ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

April 3, 2012

Thomas L. Robinson Robinson Oil Corporation 955 Martin Avenue Santa Clara, CA 95050-2608

Edwin Coats
East Avenue Services
1727 Dolphin Place
Discovery Bay, CA 94514
(Sent via E-mail to: edcoatsir@inreach.com)

Subject: Case Closure for Fuel Leak Case No. RO0002881 and GeoTracker Global ID No. T0600152516, East Avenue Services, 4186 East Avenue, Livermore, CA 94550

Dear Mr. Robinson and Mr. Coats:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://geotracker.swrcb.ca.gov)

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum hydrocarbons as gasoline remains in groundwater at concentrations up to 4,810 ppb and in soil at concentrations up to 46 ppm approximately 20 feet west of the former UST area.
- Methyl tert-butyl ether remains in groundwater at concentrations up to 455 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to the current commercial land use only.

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.

Division Chief

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

ALEX BRISCOE, Director

REMEDIAL ACTION COMPLETION CERTIFICATION

April 3, 2012

Thomas L. Robinson Robinson Oil Corporation 955 Martin Avenue Santa Clara. CA 95050-2608

Edwin Coats
East Avenue Services
1727 Dolphin Place
Discovery Bay, CA 94514
(Sent via E-mail to: edcoatsir@inreach.com)

Subject: Case Closure for Fuel Leak Case No. RO0002881 and GeoTracker Global ID T0600152516, East Avenue Service Gas Station, 4186 East Avenue, Livermore, CA 94550

Dear Mr. Robinson and Mr. Coats:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- · Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is
 required for closure that will result in the submission of claims beyond that time period, or that under the
 circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely.

Arlu Levi Director

Enclosures:

- 1. Remedial Action Completion Certification
- 2. Case Closure Summary

CC:

Colleen Winey (QIC 8021) w/enc Zone 7 Water Agency 100 North Canyons Pkwy Livermore, CA 94551 (Sent via E-mail to: cwiney@zone7water.com))

Danielle Stefani (w/enc) Livermore-Pleasanton Fire Department 3560 Nevada Street, Pleasanton, CA 94566 (Sent via E-mail to: dstefani@lpfire.org)

Ronald Michelson RM Associates 619 S. Knik-Goose Bay Road, Suite H, #253, Wasilla, AK 99654 (Sent via E-mail to: RMichelson@volcano.net) Closure Unit
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(uploaded to GeoTracker)

City of Livermore Planning Department (w/enc), 1052 South Livermore Avenue, Livermore, CA 94550

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker (w/enc) eFile (w/orig enc)

CASE CLOSURE SUMMARY LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

Date: July 5, 2011

I. AGENCY INFORMATION

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: East Avenue Services Gas Station								
Site Facility Address: 4186 East Avenue, Livermore, CA 94550								
RB Case No.:								
URF Filing Dates: 05/31/2005	Geotracker ID: T0600152516 APN: 99-1082-35-32 (formerly 1082-31-1)							
Responsible Parties	Addresses	Phone Numbers						
Edwin and Suzanne Coats, East Avenue Services	1727 Dolphin Place, Discovery Bay, 94514	No phone number						
Thomas Robinson, Robinson Oil Company	955 Martin Avenue, Santa Clara, 0 95050-2608	408-327-4300						
di pa di	der Sta Sav							

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1 through 4	4,000	Gasoline	Removed	04/03/2007
5	6,000	Gasoline	Removed	04/03/2007
Ball Main dies				Marie Ma
Name Adda Name	45 44 44	****	40. 10. уш	No to to to
	Piping	Removed	04/03/2007	

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Duri were observed.	ng remo	val, no evidence of hole	es, cracks, or other signs of leakage
Site characterization complete? Yes	Date .	Approved By Oversight	Agency?
Monitoring wells installed? Yes		Number: 3	Proper screened interval?
Highest GW Depth Below Ground Surface: 18 feet bgs	8.4	Lowest Depth: 29.0 feet bgs	Flow Direction: Based on the three wells on site, flow direction is to the southwest; regional gradient is to west northwest.

Summary of Production Wells in Vicinity: The nearest water supply well (3S/2E 15C1) is located approximately 1,250 feet east southeast of the site. Based on the distance from the site, cross gradient location, and limited size of the plume, well 3S/2E 15C1 is not expected to be a receptor for the site. Well (3S/2E 15B4) is located approximately 1,950 feet east southeast of the site. Based on the distance from the site, cross gradient location, and limited size of the plume, well 3S/2E 15B4 is not expected to be a receptor for the site. The nearest downgradient well (3S/2E 16A5) is located approximately 1,950 feet southwest of the site. Based on the distance from the site and limited size of the plume, well 3S/2E 15B4 is not expected to be a receptor for the site. No other water supply wells are located within 2,000 feet of the site.

Are drinking water wells affected? No	Aquifer Name: Mocho II Subbasin of Livermore-Amador Basin
Is surface water affected? No	Nearest SW Name: Arroyo Mocho is approximately 4,300 feet south of site.
Off-Site Beneficial Use Impacts (Addresses/I	Locations): None
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Livermore-Pleasanton Fire Department.

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL									
Material Amount (Include Units) Action (Treatment or Disposal w/Destination) Date									
Tank	4 – 1,000 gallon tanks 1 -6,000 gallon tank	Five gasoline USTs were removed from the site and disposed at Ecology Control Industries in Richmond, CA.	04/03/2007						
Piping	Not reported	The piping and hydraulic lifts were removed from the site and disposed at Ecology Control Industries in Richmond, CA	04/06/2007						
Free Product									
Soil									
Groundwater	1 10 10 10 10 10 10 10 10 10 10 10 10 10								

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments 1-6 for additional information on contaminant locations and concentrations)

	Soil (ppm)	Water (ppb)		
Contaminant	Before	After	Before	After	
TPH (Gas)	46	. 46	19,000(1)	4,810(1)	
TPH (Diesel)	290	290	850(2)	<47(2)	
Oil and Grease	Not analyzed	Not analyzed	Not analyzed	92(3) <0.5(4) 1,100(5)	
Benzene	<0.025	<0.025	1,200(3)		
Toluene	0.12	0.12	53(4)		
Ethylbenzene	0.44	0.44	4,100(5)		
Xylenes	0.74	0.74	740(6)	40(6)	
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	12(7)	12(7)	Not analyzed	Not analyzed	
MTBE	0.33(8)	0.33(8)	1,900(9)	455(10)	
Other (8240/8270)	Not analyzed	Not analyzed	Not analyzed	Not analyzed	

Footnotes:

(1) The maximum concentration of TPHg before cleanup was 19,000 ppb in grab groundwater sample W-1 collected on 04/29/2005; the maximum concentration of TPHg after cleanup was 4,810 ppb in a groundwater sample collected from well MW-1 during the last monitoring well sampling event on 04/08/2010.

(2) The maximum concentration of TPHd before cleanup was 850 ppb in a groundwater sample from well MW-1 collected on 02/29/2008; TPHd was not detected above the reporting limit of 47 during the most recent monitoring

well sampling event on 04/08/2010.

(3) The maximum concentration of benzene before cleanup was 1,200 ppb in grab groundwater sample W-1 collected on 04/29/2005; the maximum concentration of benzene after cleanup was 92 ppb in a groundwater sample collected from well MW-1 during the last monitoring well sampling event on 04/08/2010.

