

Atlantic Richfield Company

Shannon Couch
Project Manager

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October 26, 2012

Re: Third Quarter 2012 Status Report
Atlantic Richfield Company Station #498
286 South Livermore Avenue, Livermore, California
ACEH Case No. RO0002873

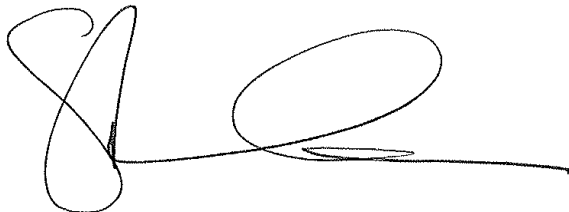
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12:46 pm, Nov 01, 2012

Alameda County
Environmental Health

"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



THIRD QUARTER 2012 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.
1324 Mangrove Avenue, Suite 212
Chico, California 95926
(530) 566-1400

October 26, 2012

No. 08-82-603



BROADBENT

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broadbentinc.com

Creating Solutions. Building Trust.

October 26, 2012

Project No. 08-82-603

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

Attn.: Ms. Shannon Couch

Re: Third Quarter 2012 Status Report, Atlantic Richfield Company Station #498,
286 South Livermore Ave, Livermore, California; ACEH Case #RO0002873

Dear Ms. Couch:

Provided herein is the *Third Quarter 2012 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 2012.

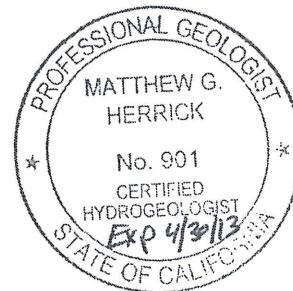
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

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

**THIRD QUARTER 2012
STATUS REPORT
STATION #498, LIVERMORE, CA**

Broadbent & Associates, Inc. (Broadbent) is pleased to present this *Third Quarter 2012 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 (Third Quarter 2012):

1. Prepared and submitted the *Second Quarter 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 7/30/2012)
2. No environmental field work was conducted at the Site during the Third Quarter 2012.

WORK PROPOSED FOR NEXT QUARTER (Fourth Quarter 2012):

1. Prepared and submitted this *Third Quarter 2012 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Fourth Quarter 2012.
3. Prepare and submit On-Site Assessment Work Plan by November 30, 2012.

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:

No environmental field activities took place at the Site during Third Quarter 2012. 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 2012 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/27/2012). The next ground-water monitoring and sampling event is scheduled to be conducted during the Fourth Quarter 2012.

In their letter dated September 18, 2012, ACEH requested the submittal of an on-Site assessment work plan to install borings along the northwestern property boundary in order to further delineate the lateral and vertical extent of hydrocarbon impact associated with the Site. These work activities were proposed in an

