

RECEIVED

By Alameda County Environmental Health at 4:23 pm, Oct 29, 2013

Atlantic Richfield Company

Chuck Carmel
Project Manager

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

October 25, 2013

Re: Third Quarter 2013 Status Report
Atlantic Richfield Company Service 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,



Chuck Carmel
Project Manager

Attachment

THIRD QUARTER 2013 STATUS REPORT
Atlantic Richfield Company Station #498
286 South Livermore Avenue, Livermore, California
ACEH Case #RO0002873

Prepared for

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

Prepared by



1370 Ridgewood Drive, Suite 5
Chico, California 95973
(530) 566-1400
www.broadbentinc.com

October 25, 2013

Project No. 08-82-603



BROADBENT

1370 Ridgewood Drive, Suite 5, Chico, CA 95973

[T] 530-566-1400 [F] 530-566-1401

broadbentinc.com

CREATING SOLUTIONS. BUILDING TRUST.

October 25, 2013

Project No. 08-82-603

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

Attn.: Mr. Chuck Carmel

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

Dear Mr. Carmel:

Provided herein is the *Third 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 Third 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

Robert H. Miller, P.G., C.HG.
Principal 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

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

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Third 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>Mr. Chuck Carmel / 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- and Off-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 (Third Quarter 2013):

1. Prepared and submitted the *Second Quarter 2013 Semi-Annual Groundwater Monitoring Report* (Broadbent, 7/26/2013)
2. Prepared and submitted the *Additional Soil and Groundwater Investigation Work Plan and Sensitive Receptor Survey* (Broadbent, 8/20/2013).

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2013):

1. Prepared and submitted this *Third Quarter 2013 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Fourth Quarter 2013.
3. Conduct additional on- and off-Site assessment activities.

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 *Second Quarter 2013 Semi-Annual Groundwater Monitoring Report* (Broadbent, 7/26/2013). The next groundwater monitoring and sampling event is scheduled to be conducted during the Fourth Quarter 2013.

ACEH approval of the *Additional Soil and Groundwater Investigation Work Plan and Sensitive Receptor Survey* (Broadbent, 8/20/2013) was received on September 9, 2013. Preparation of conduct of on- and off-Site assessment activities is currently in progress. Assessment activities are anticipated to be completed during Fourth Quarter 2013 and the summary report submitted during First Quarter 2014.

ATTACHMENTS:

Drawing 1 Site Location Map, Station #498, 286 South Livermore Avenue, Livermore, California

Drawing 2 Groundwater Elevation Contours and Analytical Summary Map, Second Quarter 2013,
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		

