

# Atlantic Richfield Company

**Shannon Couch**  
Project Manager

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April 13, 2012

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

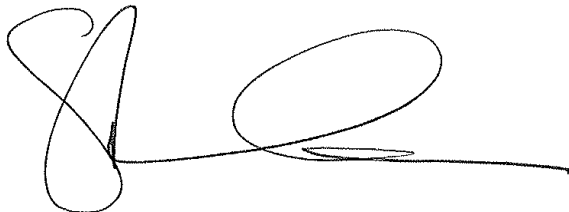
**RECEIVED**

**9:36 am, Apr 30, 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



**FIRST 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

April 13, 2012

No. 08-82-603



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*Creating Solutions. Building Trust.*

April 13, 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: First 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 *First 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 First Quarter 2012.

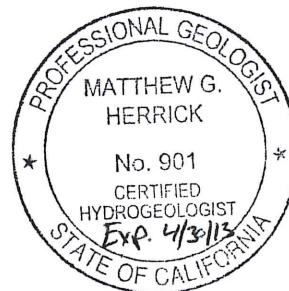
Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Jason Duda  
Project Scientist

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



Enclosures

cc: Ms. Dilan Roe, 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 2012  
STATUS REPORT  
STATION #498, LIVERMORE, CA**

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 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 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 (First Quarter 2012):**

1. Prepared and submitted the *Fourth Quarter 2011 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/27/2012)
2. No environmental field work was conducted at the Site during the First Quarter 2012.

**WORK PROPOSED FOR NEXT QUARTER (Second Quarter 2012):**

1. Prepared and submitted this *First Quarter 2012 Status Report* (contained herein).
2. Conduct semi-annual groundwater monitoring/sampling for Second Quarter 2012.
3. Conduct soil and groundwater investigation upon obtaining off-site property access.

**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 First 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 *Fourth Quarter 2011 Semi-Annual Groundwater Monitoring Report* (Broadbent, 1/27/2012). The next ground-water monitoring and sampling event is scheduled to be conducted during the Second Quarter 2012.

In their letter dated August 12, 2010, ACEH approved the *Soil and Ground-Water Investigation Work Plan Addendum* submitted by Broadbent on April 12, 2010. Off-site property access is required in order to complete the scope of work detailed in the Work Plan. Contact with the owner of the property located

