

Atlantic Richfield Company

Shannon Couch
Project Manager

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April 30, 2013

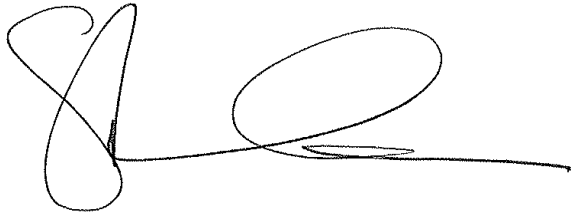
RECEIVED

By Alameda County Environmental Health at 10:47 am, May 01, 2013

Re: First Quarter 2013 Status Report
Atlantic Richfield Company Station #498
286 South Livermore Avenue, Livermore, California
ACEH Case No. RO0002873

"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
Project Manager

Attachment



**FIRST QUARTER 2013 STATUS REPORT
Atlantic Richfield Company Station #498
286 South Livermore Ave.
Livermore, Alameda County, California**

Prepared for:

Ms. Shannon Couch
Atlantic Richfield Company
P.O. Box 1257
San Ramon, CA 94583

Prepared by:

Broadbent & Associates, Inc.
1370 Ridgewood Drive, Suite 5
Chico, California 95973
(530) 566-1400

April 30, 2013

No. 08-82-603



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broadbentinc.com

CREATING SOLUTIONS. BUILDING TRUST.

April 30, 2013

Project No. 08-82-603

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

Attn.: Ms. Shannon Couch

Re: First Quarter 2013 Status Report, Atlantic Richfield Company Station #498,
286 South Livermore Ave, Livermore, California; ACEH Case #RO0002873

Dear Ms. Couch:

Provided herein is the *First Quarter 2013 Status Report* for Atlantic Richfield Company (a BP affiliated company) Station #498 located at 286 S. Livermore Ave., Livermore, Alameda County, California (Site). This report presents a summary of current developments regarding the Site through the First Quarter 2013.

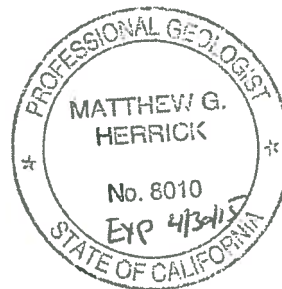
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Jason Duda
Project Scientist

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



Enclosures

cc: Mr. Jerry Wickham, Alameda County Environmental Health, 1131 Harbor Bay Parkway,
Suite 250, Alameda, CA 84502 (Submitted via ACEH ftp Site)
Electronic copy uploaded to GeoTracker

**FIRST QUARTER 2013
STATUS REPORT
STATION #498, LIVERMORE, CA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *First Quarter 2013 Status Report* on behalf of Atlantic Richfield Company (a BP affiliated company) for Station #498 located in Livermore, Alameda County, California. 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 #498 / 286 South Livermore Avenue, Livermore, California</u>
Client Project Manager / Title:	<u>Ms. Shannon Couch / Project Manager</u>
Broadbent Contact:	<u>Jason Duda, (530) 566-1400</u>
Broadbent Project No.:	<u>08-82-603</u>
Primary Regulatory Agency / ID No.:	<u>ACEH, Case #RO0002873</u>
Current phase of project:	<u>Monitoring and On-Site Assessment</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 2013):

1. Prepared and submitted the *Fourth Quarter 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/11/2013)
2. Conducted on-Site soil and groundwater investigation activities between March 18 and 22, 2013.

WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2013):

1. Prepared and submitted this *First Quarter 2013 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Second Quarter 2013.
3. Complete and submit *Soil and Groundwater Investigation Report*.

GROUNDWATER MONITORING PLAN SUMMARY:

Groundwater level gauging:	<u>MW-1 through MW-4</u>	(2Q & 4Q)
Groundwater sample collection:	<u>MW-1 through MW-4</u>	(2Q & 4Q)
Biodegradation indicator parameter monitoring:	<u>NA</u>	

DISCUSSION:

For reference, a Site Location Map is provided as Drawing 1. Provided as Drawing 2 is the Groundwater Elevation Contours and Analytical Summary Map from the *Fourth Quarter 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/11/2013). The next ground-water monitoring and sampling event is scheduled to be conducted during the Second Quarter 2013.