DRAWINGS

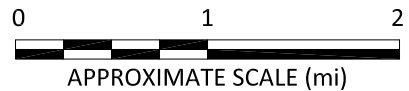
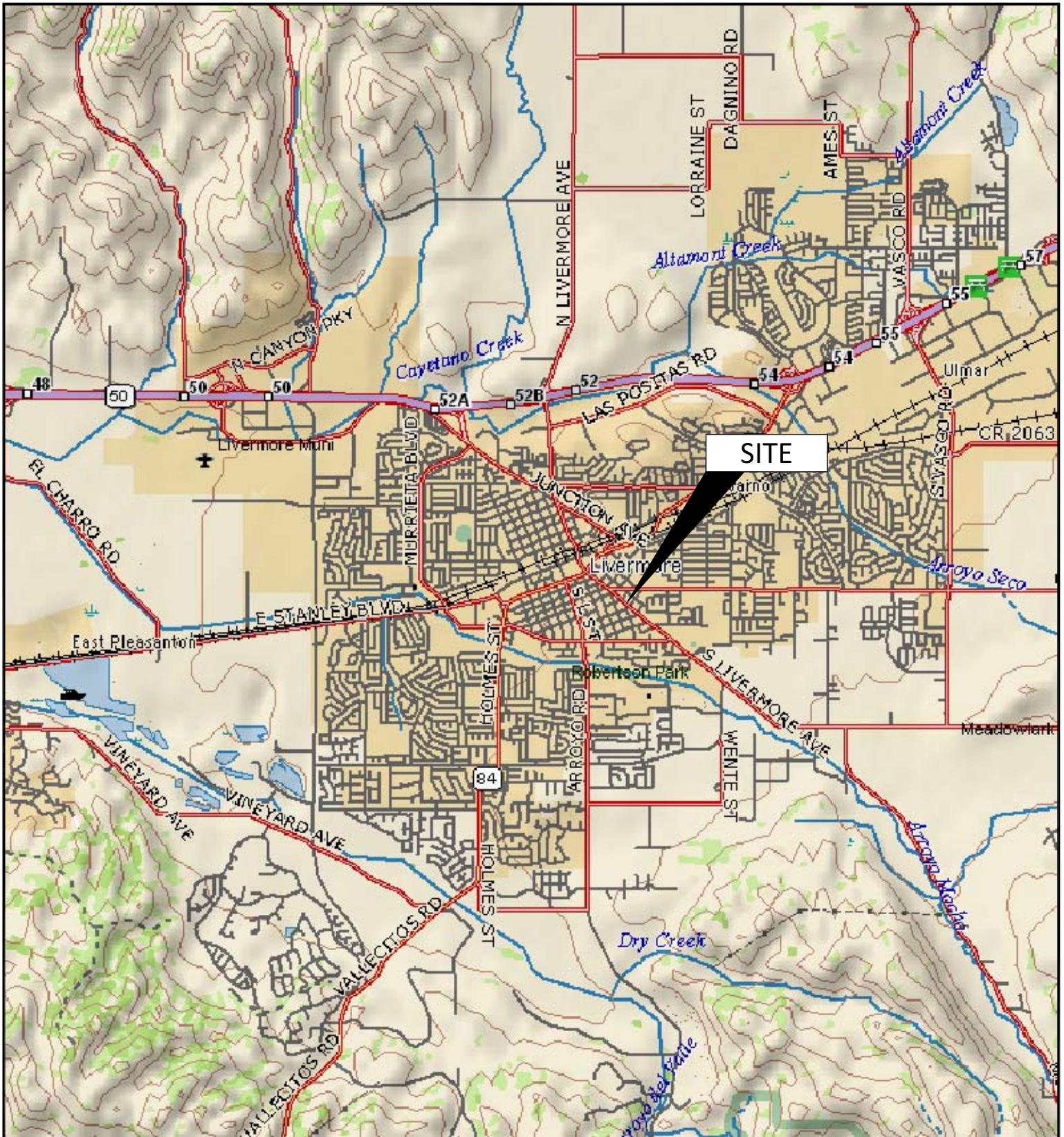


