JACK MILLER
Director

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700/1 (800) 253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
Assistant Director

January 26, 2012

Mr. Larry Doyle
Tif-Oyl, Inc.
1451 Carrizo Gorge Road
Jacumba, California 91934

Joseph Botkin
Jacumba Valley Ranch LLC
2423 Camino del Rio South #212
San Diego, California 92108

Dear Responsible Parties:

UNAUTHORIZED RELEASE #H02688-003
JACUMBA TEXACO
1451 CARRIZO GORGE ROAD, JACUMBA, CALIFORNIA

This letter confirms the completion of a site investigation and corrective 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 tanks is 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 tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum releases 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 (g) of Section 25296.10 of the Health and Safety Code. Please contact Tony Sawyer, at (858) 505-6802, if you have questions regarding this matter.

Sincerely,

JACK MILLER, Director
Department of Environmental Health
Site Assessment and Mitigation Program

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

DATE: January 26, 2012

Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261
City/State/Zip: San Diego, CA 92112-9261	Phone: (858) 505-6802
Responsible Staff Person: Tony V. Sawyer	Title: Hydrogeologist

II. CASE INFORMATION

Site Facility Name: Jacumba Texaco		
Site Facility Address: 1451 Carrizo Gorge Road, Jacumba, CA		
RB LUSTIS Case No: 7T1934005	Local Case No: H02688-003	LOP Case No: N/A
URF Filing Date: 5/13/99	SWEEPS No: N/A	

Responsible Parties	Address	Phone Number
Mr. Larry Doyle, Tif-Oyl, Inc.	2415 Shooting Star Pl., Alpine, CA 91901	
Mr. Joseph Botkin, Jacumba Valley Ranch, LLC	2423 Camino del Rio South, #212, San Diego, CA 92108	

Tank No.	Size in Gal.	Contents	Status	Date
T01	6000	Gasoline	Removed under permit	1/4/99
T02	4000	Gasoline	Removed under permit	1/4/99
T03	4000	Gasoline	Removed under permit	1/4/99

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause of Release: Overfill or leak at filler	Substance Released: Gasoline	
Site Characterization complete? Yes	Date Approved By Oversight Agency: 5-3-11	
Monitoring Wells Installed? Yes	Number: 11	Proper Screened Interval? Yes
Highest GW Depth B.G. Surface: 71.97	Lowest Depth:80.18	Flow Direction: North to northeast
Most Sensitive Current Use:	Existing Beneficial Groundwater Use: MUN, IND, AGR Existing Beneficial Surface Water Use: None	
Are Drinking Water Wells Affected? No	Aquifer Name: Anza Borrego Hydrologic Unit 722.71	
Is Surface Water Affected? No	Nearest SW name: Carrizo Creek (intermittent, 2000 feet south of site)	
Off-Site Beneficial Use Impacts (addresses/locations): None		
Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Environmental Health	

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal)	Date
Soil	32 drums	Disposed at TPS Technologies, Inc. in Adelanto, CA	8/19/04
Purge Water	6 drums	Treated at DeMenno Kerdoon in Compton, CA	8/25/04
	28 drums	Treated on site by CalClean, Inc.	3/03 to 4/05/09
	3 drums	Treated on site by CalClean, Inc.	3/03 to 4/05/09
	2 drums	Treated at Western Environmental, Inc. in Mecca, CA	4/22/10
	5 drums	Treated at Crosby & Overton Plant #1 in Long Beach, CA	12/02/10
LPH/Water	1 drum	Treated at DeMenno Kerdoon in Compton, CA	8/18/04
	1 drum	Treated at Pacific Resource Recovery in Los Angeles, CA	2/23/10
Vapor	508 gallons	Treated on site by CalClean, Inc.	3/14 to 3/29/06
	1167 gallons	Treated on site by CalClean, Inc.	3/03 to 4/05/09
	435 gallons	Treated on site by CalClean, Inc.	5/08 to 6/09/09
	775 gallons	Treated on site by CalClean, Inc.	7/13 to 8/14/09
Extracted Groundwater	2,700 gallons	Treated on site by CalClean, Inc. then disposed at Remedy Environmental Services	3/29/06
	5,500 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	3/27/09
	3,000 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	4/09/09
	3,000 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	5/21/09
	4,500 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	6/09/09
	5,000 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	7/25/09
	5,000 gallons	Treated on site by CalClean, Inc. then disposed at Ka-Pure Waterworks, Inc.	7/25/09
	9,500 gallons	Treated on site by CalClean, Inc. then disposed at Lakeland Processing	8/11/09
	10,000 gallons	Treated on site by CalClean, Inc. then disposed at Lakeland Processing	8/14/09

