

RECEIVED

1:30 pm, Jun 08, 2009

Alameda County Environmental Health

November 9, 1998 - Project 912-006.6A

AN TO COMPANY

Mr. Hugh Murphy Hayward Fire Department 25151 Clawiter Road Hayward, California 94545

門上三春	5487	33_ v		
RPT	_0.17	,Th.: \		
12	<u> </u>	<u> </u>	_ 5	_ <u>; </u>
	<u></u>			

Re: Underground Storage Tank Case Review/Closure Request Various 76 (former UNOCAL) Service Stations Hayward, California

Dear Mr. Murphy:

On behalf of Tosco Marketing Company (Tosco), Pacific Environmental Group, Inc. (PEG) has prepared this letter requesting case review and closure status for the following three 76 (former UNOCAL) Service Stations:

76 Service Station #5487 28250 Hesperian Blvd., Hayward

76 Service Station #6049 898 A Street, Hayward

76 Service Station #6074 3500 Breakwater Avenue, Hayward

Tables 1 through 3 present brief summaries of the rationale for the closure requests for each station. Completed Underground Storage Tank Cleanup Fund Case Review Forms are presented as Attachment A.

In evaluating sites for their suitability for closure, PEG considered the following criteria:

- Source Removal: Have all primary hydrocarbon sources (piping, underground storage tanks [USTs], etc.) been removed?
- Site Remediation: Has soil or groundwater remediation been performed/completed at the site?
- Assessment of Residual Hydrocarbons in Soil and Groundwater: Has site assessment been completed, and is the extent of hydrocarbons in soil and

SERRY.doc

groundwater well understood? Are there residual hydrocarbons in soil and/or groundwater beneath the site? Is the residual dissolved hydrocarbon plume stable? Are separate-phase hydrocarbons (SPH) present in any of the site wells?

• Water Usage: Are there any municipal or other water-supply wells within or in close proximity to the plume?

Based on these factors, PEG believes that the above-referenced sites should be closed and no further regulatory action required. At your convenience, we would like to discuss these sites and any concerns and/or comments that you may have regarding their closure. If you have any questions, please do not hesitate to call.

Sincerely,

Pacific Environmental Group, Inc.

Christino W Brown

Christine W. Brown

Senior Geologist

CEG 1688

Attachments:

Table 1 - Rationale for Closure Request, 76 Service Station #5487 28250 Hesperian Blvd., Hayward

Table 2 - Rationale for Closure Request, 76 Service Station #6049 898 A Street, Hayward

Table 3 - Rationale for Closure Request, 76 Service Station #6074 3500 Breakwater Avenue, Hayward

Attachment A - Case Review Forms

cc: Ms. Tina Berry, Tosco Marketing Company Mr. Chuck Headley, RWQCB, San Francisco Bay Region

Table 1 Rationale for Closure Request 76 Service Station #5487 28250 Hesperian Boulevard Hayward, California

RATIONALE FOR CLOSURE REQUEST	REFERENCE
RATIONALE FOR CLOSURE REQUEST	REFERENCE
Source Removal: All hydrocarbon sources (product lines and USTs)	KEI, 3/1/89
were replaced in January 1989.	KEI, 3/29/92
	,
Soil Remdiation: Significant overexcavation, predominantly lateral,	KEI, 3/1/89
was performed at the gasoline and waste oil tank pits. The gasoline tank	KEI, 3/29/89
pit was overexcavated 10 feet laterally (7 feet to the north and 3 feet to	,
the south) and the waste oil tank was overexcavated to 29 feet by 29	
feet. Approximately 650 cubic yards of soil were removed from the	
excavations and disposed of off site.	j
Croundwater Personalistians Approximately 24,000 cellans of	KEI, 3/1/89
Groundwater Remediation: Approximately 24,000 gallons of hydrocarbon-impacted groundwater were pumped from the fuel and	KEI, 3/1/09
waste oil tank pits on January 30, February 14, and February 17, 1989.	
waste on tank pits on January 30, 1 columny 14, and reorum y 17, 1909.	_
Assessment of Residual Hydrocarbons in Soil: There is no evidence	KEI, 3/1/89
of hydrocarbon-saturated soils beneath the site. Soils were	KEI, 8/19/96
overexcavated during tank removal activities until hydrocarbon	,
concentrations in sidewall samples were near or below detection limits.	
The only residual soil contamination beneath the site appears to be in the	,
"smear zone" (soil-groundwater interface) downgradient of the gasoline	,
tank complex.	
Assessment of Residual Hydrocarbons in Groundwater: The	PEG, 9/20/95
downgradient extent of hydrocarbons in groundwater has been defined.	MPDS, 3/7/97
The residual dissolved hydrocarbon plume is small, and gasoline and	·
BTEX concentrations in groundwater have declined significantly since	
monitoring began in 1989. Although MtBE is present in MW-5 and	}
MW-6, it has not been detected in downgradient Well MW-7. SPH have	
never been detected in site monitoring wells.	
Water Usage: There are no municipal wells within 1/4-mile radius of	PEG, 7/26/96
the site. The nearest documented water-supply well (irrigation) is	
located over 1,000 feet northwest (crossgradient) of the site.	