(4) The maximum concentration of toluene before cleanup was 53 ppb in grab groundwater sample W-1 collected on 04/29/2005; toluene was not detected during the last monitoring well sampling event on 04/08/2010.

(5) The maximum concentration of ethylbenzene before cleanup was 4,100 ppb in grab groundwater sample W-1 collected on 04/29/2005; the maximum concentration of ethylbenzene after cleanup was 1,100 ppb in a groundwater sample collected from well MW-1 during the last monitoring well sampling event on 04/08/2010.

(6) The maximum concentration of xylenes before cleanup was 740 ppb in grab groundwater sample W-1 collected on 04/29/2005; the maximum concentration of xylenes after cleanup was 40 ppb in a groundwater sample collected from well MW-1 during the last monitoring well sampling event on 04/08/2010.

(7) Lead = 12 ppm; no other metals analyzed.

(8) MTBE = 0.33 ppm; no other fuel oxygenates analyzed in soil.

(9) MTBE = 1,900 ppb; TBA, DIPE, ETBE, TAME, 1,2-DCA, and EDC not detected at various reporting limits in grab groundwater sample W-1 collected on 04/29/2005.

(10) MTBE = 455 ppb; TBA, DIPE, ETBE, TAME, 1,2-DCA, and EDC not detected at various reporting limits during the. last groundwater monitoring event on 04/08/2010.

Site History and Description of Corrective Actions:

The site is currently a retail service station and convenience store. Surrounding land use is mixed commercial and residential.

In April 2005, seven shallow soil borings were advanced as part of a Phase II Environmental Assessment, which was conducted in association with a property transaction. Eleven soil samples and five grab groundwater samples were collected from the seven shallow soil borings. Total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd) were detected in one of the 11 soil samples at concentrations of 46 and 290 ppm, respectively. The TPHd result was suspected to be weathered gasoline rather than diesel since no diesel fuel was known to have been stored or used at the site. MTBE was detected in one of the 11 soil samples at a concentration of 0.33 ppm. Petroleum hydrocarbons and fuel oxygenates were not detected in four of the five grab groundwater samples. However, TPHg, benzene, and MTBE were detected in one of the five grab groundwater samples (W-1) at concentrations of 19,000, 1,200, and 1,900 ppb respectively.

In March 2007, the former service station building was demolished. On April 3, 2007, the five USTs, product line, and dispensers were also removed from the site. During the removal activities, 10 soil samples were collected from soil beneath the USTs and five soil samples were collected beneath the product lines. Petroleum hydrocarbons and fuel oxygenates were not detected above laboratory reporting limits in any of the 15 soil samples. Petroleum hydrocarbons and fuel oxygenates were also not detected in five composite soil samples collected from the stockpiled soil excavated during the removals. The five former USTs were replaced by one 20,000-gallon UST, which was relocated to the northwest corner of the property. A new building was constructed in the northeast corner of the property.

In May 2007, three monitoring wells (MW-1 through MW-3) were installed on site. Three soil samples from each well boring were submitted for laboratory analysis. MTBE was detected in one of the nine soil samples at a concentration of 0.23 ppm. Petroleum hydrocarbons and fuel oxygenates were not detected in the remaining soil samples.

Groundwater monitoring was conducted at the site from May 2007 through April 2010. TPHg has been detected in groundwater samples from well MW-1 at concentrations ranging from 600 to 4,810 ppb. MTBE has been detected in groundwater samples from well MW-1 at concentrations ranging from 85 to 455 ppb. The higher concentrations of dissolved petroleum hydrocarbons and fuel oxygenates detected in groundwater from well MW-1 appear to correlate with periods of higher seasonal water levels.

The hydrocarbon plume appears to be generally limited in extent to the area between the former dispensers and former USTs. Based on the limited detections of petroleum hydrocarbons and fuel oxygenates in soil samples collected in the suspected source area and limited extent of groundwater contamination, the plume is not expected to migrate and is expected to attenuate over time.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.

Site Management Requirements: Case closure for this fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.

Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.

Should corrective action be reviewed if land use changes? Yes

Was a deed restriction or deed notification filed? No

Date Recorded: --

Monitoring Wells Decommissioned: No

Number Decommissioned: 0

Number Retained: 3

List Enforcement Actions Taken: None

List Enforcement Actions Rescinded: --

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

No soil vapor sampling has been conducted at the site to evaluate the potential for vapor intrusion to indoor air. However, benzene has not been detected at concentrations above laboratory reporting limits in soil samples at the site and TPHg has been detected in only one of 40 soil samples at a concentration of 290 ppm. Therefore, there does not appear to be significant shallow soil contamination that would act as a source for vapor migration. The depth to groundwater is greater than 18 feet, which also limits the potential for shallow vapor migration from the groundwater surface or capillary fringe. Based on these limiting site conditions, soil vapor sampling does not appear to be necessary.

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist				
Signature: Sun Wielelum	Date: 06/29/11				
Approved by: Sonna L. Drogos, P.E.	Title: Chief				
Signature: Lonun & Lucy	Date: 04/29/11				

Page 5 of 6

RO0002881 - Closure Summary

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 07/04/11	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/26/11	Date of Well Decommissioning Rep	oort: 03/23/12
All Monitoring Wells Decommissioned: $ 4es$	Number Decommissioned: 3	Number Retained:
Reason Wells Retained: NR		
Additional requirements for submittal of groundwa	ter data from retained wells: $$	e
ACEH Concurrence - Signature:	Wieldram	Date: 04/03/12

Attachments:

- 1. Site Vicinity Map (1 pp)
- 2. Site Plan and Soil Sample Locations (2 pp)
- 3. Groundwater Elevation Contours, Analytical Results, and Contour Maps (5 pp)
- 4. Soil Analytical Data (4 pp)
- 5. Groundwater Analytical Data (1 pp)
- 6. Boring Logs (10 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Wickham, Jerry, Env. Health

From:

Cherie MCcaulou [CMccaulou@waterboards.ca.gov]

Sent:

Wednesday, July 06, 2011 1:20 PM

To:

Wickham, Jerry, Env. Health

Subject: Re: Pending closure for 4186 East Avenue, Livermore

Jerry - Thank you for the courtesy notice for ACEH's recommendation for case closure of the fuel leak release site at 4186 East Avenue in Livermore. The Regional Water Board staff has no objection to ACEH closing this case. It has been a pleasure working with you.

Sincerely,

Cherie McCaulou
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
cmccaulou@waterboards.ca.gov
510-622-2342

>>> "Wickham, Jerry, Env. Health" <<u>jerry.wickham@acgov.org</u>> 7/5/2011 6:18 PM >>> Hi Cherie,

This email provides notification of pending closure for case RO2881, 4186 East Avenue, Livermore.

