

Ro - 393

Chu, Eva, Env. Health

From: Chu, Eva, Env. Health
Sent: Friday, April 12, 2002 9:35 AM
To: 'Supple, Paul'
Cc: 'Scheele, Ron'
Subject: Arco 6113 at 785 E Stanley, Livermore

Hi Paul:

I just completed review of Cambria's Quarterly Groundwater Monitoring Report, 1st Quarter 2002. Newly installed well MW-13 contained 15,000ppb TPHg, as well as 5,200ppb MtBE. Vapor well VW-1 also contained elevated TPH/MtBE concentrations.

At this time, please continue with quarterly monitoring/sampling of wells MW-13 and VW-1. The remaining wells can be on an annual or semi-annual sampling frequency as stated in Cambria's report. For the next sampling event, please include analysis for ethanol, ether oxygenates, EDB, and 1,2,-DCA.

If you have any questions, please call or email.

11/01/02. Rev QMR for event of April 26, 2002 - checked
w/amy box + oxy's ^{& lead scw.} not analyzed using 82600 -
Need to send msg.

Chu, Eva, Env. Health

From: Ron Scheele[SMTP:rscheele@cambria-env.com]
Sent: February 27, 2002 3:39 PM
To: Chu, Eva, Env. Health
Cc: SUPPLPV@bp.com
Subject: Re: Arco 6113, 785 E Stanley, Livermore, CA

eva,

The site has already been sampled during the first quarter on January 21, 2002. VW-1 was sampled, VW-2 was not sampled (could not access - well box damaged), and VW-4 was dry. Other wells sampled include MW-6, MW-7, and MW-13. The remaining wells are sampled annually, typically during the fourth quarter.

First Qtr. 2002 lab results shown below:

Well	TPHg (ug/L)	Benzene(ug/L)	MtBE(ug/L)
VW-1	6,700	810	2,600
MW-6	<50	<0.50	<5.0
MW-7	<50	<0.50	15
MW-13	15,000	160	4,900

I can be reached at 510 450-1983.

Ron

the At 02:30 PM 2/27/2002 -0800, you wrote:

>Hi Ron,

>

>When you sample the new well MW-13 in the 1st quarter 2002, please sample

>groundwater from the vapor wells also. Please email this to Paul Supple. I

>don't have his address. Thanks,

>

>eva

>evachu

>

>Alameda County Environmental Health

>1131 Harbor Bay Parkway

>Alameda, CA 94502

>(510) 567-6762

>(510) 337-9335 fax

>

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

RO0000393

June 19, 2001

Mr. Paul Supple
ARCO
P.O. Box 6549
Moraga, CA 94570

**RE: Work Plan Approval for ARCO Service Station No. 6113, 785 East Stanley Blvd.,
Livermore, CA**

Dear Mr. Supple:

I have completed review of Cambria's June 2001 *Well Replacement Work Plan* prepared for the above referenced site. The proposal to install one replacement groundwater monitoring well is acceptable. Field work should commence within 60 days of the date of this letter, or by **August 20, 2001**. Please provide 72 hours advance notice of field activities.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Ron Scheele

extension to Sep 30, 2001 granted.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



06-20-01

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

RO0000393

June 19, 2001

Mr. Paul Supple
ARCO
P.O. Box 6549
Moraga, CA 94570

**RE: Work Plan Approval for ARCO Service Station No. 6113, 785 East Stanley Blvd.,
Livermore, CA**

Dear Mr. Supple:

I have completed review of Cambria's June 2001 *Well Replacement Work Plan* prepared for the above referenced site. The proposal to install one replacement groundwater monitoring well is acceptable. Field work should commence within 60 days of the date of this letter, or by **August 20, 2001**. Please provide 72 hours advance notice of field activities.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

email: Ron Scheele

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



04-04-01

20393

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

StID 3883

April 3, 2001

Mr. Paul Supple
ARCO
P.O. Box 6549
Moraga, CA 94570

**RE: Monitoring Well Replacement for ARCO Station 6113 at 785 E. Stanley Blvd.,
Livermore, CA**

Dear Mr. Supple:

I have completed review of Cambria's March 19, 2001 *Underground Storage Tank, Piping Removal, and Well Abandonment Report* prepared for the above referenced site. Three USTs were removed in January 2001 and replaced with two new USTs. Soil samples collected from the tank excavation contained elevated concentrations of TPHg, BTEX and MTBE. During the replacement activities, wells MW-5 and VW-3 were abandoned. Both wells were drilled out and grouted.