Table 2 Rationale for Closure Request 76 Service Station #6049 898 A Street Hayward, California

RATIONALE FOR CLOSURE REQUEST	REFERENCE
Source Removal: All hydrocarbon sources (product lines, dispensers, USTs, and hydraulic lift) were replaced in July 1993 (the hydraulic lift was removed in October 1995).	KEI, 9/27/93 KEI, 10/23/95
Site Remediation: The gasoline and waste oil tank pits were overexcavated. Approximately 450 cubic yards of soil were disposed of at a Class III facility.	KEI, 9/27/93
Assessment of Residual Hydrocarbons in Soil: There is no evidence of hydrocarbon-saturated soils beneath the site. The extent of soil contamination has been defined. Gasoline constituents were not detected in any of the soil samples collected from beneath the fuel tanks, dispensers, product lines, or the undocumented tank. Soil samples collected from beneath the waste oil tank contained elevated hydrocarbon concentrations before but not after overexcavation.	KEI, 9/27/93
Assessment of Residual Hydrocarbons in Groundwater: An attempt was made to install monitoring wells, but groundwater was not encountered to the total depth drilled of 51 feet. No significant soil contamination was detected in the boring.	KEI, 3/2/95
Water Usage: There are no municipal wells within 3,000 feet of the site. The nearest water-supply well (domestic) is located approximately 1/4 mile northeast of the site.	PEG, 6/23/96

Table 3 Rationale for Closure Request 76 Service Station #6074 3500 Breakwater Avenue Hayward, California

RATIONALE FOR CLOSURE REQUEST	REFERENCE
Source Removal: All primary hydrocarbon sources (product lines, dispensers, and USTs) were replaced in October 1993.	KEI, 12/2/93
Soil Remediation: The gasoline and waste oil tank pits were overexcavated during tank replacement. Approximately 800 cubic yards of soil were disposed of at a Class III facility.	KEI, 12/3/93
Assessment of Residual Hydrocarbons in Soil: There is no evidence of hydrocarbon-saturated soils beneath the site. No significant soil contamination was detected during UST removal or drilling for the monitoring wells. All soil samples collected from beneath the fuel tanks and piping contained TPH-g and TPH-d concentrations of 5.1 ppm or less, and a maximum benzene concentration of 0.023 ppm.	KEI, 12/2/93
Assessment of Residual Hydrocarbons in Groundwater: During the most recent sampling event (2/12/97) no dissolved hydrocarbons were detected in any of the site monitoring wells. SPH have never been detected in groundwater monitoring wells.	MPDS, 3/10/97
Water Usage: The nearest documented water-supply well is located approximately 1,000 feet from the site, and is not impacted by site operations.	PEG, 9/4/96

ATTACHMENT A

UNDERGROUND STORAGE TANK CLEANUP FUND CASE REVIEW FORMS

State Water Resources Control Hourd (New 12/96)

