



EDMUND G. BROWN JR.  
GOVERNOR



MATTHEW RODRIGUEZ  
SECRETARY FOR  
ENVIRONMENTAL PROTECTION

## State Water Resources Control Board

**AUG 15 2012**

August 2012

Dr. Yue Rong  
California Regional Water Quality Board  
Los Angeles Region  
320 W. 4<sup>th</sup> St, Ste 200  
Los Angeles, CA 90013

### **FIVE-YEAR REVIEW SUMMARY REPORT FOR CLAIM NUMBER 5251, SITE ADDRESS: 304 WEST CENTURY BLVD., ATHENS, CA:**

The UST Cleanup Fund (Fund) has completed our 5<sup>TH</sup> review of Regional Board case number 900440034. The 5-Year Review Summary Report for this case is enclosed for your information and comment. Please note that the Fund's recommendations are based on review of information contained in the Fund's case files, data currently in the Geotracker database and any other sources of information that were readily available to Fund staff at the time the review was conducted. Consequently, they may not reflect historical information that has not been uploaded to the Geotracker database or available in the Fund's case files and any data that has been recently submitted to your office. During our review we solicited input from your Regional Board caseworker to obtain the current status of corrective action at this site as well as information on any outstanding issues. If additional information was provided by the caseworker, it was considered by Fund staff and incorporated into our recommendations if applicable.

The Fund requests that the Regional Board staff notify the Fund within 45 days from the date of this letter as to whether you agree or disagree with our recommendations for this case. If you agree with our recommendation, we request that you provide the Fund with an estimated timeframe to either implement the recommendations for additional corrective action or for closing this case. If you do not agree with our recommendations, we request that you provide the Fund with a summary of the reasons for disagreeing and/or impediments to implementing the recommendations for additional corrective action or closing this case. Responses to the Fund may be provided by e-mail, letter or a copy of correspondence to the RP, if the correspondence addresses all the information requested by the Fund. Please direct your response to:

Kirk Larson  
Underground Storage Tank Cleanup Fund  
State Water Resources Control Board  
P.O. Box 944212  
Sacramento, CA 94244-2120  
KTLarson@waterboards.ca.gov

CHARLES R. HOPPIN, CHAIRMAN | THOMAS HOWARD, EXECUTIVE DIRECTOR

Fund staff will be sending copies of all completed 5-Year Review Summary Reports to claimants 45 days from the date of this letter unless the Regional Board notifies the Fund that they wish to discuss this case prior to transmittal to the claimant. If you or your staff has any questions or concerns on specific reports that you would like to discuss with the Fund prior to transmittal of the report to the claimant, please contact us within this period. The UST Cleanup Fund reviewer name and telephone number are included on the last page of the summary Report.

Sincerely,



Robert Trommer  
Senior Engineering Geologist  
Chief, Technical Review Unit  
Underground Storage Tank Cleanup Fund

Enclosure

cc: Magdy Baiady, RWQCB, Los Angeles

Kit Larson  
Underground Storage Tank Cleanup Fund  
State Water Resources Control Board  
P.O. Box 944212  
Sacramento, CA 95834-4212  
KITLarson@waterboards.ca.gov



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USTCF 5-YEAR REVIEW SUMMARY  
5<sup>TH</sup> REVIEW – AUGUST 2012

Agency Information

Agency Name: Los Angeles Regional Water Quality Control Board, Region 4 (Board)	Address: 320 West 4 <sup>th</sup> Street, Suite 200, Los Angeles, CA 90013
Agency Caseworker: Magdy Baiady	Case No.: 900440034

Case Information

USTCF Claim No.: 5251	Global ID: T0603701020
Site Name: Shell #204-4531-8801	Site Address: 304 West Century Blvd., Athens, CA 90003
Responsible Party (RP): Equiva Services	Address: PO Box 6249, Carson, CA 90749
USTCF Expenditures to Date: \$617,987	Number of Years Case Open: 22

Summary

A leak was identified in May 1990. Since 1991, nine active monitoring wells have been installed and monitored regularly. According to data available in GeoTracker, there is no California Department of Public Health (CDPH) regulated Public Supply Wells within 1/2 mile of the site. Water users in the vicinity of the site rely on the Los Angeles Department of Water and Power. To date, \$617,987 in corrective action costs have been reimbursed by the Fund. Attachments 1 and 2 provide the technical data to support our recommendation.