At this time a replacement well should be installed north-northwest of the tank complex. It is recommended that this well be screened from approximately 15 to 30 feet bgs. A workplan for the installation of a replacement is due within 60 days of the date of this letter, or by **June 5, 2001**.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Ron Scheele, Cambria, 1144 65th Street, Suite B, Oakland, CA 94608

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

StID 3883 / *Re 393*

April 3, 2001

Mr. Paul Supple
ARCO
P.O. Box 6549
Moraga, CA 94570

**RE: Monitoring Well Replacement for ARCO Station 6113 at 785 E. Stanley Blvd.,
Livermore, CA**

Dear Mr. Supple:

I have completed review of Cambria's March 19, 2001 *Underground Storage Tank, Piping Removal, and Well Abandonment Report* prepared for the above referenced site. Three USTs were removed in January 2001 and replaced with two new USTs. Soil samples collected from the tank excavation contained elevated concentrations of TPHg, BTEX and MTBE. During the replacement activities, wells MW-5 and VW-3 were abandoned. Both wells were drilled out and grouted.

At this time a replacement well should be installed north-northwest of the tank complex. It is recommended that this well be screened from approximately 15 to 30 feet bgs. A workplan for the installation of a replacement is due within 60 days of the date of this letter, or by **June 5, 2001**.

If you have any questions, I can be reached at (510) 567-6762.

eva chu
Hazardous Materials Specialist

c: Ron Scheele, Cambria, 1144 65th Street, Suite B, Oakland, CA 94608

LOP - RECORD CHANGE REQUEST FORM

printed:
04/20/2000

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

Insp: TP

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
 StID : 3883 LOC:
 SITE NAME: Arco #6113 DATE REPORTED : 01/26/1989
 ADDRESS : 785 E Stanley Blvd DATE CONFIRMED: 01/26/1989
 CITY/ZIP : Livermore 94550 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 4 PRIOR CODE:2B4 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 04/08/1992
 PRELIMINARY ASMNT: DATE UNDERWAY: 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: 6 DATE ENFORCEMENT ACTION TAKEN: 04/08/1992
 LUFT FIELD MANUAL CONSID: 3HSCAWG
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED : 01/26/1989 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Paul Supple
 COMPANY NAME: Arco Products Company
 ADDRESS: P. O. Box 6549
 CITY/STATE: Moraga, C A 94549

INSPECTOR VERIFICATION:					
NAME	SIGNATURE			DATE	
DATA ENTRY INPUT:					
Name/Address Changes Only			Case Progress Changes		
ANPPGMS	LOP	DATE	LOP	DATE	

Listing of HAZMAT - FULL SITE HISTORY since 1987 for StID # 3883
as of 04/20/2000 all Activity Codes

SITE NAME & ADDRESS:

Arco Station #06113 -- 785 E Stanley Blvd , Livermore CA 94550

InspDat Insp Act InspT StID Proj# COMMENTS DailBDat
=====

Archived Dailies:

InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
09/21/1988	GW	75	0.5 3883	291A	Plan Review	*****
01/26/1989	GW	75	3. 3883	291A	tank pulled	*****
02/21/1989	GW	75	1.5 3883	291A	REVIEW ANALYTICAL DATA AND LETTER	*****
04/05/1989	GW	75	1. 3883	291A	Second letter	*****
05/03/1989	GW	75	1.9 3883	291A	Phone consultation/letter	*****
06/15/1989	GW	75	0.3 3883	291A	phone consultation	*****
07/26/1989	GW	75	0.5 3883	291A	review work plan	*****
02/07/1990	GW	75	1.3 3883	291A	review plan	*****
09/20/1990	GW	75	0.3 3883	291A	review report	*****
09/21/1990	GW	75	1.1 3883	291A	Letter	*****
11/15/1990	GW	75	1.3 3883	291A	Review report/letter	*****
01/11/1991	GW	75	0.75 3883	291a	review report	*****
03/08/1991	GW	75	0.5 3883	291a	review quarterly report	*****
04/18/1991	GW	75	0.75 3883	291a	review well installation report	*****
05/16/1991	GW	75	0.5 3883	291a	review quarterly report	*****
11/22/1991	GW	75	2. 3883	291A	review work plan	*****
01/02/1992	SH	75	1. 3883	291A	785 E. Stanley Blvd., Livermore 94550 ARCO	-0-
01/03/1992	SH	77	1. 3883	291A	785 E. Stanley Blvd. Livermore 94550 ARCO	-0-
01/08/1992	JNS	75	0.5 3883	291A	review monitoring plan	*****
01/08/1992	SH	75	1. 3883	291A	785 E. Stanley Blvd. Livermore 94550 ARCO review 3rd QR & VET approval of workplan	-0-
01/09/1992	SH	74	0.5 3883	291A	785 E. Stanley Blvd. Livermore 94550 ARCO draft letter.	-0-
01/10/1992	SH	74	1. 3883	291A	785 E. Stanley Blvd. Livermore 94550 ARCO letter out.	-0-
01/10/1992	JNS	75	0.5 3883	291A	letter	*****
04/08/1992	EC	200	0.8 3883	-0-	transfer to LOP and notification letter	-0-
04/08/1992	MT	410	3. 3883	-0-	-0-	-0-
05/11/1992	SH	212	0.3 3883	-0-	phone with consultant re: amended workplan	-0-
05/11/1992	SH	215	1. 3883	-0-	review amended workplan	-0-
05/15/1992	TP	206	0.5 3883	-0-	w/Scott, Susan	-0-
05/15/1992	SH	215	0.5 3883	-0-	review case	-0-
05/18/1992	SH	206	1. 3883	-0-	-0-	-0-
11/09/1992	JS	41	1. 3883	291A	Installtion review-Arco E. stanley-not completed	*****
11/09/1992	JNS	42	1. 3883	291a	tank installation /modification	*****
11/30/1992	JNS	42	5. 3883	291a	Plan review: tank installation /modification/remd or mt	*****
11/30/1992	AG	45	5. 3883	291A	UST plan Review Etc. on ARCO(# 6113) 785 E.Stanley Blvd, Livermore (Jeff on Vacation)	*****
01/13/1993	JNS	41	2. 3883	291A	785 E. Stanley-Arco primary pipeline test	*****

01/21/1993	JNS	41	3.5	3883	291A	secondary pipeline test, two leaks detected. 785 E. Stanley, lvmr	*****
01/25/1993	JNS	41	0.5	3883	291A	sump test. 785 E. Stanley, lvmr	*****
03/10/1993	JNS	41	1.	3883	291A	-0-	*****
03/18/1993	JNS	41	0.5	3883	291A	785 E. stanley, livermore. close file.	*****
03/18/1993	JNS	41	1.5	3883	291A	review lab results /letter	*****
03/24/1993	JNS	12	0.5	3883	-0-	complaint from LFD	-0-
02/16/1994	JNS	130	0.5	3883	-0-	-0-	-0-
07/19/1994	JNS	35	0.5	3883	-0-	-0-	-0-

Current Dailies:

InspDat	Insp	Act	InspT	StID	DRPro	Comment	DailBDat
-----	-----	-----	-----	-----	-----	-----	-----
04/14/1995	RW	35	0.25	3883		review of annual inventory variation report	
09/11/1995	RW	132	0.75	3883		report of gasoline filter rupture	
03/06/1996	RW	35	0.25	3883		sir annual summary report	
03/26/1996	RW	137	0.5	3883		called Arco re: test of one tank	
04/15/1996	RW	137	0.25	3883			
02/03/1997	RW	31	2.5	3883	2919	paperwork issues mainly. Interesting site w/ one single wall tank and two double wall tanks. Line leak detector has turbine shutdown programed in to monitor.	
03/04/1997	RW	35	0.25	3883	2910	annual SIR report for single wall midgrade ust	
12/02/1997	TP	200	0.1	3883	2913	update contact	
06/10/1999	SH	200	0.5	3883	291A	Reviewed QMR	

Complete

Pacific Env. Group - Robert Wenzlau 408-984-6536

- ① Because of structural damage certified, will waive requirement to remove contaminated soil from north wall of pit
 - ② Arco must install 3 monitoring wells ^{within 10 ft. of tanks} (unless down-gradient direction can be proved) ~~maximum depth 45 ft.~~
will waive requirement if can prove to my satisfaction that:
 - a. Seasonal High GW depth is below 50 ft.
- AND**
- b. the vadose zone contains a locally continuous clay layer ~~of~~ with a thickness of at least five feet

- ③ Why did report to Larry Lato?
- ④ Who is in charge of project for ARCO
- ⑤ need all signed copies of all manifests documenting disposal of soil + UST