Attacament 1
aderground Storage Tank Cleanup Fund
CASE REVIEW FORM

Unite: 8-18-98 LUSTIS FIRE NO.: Oversight Agency: City of Hayward Fire Dept.										
Site Name/Address: 76 Station # 5487 Responsible Parties: Address: P.O. Box 5/55 Telephone No.:								ae No.:		
Site Name/Address: 76 Station #5487 Responsible Parties: Z8\$Z50 Hesperian Blvd. Hayward Tosco/Tina Berry Address: P.O. Box 5155 Telephone No.: 925- 237-2321										
L CASE INFORMATION (N/A = Not Applicable)										
Tank No. Size in G	Tank No. Size in Gallons Contents					Closed in-Place/Removed?				
1 10,00	1 10,000 gasoline.						ced			1/87
2 10,00							aced	·		1/89
110,000gasolinereplaced1/8210,000gasolinereplaced1/83780waste oilreplaced1/8									1/89	
IL SITE CHARACTI	ERIZATION I	NFORMAT	ION (GW = gi	roundwater)		•				
GW Basin: East	EAST DAY MAIN I I MAKANDA									
Distance to Neurest Mus	nicipal Supply V	Well: Non	e with	in Kin	ik Di	stance Between I	Known Shallow	GW Contami	nation & Aquit	år:
Mearest water GW Highest Depth:	r-Supply	well (ir.) 100	O' NW			, , , , , , , , , , , , , , , , , , , 			
			west Depth:	7.8'		ell Screen Intervi			Pirection: 5	5W
	and c			······		aximum Depth S				
IIL MAXIMUM DOO	,									
Contaminent	Soil (m		Water		{ `	ontaminant	Soil (mg/kg)		<u> </u>	(ug/L)
Total (C)	Initial (Year)	Latest (Year) 1992	Initial (Year)	Latest (Year)	- n		Initial (Year)	Latest (Year) 1992	Initial (Year)	Latest (Year) 1997
TPH (Gas)	900	410	1300	85	Ethylb		30	15	9.2	2.1
TPH (Diesel)	800	~ ~	500		Xylene		110	89	100	6.6
Beazene	3.6	1.9	52	16	Other		~~			450
Toluene 9.2 10 8.6 1.2						Tog	1900		ND	NA
IV. SOIL REMEDIA'					T	m of Remediatio				
overe	X CAVA	_,		,, , , , , ,	Duran	M OI Remedistro	198	9		
V. GROUNDWATER		ION			Derretic	on of Remediatio	w.			·
Nove				***************************************	Duran	ALOI KURCUREO	74, 			
VL FREE PRODUCT		YES 🗍	NO 🔀		Has Fr	ee Product Been	Totally Recover	od? YES	NO NO	П
When Was Free Product										
VII. RECOMMENDI	······································	· · · · · · · · · · · · · · · · · · ·			,			**************************************		
	 	io 🛛	Case Closur	? YES	Ø	NO 🗍	Solvent Cas	e? YES	□ NO	X
Additional Action Requ	Additional Action Required (i.e., additional site assessment, remediation, monitoring):									
VIII. JUSTIFICATION FOR RECOMMENDED ACTION										
Source (tanks, piping, most contam. Soil) removed. No hydrocarbon										
Saturatea	saturated soils. No separate-phase hydrocarbons. Plume									
Source (tanks, piping, most contam. soil) removed. No hydrocarbon saturated soils. No separate-phase hydrocarbons. Plume delineated, stable. Nearest water-supply well 1000' crossgradien										
	7					177			ت ت	

Attachment 1

Underground Storage Tank Cleanup Fund CASE REVIEW FORM

State Water Resources Control Board (New 12/36)

Oversight Agency: City of Hayward Fire Dept-LUSTIS File No.: 8-18-98 Address: P.O. Box 5155 Telephone No.: Site Name/Address: 76 Station #6049 Responsible Parties: 925-898 A Street Tosco/ Tina Berry San Ramon, CA 277 - 232/ 94583 L CASE INFORMATION (N/A = Not Applicable) Tank No. Size in Gallons Contents Closed In-Place/Removed? Date Regular unleaded gas Replaced 10,000 Super unleaded gas Replaced 3 55° Waste Oil Replaced Unknown IL SITE CHARACTERIZATION INFORMATION (GW = groundwater) GW Basin: East Bay Plain Beneficial Uses: 911 Depth to Drinking Water Aquifer: unknown Distance to Nearest Municipal Supply Well: None within 3000! Distance Between Known Shallow GW Contamination & Aquifer: ΝА nearest water- supply well (dom.) - 1500' Flow Direction: Un Known GW Lowest Depth: GW Highest Depth: Well Screen Interval: Soil Type: interbedded ML. SM, GW, CL Maximum Depth Sampled: 51'- soil only III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS - Initial and Latest -= Not Reported, ND = Non-Detect Contaminant Soil (mg/kg) Water (ug/L) Contaminant Soil (mg/kg) Water (ug/L) Initial (Year) Initial (Year) Latest (Year) Latest (Year) TPH (Gas) Ethylbenzene 440* 1.2 0.015 TPH (Diesel) Xvlenes ND Benzeno ND 0.013 ND TOG 6700 Toluene Other chlorobenz ND (1993) 0.0097 7700 0.025 IV. SOIL REMEDIATION **Duration of Remediation:** 1993 Overexcavatio V. GROUNDWATER REMEDIATION Duration of Remediation: Method: NA VI. FREE PRODUCT NO X Has Free Product Been Totally Recovered? Was Free Product Encountered? YES When Was Free Product Recovery Project Completed? VIL RECOMMENDED ACTION NO X YES 🗍 Case Closure? Solvent Case? Soil Closure Only? YES X NO Additional Action Required (i.e., additional site assessment, remediation, monitoring): VIII. JUSTIFICATION FOR RECOMMENDED ACTION Source removed. No hydrocarbon- saturated soil. No significant Soil contamination after overexcavation. Depth to water greater than