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org

FIGURE 1 - VICINITY MAP Little House Portola, Ave SOM Clarke Ave Gardella Plaza Fordham Way Colgate Way Silver Oaks Way Loyola Way Madeira Hillcrest Dartmouth Way Pestana, Way Yale Way Oregon Way Stanford Way Leahy-Sq **ROTTEN ROBBIE NO. 64** Way California : 4186 East Ave Livermore, CA 94550 ivermore a) Marie Park Harvard Way East_Ave Auburn Amherst Way Arbor, Ave St Michaels Cemetery Hillcrest Baylor Way Security Pacific Ave Cabrillo Ave Cornell Way CI Drake Way palm Ave S. Livermore Sunken **Almond Park** Emory Way Garden Park Findlay Way College Ave Guilford Ave Devon-Pl-Rodeo Ln Chablis Way Chateau-Chateau Way

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Rosen Sark-Rd

Robertson Park

ATTACHMENT 1

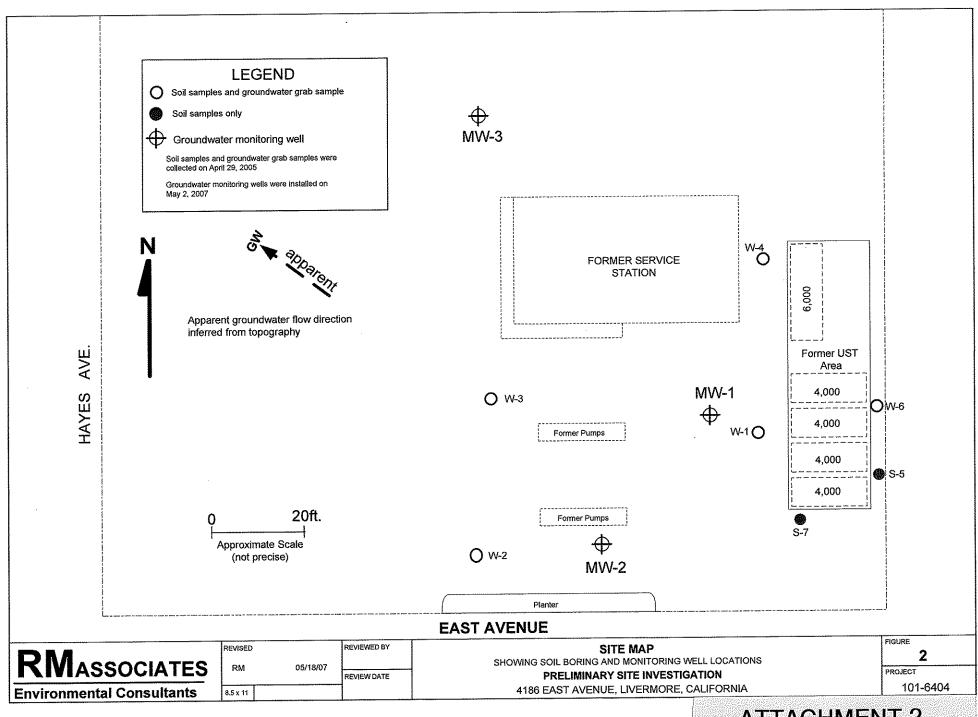
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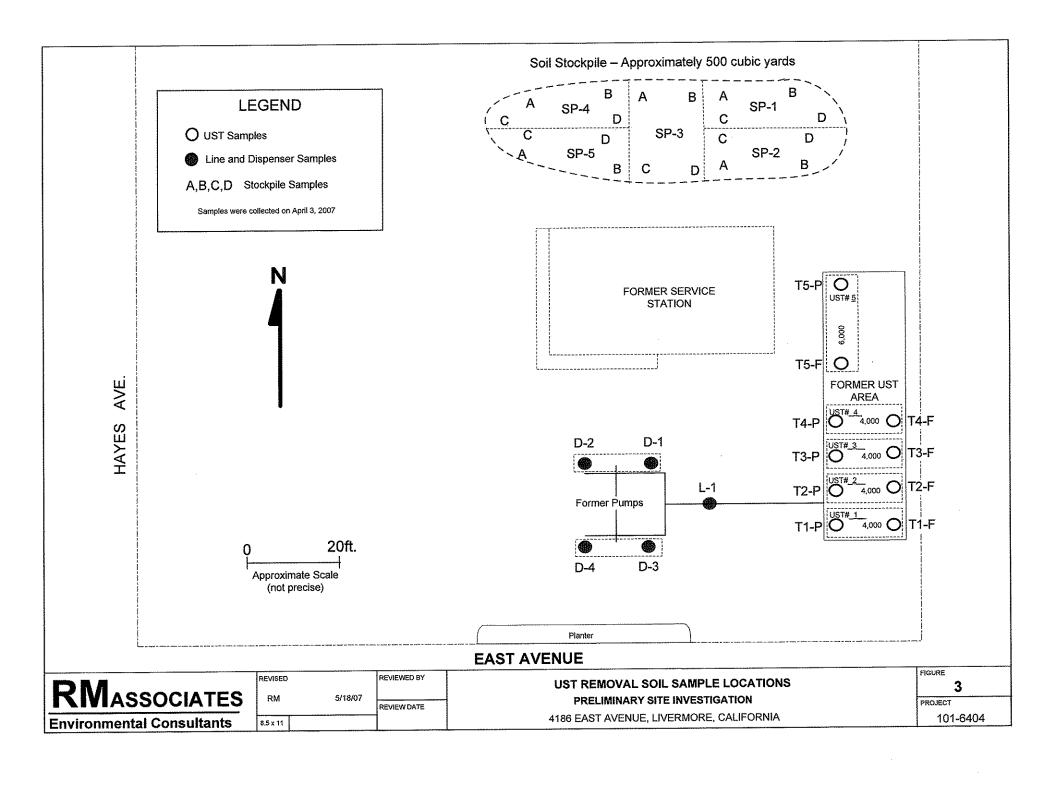
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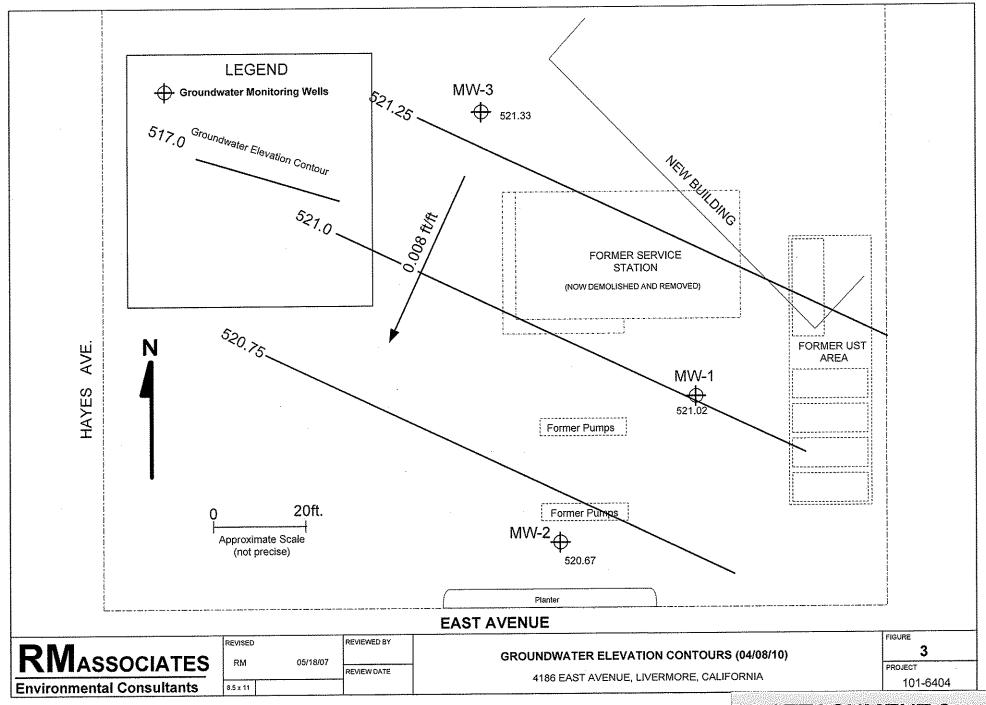
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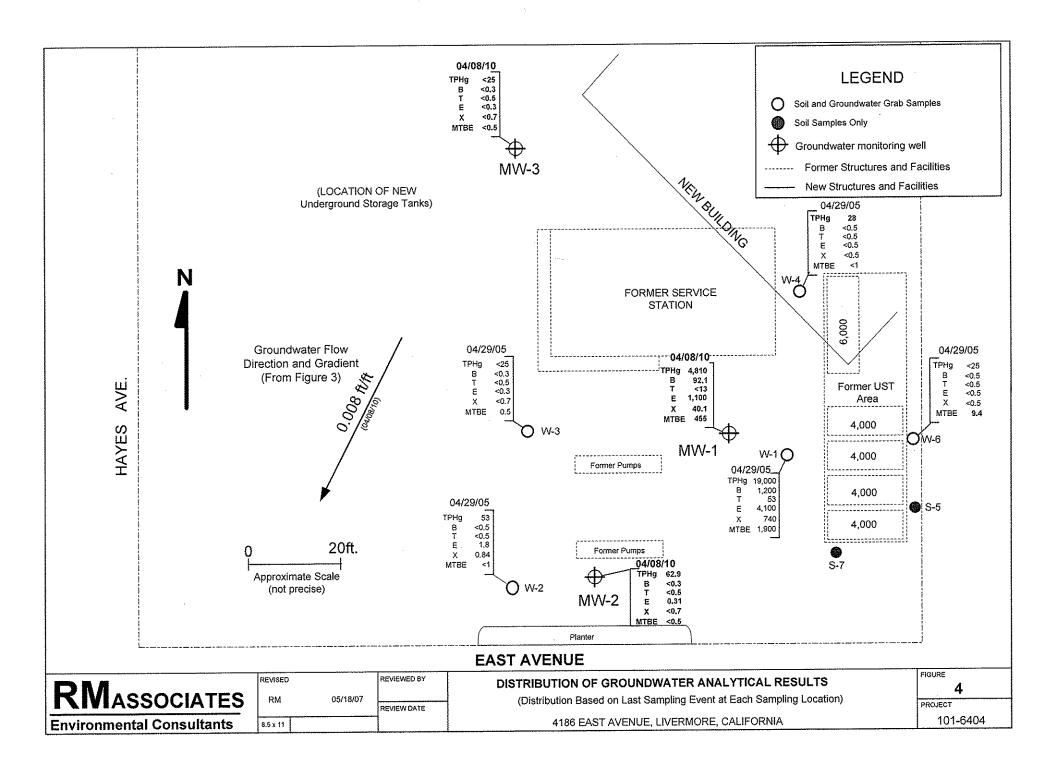
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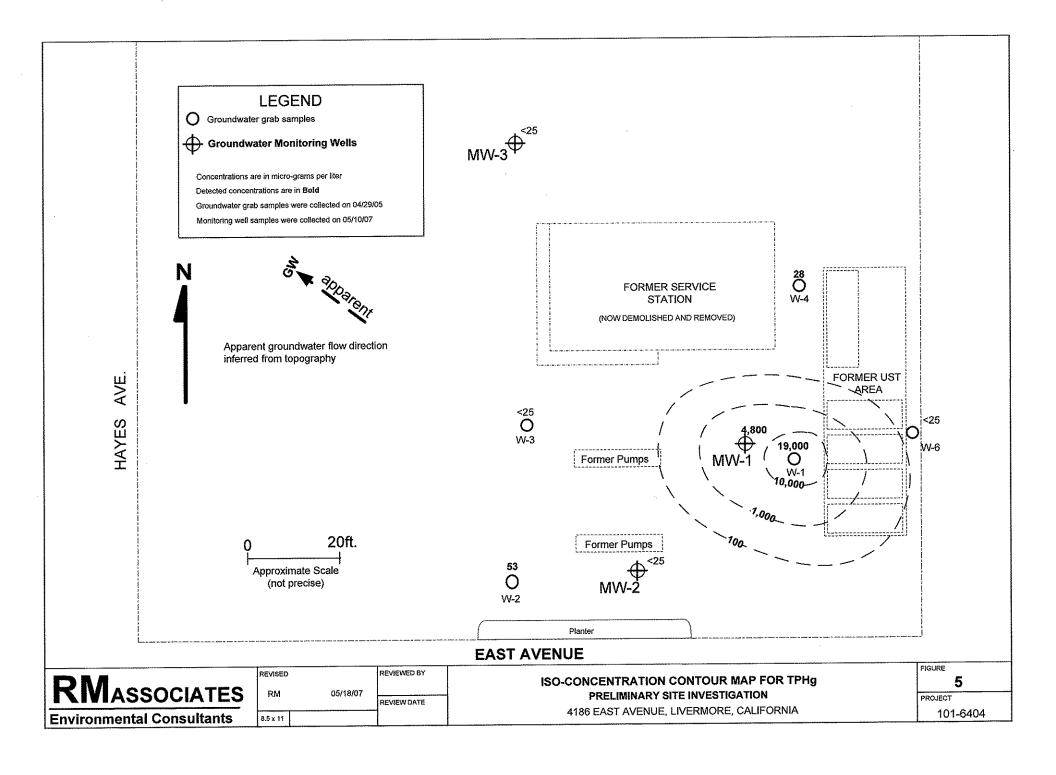