Ryle Christie ARCO P.O. Box 5811

San Mateo 94403

Printed: 04/22/97

***** Alameda County Department of Environmental Health *****
BILLING's Total Deposit/Refund History for All Accounts at Site

** SITE INFORMATION **

Site#: 291 -- StID: 3883 Arco Station #6113
Date Open: 09/01/88 785 E. Stanley Blvd.
Date Closed: Livermore CA 94550

** PAYOR INFORMATION **

> Project # ---291A for Payor # 359 RESNA
3315 Almaden Expwy #34
San Jose CA 95118

> Project # ---291D for Payor # 685 ATLANTIC RICHFIELD CO
P.O. BOX 2570
LOS ANGELES CA 90051

** DEPOSIT HISTORY **

Proj#	Deposit Date	Receipt#	Amount Received
-----	-----	-----	-----
---291A	09/01/88	524591	\$ 300.00
---291A	07/28/89	552833	\$ 500.00
---291A	12/18/90	577171	\$ 400.00
			=====
			\$ 1,200.00
---291D	11/20/92	668856	\$ 570.00
			=====
			\$ 570.00

** WORKLOG HISTORY **

Proj#	Work Date	Activity Description	Insp	Time (hrs)	Amt Charged
-----	-----	-----	-----	-----	-----
---291A	09/21/88	PLAN REVIEW .5 HR @\$53/HR			\$26.50
---291A	01/26/89	tank pulled 3 hr @\$56/hr			\$168.00
---291A	04/05/89	SECOND LETTER 1 HR @\$56/HR			\$56.00
---291A	05/03/89	PHONE CONSULTATION/LETTER 1.9 HR @\$56/HR			\$106.40
---291A	06/15/89	PHONE CONSULTATION .3 HR @\$56/HR			\$16.80
---291A	07/26/89	REVIEW WORK PLAN .5 HR @\$56/HR			\$28.00
---291A	02/07/90	review plan 1.3 hr @\$60/hr			\$78.00

---291a	09/20/90	review report	0.3	\$18.00
---291a	09/21/90	Letter	1.1	\$66.00
---291a	11/15/90	review report/letter	1.3	\$78.00
---291a	01/11/91	review report	0.75	\$50.25
---291a	03/08/91	review quarterly report	0.5	\$33.50
---291a	04/18/91	review well install.rpt.	0.75	\$50.25
---291a	05/16/91	review quarterly report	0.5	\$33.50
---291a	11/22/91	review workplan	2.	\$134.00
---291a	01/08/92	review monitoring rpt.	0.5	\$33.50
---291a	01/10/92	letter	1.	\$67.00
---291A		REVIEW LAB RESULTS/LETTER 1.5 HR @\$56/HR		\$84.00
				----- \$1,127.70

Balance: \$72.30 Amount Refunded:

=====

Proj#	Work Date	Activity Description	Insp	Time (hrs)	Amt Charged
-----	-----	-----	----	-----	-----
---291d	01/13/93	first pipe test		2.	\$150.00
---291d	01/21/93	2nd pipe test		3.5	\$262.50
---291d	01/25/93	sump test		0.5	\$37.50
					Pg 1

**** WORKLOG HISTORY ****

---291d	03/11/93	monitor test	1.	\$75.00
---291d	03/18/93	File Review	0.5	\$37.50
---291d	03/19/93	Project Ended/Refund request		\$0.00

				\$562.50

Balance: \$0.00 Amount Refunded: \$7.50

=====

Listing of Archived HAZMAT DAILY activities since 1987 for StID # 3883
as of 04/22/97 all Activity Codes

SITE NAME & ADDRESS:

Arco Station #06113 -- 785 E Stanley Blvd , Livermore CA 94550

InspDat	Insp Act	InspT	StID	Proj#	COMMENTS	DailBDat
-----	-----	-----	-----	-----	-----	-----
Archived Dailies:						
InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
-----	-----	-----	-----	-----	-----	-----
04/08/92	EC	200	0.8	3883	transfer to LOP and notification letter	
04/08/92	MT	410	3.	3883		
05/11/92	SH	212	0.3	3883	phone with consultant re: amended workplan	
05/11/92	SH	215	1.	3883	review amended workplan	
05/15/92	TP	206	0.5	3883	w/Scott, Susan	
05/15/92	SH	215	0.5	3883	review case	
05/18/92	SH	206	1.	3883		
11/09/92	JS	41	1.	3883	291A Installtion review-Arco E. stanley-not completed	
11/30/92	AG	45	5.	3883	291A UST plan Review Etc. on ARCO(# 6113) 785 E.Stanley Blvd, Livermore (Jeff on Vacation)	
01/13/93	JNS	41	2.	3883	291A 785 E. Stanley-Arco primary pipeline test	
01/21/93	JNS	41	3.5	3883	291A secondary pipeline test, two leaks detected. 785 E. Stanley, lvmr	
01/25/93	JNS	41	1.	3883	291A sump test. 785 E. Stanley, lvmr	
03/10/93	JNS	41	1.	3883	291A	
03/18/93	JNS	41	0.5	3883	291A 785 E. stanley, livermore. close file.	
03/24/93	JNS	12	0.5	3883	complaint from LFD	
02/16/94	JNS	130	0.5	3883		
07/19/94	JNS	35	0.5	3883		

Current Dailies:

InspDat	Insp Act	InspT	StID	DRPro	Comment	DailBDat
-----	-----	-----	-----	-----	-----	-----
04/14/95	RW	35	0.25	3883	review of annual inventory variation report	
09/11/95	RW	132	0.75	3883	report of gasoline filter rupture	
03/06/96	RW	35	0.25	3883	sir annual summary report	
03/26/96	RW	137	0.5	3883	called Arco re: test of one tank	
04/15/96	RW	137	0.25	3883		
02/03/97	RW	31	2.5	3883	2919 paperwork issues mainly. Interesting site w/ one single wall tank and two double wall tanks. Line leak detector has turbine shutdown programed in to monitor.	
03/04/97	RW	35	0.25	3883	2910 annual SIR report for single wall midgrade ust	

Complete

3883

01-019

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 checked="" 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. <i>[Signature]</i> SIGNED: _____ DATE: 7-11-95
REPORT DATE 08/29/95	CASE # —	

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT DELIA SAN PEDRO	PHONE (714) 670-5108	SIGNATURE <i>[Signature]</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 MICO PRODUCTS CO.	
	ADDRESS P.O. BOX 6038, ARTESIA, CA 90702-6038		

RESPONSIBLE PARTY	NAME MICO PRODUCTS CO. <input type="checkbox"/> UNKNOWN	CONTACT PERSON DELIA SAN PEDRO	PHONE (714) 670-5108
	ADDRESS P.O. BOX 6038, ARTESIA, CA 90702-6038		

SITE LOCATION	FACILITY NAME (IF APPLICABLE) MICO FACILITY #6113	OPERATOR PRESTITE STORAGE INC. # 5158	PHONE (510) 49-2024
	ADDRESS 785 E. STANLEY BLVD., LIVERMORE, ALAMEDA 94530		
	CROSS STREET MIRRIETA		

IMPLEMENTING AGENCIES	LOCAL AGENCY ALAMEDA CO. PUBLIC HEALTH	AGENCY NAME	CONTACT PERSON R.B. WESTON DONNA ERICKSON	PHONE 68581 (770) 567-8700
	REGIONAL BOARD			PHONE ()

SUBSTANCES INVOLVED	(1) NAME GASOLINE	QUANTITY LOST (GALLONS) 36 GALS. <input type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 08/29/95	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER VISUAL	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN 08/29/95	<input 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 type="checkbox"/> REPLACE TANK <input checked="" type="checkbox"/> OTHER SHUT DOWN IMPACT VALVE.
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 08/29/95		

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input 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 checked="" type="checkbox"/> OTHER FILTER IS NEW WENT UNDER PART #2
		<input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN

CASE TYPE	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input 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 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 checked="" type="checkbox"/> OTHER (OT) CLEANED BY FIRE DEPT & GENTLE PUMP WITH ABSORBENT & STORED AT SITE UNTIL PROPER DISPOSAL. FURTHER PUMP FIXED FILTERS.
-----------------	---

COMMENTS	
----------	--

P. CHASTIE
LIVERMORE F.D.

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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

FAX COVER SHEET

DATE: August 16, 1995

TO: MICHAEL WHELAND

ARCO

FAX # (408) 377-8361

Total number of pages including cover sheet 2

FROM: SUSAN HUGO

NOTE:

Per your request.

(SMILE) have a nice day.
DO SOMETHING FOR OUR ENVIRONMENT.