State Water Resources Control Beard (New 12/96)

Attachment I
Underground Storage Tank Cleanup Funu
CASE REVIEW FORM

Date: 8-18-9	8	LUSTIS Fil	PE INO.:			Oversigni /	rgency: Ha	yward	Fire 1	Sept.
Site Name/Address: Station # 6074 Responsible Parties: Address: P.O. Bax 5/55 Telephone No.;										
3500 Breakwater Ave. Tosco/ Tina Berry San Ramon, CA 94583 277-2321										
L CASE INFORMATION (N/A = Not Applicable)										
Tank No. Size in Gal	Tank No. Size in Gallons Contents					Closed In-Place/Removed?				
1 10,00	D U	nleade	d 995	oline.		Rep	laced			10/93
2 10,000	2 50	sper u	nleaded	1 995	oline Replaced					10/93
2 10,000 super unleaded gasoline Replaced 10 3 10,000 diesel Replaced 1							10/93			
2 10,000 Super unleaded gasoline Replaced 10/93 3 10,000 diesel Replaced 10/93 11. STYE CHARACTERIZATION INFORMATION (GW = groundwater) Replaced 10/93										
GW Basin: East	Bay Pla	in Benefic		W]		epth to Drinking \		unkn		
Distance to Nearest Munic 4000, well a	cipal Supply W	Vell: Non	e Know Se 1000	NW Y	hin Di	stance Between K	inown Shallow	GW Contami	estion & Aquif	er:
GW Highest Depth:	11.6'	GW Lo	west Depth:	15.1'	w	eli Screen Interva	d: 8-22	/ Flow D	rirection: W	cst
Soil Type: Clayey	silt wi	Th. 590	d and c	lay inte	de M	nximum Depth Sa	umpled: Z	.z'		
IIL MAXIMUM DOCT								ed, ND = No	1-Detect	
Contaminant	Soil (m	g/kg)	Water (ug/L)	C	ontaminant	Soil (mg/kg)		Water (ug/L)	
1	Initial (Vent) 1993	Latest (Year) 1994	Initial (Year)	Latest (Year)	<u> </u>		Initial (Your)	Latest (Year)	Initial (Year)	Laura (Year)
TPH (Gas)	5.1	1.9	43,000	160	Ethylb	cuzene	0.062	ND	1740	NO
TPH (Diesel)	2.8	ND	40,050	ND	Xylene	**	0.030	0.29	10,200	ND
Benzene	0.023	ND	440	ND	МТВЕ			~ -		ND
Toluene 0.012 ND 2610 ND Other										
IV. SOIL REMEDIAT	ION				_					
Method: Overex	cavati	iea			Durati	on of Remediation	^{1:} 1993	•		
V. GROUNDWATER										
Method: None					Duratio	on of Remediation	n:			
VL FREE PRODUCT										
Was Free Product Encoun	itered? Y	ES 🗍	NO 🔀		Has Fr	ee Product Been	Totally Recover	red? YES	☐ NO	
When Was Free Product I	Recovery Proje	ect Completed	1?		4					
VII. RECOMMENDE	DACTION								_	
Soil Closure Only? YE	S N	o 🔀	Case Closure	7 YES	Ø	NO 🗌	Solvent Cas	e? YES	NO	×
Additional Action Require	Additional Action Required (i.e., additional site assessment, remediation, monitoring):									
VIII, JUSTIFICATION FOR RECOMMENDED ACTION										
Source removed. No hydrocarbon-saturated soils. No separate										
phase hye	phase hydrocarbons. Plume small, stable, and delineated.									
No signifi	Source removed. No hydrocarbon-saturated soils. No separate phase hydrocarbons. Plume small, stable, and delineated. No significant soil contamination. Negrest water-supply well									
1000' from site.										