Recommendation

The Fund recommends that the Board require that the Responsible Party commence active remediation to reduce hydrocarbon mass and achieve water quality objectives in a timely manner.

  
 \_\_\_\_\_ 8/21/2012  
 Kirk Larson, P.G. Date  
 Engineering Geologist  
 Technical Review Unit  
 (916) 341-5663

  
 \_\_\_\_\_ 8/21/12  
 Robert Trommer, C.H.G. Date  
 Senior Engineering Geologist  
 Chief, Technical Review Unit  
 (916) 341-5684

## ATTACHMENT 1

### SUMMARY OF BASIC SITE INFORMATION (Conceptual Site Model)

#### Site Location/ History

- The Site is located at 304 West Century Boulevard in Athens, CA and is operated as a restaurant.
- The Site is bounded by South Olive Street to the west, West Century Blvd. to the north, South Broadway to the east and a business to the south. The surrounding land use is mixed residential and commercial.
- In May 1990, soil contamination was identified during an environmental investigation. Nine monitoring wells, currently present on the site, have been monitored regularly.
- A Site map showing the location of the former USTs, monitoring wells and groundwater level contours is provided at the end of this five year summary.

#### Pollutant Source

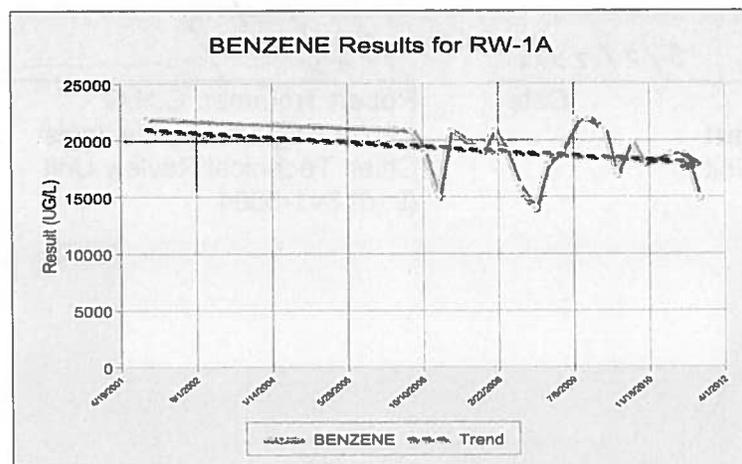
- Nature of Contaminants of Concern: Petroleum hydrocarbons only
- Source, Date reported, and Status of Release: UST system, 17 May 1990, USTs removed
- Free Phase Hydrocarbons: Yes