LIST OF ARCO SITES WITH UGT CLEANUP
(August 16, 1995)

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO#</u>	<u>ADDRESS</u>
3629	Susan Hugo	2112	1260 Park Street, Alameda 94501
817	Amy Leech	5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	2152	22141 Center St., Castro Valley 94546
3883	Susan Hugo	6113	785 E. Stanley Blvd., Livermore 94550
3873	Susan Hugo	771	899 Rincon Avenue, Livermore 94550
1053	Eva Chu	6041	7249 Village Parkway, Dublin 94568
779	Amy Leech	608	17601 Hesperian Blvd. San Lorenzo 94580
3876	Barney Chan	2185	9800 East 14th Street, Oakland 94603
3756	Barney Chan	276	10600 MacArthur Blvd. Oakland 94605
3874	Susan Hugo	4931	731 W. MacArthur Blvd. Oakland 94609
3884	Susan Hugo	374	6407 Telegraph Avenue, Oakland 94609
3626	Susan Hugo	6148	5131 Shattuck Avenue, Oakland 94609
3890	Barney Chan	2107	3310 Park Blvd. Oakland 94610
3854	Barney Chan	4494	566 Hegenberger Road, Oakland 94621
3793	Susan Hugo	2169	889 W. Grand Ave. Oakland 94607
3858	Barney Chan	2035	1001 San Pablo Avenue, Albany 94706
4275	Scott Seery	601	712 Lewelling Blvd. San Leandro 94579
744	Dale Kletke	2111	1156 Davis Street, San Leandro 94577

ALAMEDA COUNTY ENVIRONMENTAL
HEALTH DEPARTMENT

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

FAX COVER SHEET

DATE: June 27, 1995

TO: DAVID LARSON

FAX # (408) 453-0452

Total number of pages including cover sheet 2

FROM: SUSAN L. HUGO

NOTE:

List of ARCO SITES & corresponding
contact person

(SMILE) have a nice day.
DO SOMETHING FOR OUR ENVIRONMENT.

(6/27/95)

LIST OF ARCO SITES WITH UGT CLEANUP

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO FACILITY#</u>	<u>ADDRESS</u>
3629	Susan Hugo	Station 2112	1260 Park Street Alameda 94501
817	Amy Leech	Station 5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	Station 2152	22141 Center Street Castro Valley 94546
3883	Susan Hugo	Station 6113	785 E. Stanley Blvd. Livermore 94550
3873	Susan Hugo	Station 771	899 Rincon Avenue Livermore 94550
1053	Eva Chu	Station 6041	7249 Village Parkway Dublin 94568
779	Amy Leech	Station 608	17601 Hesperian Blvd. San Lorenzo 94580
3876	Barney Chan	Station 2185	9800 East 14th Street Oakland 94603
3756	Barney Chan	Station 276	10600 MacArthur Blvd. Oakland 94605
3874	Susan Hugo	Station 4931	731 W. MacArthur Blvd. Oakland 94609
3884	Susan Hugo	Station 374	6407 Telegraph Avenue Oakland 94609
3626	Susan Hugo	Station 6148	5131 Shattuck Avenue Oakland 94609
3890	Barney Chan	Station 2107	3310 Park Blvd. Oakland 94610
3854	Barney Chan	Station 4494	566 Hegenberger Road Oakland 94621
3793	Susan Hugo	Station 2169	889 W. Grand Ave. Oakland 94607
3858	Barney Chan	Station 2035	1001 San Pablo Avenue Albany 94706
4275	Scott Seery	Station 601	712 Lewelling Blvd. San Leandro 94579

ARCO Products Company
2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400

ALCO
HAZMAT



94 SEP 13 PM 2:14
September 9, 1994

Ms. Susan Hugo
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, CA 94621

Re: Transfer of ARCO Projects.

Dear Ms. Hugo:

The purpose of this letter is to inform you of changes that ARCO Products Company (ARCO) has recently made in regards to environmental consulting firms working on environmental projects at existing and former ARCO retail facilities. In an effort to promote consistency, be more proactive, streamline communications and reduce costs, ARCO has significantly reduced the number of environmental consultants performing assessment and remedial activities on these environmental projects. The consolidation, which took effect on 9/1/94, involves a reduction of approximately 75% to 80% of the consulting firms that ARCO previously used. ARCO firmly believes that this consolidation effort will dramatically streamline ARCO's communication process, both with your office and staff as well as with ARCO's remaining consultants. The consulting firms which ARCO will now use at retail facility environmental projects throughout the west (WA, OR, CA, NV and AZ) include: Brown & Caldwell, Delta Environmental, Emcon Associates, Pacific Environmental Group, and Secor.