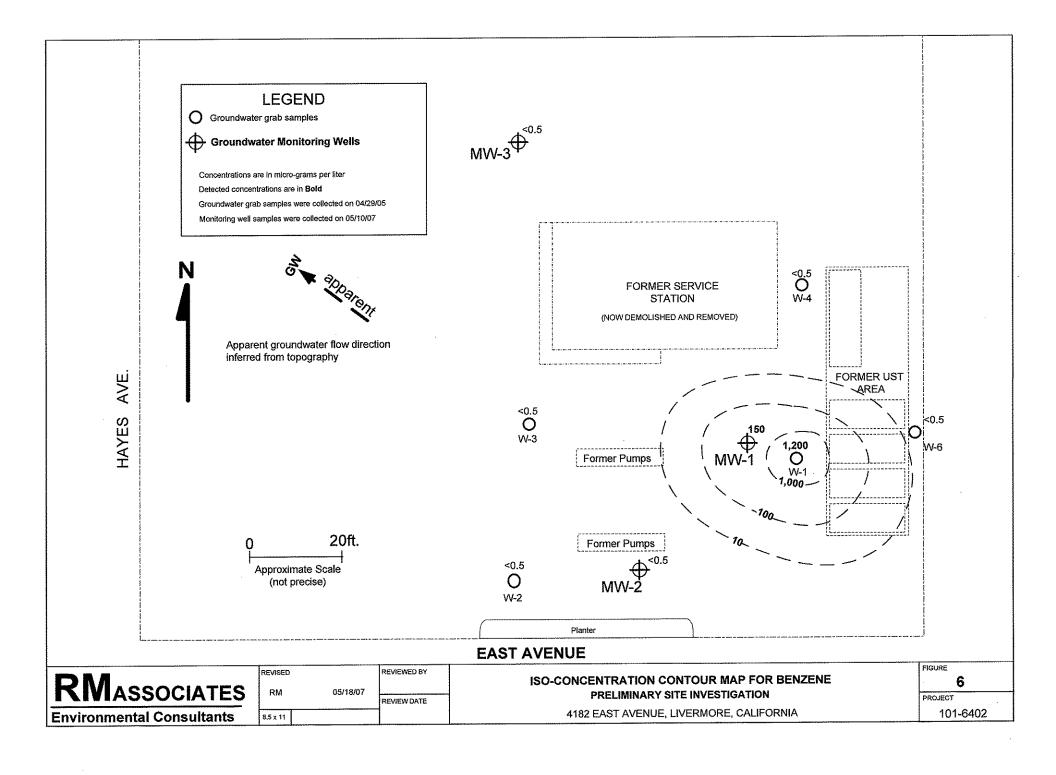
ATTACHMENT 2

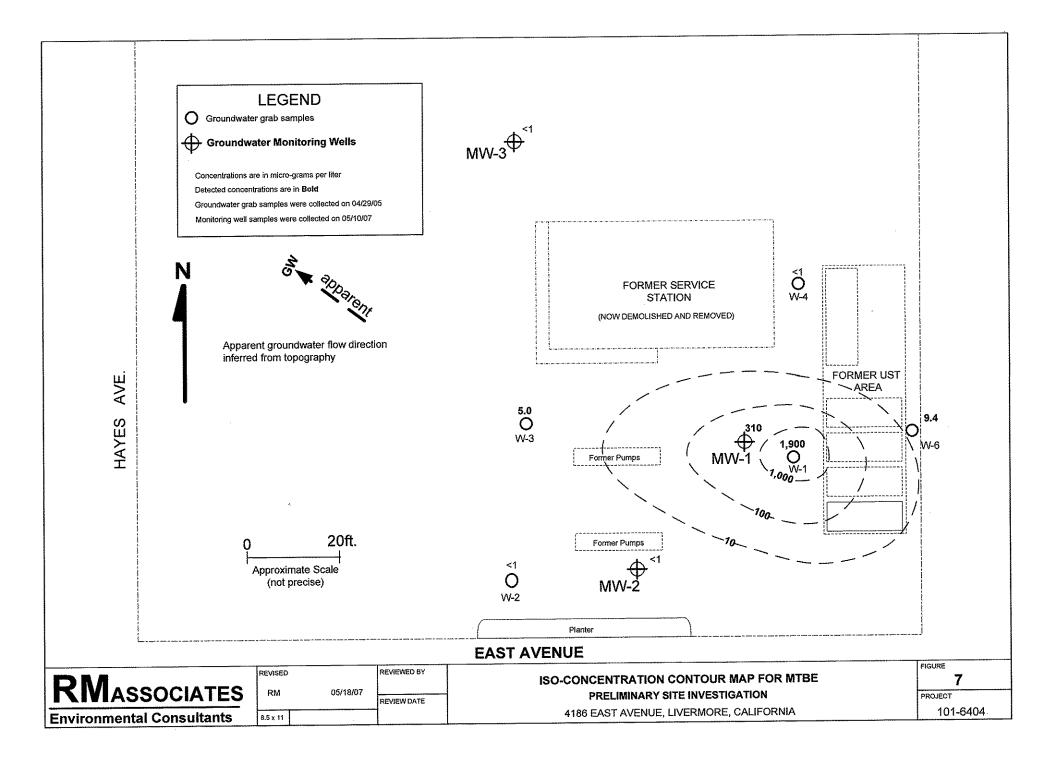












RM Associates

TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS - UST REMOVAL Rotten Robbie #64, 4186 East Avenue, Livermore, California

		Sample			Ethyl	Total	TPH as	Total Lead	
Sample	Sample Date	Depth	Benzene	Toluene	benzene	Xylenes	Gasoline	Total Leau	MTBE
Number		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
UST REMOV	JST REMOVAL								
Tanks									
T1-F	04/03/07	10			ND<0.010		ND<0.50	5.8	ND<0.050
T1-P	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	7.8	ND<0.050
T2-F	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	6.7	ND<0.050
T2-P	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	26.0	ND<0.050
T3-F	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	5.6	ND<0.050
Т3-Р	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	12.0	ND<0.050
T4-F	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	6.7	ND<0.050
T4-P	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	10.0	ND<0.050
T5-F	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	7.3	ND<0.050
T5-P	04/03/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	6.7	ND<0.050
Dispensers a	and Lines								
D-1	04/03/07	2.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	7.5	ND<0.050
D-2	04/03/07	2.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	5.1	ND<0.050
D-3	04/03/07	2.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	7.0	ND<0.050
D-4	04/03/07	2.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	6.8	ND<0.050
L-1	04/03/07	2.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	5.3	ND<0.050

Notes:

TPH total petroleum hydrocarbons

MTBE methyl tert-butyl ether mg/kg milligrams per kilogram

UST underground storage tanks and associated lines and dispensers

Bold detected above laboratory reporting limit

ATTACHMENT 4

RM Associates										
TABLE 3 - SUMMARY OF SOIL ANALYTICAL RESULTS - STOCK PILE										
	Rotten Robbie #64, 4186 East Avenue, Livermore, California									
					Ethyl	Total	TPH as	TPH as	Total Lead	
Sample	Sample Date	Sample Type	Benzene	Toluene	benzene	Xylenes	Gasoline	Diesel	Total Lead	MTBE
Number	•		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
STOCKPILE CO	MPOSITE SA	MPLES								
SP-1 (ABCD)	04/03/07		ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<2.5	6.9	ND<0.050
SP-2 (ABCD)	04/03/07	Composite	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<2.5	7.9	ND<0.050
SP-3 (ABCD)	04/03/07	Composite	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<2.5	7.0	ND<0.050
SP-4 (ABCD)	04/03/07	Composite				ND<0.010		ND<2.5	10	ND<0.050
SP-5 (ABCD)	04/03/07	Composite	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<2.5	6.6	ND<0.050
STOCK PILE DI	SCRETE SAM	PLE								
SP-6	04/03/07	Discrete	Volitile Org	anic Compo	ounds by El	PA Method 8	3260B	None	e Detected	

Notes:

TPH total petroleum hydrocarbons MTBE methyl tert-butyl ether

mg/kg milligrams per kilogram

Bold detected above laboratory reporting limit

RM Associates

TABLE 4 - SUMMARY OF SOIL ANALYTICAL RESULTS - MONITORING WELL INSTALLATION Rotten Robbie #64, 4186 East Avenue, Livermore, California

i i			Sample			Ethyl	Total	TPH as	TPH as	
Sample	Sample	Sample Date	Depth	Benzene	Toluene	benzene	Xylenes	Gasoline	Diesel	MTBE
Location	Number		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
MW-1	SS-1-10	05/02/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
	SS-1-17	05/02/07	17	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	0,23
	SS-1-21	05/02/07	21	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
MW-2	SS-2-10	05/02/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
	SS-2-16	05/02/07	16	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
	SS-2-21	05/02/07	21	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
MW-3	SS-3-10	05/02/07	10	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
	SS-3-15	05/02/07	15	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050
	SS-3-22	05/02/07	22	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.50	ND<5	ND<0.050

Notes:

TPH total petroleum hydrocarbons

MTBE methyl tert-butyl ether mg/kg milligrams per kilogram

Bold detected above laboratory reporting limit

RMA

TABLE 1 - SUMMARY OF SOIL ANALYICAL RESULTS PHASE 11 ENVIRONMENTAL INVESTIGATION 4186 East Avenue, Livermore, California

Sample		Sample	Sample					Ethyl		
Location	Sample ID	Depth	Date	TPHg	TPHd	Benzene	Toluene	benzene	Xylenes	MTBE
		(feet)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
W-1	S1-20	20	04/29/05	<2.5	<2.5	<0.025	<0.025	0.070	<0.025	0.33
	S1-25	25	04/29/05	<2.5	<2.5	<0.025	<0.025	0.070	<0.025	0.30
W-2	S2-20	20	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
	S2-25	25	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
W-3	S3-20	20	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0:025	<0.25
W-4	S4-22	22	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
S-5	S5-15	15	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
	S5-20	20	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
W-6	S6-15	15	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
	S6-20	20	04/29/05	<2.5	<2.5	<0.025	<0.025	<0.025	<0.025	<0.25
S-7	S7-25	22	04/29/05	46	290*	<0.1	0.12	0.44	0.74	<1

mg/kg milligrams per kilogram (approximate parts per million)

TPHg total petroleum hydrocarbons as gasoline TPHd total petroleum hydrocarbons as diesel

MTBE Methyl-t-butyl Ether

Bold detected above laboratory reporting limit

RMA

TABLE 6 - SUMMARY OF All GROUNDWATER ANALYICAL RESULTS

4186 East Avenue, Livermore California

	Sample			_		Ethyi	Vl	ТВА	MTBE	DIPE	ETBE	TAME	1.2-DCA	EDB
Sample ID	Date	TPHg	TPHd	Benzene	Toluene	benzene	Xylenes					(ug/L)	(ug/L)	(ug/L)
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
Phase II A	nalytical							4 202	4 000	-500	<500	<500	<50	<50
W1	04/29/05	19,000	<2,000	1,200	53	4,100	740	<1,000	1,900	<500	<500	<5 <5	<0.5	<0.5
W2	04/29/05	53	<50	<0.5	<0.5	1,8	0.84	<10	<1	<u><5</u>	<5		<0.5	<0.5
W3	04/29/05	<25	<50	<0.5	<0.5	<0.5	<0.5	<10	5.0	<5 -	<5	<5		<0.5
W4	04/29/05	28	55	<0.5	<0.5	<0.5	-<0.5	<0.5	<1	<5	<5	< 5	<0.5	
W6	04/29/05	<25	<50	<0.5	<0.5	<0.5	<0.5	<10	9.4	<5	<5	<5	<0.5	<0.5
Grounwate	er Well Mor	nitoring An	alytical											ļ
MW-1	05/07/07	4,800	<50	150	7.0	620	160	<100	310	<50	<50	<50	< 5	<5
	11/30/07	600	110	30	1.2	130	1.9	<20	180	<10	<10	<10	<1	<1
	02/29/08	4,800	850	190	<10	1,100	130	<200	330	<100	<100	<100	<10	<10
	05/21/08	2,500	520	55	<2.5	460	21	<50	150	<25	<25	<25	<25	<25
	04/09/09	1,930	431	66.5	<3.3	373	21.6	<33	85.6	<3.3	<3.3	<3.3	<2	<1.3
	04/08/10	4,810	<47**	92.1	<13	1,100	40.1	<130	455	<13	<13	<13	<5	<7.5
MW-2	05/07/07	<50	<52	<0.5	<0.5	<0.5	<0.5	<10	<1	<5	<5	<5	<0.5	<0.5
'''' -	11/30/07	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)	NS(DRY)
	02/29/08	31	<48	<0.5	< 0.5	<0.5	<0.5	<10	<1	<5	<5	<5	<0,5	<0.5
	05/21/08	<25	<50	<0.5	< 0.5	< 0.5	<0.5	<10	<1	<5	<5	<5	<0.5	<0.5
	04/09/09	150	<47	0.39	<0.5	0.56	0.99	<5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.2
	04/08/10	62.9	<47	<0.3	<0.5	<0.3	<0.7	<5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.2
MW-3	05/07/07	<50	<52	< 0.5	<0.5	<0.5	<0.5	<10	<1	<5	<5	<5	<0.5	<0.5
11111	11/30/07	<25	<52	<0.5	<0.5	<0.5	<0.5	<10	<1	<5	<5	<5	<0.5	<0.5
	02/29/08	<25	<48	<0.5	<0.5	<0.5	<0.5	<10	<1	<5	<5	<5	. <0.5	<0.5
	05/21/08	<25	<50	<0.5	<0.5	<0.5	<0.5	<10	<1	<5	<5	<5	<0.5	<0.5
	04/09/09	<25	<47	<0.30	<0.5	< 0.30	<0.7	<5	<0.5	<0.5	<0.5	<0.5	<0.3	<0.2
	04/08/10	<25	<47	<0.30	<0.5	0.31	<0.7	<5	<0.5	<0.5	<0.5	< 0.5	<0.3	<0.2
U	1 3 3 0 / 1 0			<u> </u>				277.00						**

Notes:

TPHg

total petroleum hydrocarbons as gasoline total petroleum hydrocarbons as diesel

TPHg mg/kg

milligrams per kilogram

tert-Butyl Alcohol (tert-Butanol)

TBA MTBE

Methyl tert-Butyl Ether

Bold

detected above laboratory reporting limit

DIPE ETBE

Di-Isopropyl Ether Ethyl tert-Butyl Ether tert-Amyl Methyl Ether

TAME 1-2 DCA

1, 2 Dichloroethane

EDB

Ethylene Dibromide

DA	I A	-:				BORING LO	3	
	ASSO		Drill Rig:	Rot	ary	Date Drilled:	04/29/05	Logged By:
			Boring Dia	: 8 Incl	nes	Boring Number:	W-1	R. Michelson
Sample	Blow Counts	Completion	Depth Feet	Lithology			escription	
	22-17-26 9-19-22 5-6-7		- 10 - 15 - 20 - 25 - 25 - 25 - 25 - 25 - 25 - 2		Sil M	phalt Pavement ty Sandy Gravel, dark to oist Clayey, Silt, dark bootst, GM	orown, angular,	dry, no odor, GM
F	pletion Notes irst Water Le tatic Water L	vel (ft.)	25 22			4186 Eas Livermore	e, CA 9602	21
İ						Project No.	: 101-9901	Page 1

	l Assoc	viotoc			I	BORING LOG	;	
	onmental Co		Drill Rig:	Rota	ry	Date Drilled:	4/29/05	Logged By:
			Boring Dia	: 8 Inch	es	Boring Number:	W-2	Ron Michelson
Sample	Blow Counts	Completion	Depth Feet	Lithology		D	escription	
	16-22-30 10-14-22 6-7-8				ČĬ	ayey Silt, med brown, m	oist, no hydrod	carbon odor CL
F	pletion Notes irst Water Le	vel (ft.)	22 22			Site: East Aver 4186 Eas Livermore		
						Project No.:	101-990	1 Page 1

