

BILLING ADJUSTMENT FORM

Date: 11-3-97

STID#: 597

Caller: _____ Phone: _____

Business Name: Alameda Shell #204-0072-0569

Site Address: 2160 Otis Drive City Alameda Zip 94501

REQUESTED CHANGES: 4 usts REMOVED 9-4-97; overseen by D. Hwang.

Billing Acct#	
<input type="checkbox"/> Generator...H	_____
<input type="checkbox"/> HMMP.....L	_____
<input checked="" type="checkbox"/> UST.....T	<u>B1121</u>

Received by: N. Arreguin *NA*

Discontinue billing with explanation and date:

- Generator _____
- HMMP (AB2185) _____
- UST 4 usts REMOVED; 0 left on site

Continue billing with following changes:

- | | | |
|--|-------------|-----------|
| <input type="checkbox"/> Change number of EMPLOYEES | From: _____ | To: _____ |
| <input checked="" type="checkbox"/> Change number of TANKS | <u>4</u> | <u>0</u> |
| <input type="checkbox"/> HMMP (AB2185) - See Attachment | | |
| <input type="checkbox"/> Updated information below: | | |

Business Name _____ Phone _____

Site address _____ City _____ Zip _____

Business Owner _____ Phone _____

BILLING address _____ City _____ Zip _____

Specialist: *[Signature]*

Date: 11/3/97

<input checked="" type="checkbox"/> Sent to billing
on <u>12/1/97</u>
<i>NA</i>

8-6 PW

THIS FILE IS
ARCHIVED AS REMOVED + CLOSED.

**ALAMEDA COUNTY ENVIRONMENTAL
HEALTH SERVICES**

**ENVIRONMENTAL PROTECTION DIVISION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
Telephone (510) 567-6700 Fax (510) 337-9335**

FAX COVER SHEET

DATE: June 19, 1997

TO: Paul, Cambria

FAX # (510) 420-9170

Total number of pages including cover sheet 2

FROM: Suliet Shin

*A copy of the
closure letter for
2160 Otis per
your last message
to me.*

NOTE:

PLEASE RESPOND BY FAX ONLY.

**(SMILE) HAVE A NICE DAY
DO SOMETHING FOR OUR ENVIRONMENT**



November 14, 1995

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

REMEDIAL ACTION COMPLETION CERTIFICATION

November 14, 1995

Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

UNDERGROUND STORAGE TANK (UST) CASE
Re: Shell Service Station WIC #204-0072-0502, located at 2160 Otis
Drive, Alameda, California 94501

Site No. 590

Dear Mr. Dan Kirk,

This letter confirms the completion of site investigations and/or remedial action for the 550-gallon waste oil underground storage tank formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e). (If a change in land use is proposed, the owner must promptly notify this agency).

Please telephone Juliet Shin at (510) 567-6700 if you have any questions regarding this matter.

Sincerely,

Jun Makishima, Interim Director

c: Gordon Coleman, Acting Chief, Hazardous Materials Division - files
Juliet Shin, ACDEH
Kevin Graves, RWQCB
Mike Harper, SWRCB



November 2, 1995

Juliet Shin
Alameda County Department
of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502-6577

Re: Third Quarter 1995
Shell Service Station
WIC #204-0072-0502
2160 Otis Drive
Alameda, California
WA Job #81-0429-205

Dear Self-Directed Case Advisor:

On behalf of Shell Oil Products Company, Weiss Associates (WA) has prepared this status report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d. No characterization was conducted for this site this quarter because site closure has been requested. WA will continue to submit quarterly updates to your agency. I trust this submittal meets your needs. Please call me if you have any questions.

Sincerely,
Weiss Associates

Joyce E. Adams
Senior Staff Geologist

cc: R. Jeff Granberry, Shell Oil Products Company, PO Box 4023, Concord, California 94524
Kevin Graves, Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street, Suite 500,
Oakland, CA 94612

TF/:tf
J:\SIB\11\0419\QAR\3095CAL W.DOC

95 NOV -3 PM 1:48
ENVIRONMENTAL
PROTECTION

Jeffrey W. Holtzman

Background Sketch

Education

B.A. Media Studies, Sonoma State University 1976

J.D. Antioch University School of Law, Washington D.C. 1980

Admitted to California Bar May, 1981

Professional

Journalist (Santa Rosa News-Herald, Cotati Call) 1975-77

Staff Attorney/Law Clerk, U.S. Dept. of Labor, OSHA Washington, D.C. 1979-81

Deputy City Attorney, City of Santa Monica 1981-1989
(Santa Monica Consumer Affairs Attorney 1985-89)

Deputy District Attorney, County of Sonoma December 1989-Current
(Supervisor, Environmental & Consumer Law Division)

Legislative Testimony

U.S. House of Representatives, Committee on Interior & Insular Affairs.
Oversight hearings on strip mining. 1979

California Senate, Business & Professions Committee
Investigative hearings on health club closures 1986

Los Angeles City Council, Public Health Committee
Investigative hearings on health club closures 1987

California Senate Energy and Public Utilities Committee
Hearings on "900" prefix telephone services 1990



5500 Shellmound Street, Emeryville, CA 94608-2411

Environmental and Geologic Services

FAX: 510-547-6043 Phone: 510-450-6000

TRANSMITTAL

DATE: 10/5/95 PROJECT #: 81-0429
 TO: JULIET SHIN PHONE: 567-6700
 COMPANY: ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH FAX: 337-9335
 FROM: TOM FOJUT
 SUBJECT: SHELL SERVICE STATION
 2160 OTIS DRIVE, ALAMEDA

VIA:	FAX:	AS:	FOR:
<input checked="" type="checkbox"/> Fax	# of pages: <u>1</u>	<input checked="" type="checkbox"/> Per our phone call	<input checked="" type="checkbox"/> Your information
<input type="checkbox"/> 1 st Class Mail	(including this cover)	<input type="checkbox"/> You requested	<input type="checkbox"/> Return to you
<input type="checkbox"/> Overnight Delivery	<input type="checkbox"/> Hard Copy to follow	<input type="checkbox"/> Is required	<input type="checkbox"/> Your action
<input type="checkbox"/> UPS (Surface)		<input type="checkbox"/> We believe you may be interested	<input type="checkbox"/> Your review & comments
<input type="checkbox"/> Courier			

Please call (510) 450-6000 if there are any problems with transmission.

COMMENTS:

Juliet:

As we discussed, Weiss Associates has searched Shell and WA records and requested file searches at Crosby & Overton and Erikson Engineering. No manifests for the waste oil tank that was removed in 1987 or for associated excavated soil were found.

Please call me if you need additional information for the closure review for this site.