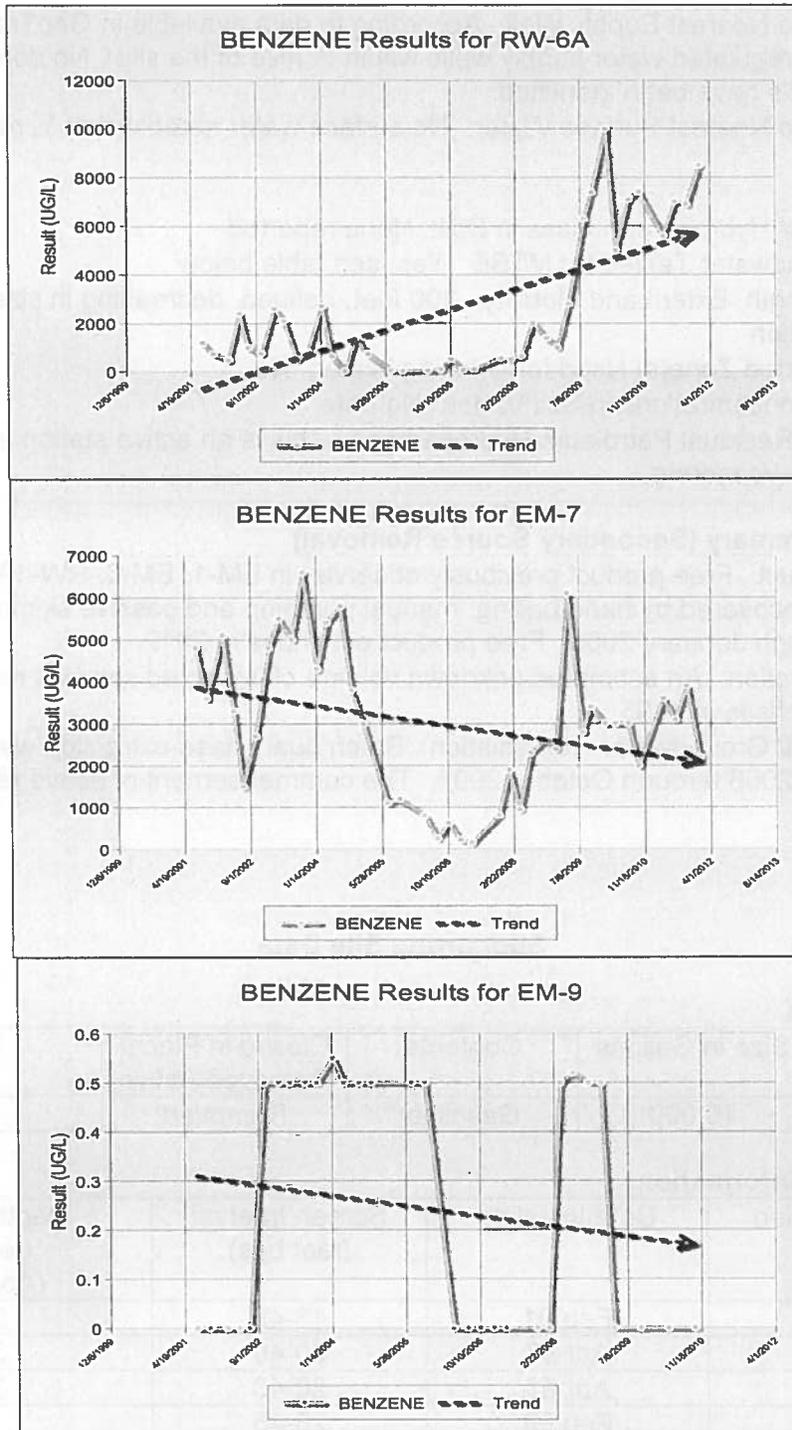
#### Geology/ Hydrogeology

- Stratigraphy: The Site is underlain by interbedded and intermixed sand, silt and clay
- Maximum Sample Depth: 50 feet below ground surface (bgs)
- Minimum Groundwater Depth: 22.32 feet bgs
- Maximum Groundwater Depth: 35.83 feet bgs at monitoring well EM-9
- Current Average Depth to Groundwater: 30 feet bgs
- Saturated Zones(s) Studied: 25 to 50 bgs
- Groundwater Flow Direction: Predominately to the southeast at 0.05 feet per foot

#### Groundwater Trends:

There are more than 21 years of groundwater monitoring data for this Site. Benzene trends are shown below, source area (RW-1A), near down gradient (RW-6A) and far down gradient (EW-7 and EM-9)





**Receptors**

- GW Basin: Coastal Plain of Los Angeles - Central
- Beneficial Uses: None specified, deeper aquifer(s) used for drinking water supply
- Land Use Designation: None specified, aerial photo show site is commercial surrounded by mixed commercial and residential
- Public Water System: Los Angeles Department of Water and Power

- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no CDPH regulated water supply wells within ½ mile of the site. No domestic public supply wells have been identified.
- Distance to Nearest Surface Water: No surface water noted within ½ mile of the Site

**Risk Criteria**

- Estimate of Hydrocarbon Mass in Soil: None reported
- Soil/Groundwater Tested for MTBE: Yes, see table below
- Plume Length, Extent and Mobility: 200 feet, defined, decreasing in size and concentration
- Contaminated Zone(s) Used for Drinking Water: No
- Oxygen Concentrations in Soil Vapor: No data
- Risk from Residual Petroleum Hydrocarbons: This is an active station entirely covered with asphalt/concrete.

