

Atlantic Richfield Company

Chuck Carmel
Environmental Business Manager

RECEIVED

11:38 am, May 02, 2011

Alameda County
Environmental Health

PO Box 1257
San Ramon, CA 94583
Phone: (925) 275-3803
Fax: (925) 275-3815
E-Mail: charles.carmel@bp.com

April 27, 2011

Re: First Quarter 2011 Status Report
Atlantic Richfield Company Station #6113
785 East Stanley Boulevard, Livermore, California
ACEH Case #RO0000393

"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
Project Manager

Attachment

FIRST QUARTER 2011 STATUS REPORT

Atlantic Richfield Company Station #6113
785 East Stanley Blvd., Livermore, California
ACEH Case # RO0000393

Prepared for

Mr. Chuck Carmel
Project Manager
Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583

Prepared by



1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400
www.broadbentinc.com

April 27, 2011

Project No. 06-82-637

April 27, 2011

Project No. 06-82-637

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

Attn.: Mr. Chuck Carmel

Re: First Quarter 2011 Status Report, Atlantic Richfield Company Station #6113
785 East Stanley Blvd, Livermore, California; ACEH Case #RO0000393

Dear Mr. Carmel:

Provided herein is the *First Quarter 2011 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #6113 located at 785 East Stanley Blvd., Livermore, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the First Quarter 2011.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

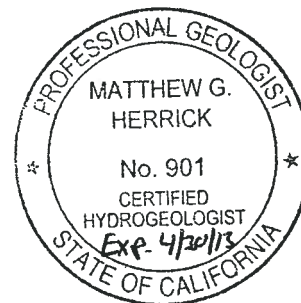
BROADBENT & ASSOCIATES, INC.



Jason Duda
Project Scientist



Matthew G. Herrick, P.G., C.HG.
Senior Hydrogeologist



Enclosures

cc: Mr. Paresh Khatri, ACEH (Submitted via ACEH ftp Site)
Mr. Paul M. Smith/Ms. Danielle Stefani, Livermore-Pleasanton Fire Department
(submitted via GeoTracker)
Electronic copy uploaded to GeoTracker

**FIRST QUARTER 2011
STATUS REPORT
STATION #6113, LIVERMORE, CA**

Broadbent & Associates, Inc. (BAI) is pleased to present this *First Quarter 2011 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for ARCO Station #6113 located in Livermore, 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>Station #6113 / 785 East Stanley Boulevard, Livermore, CA</u>
Client Project Manager / Title:	<u>Mr. Chuck Carmel / Project Manager</u>
BAI Contact:	<u>Jason Duda, (530) 566-1400</u>
BAI Project No.:	<u>06-82-637</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0000393</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 (First Quarter 2011):

1. Prepared and submitted the *Fourth Quarter 2010 Semi-Annual Groundwater Monitoring Report*.
2. Prepared and submitted the *Work Plan to Conduct a Mobile Dual-Phase Extraction Event*.
3. No environmental work was conducted at the Site during First Quarter 2011.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2011):

1. Prepared and submitted this *First Quarter 2010 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Second Quarter 2011.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-2, MW-4, MW-7, MW-9, (2Q & 4Q) MW-11, MW-12, RMW-13, VW-1, VW-2, and VW-4</u>
Groundwater sample collection:	<u>MW-2, MW-4, MW-7, MW-9, (2Q & 4Q) MW-11, MW-12, RMW-13, VW-1, VW-2, and VW-4</u>
Biodegradation indicator parameter monitoring:	<u>NA</u>

DISCUSSION:

No environmental field activities took place at the Site during First Quarter 2011. For reference, a Site Location Map is provided as Drawing 1. Provided as Drawing 2 is the Ground-Water Elevation Contours and Analytical Summary Map from the *Fourth Quarter 2010 Semi-Annual Groundwater Monitoring Report* (BAI, 1/26/2011) for ground-water monitoring/sampling conducted on November 4, 2010. The next semi-annual groundwater monitoring and sampling event is scheduled to be conducted during the Second Quarter 2011.