Attached to this letter is a list of sites in your jurisdiction that have recently been transferred to one of the five consulting firms listed above. In most cases, these five consulting firms were already working on ARCO projects in your jurisdiction. Also included in the list is the name of the ARCO engineer responsible for the site. please don't hesitate to call the respective ARCO engineer or the consultant's regional contact if you have any questions regarding any of the projects.

The transfer of the projects from the former consultant to one of the five firms listed above should be completed by October 1, 1994. Shortly thereafter I will be contacting you to schedule a meeting to introduce you to the primary contacts at the consulting companies and to review the projects with your staff. Please contact me at (415) 571-2468 if you have any questions concerning this letter.

Sincerely,

Kyle Christie

ALAMEDA COUNTY HEALTH DEPT.

Facility Number	City	Address	New Consulting Firm	ARCO Engineer	ARCO Engineer phone number
276	Oakland	10600 MacArthur Blvd.	Emcon	Mike Whelan	415-571-2449
347	Oakland	2751 High Street	Brown & Caldwell	Brad Jones	213-486-0681
374	Oakland	6407 Telegraph Avenue	Pacific Env. Group	Mike Whelan	415-571-2449
601	San Leandro	712 Leelling Blvd.	Emcon	Mike Whelan	415-571-2449
771	Livermore	899 Rincon Avenue	Emcon	Mike Whelan	415-571-2449
2035	Albany	1001 San Pablo Avenue	Emcon	Mike Whelan	415-571-2449
2107	Oakland	3310 Park Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
2111	San Leandro	1156 Davis Street	Emcon	Mike Whelan	415-571-2449
2112	Alameda	1260 Park Street	Pacific Env. Group	Mike Whelan	415-571-2449
2152	Castro Valley	22141 Center Street	Pacific Env. Group	Mike Whelan	415-571-2449
2162	San Leandro	15135 Hesperian Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
2169	Oakland	889 West Grand Avenue	Emcon	Mike Whelan	415-571-2449
2185	Oakland	9800 East 14th Street	Emcon	Mike Whelan	415-571-2449
4494	Oakland	566 Hagenberger Road	Pacific Env. Group	Mike Whelan	415-571-2449
4931	Oakland	731 West MacArthur Blvd.	Pacific Env. Group	Mike Whelan	415-571-2449
6002	Oakland	6235 Seminary Avenue	Emcon	Mike Whelan	415-571-2449
6041	Dublin	7249 Village Parkway	Emcon	Mike Whelan	415-571-2449
6113	Livermore	785 East Stanley Blvd.	Emcon	Mike Whelan	415-571-2449
6148	Oakland	5131 Shattuck Avenue.	Emcon	Mike Whelan	415-571-2449
9908	Oakland	8255 San Leandro Blvd	Brown & Caldwell	Brad Jones	213-486-0681

Your Emcon contact is Mr. Jay Johnson.

Your Pacific Environmental Group contact is Mr. Greg Barclay

Your Brown & Caldwell contact is Mr. Ron Zurlinden

CONSULTANTS CONTACTS

Consultant Name	ARCO Program Manager (APM)	Technical Coordinator (TC)	Area	Administrative Coordinator (AC)
Brown & Caldwell	Mikk Anderson 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016	Ron Zurlinden 9616 micro Ave Sacramento, CA 95813-3449 (916) 444-0123 --- Fax (916) 856-5277	NW	Mat Quinn 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016
		Ron Halsey 16735 Von Karman, Suite 200 Irvine, CA 92714-4918 (714) 660-1070 --- Fax (714) 474-0940	SW	
		Mike Higman 9040 Frairs Rd, Suite 220 San Diego, CA 92108 (619) 528-9090 --- Fax (619) 528-9199	SW	
Delta	Jon Pesicka 27141 Aliso Creek Rd, Suite 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290	Todd Galati 3330 Data Dr, Suite 100 Rancho Cordova, CA 95670 (916) 638-2085 --- Fax (916) 638-8385	NW	Debbie Fluckiger 27141 Aliso Creek Rd, # 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290
		Jon Pesicka (714) 362-3077 --- Fax (714) 362-0290	SW	
Emcon	Jack Hardin 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526	Rob Dixon 15055 SW Sequoia Pkwy, Suite 140 Portland, OR 97224-7712 (503) 624-7200 Fax (503) 620-7658	NW	Jeanette Memeo 1921 Ringwood Ave San Jose, CA 95131-1721 (408) 453-7300 Fax (408) 437-9526
		Jay Johnson 1433 N Ave Market Blvd. Sacramento, CA 95834-1943 (916) 928-3300 Fax (916) 928-3341	NW	