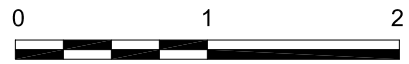
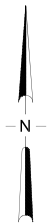
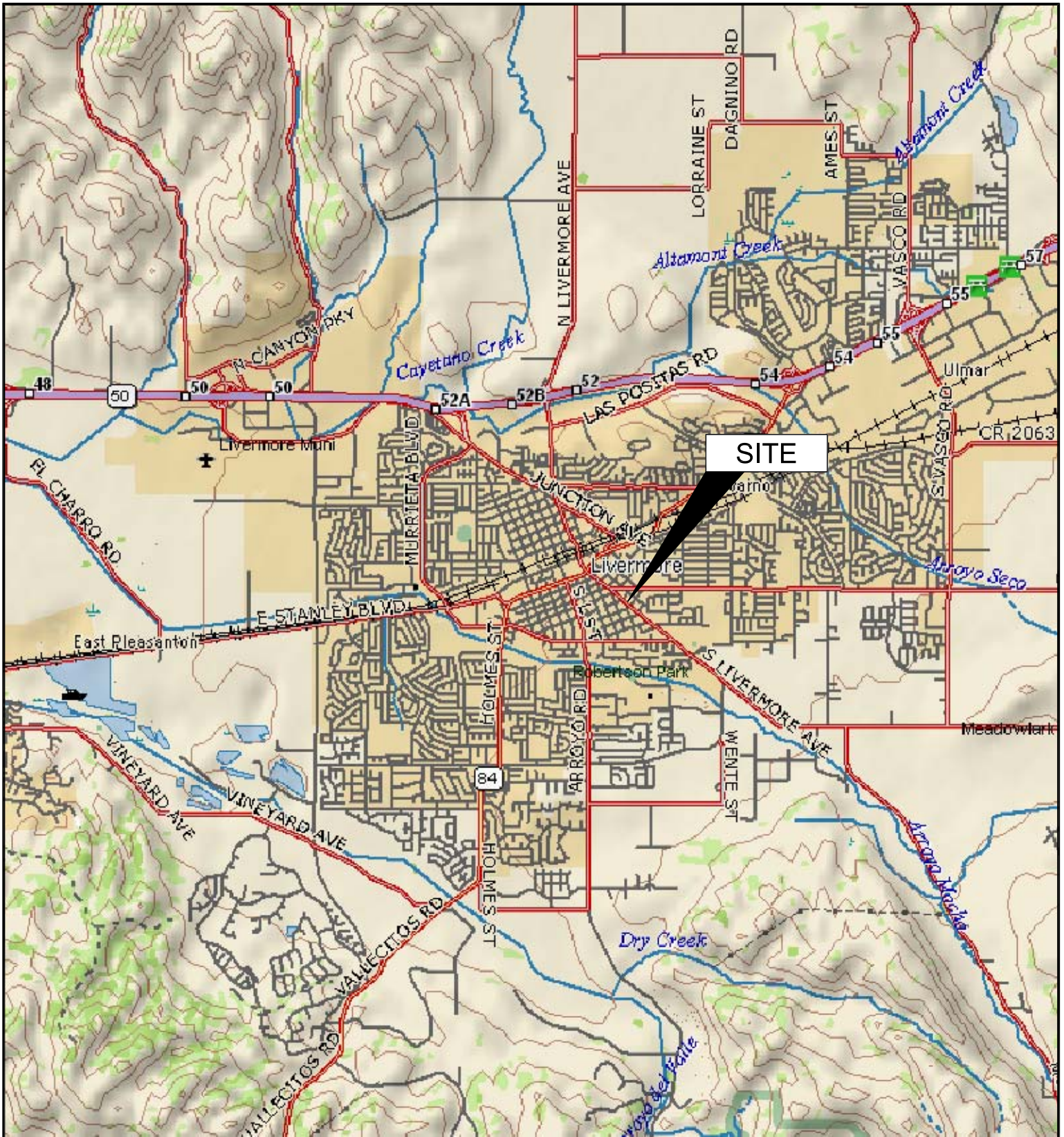
immediately northwest of the Site has been made on numerous occasions. However, the property owner has been reluctant to allow property access in order to complete the off-site investigation. Further communication with the property owner will be conducted during the Second Quarter 2012. In email correspondence dated November 4, 2010, ACEH approved a request to postpone the previous deadline of November 10, 2010 established for submittal of the Soil and Water Investigation Report until official property access is obtained. Property access to the next property further northwest of the Site may also be evaluated during the Second Quarter 2012.

**ATTACHMENTS:**

- Drawing 1      Site Location Map, Station #498, 286 South Livermore Avenue, Livermore, California
- Drawing 2.      Groundwater Elevation Contours and Analytical Summary Map, October 25, 2011,  
Station #498, 286 South Livermore Avenue, Livermore, California