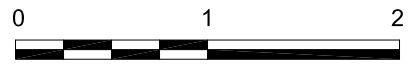
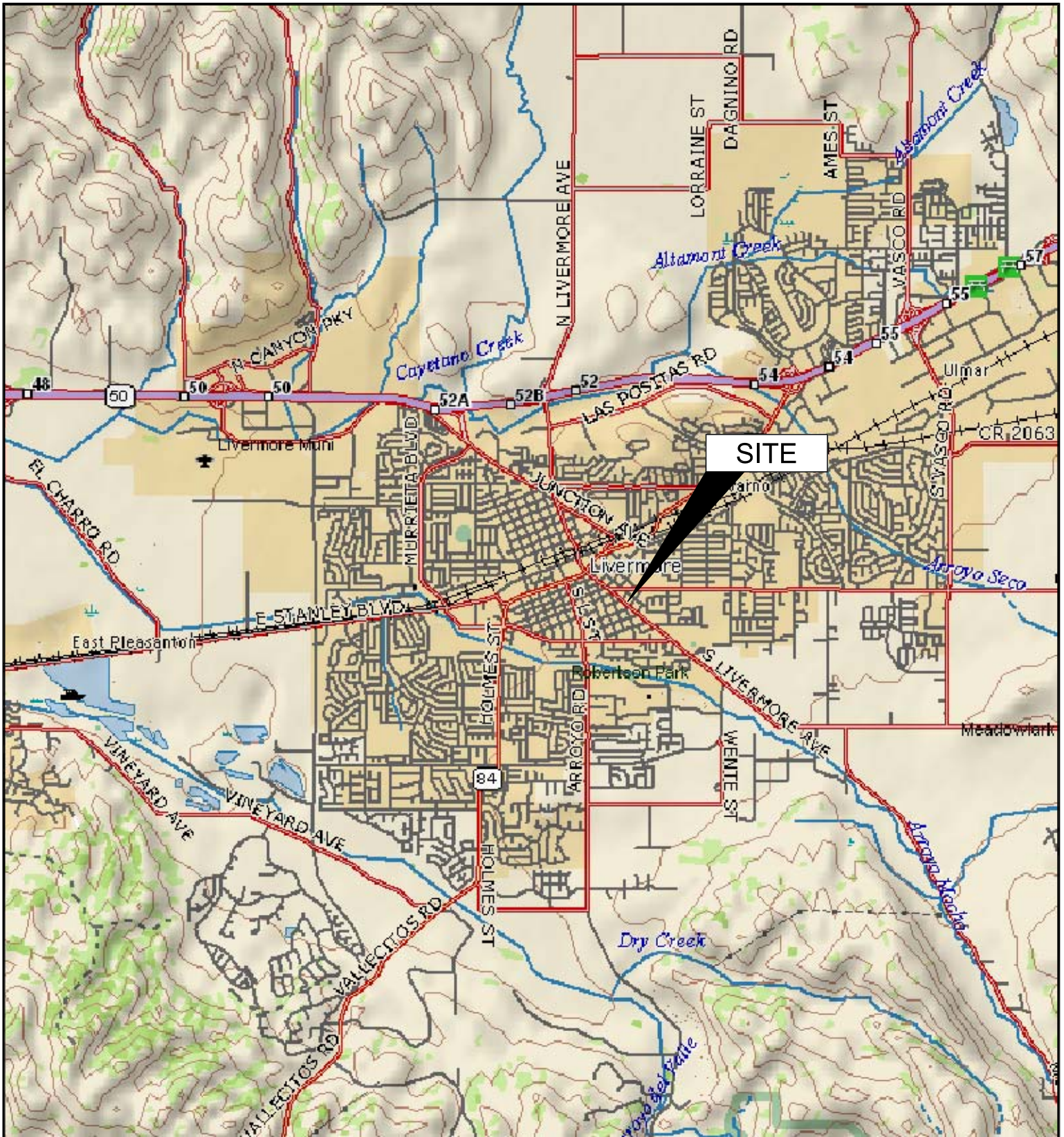
effort to avoid obtaining off-Site property access, which has been an on-going struggle with property owners directly northwest of the Site. An appropriate work plan is anticipated to be submitted by the requested deadline of November 30, 2012.

ATTACHMENTS:

- Drawing 1 Site Location Map, Station #498, 286 South Livermore Avenue, Livermore, California
- Drawing 2. Groundwater Elevation Contours and Analytical Summary Map, April 10, 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