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DOCUMENTS

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE 0 <u>M</u> 9 <u>M</u> 2 <u>D</u> 6 <u>D</u> 9 <u>Y</u> 5 <u>Y</u>		CASE # <i>Subst Shin</i> 9/29/95			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Joyce Adams		PHONE (510) 450-6000	SIGNATURE <i>Joyce Adams</i>	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Weiss Associates		
	ADDRESS 5500 <u>STREET</u> Shellmound Street <u>CITY</u> Emeryville <u>STATE</u> CA <u>ZIP</u> 94608				
RESPONSIBLE PARTY	NAME Shell Oil Products Company <input type="checkbox"/> UNKNOWN		CONTACT PERSON R. Jeff Granberry	PHONE (510) 675-6168	
	ADDRESS P.O. Box 4023 <u>STREET</u> <u>CITY</u> Concord <u>STATE</u> CA <u>ZIP</u> 94524				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Shell Station		OPERATOR Bob Hon	PHONE (510) 865-4380	
	ADDRESS 2160 <u>STREET</u> Otis Drive <u>CITY</u> Alameda <u>COUNTY</u> Alameda <u>ZIP</u> 94503				
	CROSS STREET Private Road				
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Dept. of Env. Health		CONTACT PERSON Juliet Shin	PHONE (510) 567-6700	
	REGIONAL BOARD San Francisco Bay Region		Kevin Graves	PHONE ()	
SUBSTANCES INVOLVED	(1) NAME Petroleum Hydrocarbons		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2)		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 <u>M</u> 6 <u>M</u> <u>D</u> <u>D</u> 8 <u>Y</u> 7 <u>Y</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN <u>M</u> <u>M</u> <u>D</u> <u>D</u> <u>Y</u> <u>Y</u> <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, DATE <u>M</u> <u>M</u> <u>D</u> <u>D</u> <u>Y</u> <u>Y</u>				
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CASE TYPE CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input checked="" type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	REMEDIAL ACTION CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT)				
COMMENTS	Based on six years of ground water monitoring, the Alameda County Dept. of Environmental Health is reviewing the case for closure. Weiss Associates is filing this Unauthorized Release Form at the request of the ACDEH. WA believes a form was filed upon release discovery, but this form could not be found.				



TRANSMITTAL

DATE: September 26, 1995
TO: Juliet Shin
COMPANY: Alameda County Department of Environmental Health
 1131 Harbor Bay Parkway Suite 250
 Alameda, CA 94502-6577
FROM: Joyce Adams, 510-450-6162
SUBJECT: 2160 Otis

PROJECT #: 81-0429-205
PHONE:
FAX:

95 SEP 28 PM 1:48
 ENVIRONMENTAL PROTECTION

VIA:	FAX:	AS:	FOR:
<input type="checkbox"/> Fax	# of pages: _____ (including this cover)	<input type="checkbox"/> Per our phone call	<input checked="" type="checkbox"/> Your information
<input checked="" type="checkbox"/> 1 st Class Mail	<input type="checkbox"/> Hard Copy to follow	<input checked="" type="checkbox"/> You requested	<input type="checkbox"/> Return to you
<input type="checkbox"/> Overnight Delivery		<input type="checkbox"/> Is required	<input type="checkbox"/> Your action
<input type="checkbox"/> UPS (Surface)		<input type="checkbox"/> We believe you may be interested	<input type="checkbox"/> Your review & comments
<input type="checkbox"/> Courier			

Please call (510) 450-6000 if there are any problems with transmission.

COMMENTS:

Ms. Shin,

Here is the Under Ground Storage Tank Unauthorized Release Form you requested. If you have any questions please call me or Tom Fojut.

Thank You,
Joyce

CC: Jeff Granberry, Shell Oil Products Company
Kevin Graves, Regional Water Quality Control Board

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March 27, 1995

Juliet Shin
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway Suite 250
Alameda, CA 94502-6577

ENVIRONMENTAL
PROTECTION
95 MAR 28 PM 1:26

Re: Shell Service Station
WIC #204-0072-0502
2160 Otis Drive
Alameda, California
WA Job #81-0429-41

Dear Ms. Shin:

This letter is to inform you on the status of the investigation at the above referenced Shell site. In your letter dated February 8, 1995, you stated that field work shall commence within 60 days from the date of your letter.

Due to scheduling conflicts with the drilling company, WA will not be able to start drilling until April 10, 1995, which is 61 days from the date of your letter. However, we will be conducting the first phase of field work, line locating, the week of April 3 through the 7, 1995, which is before the 60 day deadline. On April 10, 1995, WA will proceed with the investigation as stated in our workplan dated January 26, 1995.

WA also wanted to know the status of our follow up letter dated February 27, 1995, regarding the conditions that need to be met in order for case closure. If you could please call us with an update on our letter and if you have any questions regarding the drilling date at 510-450-6000, we would appreciate it.

*3/30/95 & police to Mr Adams
Stated County is in
conformance w/ Feb 27 letters
for work to begin on April 10
- JS*

Sincerely,
Weiss Associates

Joyce E. Adams
Senior Staff Geologist

JEA/JWC:ja

J:\SHELL\0429\CORRESP.95\03SHINJ1.DOC

Dan Kirk, Shell Oil Company, PO Box 4023, Concord, California 94524
Kevin Graves, Water Quality Control Board-San Francisco Bay Region, 2101 Webster
Street, Suite 500, Oakland, California 94612



Weiss Associates ENVIRONMENTAL
PROTECTION
5500 Shellmound Street, Emeryville, CA 94608-2411

Environmental and Geologic Services

Fax: 510-547-5043 Phone: 510-450-6000

95 MAR -3 PM 1:06

February 27, 1995

Juliet Shin
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577

Re: Shell Service Station
WIC #204-0072-0502
2160 Otis Drive
Alameda, California
WA Job #81-0429-41

Dear Ms. Shin:

On behalf of Shell Oil Company (Shell), Weiss Associates (WA) has received your letter dated February 8, 1995 regarding our proposed investigation at the above referenced Shell site. In your letter, you stated that our workplan was approved and case closure would be granted if two conditions were met.

WA and Shell agree with the first condition that if volatile organic compounds (VOC) concentrations in ground water from the upgradient temporary well are lower than the concentrations in ground water from well MW-2, then the VOCs are probably from an offsite source. However, we would like to clarify the second condition, which stated that VOC concentrations in ground water from the downgradient temporary well *must also be* noticeably greater than the concentrations in ground water from well MW-2 to satisfy the Alameda County Department of Environmental Health (ACDEH) that the VOCs are from an offsite source.

As WA Geologist Tom Fojut and you agreed on February 23, if VOC concentrations in ground water from the downgradient temporary well are higher *or similar to* VOC concentrations in ground water from well MW-2, then the VOCs are also likely from offsite. Also, during the proposed investigation, WA may discover that a sewer lateral near well MW-2 is a potential offsite VOC source. If this is the case, then the extent of VOCs may be very localized, and VOC concentrations in ground water from the downgradient temporary well may be lower than VOC concentrations in ground water from well MW-2, even though the VOCs are from offsite. In this case, WA and Shell agree that this also would be grounds for closure.

Ms. Juliet Shin
February 27, 1995

2



WA will proceed with the investigation. We trust that the ACDEH will recommend this site for closure if the conditions stated above are met. Please call us if you have any questions.

Sincerely,
Weiss Associates

A handwritten signature in cursive script that reads 'Joyce E. Adams'.

Joyce E. Adams
Senior Staff Geologist

A handwritten signature in cursive script that reads 'James W. Carmody'.