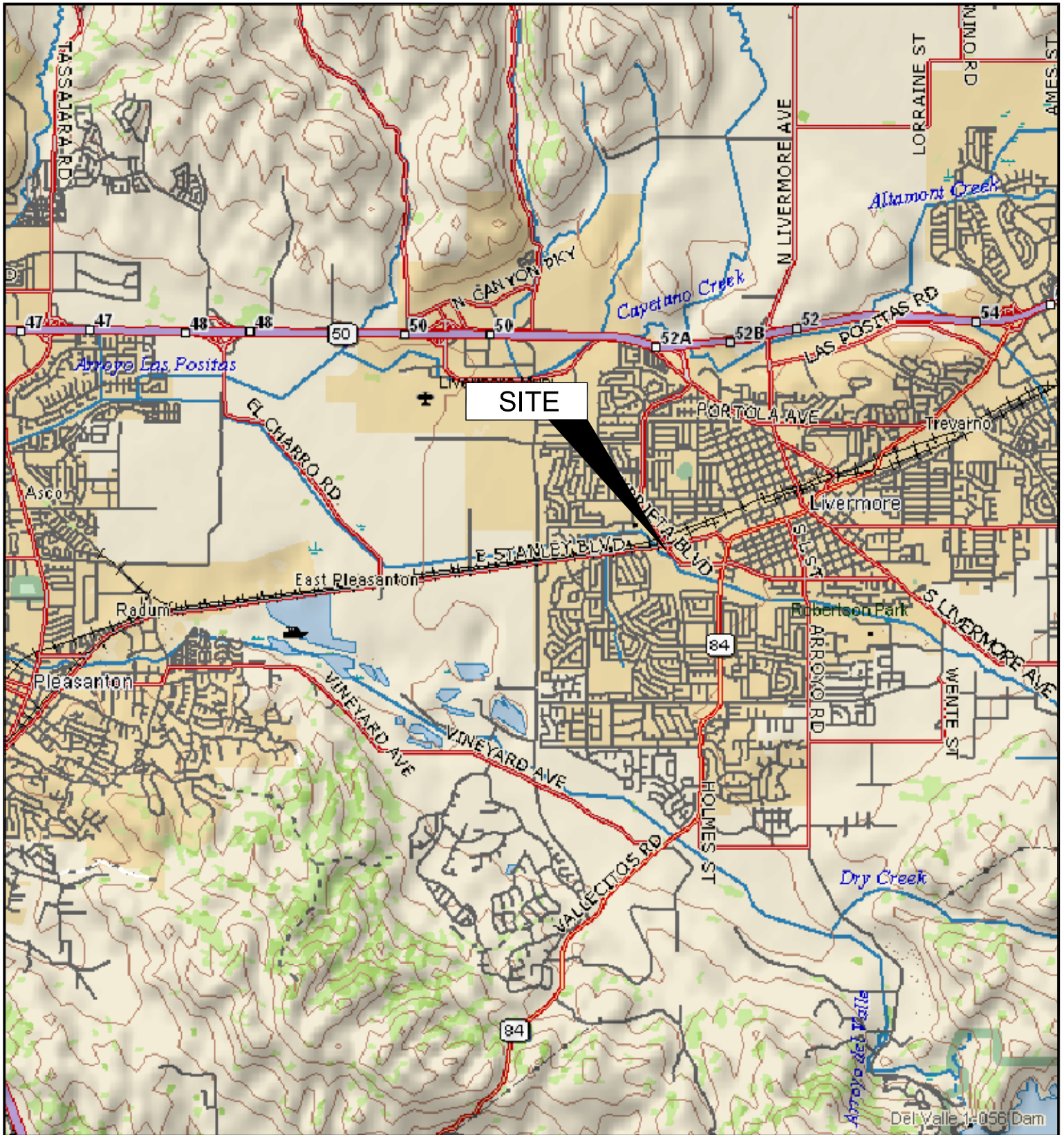
The *Work Plan to Conduct a Mobile Dual-Phase Extraction Event* was submitted to ACEH on March 7, 2011. Upon receipt of approval from ACEH regarding this Work Plan, preparation and conduct of a mobile dual-phase extraction event will commence.

ATTACHMENTS:

- Drawing 1 Site Location Map, Station #6113, 785 East Stanley Boulevard, Livermore, California
- Drawing 2. Ground-Water Elevation Contour and Analytical Summary Map, Station #6113, 785 East Stanley Boulevard, Livermore, California