D#/	1	oiotoo	BORING LOG									
	I ASSO onmental C	ciates onsultants	Drill Rig:	Rotary	Date Drilled:	4/29/05	Logged By:					
			Boring Dia:	8 Inches	Boring Number:	W-3	Ron Michelson					
Sample	Blow Counts	Completion	Depth Feet	Lithology	Ţ.	Description						
<i>Ο</i>	8-8-9		10		Asphalt Pavement Silty gravel, medium brou							
F	rpletion Note	evel (ft.)	22 22		4186 Eas	neu Servio st Avenue e, Californi	·					
		÷		•	Project No.	.: 101-990	1 Page 1					

MA Acce	ciatos			BORING LOC	3	
RM Asso		Drill Rig:	Rotary	Date Drilled:	4/29/05	Logged By:
·		Boring Dia:	8 Inches	Boring Number:	W-4	Ron Michelson
Blow Counts	Completion	Depth Feet	Lithology	С	escription	
7-10-14 8-12-17		10		sphalt Pavement ilt, dark brown, moist Ct ilty fine pebbled Gravel, Silty sandy gravel, large	light brown dry	
Completion Notes	evel (ft.)	23 22		4186 Eas	neu Servic st Avenue e, Californi	
Static Water L	_CVC/ (it.)			Livoimor	·, · · · · · · · · · · · · · · · · · ·	a 00021

- A	7 A	-:		3			
	ASSO ronmental C		Drill Rig:	Rotary	Date Drilled:	4/29/05	Logged By:
			Boring Dia:	8 Inches	Boring Number:	W-6	Ron Michelson
Sample	Blow Counts	Completion	Depth Feet	Lithology	E	Description	
	13-15-7		10		sphalt Pavement ilty, sandy, Gravel, dark Clayey Silt, dark brown,		
Cor	npletion Note	es:			Site:		
	First Water L Static Water		22 22		4186 Eas	eneu Servio st Avenue re, Californi	
					Project No	.: 101-990	1 Page 1

D'NA A	00001	otoo	BORING LOG										
	SSOCIA		Drill Rig:	Rotary	Date Drilled: 4/29/05 Logged By:								
			Boring Dia:	8 Inches	Boring Number: S-5 Ron Michelson								
₩ 1	Blow Co	ompletion	Depth Feet	Lithology	Description								
8-	-13-19				Asphalt Pavement Silt, sandy with scattered gravel, dark brouwn Gravel, well sorted, medium brown, dry, GP Silty sandy gravel, medium brown, slightly moist, GM								
	on Notes: Vater Level Water Leve		NA NA	***************************************	Site: East Aveneu Services 4186 East Avenue Livermore, California 96021								
					Project No.: 101-9901 Page 1								

RM Ass	ooiatas			BORING LOG				
Environmenta		Drill Rig:	Rotary	Date Drilled:	4/29/05	Logged By:		
		Boring Dia:	8 Inches	Boring Number:	S-7	Ron Michelson		
Blow Counts	Completion	Depth Feet	Lithology	D	escription			
		10		Sphalt Pavement Gravel, silty, sandy, dark to Gravel, sandy, greenish be Silty sandy gravel, dark be Clayey Silt, greenish disce	rown, dry rown, dry, slight			
Completion No First Water Static Wate		NA NA		4186 Eas	e, California	a 96021		

Well Name	MV	V-1	-								MW-3	'	-
Client	www	Assoc.								\Box	₩ -3 +-		
Location			6 East A	Ave., Live	rmore	e, (A	eg n		Not To Scale			
Date	05/0	2/07						(e)					
Drilling Co.	Ехр	loration	Geoserv	ices, Inc.	(C-57	7#:	484288	Hayes Avenue			N	1W-1	
Drilling Metl	ıod Hol	low-Sten	Augers	s (8")	,			ake			MW-2		
Sampling Me	thod 2"	CA Modi	fied Spl	it-Spoon :	Samp	ler		Ĭ			₩ * * * *		
Well Casing	2" :	Sch 40 P	VC / 0.0	20 casing	; / #3	Sa	nd						
Logged By	For	rest Cook	PG#8	201			·		nue	1			
Laboratory Analyzed Sample ID	Sample Depth (feet)	Blows per 6 in.	Moisture Content	Product Odor	Depth in East	III Feet	Graphic Log			Soil Descrip	otion	Well	Const.
		3			0	\vdash	#7.7.4 .					1/4	<u>}</u> ,
'	0 1.5	<u> 4</u>	MOIST	NO	_	H				ravel (GC), dark br			R
	1.5 - 3.0	⁴ 5 4	MOIST	NO	2	\prod	\$7.2.72 2.7.0.7.7	l viay ilia	et.	in, mini quaite and	more occurred.		
	3.0 - 4.5	⁴ 5 ₇	MOIST	NO	4	\vdash	1,7,7		_	10000			K
	4.5 ~ 6.0	4 _{7 13}	MOIST	NO	6	H	1000	Sandy G	31	avel (GW), light br	own, moist,	15	11/1
	6.0 - 7.5	11 ₁₂₁₂	MOIST	NO	6	П	9 1/200			lense to dense, subr y cobbles greater th	ounded gravel matrix on 2-inches.	7/1	17:
	7.5 - 9.0	10129	MOIST	NO	8	\mathbf{H}	10, 2,	, ,	417	y coopies grouter in			
SS-1-10	9.0 - 10.5	6 10 ₁₁	MOIST	NO	10		1000					1,11	
	10.5 - 12.0	8 10 ₁₄	MOIST	NO	12								
	12.0 - 13.5	6 8 7	MOIST	NO	'~	H	000	Silty Sa	an	d (SM), light brown	n. moist, fine.		2 180
	13.5 - 15.0	¹⁰ 14 ₁₆		SLIGHT	14	П	0/2/3/19	Sandy	G	ravel (GW), light g			
	15.0 - 16.5	6 _{7 7}	MOIST	SLIGHT	16		و منور			parse sand matrix.			
SS-1-17	16.5 - 18.0	6 _{6 7}	MOIST	NO	18	П				y (CL),light gray, n ticity, with trace fin	noist, stiff, estimated te sand.		
	18.0 - 19.5	⁵ 68	MOIST	NO									
SS-1-21	19.5 - 21.0	<u> </u>			20		10 0		j	nitial Water at appr	roximately 22.0 feet		
····	21.0 - 22.5 22.5 - 24.0	12 ₁₃ 18		SLIGHT SLIGHT	22			Sandy	(Gravel (GW), light g	gray, wet, medium		
	24.0 - 25.5	102	WET	SLIGHT	24	·H	0, 2,	dense t	to	dense, subrounded	gravel matrix.		
	25.5 - 27.0		WET	NO	26	şH							
	27.0 - 28.5	12	WET	NO	28	şΕ							
	28.5 - 30.0	1 -	WET	NO	1	H	400,						
					30	Ή	-	T	Γς	tal Depth Explored	30 feet bgs]	
] 32	:	_						
					34	F	_						
					36	┢				Slotted Casing 15'	- 30'		
-						H	_			nd 13' - 30' nite 10' - 13'			
					38	╬	-			10' - surface			
					40	, [
GEOR	ESTOR	ATION	ı, INC		4		!				WELL LOG [M		