James W. Carmody, C.E.G.
Senior Project Hydrogeologist

JEA\JWC:ja

J:\SHELL\0429\CORRESP.95\02SHINJ1.DOC

Dan Kirk, Shell Oil Company, PO Box 4023, Concord, California 94524
Kevin Graves, Water Quality Control Board-San Francisco Bay Region, 2101 Webster
Street, Suite 500, Oakland, California 94612

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

February 8, 1995

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

ALAMEDA COUNTY CC 430-4510
DEPT. OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PKWY., RM.250
ALAMEDA, CAL. 94502-6577

STID 590

Re: Work plan for further investigations at Shell Service Station WIC #204-0072-0502, located at 2160 Otis Drive, Alameda, CA

Dear Mr. Kirk,

This office has reviewed Weiss Associate's (Weiss) work plan, dated January 26, 1995. This work plan is acceptable to this office. Per Weiss' proposal, the site will be considered for closure subsequent to the implementation of this work plan, only if both of the following conditions hold:

- o The concentrations of benzene and chlorinateds are Non Detect or substantially lower in the boring placed immediately upgradient of Well MW-2, than concentrations observed in Well MW-2.
- o The concentrations of benzene and chlorinateds in the proposed downgradient boring are noticeably greater than concentrations in Well MW-2, which would be indicative of a potential off-site source.

Field work shall commence within 60 days of the date of this letter. A report documenting field activities shall be submitted to this office within 45 days after completing field activities.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Juliet Shin'.

Juliet Shin
Senior Hazardous Materials Specialist

cc: Joyce E. Adams
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell


Weiss Associates
Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411

FAX: 510-547-6043 Phone: 510-450-6000

TRANSMITTAL

DATE:	December 14, 1994	PROJECT #:	81-0429-41
TO:	Juliet Shin	PHONE:	(510) 367-6700
COMPANY:	Alameda Co. Health Care Services 1131 Harbor Bay Parkway #250 Alameda, CA 94502	FAX:	(510) 337-9335
FROM:	Faith Daverin, (510) 450-6161		
SUBJECT:	Extension for 2160 Otis Drive, Alameda, CA STID 590		

VIA:	FAX:	AS:	FOR:
<input checked="" type="checkbox"/> Fax	# of pages: <u>1</u>	<input checked="" type="checkbox"/> Per our phone call	<input type="checkbox"/> Your information
<input type="checkbox"/> 1 st Class Mail	(including this cover)	<input type="checkbox"/> You requested	<input type="checkbox"/> Return to you
<input type="checkbox"/> Overnight Delivery	<input type="checkbox"/> Hard Copy to follow	<input type="checkbox"/> Is required	<input type="checkbox"/> Your review & comments
<input type="checkbox"/> UPS (Surface)		<input type="checkbox"/> We believe you may be interested	
<input type="checkbox"/> Courier			

Please call (510) 450-6000 if there are any problems with transmission.

COMMENTS:

Ms. Shin,

As discussed in our telephone conversation on Wednesday, December 14, Weiss Associates requested a 4-week extension to respond to your letter dated October 28, 1994. We will respond to your letter on or before January 31, 1995. Please give me a call if you have any questions.

Faith Daverin

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October 28, 1994

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
1700 Van Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

STID 590

Re: Required investigations at Shell Service Station WIC #204-0072-0502, located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has reviewed Weiss Associates' Closure Request for the site, dated August 25, 1994. Closure cannot currently be granted at the site due to the fact that ground water samples collected from the downgradient Well MW-2 have frequently identified levels of VOCs, such as PCE, trans-1,2-DCE, cis-1,2-DCE, and vinyl chloride, exceeding established MCL levels. Although the TDS for groundwater beneath the site exceeds 3,000 ppm, no Risk Assessment has been conducted to indicate whether these levels will pose a human or ecological health threat.

All the investigative site information made available to our office indicates that the VOC contamination may be resulting from on site. Well MW-2, which is located immediately downgradient of on-site activities, has consistently identified VOC concentrations, whereas both the upgradient wells, Wells MW-1 and S-1, have not. To date, there is insufficient evidence and investigations to confirm that the VOC concentrations are resulting from off-site.

If it cannot be shown that the VOC concentrations are from an off-site source, you will be required to fully characterize the extent of this VOC plume. Investigations must assess the possibility for migration along utility lines. Full characterization of contaminant plumes are also standardly required as a precedent to Non-Attainment Zones and/or Risk Assessments proposals.

Although the ground water gradient at the site has been shown to be flowing away from the Bay, there is some concern that the gradient flow directions may vary immediately off site and may eventually veer towards the Bay. This is based on the fact that other sites in the vicinity of your site have observed the ground water gradient to be flowing towards the Bay. If the VOC

Mr. Dan Kirk
Re: 2160 Otis
October 28, 1994
Page 2 of 2

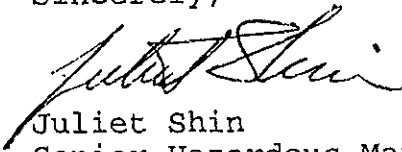
plume does make its way to the Bay, it may pose a threat to aquatic life. If a Risk Assessment is conducted, this potential threat will need to be assessed.

Lastly, it is uncertain whether Well MW-2 is screening adequately to identify representative levels of VOCs, based on the fact that VOCs are generally heavier and at lower screen intervals than TPHg and BTEX.

Based on the above concerns, this office is requesting that a work plan be submitted, **within 60 days** of the date of this letter, addressing the above issues. Please be reminded that quarterly ground water monitoring is currently required to continue at the site.

If you have any questions or comments, please contact me at (510) 567-6700.

Sincerely,



Juliet Shin
Senior Hazardous Materials Specialist

cc: David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

May 17, 1994

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

Re: Required investigations at Shell Service Station WIC #204-0072-0502, located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has received Weiss Associates' (Weiss) letter, dated May 6, 1994, which proposes a Risk Assessment in lieu of additional off-site investigations at the above site, that was required in a March 24, 1994 letter from the County. In response to Weiss' letter, I discussed the proposal with Kevin Graves, Regional Water Quality Control Board, and we determined that it was still necessary to conduct off-site investigations to further characterize the VOC ground water contaminant plume, identified in Well MW-2, and to determine whether it is coming from on site or off site. If the VOC plume is determined to be the result of on-site sources, you will be required to delineate the extent to which this plume has impacted both soil and ground water.

Borings or wells that are utilized for this investigation must be screened properly to account for the density of VOCs and, therefore, their tendency to sink. Currently, Well MW-2 is only screened from 4 feet to 17 feet below ground surface, and ground water samples collected from this well may not be representative of the actual VOC levels present in that location. Additionally, if "grab" ground water samples are collected for this investigation, one boring may be required adjacent to Well MW-2 as a calibration point, since contaminant concentrations may tend to be higher in the "grab" ground water samples collected due to greater amounts of particulates.

As part of the off-site investigations, it is advisable that you look into the possibility of utility lines acting as conduits for contaminant migration either on to the site or off site.

A work plan addressing further investigations is due to this office **within 45 days** of the date of this letter. If you have any questions or comments, please contact me at (510) 271-4530.

