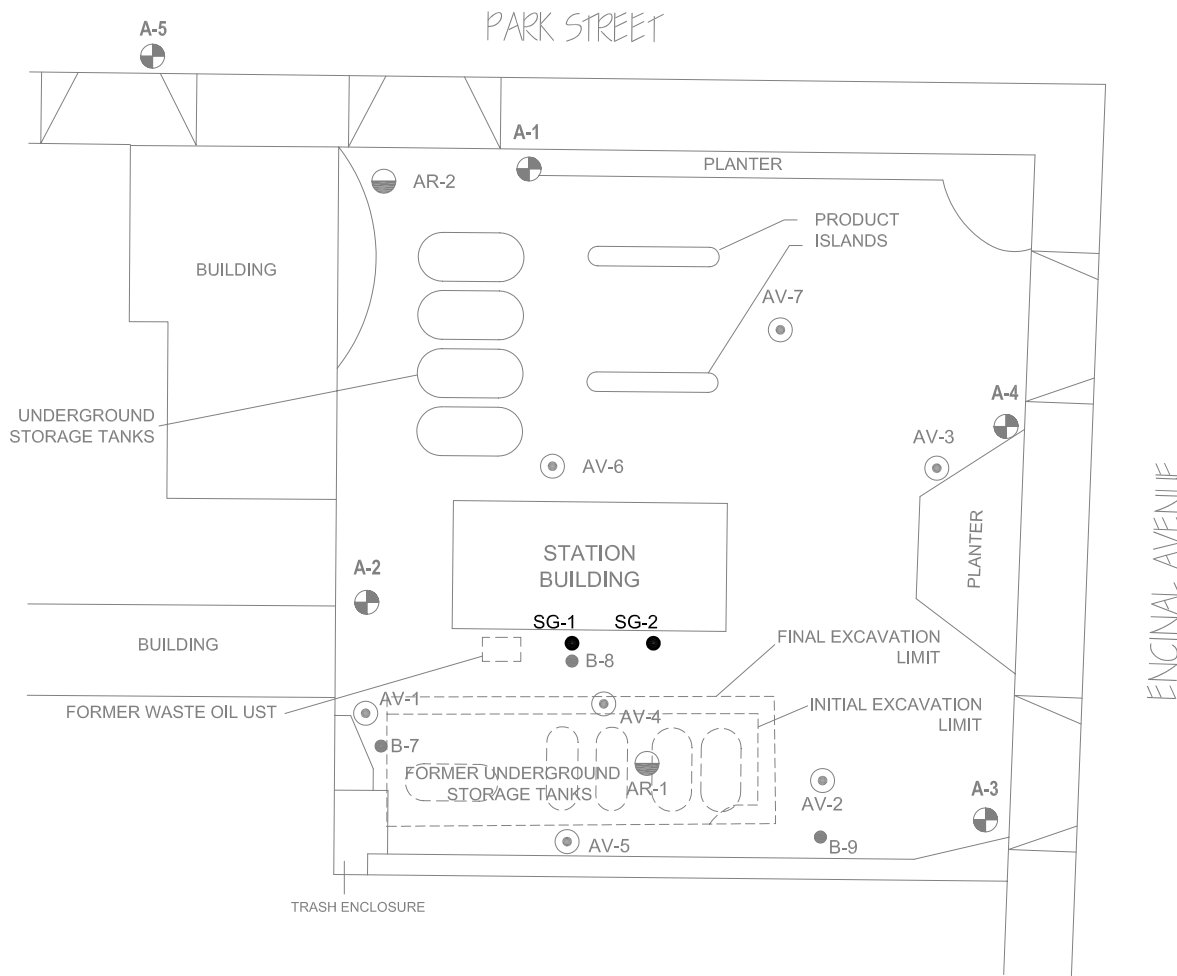
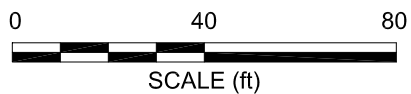
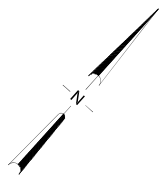


IMAGE SOURCE: USGS



LEGEND:

- SG-2 PROPOSED SOIL GAS BORING
- ⊕ A-1 MONITORING WELL LOCATION
- ⊖ AR-1 GROUND-WATER EXTRACTION WELL LOCATION
- ⊙ AV-1 VAPOR EXTRACTION WELL LOCATION
- B-9 RECENT BORING LOCATION
- EXCAVATED AREA



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-88-616 Date: 10/14/09

Station #2112
1260 Park Street
Alameda, California

Site Map with Proposed
Soil Gas Boring Locations

Drawing

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