IMAGE SOURCE: DELORME



1370 Ridgewood Dr., Suite 5
Chico, California 95973

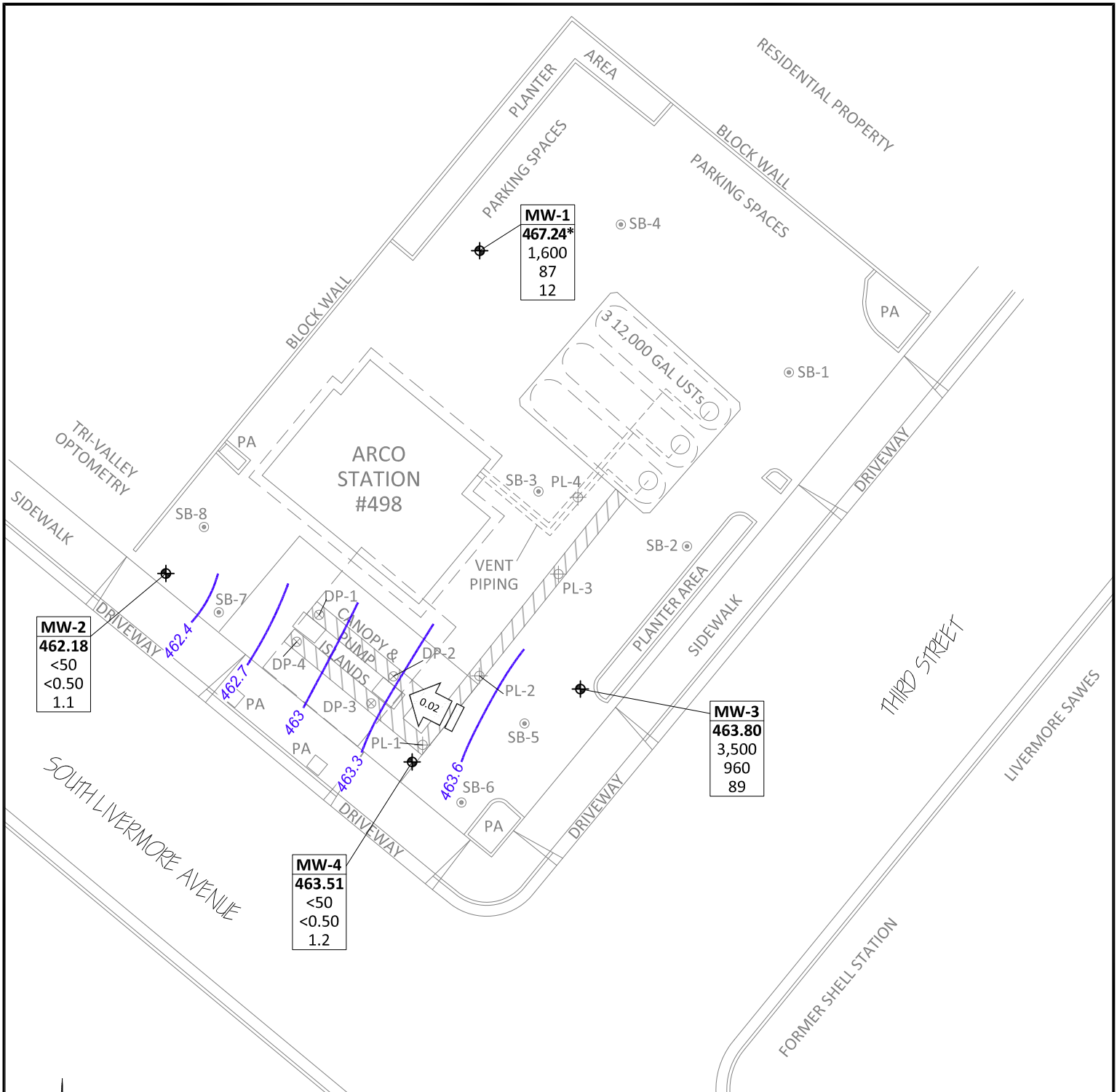
Project No.: 08-82-603 Date: 12/3/2012

Station #498
286 South Livermore Avenue
Livermore, California

Site Location Map

Drawing

1

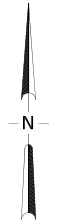


MW-2
462.18
<50
<0.50
1.1

MW-1
467.24*
1,600
87
12

MW-3
463.80
3,500
960
89

MW-4
463.51
<50
<0.50
1.2



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)
	Product Line Excavation Trench
	Groundwater Elevation Contour (Feet Above Site Datum)
	Groundwater Gradient (ft/ft)
<	Not detected at or above laboratory reporting limits
NS	Not sampled
*	Not used in contouring

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

BROADBENT
 1370 Ridgewood Dr., Suite 5
 Chico, California 95973
 Project No.: 08-82-603 Date: 7/18/2013

Station #498
 286 South Livermore Avenue
 Livermore, California

Groundwater Elevation Contour
 and Analytical Summary Map
 Second Quarter, 2013

Drawing
2