Mr. Dan Kirk
Re: 2160 Otis
May 18, 1994
Page 2 of 2

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File(JS)

May 17, 1994

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

Re: Required investigations at Shell Service Station WIC #204-0072-0502, located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has received Weiss Associates' (Weiss) letter, dated May 6, 1994, which proposes a Risk Assessment in lieu of additional off-site investigations at the above site, that was required in a March 24, 1994 letter from the County. In response to Weiss' letter, I discussed the proposal with Kevin Graves, Regional Water Quality Control Board, and we determined that it was still necessary to conduct off-site investigations to further characterize the VOC ground water contaminant plume, identified in Well MW-2, and to determine whether it is coming from on site or off site. If the VOC plume is determined to be the result of on-site sources, you will be required to delineate the extent to which this plume has impacted both soil and ground water.

Borings or wells that are utilized for this investigation must be screened properly to account for the density of VOCs and, therefore, their tendency to sink. Currently, Well MW-2 is only screened from 4 feet to 17 feet below ground surface, and ground water samples collected from this well may not be representative of the actual VOC levels present in that location. Additionally, if "grab" ground water samples are collected for this investigation, one boring may be required adjacent to Well MW-2 as a calibration point, since contaminant concentrations may tend to be higher in the "grab" ground water samples collected due to greater amounts of particulates.

As part of the off-site investigations, it is advisable that you look into the possibility of utility lines acting as conduits for contaminant migration either on to the site or off site.

A work plan addressing further investigations is due to this office **within 45 days** of the date of this letter. If you have any questions or comments, please contact me at (510) 271-4530.

Mr. Dan Kirk
Re: 2160 Otis
May 18, 1994
Page 2 of 2

Sincerely,

Juliet Shin
Hazardous Materials Specialist

cc: David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File(JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

March 24, 1994

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

Re: Investigations at Shell Service Station WIC #204-0072-0502,
located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has reviewed Weiss Associates' (Weiss) Quarterly Ground water Report, dated March 2, 1994, for the above site. In this report, Weiss proposes that sampling of Well MW-2 be switched from quarterly to biannual sampling. However, unacceptable levels of TPHg, benzene, and chlorinated hydrocarbons have consistently been detected from this well. Therefore, the quarterly sampling frequency must be maintained for Well MW-2.

Additionally, it is still not certain whether the ground water contamination being identified from Well MW-2 is resulting from on site or off site. In Weiss' February 24, 1993 Subsurface Investigation Report, it was suggested that the chlorinated hydrocarbons being detected in this well may be due to a small spill associated with the former site use. Due to the uncertainty of the source, it appears that off-site ground water investigations will be required to determine whether the observed contamination is an off-site source. The collection of "grab" ground water samples from hydropunches or borings will be acceptable in conducting these investigations. A work plan addressing further investigations is due to this office **within 45 days** of the date of this letter.

If the TPHg, benzene, and chlorinated hydrocarbon contamination is determined to be coming from on site, further investigations, possibly including the installation of additional wells, and remediation may be required. If it can be proven that this contamination is the result of an off-site source, then this office may possibly be able to grant closure for the underground storage tank investigations at the site.

Mr. Dan Kirk
Re: 2160 Otis Drive
March 24, 1994
Page 2 of 2

If you have any questions or comments, please contact me at (510)
271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File(JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

July 28, 1993

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

Re: Additional analysis requirements for Shell Service Station
WIC #204-0072-0502, located at 2160 Otis Drive, Alameda, CA

Dear Mr. Kirk,

This office has received and reviewed the Quarterly Ground water Monitoring Report, dated June 7, 1993, for the above site. Future ground water samples collected from monitoring well MW-2 should also be analyzed for Total Oil and Grease, which this office forgot to request in a March 4, 1993 letter to Shell.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiatt, RWQCB

Scott MacLeod
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File(JS)

Mark Out What Needs Changing and Hand to LOP Data Entry
(Name/Address changes go to Annual Programs Data Entry)

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
 StID : 590
 SITE NAME: Alameda Shell DATE REPORTED : 06/15/87
 ADDRESS : 2160 Otis Dr. DATE CONFIRMED: 06/15/87
 CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 4 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 03/27/92
 PRELIMINARY ASMNT: U DATE UNDERWAY: 03/19/90 DATE COMPLETED:
 REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
 REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
 POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 05/25/93
 LUFT FIELD MANUAL CONSID: 3HSCAWG
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED : 06/01/87 REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Dan Kirk
 COMPANY NAME: Shell Oil Company
 ADDRESS: P.o. Box 5278
 CITY/STATE: Concord, Ca 94520-9998

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only			Case Progress Changes	
ANPNPGMS _____	LOP _____	DATE _____	LOP _____	DATE _____

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

March 4, 1993

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

Re: Investigations at the Shell Service Station site, located
at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has received and reviewed Weiss Associates Subsurface Investigation report, dated February 24, 1993. You are required to continue quarterly monitoring for Well MW-2, analyzing the samples for TPHg, TPHg, BTEX, and HVOCs. It appears that sampling for Monitoring Wells S-1 and MW-1 can be switched to annual monitoring, due to the fact that no concentrations of TPHg or BTEX have been identified in the last two years of quarterly monitoring for these two wells. However, the annual analysis for samples collected from Well S-1 should include VOCs, since concentrations of VOCs were detected from this well in former sampling events.

Additionally, in the above cited report, it is suggested that the low HVOC concentrations detected in Well MW-2 may be due to a small spill associated with the former site use. This office would like you to submit any information you may have on the former uses of the site.


If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,


Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiatt, RWQCB

David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File (JS) 



Weiss Associates

Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-547-5420

FAX TRANSMITTAL

DATE: 2-16-93

TO: JULIET SMITH

FAX PHONE: 569-4757

COMPANY: ACDEH

BUSINESS PHONE: 271-4320

FROM: DAVID ELIAS

PROJECT #: 81-429-06

SUBJECT: SHELL

PAGES 1
(including this cover)

2160 OTIS

ALAMEDA

Hard Copy to follow
if checked

COMMENTS & ACTIONS REQUIRED:

THE INVESTIGATION REPORT FOR THE ABOVE REFERENCED SITE IS IN THE FINAL EDIT LOOP AND WILL BE COMPLETED BY THE END OF THE MONTH. WE REQUEST AN ADDITIONAL EXTENSION.

THANKS!

NOTE: Please call Paul at (510) 547-5420 if you do not receive all pages

MODE = TRANSMISSION

START=OCT-29 17:36

END=OCT-29 17:52

NO.	COM	ABBR/NTWK	STATION NAME/ TELEPHONE NO.	PAGES	PRG.NO.	PROGRAM NAME
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001	INC	#	5102935017	000		
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-ALCO HAZMAT

-

***** -

5105694757- *****



Weiss Associates

Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411

Fax: 510-547-5043 Phone: 510-547-5420

FAX TRANSMITTAL

DATE: 2-1-93

TO: JULIET SHIN

FAX PHONE: 569-4757

COMPANY: ACDEH

BUSINESS PHONE: 271-4320

FROM: DAVID ELIAS

PROJECT #: 81-429-06

SUBJECT: SMELL
2160 OTIS
ALAMEDA

PAGES 1
(including this cover)

Hard Copy to follow
if checked

COMMENTS & ACTIONS REQUIRED:

DUE TO UPCOMING INVESTIGATION WORK FOR
SUSAN HUGO I WOULD LIKE TO REQUEST
A 2 WEEK EXTENSION FOR THE
INVESTIGATION REPORT DUE ON
FEB. 1, 1993. PLEASE CALL ME
IF THERE IS A PROBLEM.