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS	MAXIMUM	REMAINING
SOIL (mg/kg)		
Total Petroleum Hydrocarbons (Gasoline)	15,000	15,000
Total Petroleum Hydrocarbons (Diesel)	3,800	3,800
Benzene	25	25
Ethylbenzene	370	370
Toluene	250	250
Total Xylenes (o, p & x isomers)	2,410	2,410
Methyl-tert-butyl ether (MTBE)	13	13
WATER (µg/l)		
Total Petroleum Hydrocarbons (Gasoline)	98,000	37,000
Total Petroleum Hydrocarbons (Diesel)	32,000	2,900
Benzene	6,900	3,900
Ethylbenzene	3,000	3,000
Toluene	14,000	12,000
Total Xylenes (o, p & x isomers)	18,600	18,600
Methyl-tert-butyl ether (MTBE)	11,000	700
tert-Butyl alcohol (TBA)	490	ND(<5.0)
tert-Amyl methyl ether (TAME)	47	39
Di-isopropyl ether (DIPE)	9.3	4.3
VAPOR (µg/l)		
Benzene	3.1	3.1
Ethylbenzene	17	17
Toluene	5.2	5.2
Total Xylenes (o, p & x isomers)	63	63
Methyl-tert-butyl ether (MTBE)	1.2	1.2
Isopropylbenzene	4.7	4.7
n-Butylbenzene	1.1	1.1
sec-Butylbenzene	1.1	1.1
LIQUID PHASE HYDROCARBONS		
Thickness of Floating Petroleum Hydrocarbons (ft)	5.0	0.0

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

Comments:
This case was opened following the discovery of an unauthorized release from the USTs at the time of tank replacement. Analysis of soil samples collected at the tank closure revealed TPH concentrations of up to 12,000 mg/kg in the soil. Subsequent phases of site assessment found that the soil contamination was limited in areal extent. The coarse-grained nature of the slopewash and alluvial deposits underlying the site allowed the contamination to flow easily in a vertical direction, so little lateral spreading occurred. Groundwater underlies the site at a depth of 70 or more feet. Initially free product up to five feet thick was measured in MW-2. Free product was never observed or measured in any of the other monitoring wells. The areal extent of dissolved contaminants has been defined and is limited to the site and proximity. No impacts to groundwater production wells have occurred. Remediation of the contamination initially consisted of hand bailing the free product. Following pilot testing, a Corrective Action Plan was approved and High Vacuum Dual Phase Extraction (HVDPE) was performed at the site using a mobile remediation system. This was performed three times in addition to the pilot testing. Since the completion of the last round of HVDPE, contaminant levels are stable and generally decreasing. There is some minor fluctuation of concentrations in the most interior wells, but this is typical on sites where natural attenuation is degrading the remaining compounds.

This site is in an unincorporated and sparsely populated area of San Diego County, where residents (mostly wide-spread ranches) depend on groundwater for all their domestic needs. However, the nearest production well is more than 2000 feet from the subject site in a cross-gradient direction, and all of the site's perimeter wells have no detectable levels of contaminants. Directly down-gradient of the site lies Interstate 8, and then mountains that lie inside of the Anza-Borrego State Park, which can never be developed. Contaminant levels in the area directly under the former USTs will continue to degrade over the next several decades. A more exact calculation of the rate of decay and time required to reach the basin Maximum Contamination Levels (MCLs) is not possible for these interior wells, and all of the perimeter wells are already below the basin MCLs. A health risk assessment was performed using soil vapor samples collected near the existing site structures. The results of the analysis indicate that there is no increased risk to site occupants from the contamination remaining in the soil or groundwater.

Based upon the available information, DEH concludes allowing the remaining contamination to degrade naturally will be protective of public health and the environment and that it is appropriate to close this case based upon closure criteria from the State Water Resources Control Board. Despite these facts, the Regional Water Quality Control Board was not comfortable with concurring with closure, as contamination concentrations in the center of the plume were oscillating and remained above MCLs. It was their opinion that they could not close it if it was their case, due to their internal policies.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes. Contaminant concentrations in on-site wells will continue to degrade and will reach MCLs before impacting beneficial users		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes. Contaminant concentrations in on-site wells will continue to degrade and will reach MCLs before impacting beneficial users		
Does corrective action protect public health for current land use? Yes Case oversight completed based upon the following site use: Commercial – gasoline retail facility		
Site Management Requirements: Any Contaminated Soil Excavated As Part Of Subsurface Construction Work Must Be Managed In Accordance With The Legal Requirements At That Time.		
Should corrective action be reviewed if land use changes? Yes		
Monitoring Wells Decommissioned: Not yet*	Number Decommissioned: 0*	Number Retained: 11*
List Actions Taken: Notice Of Reimbursement/Local		
List Enforcement Actions Rescinded: NONE		

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Tony V. Sawyer, PG #4345, CHg #40	Title: Hydrogeologist
Signature: Tony V. Sawyer	Date:1/26/12

VI. RWQCB NOTIFICATION

Date Submitted to RB: October 26, 2011	RB Response: Does not concur, but won't contest closure	
RWQCB Staff Name: Kai Dunn	Title: Senior Engineering Geologist	Date: 11/9/2011

VII. ADDITIONAL COMMENTS, DATA, ETC.

*Well destruction pending under Permit Number LMON 108237

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.