Well Name	M	W-2					· ·			A	
Client	RM	Assoc.								MW-3	
Location			6 East	Ave., Live	ermore	e, (CA	e e		Not To Scale	
Date		02/07						le)			
Drilling Co.				ices, Inc.	(C-5'	7#4	184288)	Hayes Avenue		MW-	.1
Drilling Met		low-Sten		·····				aye		MW-2	
Sampling Me				lit-Spoon				Ĭ		V VV −2 - \$ -	
Well Casing		***************************************)20 casing	g / #3	Sa	nd				
Logged By	For	rest Cook		3201						East Avenue	
Laboratory Analyzed Sample ID	Sample Depth (feet)	Blows per 6 in.	Moisture Content	Product Odor	Depth	TODA TIT	Graphic Log			Soil Description	Well Const.
		4			0	_	21.7.7.7				v4 (v)
	0 - 1.5	* *	MOIST	NO	_	\vdash	7			ravel (GC), dark brown, moist, medium y matrix, gravel is subrounded.	ð Ö
***********	1.5 - 3.0	у	MOIST	NO	2		7,707	dense, c	Jia	y matrix, graver is subfounded.	<u> </u>
	3.0 - 4.5	⁴ ₅ ₁₂	MOIST	NO	4	H					
-	4.5 - 6.0	50 for 1"	MOIST	NO	6	世	1000			avel (GW), light brown, moist,	
	6.0 - 7.5	7 14 18	MOIST	NO		4	9,600			ense to very dense subrounded gravel th cobbles greater than 2-inches.	彩彩
	7.5 - 9.0	28	MOIST	NO	8		10, 2,9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***	in coords greater than 2 mones.	
SS-2-10	9.0 - 10.5	13 ₂₈	MOIST	NO	10		1001				
	10.5 - 12.0	133020	MOIST	NO		${\sf H}$					
	12.0 - 13.5	40	MOIST	NO	12	\prod				avel (GC), dark brown, moist, dense, clay	n Cons
· · · · · · · · · · · · · · · · · · ·	13.5 - 15.0	4.0	MOIST	NO	14	H		matrix,	wi 	th quartz cobbles greater than 2-inches.	
SS-2-16	15.0 - 16.5	⁵ 5 6	MOIST	NO	16					(CL), light brown, moist, stiff, estimated	
	16.5 - 18.0	3 3 ₅	MOIST	NO	1	\vdash		low plas	sti	city, with trace fine sand.	
	18.0 - 19.5	³ ₄ ₆	MOIST	NO	18]				
SS-2-21	19.5 - 21.0	3 5 g	MOIST	NO	20			_ =	In	itial Water at approximately 21.0 feet	BEI
	21.0 - 22.5	5 _{7 8}	WET	NO	22	\prod	1000			avel (GW), light brown, wet, medium	le
	22.5 - 24.0	A	WET	NO	24	\parallel	9 v 0	I .		orounded gravel matrix. Sand (SW), light brown, wet, coarse.	
	24.0 - 25.5	5	WET	NO	24	\blacksquare	م الم	<u> </u>	·	avel (GW), light brown, wet, dense to very	
	25.5 - 27.0	112100	WET	NO	26	H	1000	J		brounded gravel matrix.	
	27.0 - 28.5	30 ₂₃ 30	WET	NO	28	H	2000				
		- 55				H	10 10 ,5		ota	l Depth Explored 29 feet bgs	
					30]		. ,	F F	
					32	-	-				
] ,,		1				
					34	-		0.020	S	lotted Casing 14' - 29'	
			!	····	36			#3 Sa	ınd	1 12' - 29'	
	<u> </u>		<u> </u>	1	38	F	-			te 9' - 12' ' - surface	
					10						
	<u> </u>		<u> </u>	<u> </u>	40	L	<u></u>	<u> </u>			
GEORI	ESTOR	ATION	, INC.	•						WELL LOG [MW-2] Page 1 of 1	
										rage 1 01 1	

Well Name	M	W-3							T	A			
Client RM Assoc.										MW-3			
Location	RR #64 - 4186 East Ave., Livermore, CA							<u>υ</u>		Not To Scale			
Date	05/02/07												
Drilling Co. Exploration Geoservices, Inc. (C-57#484288)									MW-1 MW-2				
Drilling Method Hollow-Stem Augers (8")													
Sampling Method 2" CA Modified Split-Spoon Sampler										MW-2			
Well Casing 2" Sch 40 PVC / 0.020 casing / #3 Sand										Ψ.			
Logged By Forrest Cook PG # 8201									;	East Avenue			
Laboratory Analyzed Sample ID	Sample Depth (feet)	Blows per 6 in.	Moisture Content	Product Odor	Depth in Feet	Graphic Log			Soil Description			Const.	
		7			0	_	\$107.75 A				. 4	700	
	0 - 1.5		MOIST	NO	_	\parallel	27.70			ravel (GC), dark brown, moist, medium		(7)	
	1.5 - 3.0	4 7 8	MOIST	NO	2	世				ny matrix, gravel is subrounded with cobbles an 2-inches.		14	
	3.0 - 4.5	8 10 ₁₁	MOIST	NO	4	\coprod		0. 54101	74.5				
	4.5 - 6.0	<i>)</i> -	MOIST	NO		\dashv	100 A				X	17.	
	6.0 - 7.5	4 7 04	MOIST	NO	6	I	9,000			avel (GW), dark brown, moist,	初	浴	
	7.5 - 9.0	9 14 ₂₆	MOIST	NO	8	\vdash	0/2/3			dense to dense, subrounded gravel matrix, by cobbles greater than 2-inches.			
SS-3-10	9.0 - 10.5	9 12 12	MOIST	NO	10		10016	***************************************		, 0000,000 g. 00,000 m. m. m. 2 m.	111	11	
	10.5 - 12.0	121015	MOIST	NO		H	000	decreas	sin	g cobbles.			
	12.0 - 13.5		MOIST	NO	12	\Box				ravel (GC), dark brown, moist, medium	í Bi		
SS-3-15	13.5 - 15.0	⁵ 7 ₁₁	MOIST	NO	14		707			y matrix, gravel is subrounded, with creasing in size with depth.			
	15.0 - 16.5	¹¹ ₁₂ ₁₄	MOIST	NO	16	${f H}$							
	16.5 - 18.0	65	MOIST	NO	18	Ħ				ay (CL), light brown, moist, stiff, iff, estimated low plasticity, sand is fine.	Œ		
	18.0 - 19.5	⁵ 8 12	MOIST	NO	1	H				•	E		
66.00	19.5 - 21.0	6 10 ₁₄	1	NO	20					ravel (GC), dark brown, moist to wet,			
SS-3-22	21.0 - 22.5	9 14 ₂₁	1	NO	22		7,0,7			dense to dense, clay matrix, gravel is ed with cobbles greater than 2-inches.			
	22,5 - 24,0		WET	NO	24	H	100 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sandy (G+	avel (GW), light gray, wet, medium			
	24.0 - 25.5	8 15 15	WET	NO	26	I		dense, s		brounded gravel matrix.			
	25.5 - 27.0	15 ₁₅ 9 12 ₁₅	WEI	NO	-	Н				•			
	27.0 - 28.5 28.5 - 30.0	1 6	WET	NO NO	28	H	10 10 ,6		آن	ay (CL), light brown, wet, stiff.	Œ		
	20.3 - 30.0	5	 	110	30	L				tal Depth Explored 30 feet bgs		- Pass	
					32	F	-			= Initial Water at approximately 22.0 feet			
					1	t	1			mittal water at approximately 22.0 feet			
			1		34	H	-			Slotted Casing 15' - 30'			
			1	†	36]			d 13' - 30'			
					38	F	-			ite 10' - 13' 10' - surface			
		<u> </u>			1,0								
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