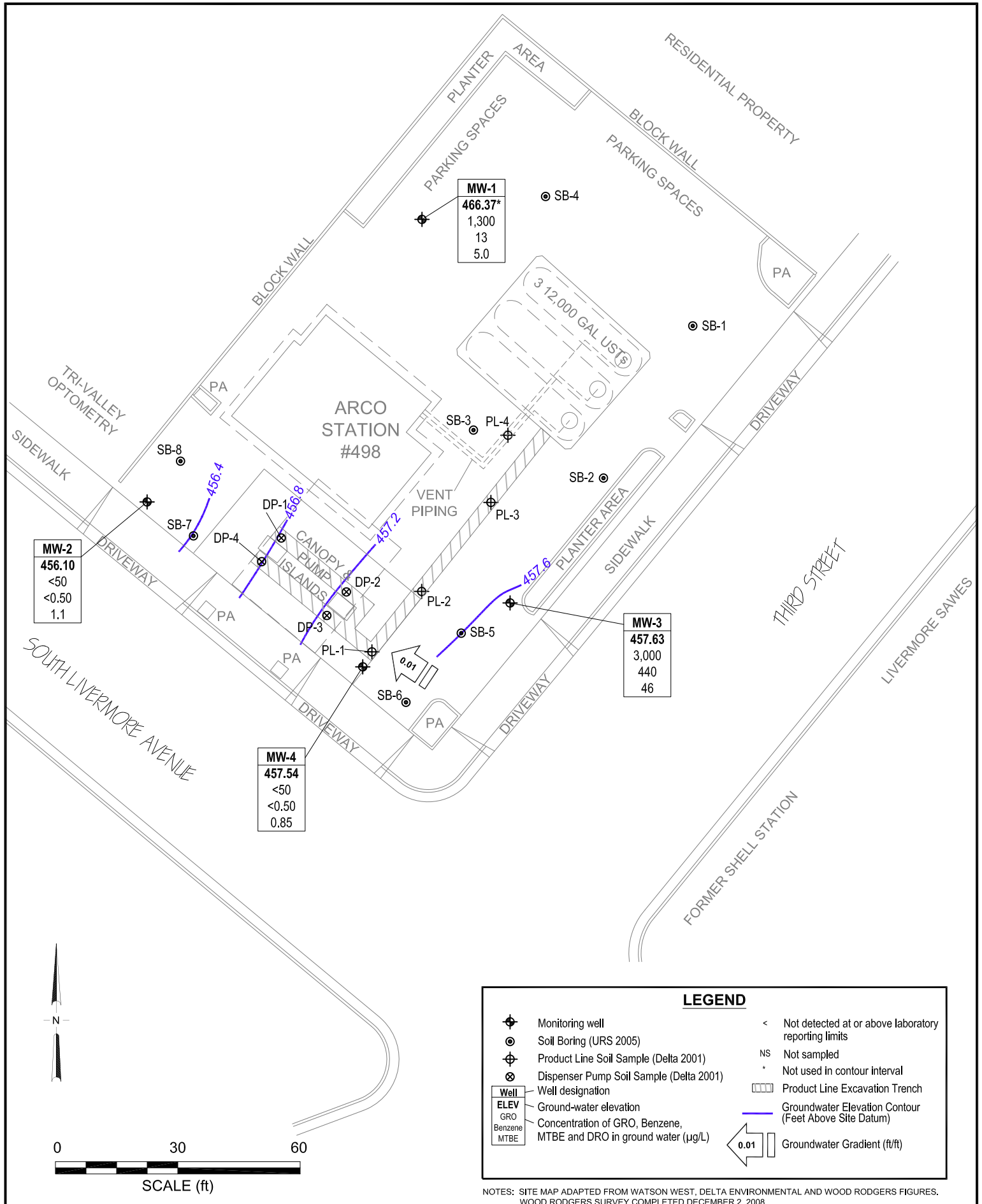
BROADBENT & ASSOCIATES, INC.
 ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
 1324 Mangrove Ave. Suite 212, Chico, California 95926
 Project No.: 08-82-603 Date: 6/22/2010

Station #498
 286 South Livermore Avenue
 Livermore, California

Site Location Map

Drawing

1



LEGEND

	Monitoring well	<	Not detected at or above laboratory reporting limits
	Soil Boring (URS 2005)	NS	Not sampled
	Product Line Soil Sample (Delta 2001)	*	Not used in contour interval
	Dispenser Pump Soil Sample (Delta 2001)		Product Line Excavation Trench
	Well designation		Groundwater Elevation Contour (Feet Above Site Datum)
	Ground-water elevation		Groundwater Gradient (ft/ft)
	Concentration of GRO, Benzene, MTBE and DRO in ground water (µg/L)		

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