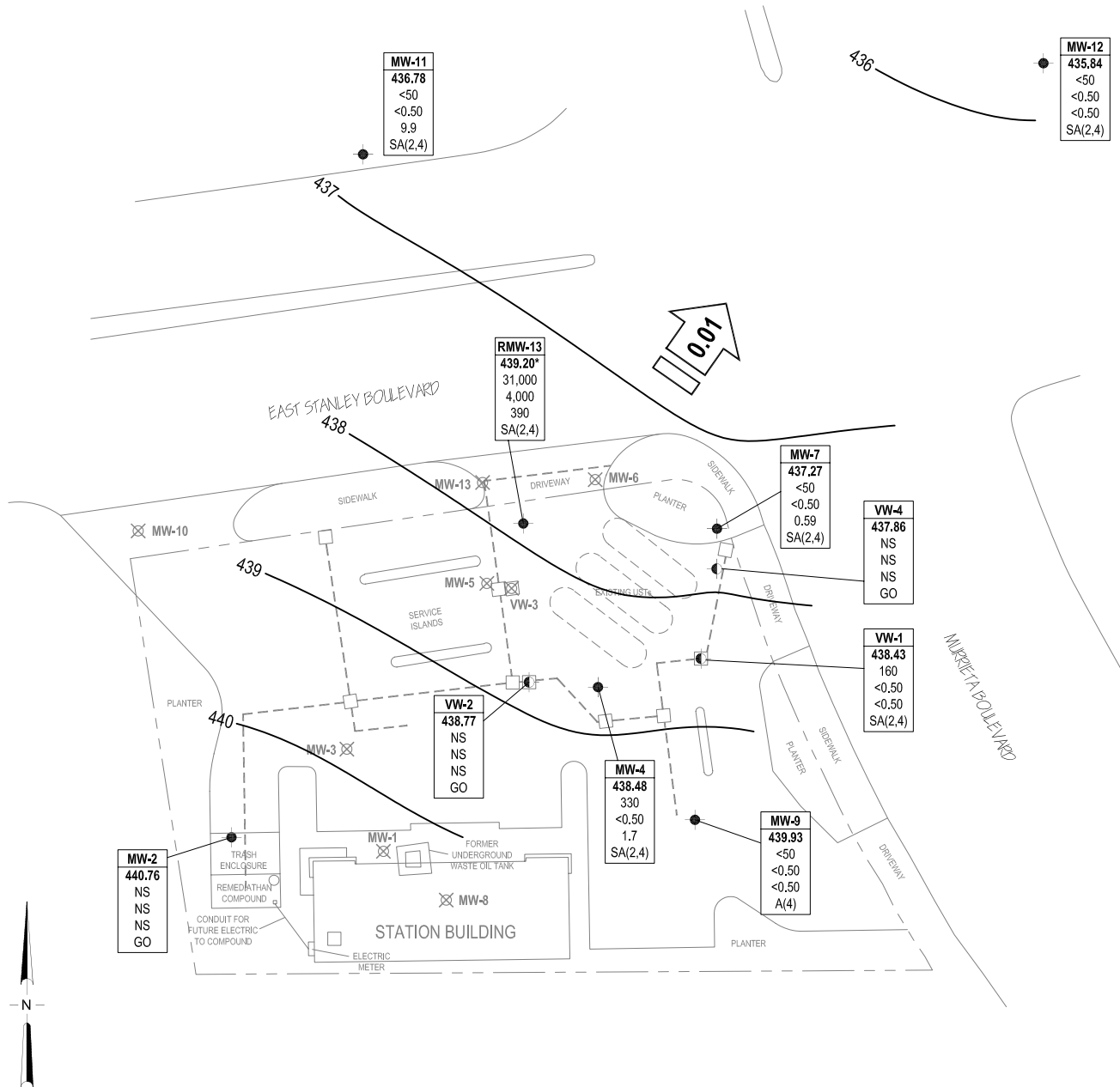
LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

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



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



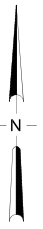
LEGEND

- Monitoring well
- Vapor extraction well
- Abandoned well
- 437 Ground-water elevation contour (ft/MSL)

Well	Well Designation
ELEV	Ground-water Elevation
GRO	GRO, Benzene and MTBE concentration (µg/L)
Benzene	
MTBE	
A/SA	Sampling frequency
A(4)	Sampled annually, 4th quarter
SA(2,4)	Semi-annual sampling, 2nd and 4th quarters
GO	Gauge only
NS	Not Sampled
NM	Not Measured
*	Not Used in Contouring

- 0.01 Approximate ground-water flow direction and gradient (ft/ft)
- Vault box
- Piping trench

NOTE: SITE MAP ADAPTED FROM CAMBRIA ENVIRONMENTAL FIGURES. SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave, Suite 212, Chico, California 95926
 Project No.: 06-82-637 Date: 12/8/2010

Station #6113
 785 East Stanley Boulevard
 Livermore, California

Ground-Water Elevation Contour and
 Analytical Summary Map
 November 4, 2010