THANKS!

David Elias

NOTE: Please call Paul at (510) 547-5420 if you do not receive all pages

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

September 22, 1992

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

RE: The work plan for the Shell Service Station site, located
at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

This office has received the work plan, dated September 2, 1992, for the above site. The work plan proposes the use of a photo-ionization detector (PID) on the collected soil samples in place of analyzing them at a certified laboratory. However, use of the PID alone, without lab analysis of any of the soil samples, is unacceptable. You are required to analyze a **minimum of one soil sample** from each of the borings for BTEX, TPHg, and VOCs. Please be reminded that soil samples are to be collected from the borings at 5-foot depth intervals, at changes of lithology, and at the soil/water interface. In the case where the analysis of a single soil sample is appropriate in a particular boring, the sample analyzed shall be the one collected at the saturated/unsaturated zone interface.

Per the phone conversation between David Elias, Weiss Associates, and myself on September 21, 1992, all the grab ground water samples collected from the two borings will be analyzed at a certified laboratory for BTEX, TPHg, and VOCs.

Pursuant to **Section 2723, Article 11, Title 23 California Code of Regulations**, you are required to assess the nature and vertical and lateral extent of the soil and ground water contamination at the site. The proposed borings are acceptable as a screening tool, however, they cannot act as a substitute for the permanent monitoring wells required to further delineate and continually monitor the ground water contaminant plume at the site. **Within 45 days** of completing and sampling the two borings, you will be required to submit a work plan addressing the installation of additional monitoring wells.

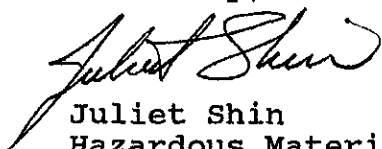
This is a formal request for technical reports pursuant to **California Water Code Section 13267 (b)**. Failure to respond or a late response could result in the referral of this case to RWQCB for enforcement, possibly subjecting the responsible party to

Dan Kirk
RE: 2160 Otis Drive
September 22, 1992
Page 2 of 2

civil penalties to a maximum of \$1,000 per day. Any extensions of the stated deadline, or modifications of the required tasks, must be confirmed in writing by this Department or RWQCB.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Richard Hiett, RWQCB

Robert La Grone, Alameda Fire Dept.

Mark Thompson, Alameda County District Attorney's Office

David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell-File (JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

August 7, 1992

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

STID 590

RE: Required investigations at the Shell Service Station site,
located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

The Department is in receipt of the July 23, 1992 Weiss Associates response to the June 17, 1992 request from this office for the submittal of a work plan addressing the delineation, containment, and remediation of ground water contamination at the site. Our review of Weiss Associate's response was performed in context with the August 1991 Tri-Regional Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, the SWRCB LUFT field manual, and Article 11 of Title 23, California Code of Regulations (CCR).

As articulated in the cited June 17, 1992 correspondence, ground water samples collected from Well MW-2, the site's only "downgradient" monitoring well from the former underground storage tank, have consistently identified elevated concentrations of Total Petroleum Hydrocarbons as gasoline (TPHg) as high as 190,000 ppb, and benzene as high as 55,000 ppb. However, ground water samples collected from both the upgradient wells have never exhibited concentrations of contaminants above detection limits, indicating that the observed ground water contamination from Well MW-2 is resulting from an on-site release. Additionally, ground water samples collected from Well MW-2 have also consistently contained traces of Volatile Organic Compounds, with some compounds, such as vinyl chloride, exceeding the drinking water standards set by the U.S. Environmental Protection Agency (EPA) and by CAL-EPA.

The Weiss Associates letter states that no additional investigations are warranted at the site because the highest contaminant concentrations of ground water, cited in the previous paragraph, were anomalies. However, this well has **consistently** exhibited **unacceptable** levels of TPH and benzene in the majority of the quarterly monitoring events to date. For example, benzene

Dan Kirk
Re: 2160 Otis Drive
August 7, 1992
Page 3 of 3

If you have any questions or comments, please contact Ms. Juliet
Shin at (510) 271-4530.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Richard Hiett, RWQCB

Robert La Grone, Alameda Fire Dept.

Mark Thompson, Alameda County District Attorney's Office

David Elias
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608-2411

Edgar Howell- File (JS)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, Assistant Agency Director

June 17, 1992

Mr. Dan Kirk
Shell Oil Company
P.O. Box 4023
Concord, CA 94524

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

STID 590

RE: Investigations at the currently active Shell Service Station,
located at 2160 Otis Drive, Alameda, California

Dear Mr. Kirk,

In June 1987, a 550-gallon waste oil tank was removed from the above site. Analysis of soil samples collected from the tank excavation following the tank removal indicated 1,700 parts per million (ppm) Total Oil and Grease (TOG) in a sample collected from the native soil beneath the tank. Ground water was also observed in the tank pit.

Since the tank pull, a total of three wells, S-1, MW-1, and MW-2, have been installed on site and monitored quarterly for over two years. Ground water samples collected from Well S-1, located within 10 feet of the former tank pit, and Well MW-1, an upgradient well, have never exhibited concentrations of contaminants above detection limits. However, ground water samples collected from Well MW-2, located downgradient of the former tank pit, has consistently identified elevated concentrations of Total Petroleum Hydrocarbons as gasoline and benzene as high as 190,000 ppb and 55,000 ppb. Additionally, groundwater samples collected from this well have also consistently contained traces of Volatile Organic Compounds, with some compounds, such as vinyl chloride, exceeding the drinking water standards set by the U.S. Environmental Protection Agency (EPA) and by CAL-EPA.

You are required to submit a work plan to this office within 45 days of the receipt of this letter addressing the delineation, containment, and remediation of the contaminant plume beneath the above site. Please include a timetable giving the schedule of work events. These proposals must adhere to the Regional Water Quality Control Board's (RWQCB) Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, the State Water Board's LUFT manual, and be consistent with the corrective action requirements set forth under Article 11, Section 2720 et seq., of Title 23, California Code of Regulations. Copies of all plans and proposals should be sent to this office for approval.

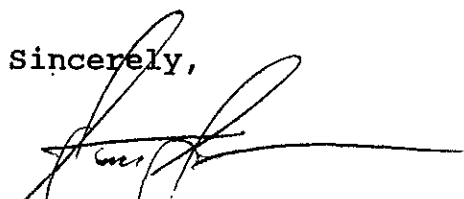
Please be aware that you must continue to prepare quarterly ground water monitoring reports and submit them to this office.

Dan Kirk
RE: 2160 Otis Drive
June 17, 1992
Page 2 of 2

Please be advised that this is a formal request for technical reports pursuant to **California Water Code Section 13267 (b)**. Any extensions of the stated deadlines or modifications of the required tasks must be confirmed in writing by either this agency or RWQCB.

If you have any questions or comments, please contact Ms. Juliet Shin at (510) 271-4320.

Sincerely,



Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Richard Hiett, RWQCB

Richard Quarante, Alameda Fire Dept.