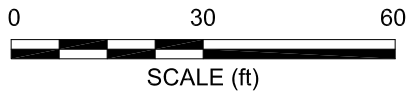
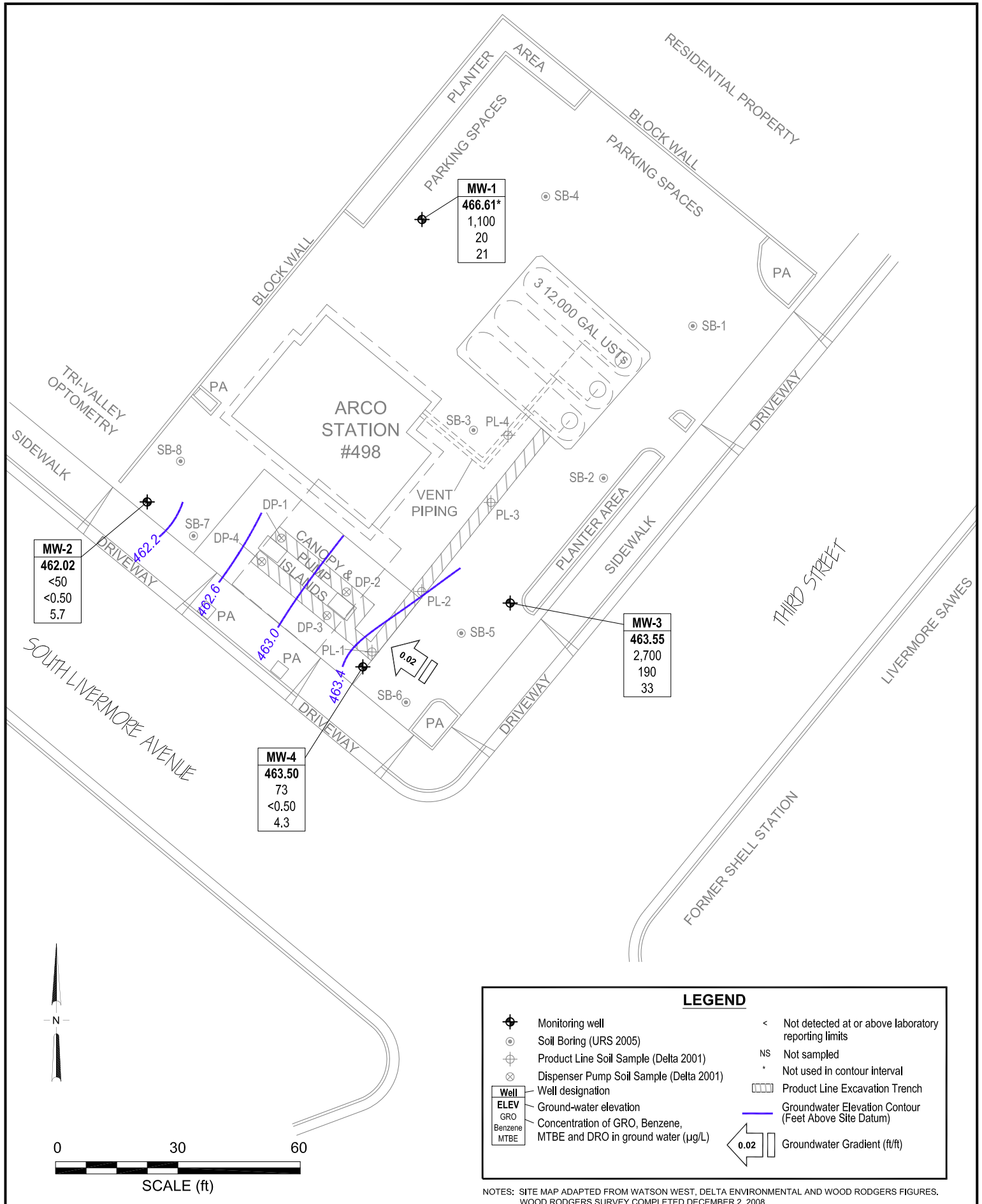
**LIST OF COMMONLY USED ACCRONYMS/ABBREVIATIONS:**

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 <sub>3</sub> :	Nitrate as Nitrogen
DRO:	Diesel-Range Organics	ppb:	parts per billion
EDB:	1,2-Dibromomethane	SO <sub>4</sub> :	Sulfate
ft/ft:	feet per foot		



APPROXIMATE SCALE (mi)

IMAGE SOURCE: DELORME



LEGEND	
	Monitoring well
	Soil Boring (URS 2005)
	Product Line Soil Sample (Delta 2001)
	Dispenser Pump Soil Sample (Delta 2001)
	Well designation
	Ground-water elevation
	Concentration of GRO, Benzene, MTBE and DRO in ground water (µg/L)
	< Not detected at or above laboratory reporting limits
	NS Not sampled
	* Not used in contour interval
	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.