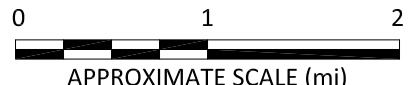
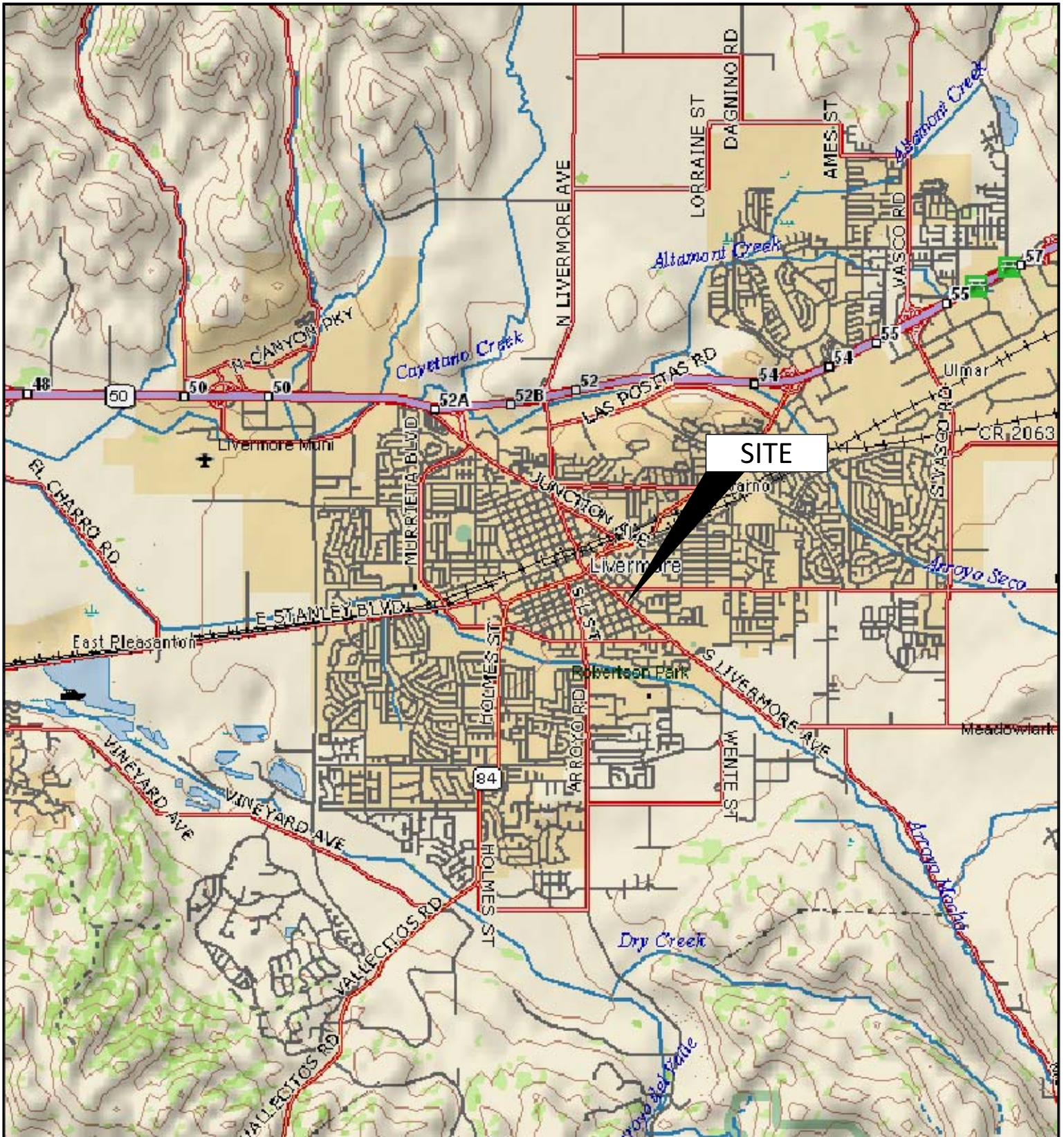
Broadbent submitted the *Soil and Groundwater Investigation Work Plan* dated December 7, 2012, which proposed on-site soil and groundwater assessment activities to define the site stratigraphy and vertical and lateral distribution of contamination using Cone Penetration Testing (CPT) drilling techniques. Conditional approval of the proposed scope of work was received from ACEH in a letter dated December 24, 2012. On-site soil and groundwater characterization activities were completed during March 2013. A detailed *Soil and Groundwater Investigation Report* is scheduled to be completed and submitted during the Second Quarter 2013.

ATTACHMENTS:

- Drawing 1 Site Location Map, Station #498, 286 South Livermore Avenue, Livermore, California
- Drawing 2. Groundwater Elevation Contours and Analytical Summary Map, October 9, 2012,
Station #498, 286 South Livermore Avenue, Livermore, California

LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:

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



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



1370 Ridgewood Dr., Suite 5
Chico, California 95973

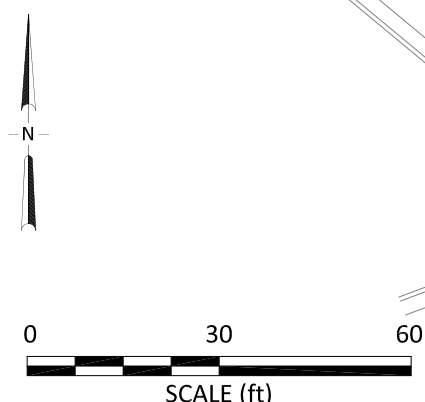
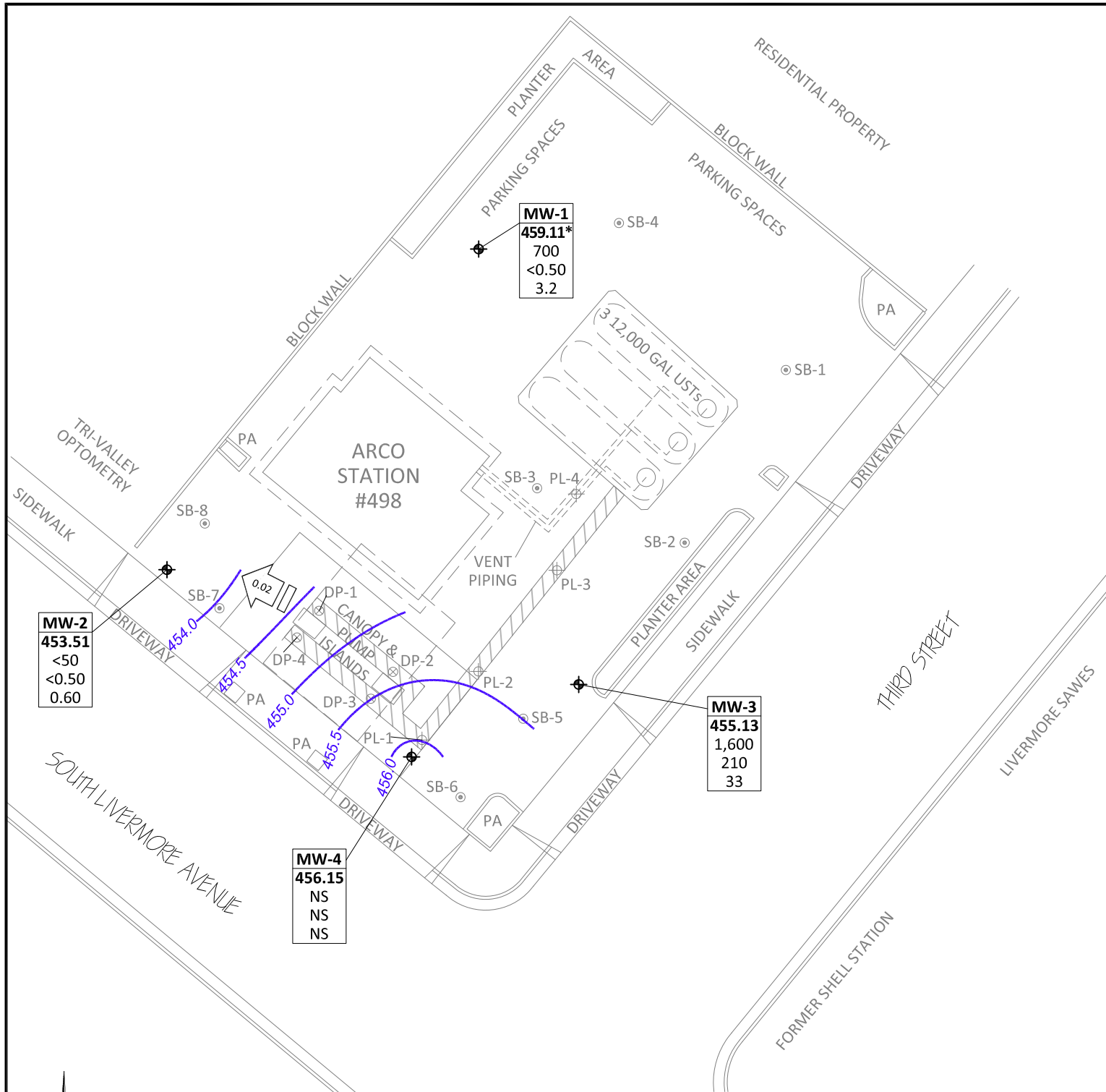
Project No.: 08-82-603 Date: 12/3/2012

Station #498
286 South Livermore Avenue
Livermore, California

Site Location Map

Drawing

1



LEGEND	
	Monitor Well Location
	Soil Boring (URS 2005)
	Product Line Soil Sample (Delta 2001)
	Dispenser Pump Soil Sample (Delta 2001)
	Well designation
	Groundwater elevation
	Concentration of GRO, Benzene, and MTBE in groundwater (µg/L)
<	Not detected at or above laboratory reporting limits
NS	Not sampled
*	Not used in contouring
	Product Line Excavation Trench
	Groundwater Elevation Contour (Feet Above Site Datum)
	Groundwater Gradient (ft/ft)

NOTES: SITE MAP ADAPTED FROM WATSON WEST, DELTA ENVIRONMENTAL AND WOOD RODGERS FIGURES. WOOD RODGERS SURVEY COMPLETED DECEMBER 2, 2008.