David Elias
Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411

Ed Howell-File (JS)



92 JUN 12 11:21

TRANSMITTAL LETTER

FROM: DAVID ELIAS

DATE:

TO: JULIET SHIN
ALAMEDA COUNTY DEPT. OF ENV. HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY RM. 200
OAKLAND, CALIFORNIA 94621

VIA:

First Class Mail
Fax ___ pages
UPS (Surface)
Federal Express
Courier

JOB: 81-434-01

SUBJECT:

1601 WEBSTER AND 2160 OTIS
ALAMEDA.

AS: We discussed on the telephone on _____
 You requested _____
 We believe you may be interested
 Is required

WE ARE SENDING: Enclosed
 Under Separate Cover Via _____

WELL LOGS FOR THE S-1 WELLS
SURROUNDING BUSINESS MAP FOR 1601 WEBSTER.

FOR: Your information
 Your use
 Your review & comments
 Return to you

PLEASE: Keep this material
 Return within 2 weeks
 Acknowledge receipt

MESSAGE:

SEE ATTACHMENT



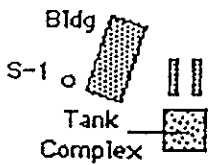
6-11-92

DEAR Ms. SWIN,

I WAS UNABLE TO LOCATE AN
UPGRADIENT SOURCE FOR 1601 WEBSTER
STREET. MARLETTE DID THE RESEARCH
A COUPLE OF YEARS AGO AND COULDN'T
FIND ANYTHING UPGRADIENT. ALSO, I
WAS UNABLE TO FIND ANY EVIDENCE
FOR BORINGS OR ABANDONED WELLS
ON THE SOUTH EASTERN CORNER OF 1601
WEBSTER STREET. BOTH THE S-1 WELLS
ARE SCREENED ABOVE THE WATER
TABLE. I HOPE THIS INFORMATION IS
HELPFUL.

SINCERELY

David M. Swin



OTIS ST.

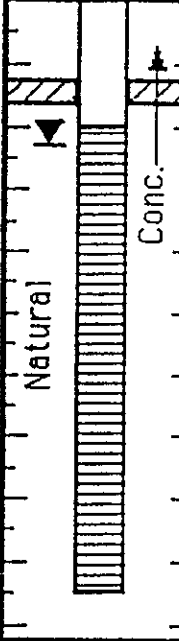
PROJECT NO. 100-85.01
 LOGGED BY: MD
 DRILLED BY: Bayland
 DRILLING METHOD: HS
 SAMPLING METHOD: Cal. Mod.
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020
 GRAVEL PACK: CA

CLIENT: G.R. SHELL
 DATE DRILLED: 9-4-87
 LOCATION: Otis St. Alameda
 HOLE DIAMETER: 8"
 HOLE DEPTH: 20-1/2'
 WELL DEPTH: 19'
 WELL DIAMETER: 3"

ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PENETRATION RESISTANCE (BLOW/FT)	DEPTH (feet)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY/REMARKS
			2			SP	Asphalt; silty sand-fill; faint product odor.
		P	4				SAND; brown; 5% silty fines; poorly graded; fine to medium grained; faint product odor.
			6				Color change in grab at approximately 5': gray-green; shell fragments.
		2	10			ML	SILT; greenish gray; 20% fine sand; low plasticity; very soft; no product odor.
		9	14			SM	SILTY SAND; greenish gray; 20-30% fines; fine grained; shell fragments; loose; faint product odor.
		57	20				@ 19' brown mottling in thin horizons; very dense, faint product odor.
			22				
			24				
			26				
			28				
			30				
			32				
			34				
			36				
			38				
			40				

Bottom of boring at 20-1/2'
Cave to 3-1/2'





92 MAR 24 11:29

TRANSMITTAL LETTER

FROM: Jeni Martin

DATE: March 23, 1992

TO: Juliet Shin
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621-1426

VIA: X First Class Mail
___ Fax ___ pages
___ UPS (Surface)
___ Federal Express
___ Courier

SUBJECT: Shell Service Station
WIC #204-0072-0502
2160 Otis Drive
Alameda, California

JOB: 81-429-01

AS: ___ We discussed on the telephone today
___ You requested _____
___ We believe you may be interested
 X Is required

WE ARE SENDING: X Enclosed
___ Under Separate Cover Via _____

- 1. Quarterly ground water monitoring report for the subject site

FOR: ___ Your information
 X Your use
___ Your review & comments
___ Return to you

PLEASE: X Keep this material
___ Return within 2 weeks
___ Acknowledge receipt

MESSAGE:

Please call if you have any questions.

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: April 16, 1992

shd 590

Service Station WIC Number: 204-0072-0502
Site Address (Number, Street): 2160 Otis Drive
City: Alameda 94501
County: Alameda

Actions in the past three months:

Collected 1st quarter ground water samples and prepared 1st quarter monitoring report.

Actions planned for next three months:

Continue quarterly ground water monitoring.
Submit 2nd quarter monitoring report.

Soil Contamination defined? Y\N N
Soil Clean-up in progress? Y\N N
Free-product plume defined? Y\N NA
Free-product cleanup in progress? Y\N NA
Dissolved constituent plume defined? Y\N N
Dissolved constituent cleanup in progress? Y\N N

Contractor: Weiss Associates, Emeryville, California

SHELL OIL CORPORATION
QUARTERLY REPORT TO
THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: December 22, 1989

Service Station WIC Number:	<u>204-0072-0502</u>
Site Address (Number, Street):	<u>2160 Otis Drive</u>
City:	<u>Alameda</u>
County:	<u>Alameda</u>

Actions in the past three months:

Sampled existing well on site. Prepared closure report.

Met with Ariu Levy, Alameda County Health Department on 12-14-89, to discuss closure.

Actions planned for next three months:

Investigate tidal influence on ground water. Submit workplan and/or other documents to Alameda County Health Department.

Soil Contamination defined? Y\N	<u>N</u>
Soil Clean-up in progress? Y\N	<u>NA</u>
Free-product plume defined? Y\N	<u>NA</u>
Free-product cleanup in progress? Y\N	<u>NA</u>
Dissolved constituent plume defined? Y\N	<u>NA</u>
Dissolved constituent cleanup in progress? Y\N	<u>NA</u>

Contractor: Weiss Associates, Oakland, California

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: December 176, 1990

Service Station WIC Number:	<u>20400720502</u>
Site Address (Number, Street):	<u>2160 Otis Drive</u>
City:	<u>Alameda</u> 9'
County:	<u>Alameda</u>

Actions in the past three months:

Collected 4th quarter ground water samples and prepare quarterly status report.

Actions planned for next three months:

Collect 1st quarter ground water samples and prepare quarterly status report. Prepare workplan for soil remediation in the vicinity of former waste oil tank.

Soil Contamination defined? Y\N	<u>N</u>
Soil Clean-up in progress? Y\N	<u>N</u>
Free-product plume defined? Y\N	<u>NA</u>
Free-product cleanup in progress? Y\N	<u>NA</u>
Dissolved constituent plume defined? Y\N	<u>N</u>
Dissolved constituent cleanup in progress? Y\N	<u>N</u>

Contractor: Weiss Associates, Emeryville, California

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: September 17, 1990

Service Station WIC Number:	<u>20400720403</u>
Site Address (Number, Street):	<u>1601 Webster Street</u>
City:	<u>Alameda</u>
County:	<u>Alameda</u>

Actions in the past three months:

Collected 3rd quarter ground water samples. Submitted quarterly status report. Prepared and submitted subsurface investigation report.