**Remediation Summary (Secondary Source Removal)**

- Free Product: Free product previously observed in EM-1, EM-6, RW-1A and RW-6A and was recovered by hand bailing, manual pumping and passive skimming from March 1991 through January 2006. Free product continues in 2012.
- Soil Excavation: An estimated unknown volume of impacted soil was removed and disposed offsite in 1995
- In-Situ Soil/ Groundwater Remediation: Batch dual phase extraction was conducted from April 2006 through October 2007. The commencement of active remediation is overdue.

**Supporting Site Data**

**Tank Information**

Tank No.	Size in Gallons	Contents	Closed in Place/ Removed/Active	Date
1-3	10,000	Gasoline	Removed	1995

**Monitoring Well Information**

Well Designation	Date Installed	Screen Interval (feet bgs)	Depth to Water (feet bgs) (April 2012)
EM-4	Feb 91	13-48	29.64
EM-7	Apr 97	20-40	33.28
EM-8	Apr 97	20-40	33.15
EM-9	Feb 98	25-45	-
EM-10	Feb 98	25-45	32.64
RW-1A	Jul 98	20-50	29.78*
RW-2A	Jul 98	20-50	28.37
RW-3A	Jul 98	20-50	28.81
RW-6A	Jul 98	20-50	28.94

\*Free product noted in site well

**Petroleum Hydrocarbon Constituent Concentration**

Contaminant	Soil (mg/kg)		Water (µg/L)		WQOs (µg/L)
	Maximum	Latest	Maximum <sup>a</sup>	Latest (Apr 2012)	
TPHg	NA	NA	160,000	36,000	NA
Benzene	NA	NA	22,000	1,500	1
Toluene	NA	NA	33,000	660	150
Ethylbenzene	NA	NA	4,700	2,100	700
Xylenes	NA	NA	19,000	7,300	1,750
MTBE	NA	NA	120	<100	5
TBA	NA	NA	70	<1,000	1,200 <sup>b</sup>

NA: Not Analyzed, Not Applicable or Data Not Available  
 mg/kg: milligrams per kilogram, parts per million  
 ug/L: micrograms per liter, parts per billion  
 WQOs: Water Quality Objectives  
<sup>a</sup> According to GeoTracker, wells  
<sup>b</sup> California Department of Public Health Response Level

**ATTACHMENT 2  
 Historic Recommendations**

November 2007 recommendations:

1. Evaluation of the cost-effectiveness of the mobile dual-phase extraction and the time it will take to achieve water quality objectives that are appropriate for the site.
2. Present historical information including but not limited to site assessment/corrective actions performed at the site in future groundwater monitoring reports.

UPDATED, December 2008, the Fund supports the Regional Board's request for a Remedial Action Plan and other corrective actions as outlined in their 2/22/08 letter. According to the 3<sup>rd</sup> quarter 2008 groundwater monitoring report, proposed work for the 4<sup>th</sup> quarter 2008 includes implementing the April 3, 2008 *Workplan for Soil Vapor Extraction and Air Sparge Pilot Test* (Workplan) following Regional Board approval. Therefore, the Fund recommends that the Regional Board review and respond accordingly to the Workplan if they have not done so already.

UPDATED, April 2010, according to the 1<sup>st</sup> quarter 2010 groundwater monitoring report, soil vapor and air sparge well installations and pilot testing activities were conducted during the 3<sup>rd</sup> quarter 2009. Data is currently being evaluated and recommendations will be included in the well installation and pilot testing report.

UPDATED, July 2011, the Fund concurs with the Regional Board that soil vapor extraction and air sparging should begin without delay to achieve water quality objectives in a timely manner.