Actions planned for next three months:

Collect 4th quarter ground water samples and prepare quarterly status report. Investigate neighboring properties for potential sources of contaminants.

Soil Contamination defined? Y\N	<u> N </u>
Soil Clean-up in progress? Y\N	<u> N </u>
Free-product plume defined? Y\N	<u> NA </u>
Free-product cleanup in progress? Y\N	<u> NA </u>
Dissolved constituent plume defined? Y\N	<u> N </u>
Dissolved constituent cleanup in progress? Y\N	<u> N </u>

Contractor: Weiss Associates, Emeryville, California.



TRANSMITTAL LETTER

FROM: Karen C. Sixt

DATE: August 20, 1990

TO: Mr. Ariu Levi
Alameda County Department of
Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

VIA: First Class Mail
 Fax _____ pages
 UPS (Surface)
 Federal Express
 Courier

SUBJECT: SHELL SERVICE STATIONS JOB: 81-425-01
3750 E. 14TH ST., OAKLAND 81-429-01
2160 OTIS DR., ALAMEDA, AND 1601 Webster St., Alameda 81-434-01

AS: We discussed on the telephone on _____
 You requested _____
 We believe you may be interested
 Is required

WE ARE SENDING: Enclosed
 Under Separate Cover Via _____

Deposit/refund checks for review of reports pertaining to the subject Shell Service Stations.

FOR: Your information PLEASE: Keep this material
 Your use Return within 2 weeks
 Your review & comments Acknowledge receipt
 Return to you

MESSAGE: Please have your office send us receipts for the checks. Thank you.

- Enc.: (1) Check No. 6917 Co. of Alameda, dated August 16, 1990/\$375.00
Weiss Associates #81-429-01
(2) Check No. 6918 Co. of Alameda, dated August 16, 1990/\$375.00
Weiss Associates #81-434-01
(3) Check No. 6919 Co. of Alameda, dated August 16, 1990/\$375.00
Weiss Associates #81-425-01

Shell Oil Company



EAST BAY
MARKETING DISTRICT

P O. Box 4023
Concord, CA 94524
(415) 676-1414

November 6, 1989

Mr. Ariu Levi
Alameda Co. Dept. of Env. Health
80 Swan Way, Room 200
Oakland, CA 94621

SUBJECT: 2160 OTIS DRIVE
ALAMEDA, CA

Dear Mr. Levi:

As we discussed at our October 31 meeting, enclosed are copies of manifests documenting hazardous waste disposal from the waste oil tank replacement at the subject site.

If you have any questions, please contact me at (415) 676-1414, Ext. 127.

Very truly yours,

A handwritten signature in black ink that reads "Diane M. Lundquist". The signature is written in a cursive style with a large, sweeping flourish at the end.

Diane M. Lundquist
District Environmental Engineer

Enclosure

JM931003

State of California—Health and Welfare Agency
 Approved OMB No 2050-0039 (Expires 9-
 Please print or type. (Form designed for use on a

WIC/LDC NO: 204-0072-0502-EB
 ACCOUNT NO.: AFE#686

NEWSOME
 /3982

Department of Health Services
 Toxic Substances Control Division
 Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No
 C A D 9 8 1 4 0 3 1 8 1 1 0 0 7 7

Manifest Document No

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
 SHELL OIL COMPANY, PO BOX 6249
 CARSON, CA 90749
 4. Generator's Phone (213) 816-2037

GENERATING SITE 37
 SHELL STATION 777
 2160 OTIS DRIVE/PRIVATE
 ALAMEDA, CA 94503

A. State Manifest Document Number
 87038782
 B. State Generator's ID No
 98140318110077

5. Transporter 1 Company Name
 CROSBY & OVERTON EMI
 6. US EPA ID Number
 C A D 9 8 1 4 6 1 0 6 4

C. State Transporter's ID No
 981461064
 D. Transporter's Phone
 415/633-0336

7. Transporter 2 Company Name
 8. US EPA ID Number
 9. Designated Facility Name and Site Address
 CHEMICAL WASTE MANAGEMENT, INC
 35251 OLD SKYLINE RD
 KEYTLEMAN CITY, CA 93239

10. US EPA ID Number
 C A T 0 0 0 6 4 6 1 1 7

G. State Facility's ID
 CAT 000646117
 H. Facility's Phone
 800/222-2964

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers No. Type
 13. Total Quantity
 14. Unit (Lb/Vol)
 15. Waste No.

a.	b.	c.	d.
Hazardous waste, solid, n.o.s., ORM-E, NA9189	01011 D 1E	01011/12	Y

State	EPA/Other
611	D008

J. Additional Descriptions for Materials Listed Above
 SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 100%
 of Weight and Volume

K. Handling Codes for Wastes Listed Above
 a. 03
 b.
 c.
 d.

15. Special Handling Instructions and Additional Information
 AVOID CONTACT WITH EYES AND SKIN.
 CWM PROFILE SHEET #SFO-F65696-050

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: R G Newsome
 Signature: [Signature]
 Month Day Year: 10/15/87

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: TONY HILDE
 Signature: [Signature]
 Month Day Year: 10/15/87

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name:
 Signature:
 Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.
 Printed/Typed Name: BOB HULST
 Signature: [Signature]
 Month Day Year: 10/15/87

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-852-7550

GENERATOR

TRANSPORTER

FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. Manifest Document No. 2. Page 1 of 1
 C A D 9 8 1 4 0 3 1 8 1 1
 information in the shaded area is not required by Federal law

3. Generator's Name and Mailing Address SHELL OIL COMPANY, PO BOX 6249 CARSON, CA 90749		Generator's US EPA ID No. CAD9814031811		A. State Manifest Document Number 87038305	
4. Generator's Phone (213) 816-2037		Mailing Address 2160 OPLS DRIVE/PRIVATE ALAMEDA, CA 94503		B. State Generator's ID. TAX ID NO. HEALTH 15-19-11-177	
5. Transporter 1 Company Name CROSBY & OVERTON EMI		US EPA ID Number CAD981461064		C. State Transporter's ID 15/03-0336	
7. Transporter 2 Company Name		US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address CHEMICAL WASTE MANAGEMENT, INC 35251 OLD SKYLINE RD KETTLEMAN CITY, CA 93239		US EPA ID Number CAT000646117		G. State Facility's ID 0000646117	
				H. Facility's Phone 800/222-2964	

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	No.	Type			
a. Hazardous waste, solid, n.o.s., ORM-E, NA9189	0,0,1	DR	990.15	Y	State 611 EPA/Other D008
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 1008

K. Handling Codes for Wastes Listed Above
 a. 03

15. Special Handling Instructions and Additional Information
**AVOID CONTACT WITH EYES AND SKIN.
 OWM PROFILE SHEET #SFO-P65696-050**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations
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Printed/Typed Name: **R.G. Newsome** Signature: *R.G. Newsome* Month Day Year: **12/15/87**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **FRED ISH JR. - JON FRASER** Signature: *Fred Ish Jr* Month Day Year: **07/15/87**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: Signature: Month Day Year:

19. Discrepancy Indication Space
11.) Improper DOT

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name: **Danny G. Domingo** Signature: *Danny G. Domingo* Month Day Year: **12/16/87**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8902; WITHIN CALIFORNIA CALL 1-800-852-7850

87038305

GENERATOR TRANSPORTER FACILITY

State of California—Health and Welfare Agency
Approved OMB No. 2050-0039 (Expires 12/31/92)
65699 print or type. (Form designed for use on 11x14 pitch typewriter)

WIC/LOC. NO. 204-0072-0502-EB
ACCOUNT NO.: AFE#68
4/3982

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAD981403181L0077**
Manifest Document No. **204-0072-0502-EB**

2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
**SHELL OIL COMPANY, PO BOX 6249 SHELL STATION BA777
CARSON, CA 90749 2160 OTIS DRIVE/PRIVATE
ALAMEDA, CA 94503**

A. State Manifest Document Number
87038825

4. Generator's Phone (213) **816-2037**

B. State Generator's ID (EPA ID NO.)
CA 981403181L0077

5. Transporter 1 Company Name
CROSBY & OVERTON EMI

C. State Transporter's ID
201334

6. US EPA ID Number
CAD98146106

D. Transporter's Phone
415/833-0336

7. Transporter 2 Company Name

E. State Transporter's ID

8. Designated Facility Name and Site Address
**CHEMICAL WASTE MANAGEMENT, INC
35251 OLD SKYLINE RD
KEPPELMEAN CITY, CA 93239**

F. Transporter's Phone
800/222-2964

9. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
Hazardous waste, solid, n.o.s., CRM-2, NA9139

10. US EPA ID Number
CA 000546117

12. Containers No. Type
0,0,1 D E COOLING Y

13. Total Quantity
1.4 Y

14. Unit Wt/Vol
Y

15. Waste No.
**State 511
EPA/Other D008**

11. Additional Descriptions for Materials Listed Above
SOIL CONTAMINATED WITH WASTE OIL/ASSOCIATED DEBRIS 100%

16. Handling Codes for Wastes Listed Above
03

15. Special Handling Instructions and Additional Information
**AVOID CONTACT WITH EYES AND SKIN.
CRM PROFILE SHEET #SPO-F65696-050**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **R G Newsome** Signature *R G Newsome* Month Day Year **06/15/87**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name **Don Olsen** Signature *Don Olsen* Month Day Year **10/6/87**

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name _____ Signature _____ Month Day Year _____

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification at receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name **Bob Hulet** Signature *Bob Hulet* Month Day Year **06/15/87**

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802, WITHIN CALIFORNIA CALL 1-800-862-7550

OCTOBER 31, 1989

2160 Otis Avenue
Alameda, California

Brief History

- Steel 550 gallon waste oil tank was removed and replaced in June 1987.
- Soil samples indicated TOG at 1700 ppm.
- One well installed in September 1987. Soil samples ranged from 70 ppm to 1600 ppm TOG. Water samples were ND for BTEX. 1 had 270 ppb acetone.
- Weiss Associates contracted to determine further action.

Work Completed Past 90 Days

- Review of data. ✓
- Report submitted 7-13-89.
- Sampling of existing onsite well. *PC-2 IN 3*

Summary of Site Status

- Closure report in preparation.

Handwritten notes:
 1. Review of data - completed
 2. Report submitted 7-13-89
 3. Sampling of existing onsite well - completed
 4. Weiss Associates - contracted to determine further action
 5. Steel 550 gallon waste oil tank was removed and replaced in June 1987
 6. Soil samples indicated TOG at 1700 ppm
 7. One well installed in September 1987. Soil samples ranged from 70 ppm to 1600 ppm TOG. Water samples were ND for BTEX. 1 had 270 ppb acetone.



October 17, 1989

Mr. Lawrence Seto
Alameda County Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

Re: Shell Oil Service Station
Waste Oil Tank Closures

Dear Mr. Seto:

Enclosed are our consultants' reports documenting waste oil tank closures at the following Shell Oil Company service stations:

1784 150th Street, San Leandro, CA

1285 Bancroft Avenue, San Leandro, CA

2160 Otis Drive, Alameda, CA

1601 Webster Street, Alameda, CA

The reports present previous and current data, the site background and history, site and regional hydrogeologic conditions, and other tank closure activities for waste oil tanks removed from the sites since 1986.

Based on the analytic results, conditions of the removed tanks and tank excavations, the site and regional hydrogeologic conditions and tank closure guidelines existing at the time of removal, Shell Oil requests approval for formal closure of the former excavations.

If you have any questions or would like to meet to discuss these sites, please call me at (714) 520-3713.

Sincerely Yours,

A handwritten signature in cursive script that reads "Wendy Howell".

Wendy Howell
Consultant, Environmental

WH/wa
cc (w/ Attachments):

Mr. Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region, 1111 Jackson Street, Oakland, California 94607

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
01/01/92 THROUGH 03/31/92

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
StID : 590
SITE NAME: Alameda Shell DATE REPORTED : 06/15/87
ADDRESS : 2160 Otis Dr. DATE CONFIRMED: 06/15/87
CITY/ZIP : Alameda 94501 MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: G	CONTRACT STATUS: 3	EMERGENCY RESP:
RP SEARCH: S		DATE COMPLETED:
PRELIMINARY ASMNT: U	DATE UNDERWAY: 03/19/90	DATE COMPLETED:
REM INVESTIGATION:	DATE UNDERWAY:	DATE COMPLETED:
REMEDIAL ACTION:	DATE UNDERWAY:	DATE COMPLETED:
POST REMED ACT MON:	DATE UNDERWAY:	DATE COMPLETED:

ENFORCEMENT ACTION TYPE:	DATE ENFORCEMENT ACTION TAKEN:
LUFT FIELD MANUAL CONSID: 2,3HSCAWG	
CASE CLOSED:	DATE CASE CLOSED:
DATE EXCAVATION STARTED :	REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME:
COMPANY NAME: Harsh Investment Corp
ADDRESS: P O Box 2708
CITY/STATE: Portland, Or 97208

RP#2-CONTACT NAME: Kurt Miller
COMPANY NAME: Shell Oil Co.
ADDRESS: P O Box 5278
CITY/STATE: Concord, C A 94520-9998

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Eligible Oversight Case

Site name: Shell Service Station

Address: 2160 Otis Dr. city Alameda zip 94501

Closure plan attached? Y N DepRef remaining \$ _____

DepRef Project # 2013 STID #(if any) 590

Number of Tanks: 1 removed? Y N Date of removal June 1987

Leak Report filed? Y N ^{N/A in file} Date of Discovery June 1987

Samples received? Y N Contamination: soil, water

Petroleum Y N Types: Avgas Jet leaded unleaded Diesel
fuel, oil waste oil kerosene solvents

Monitoring wells on site 3 Monitoring schedule? Y N

Briefly describe the following:

Preliminary Assessment _____

Remedial Action _____

Post Remedial Action Monitoring _____

Enforcement Action _____

Comments:

Initial study
GW contained 200 ppb TPH-G
200 ppb TPH-D
2.7 ppb benzene

Soil contained 1,700 ppm TOG

ON 10/9/91 Benzene at 22 ppb

Need to continue & by monitoring