CONSULTANTS CONTACTS

Consultant Name	ARCO Program Manager (APM)	Technical Coordinator (TC)	Area	Administrative Coordinator (AC)
Emcon	Jack Hardin	Ric Morgan 120 Columbia, Suite 500 Aliso Viejo, CA 92656 (714) 362-1130 Fax (714) 362-1137	SW	Jeanette Merneo
Pacific Enviro Group	Debra Moser 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539	Greg Barclay 3050 Fite Circle, Suite 101 Sacramento, CA 95827 (916) 361-8091 --- Fax (916) 361-8094 Cleve Solomon 650 N Sierra Madre Villa, Suite 204 Pasadena, CA 91107 (818) 351-4814 -- Fax (818) 351-4822	NW SW	Norma Gutierrez 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539
Seacor	David Childs 1913 Volcanic Dr. Benton, AR 72015-2161 (501) 776-3400 Fax (501) 776-3053	Jim Ritchie 90 New Montgomery St, Suite 620 San Francisco, CA 94015-4503 (415) 882-1548 -- Fax (415) 882-4406 Kyle Emerson 1180 Nevada St, Suite 200 Redlands, CA 92374 (909) 335-6116 --- Fax (909) 335-6120 Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 --- Fax (805) 546-0583	NW SW SW	Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333 Fax (916) 456-0110

5/19/93

ST10 3883

78 E. Stanley Blvd. Livermore

5/10/93

Reid UGI Piping Removal & Soil Sampling
fr. Rout dated 5/7/93

Testing for TOG + TPH₂

MW 1 & MW 4 - perched aquifer
22-43 ft bgs - & dry sometimes
dupes MW 5 - MW 9 - at 55 ft bgs
→ N-NE

2 additional - off site wells

5/19/93
3174

Landscaping plans - approving
construction 1993! Aug - Sept 1993
↓
delayed due to rezoning

971 -
{ Letter for access to install well
Edward Rotherburn }
San Leandro, } → Jura

March

H₂O level increased - no wells

H₂O dropping every month - 2 ft/mo
Start up August, 1993 - (20-32 ft)
when water level → August 1993

6113 → 785 E. Stanley
Water truck - come up
< 40 ft + >

3 zones - VES System

Shallow zone vadose →

Spurge wells →
Treatment System

RAP + WP July 15, 1993

Start system

→ Jan 1994 Zone shallow

In lieu of aquifer test + Recovery well

Spurge
Report - Vapor wells shallow - August 15, 1993
July 15, 1993 - RAP +

Shattuck Ave →

Vent test →

Vapor wells →

Work plan - test wells on site for
sparging & if possible install
appropriate wells

→ Start up April 1994 (60 days) June 1994

5/19/93

STID

2:

Dublin Station

6041

Work plan → Aquifer Test

pump & treat

sponge test / vent test

(35 = vent test)

Recovery Wells

* Locate - sponge wells - 2 1" well

that wells are on site measurement

H₂O level, O₂ ; PSI (±)

sponge well / vapor extraction well

Sewer pipe → R ft bgs

on site boring → sponge test / vent

Schedule - system start April -

→ June, 1994 - system will be running

Revised work plan →

delay 60 days →

5/19/93
2/85

Conducted Aquifer Test

June 1, 1993 - delay → revised

Permeability Study →

5/19/93

ST1 D

899 Lincoln Ave Lidoamore

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2345

T R A N S M I T T A L

TO: Ms. Susan Hugo
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, California 94621

DATE: December 23, 1992
PROJECT NUMBER: 69028.07
SUBJECT: Final - Report on
Additional Subsurface Environmental
Investigation at ARCO Station 6113, 785
East Stanley Blvd., Livermore, California.

FROM: Barbara Sieminski
TITLE: Assistant Project Geologist

WE ARE SENDING YOU:

COPIES DATED**DESCRIPTION**

1	11/30/92	Final - Subsurface Environmental Investigation at the above subject site.
---	----------	---

THESE ARE TRANSMITTED as checked below:

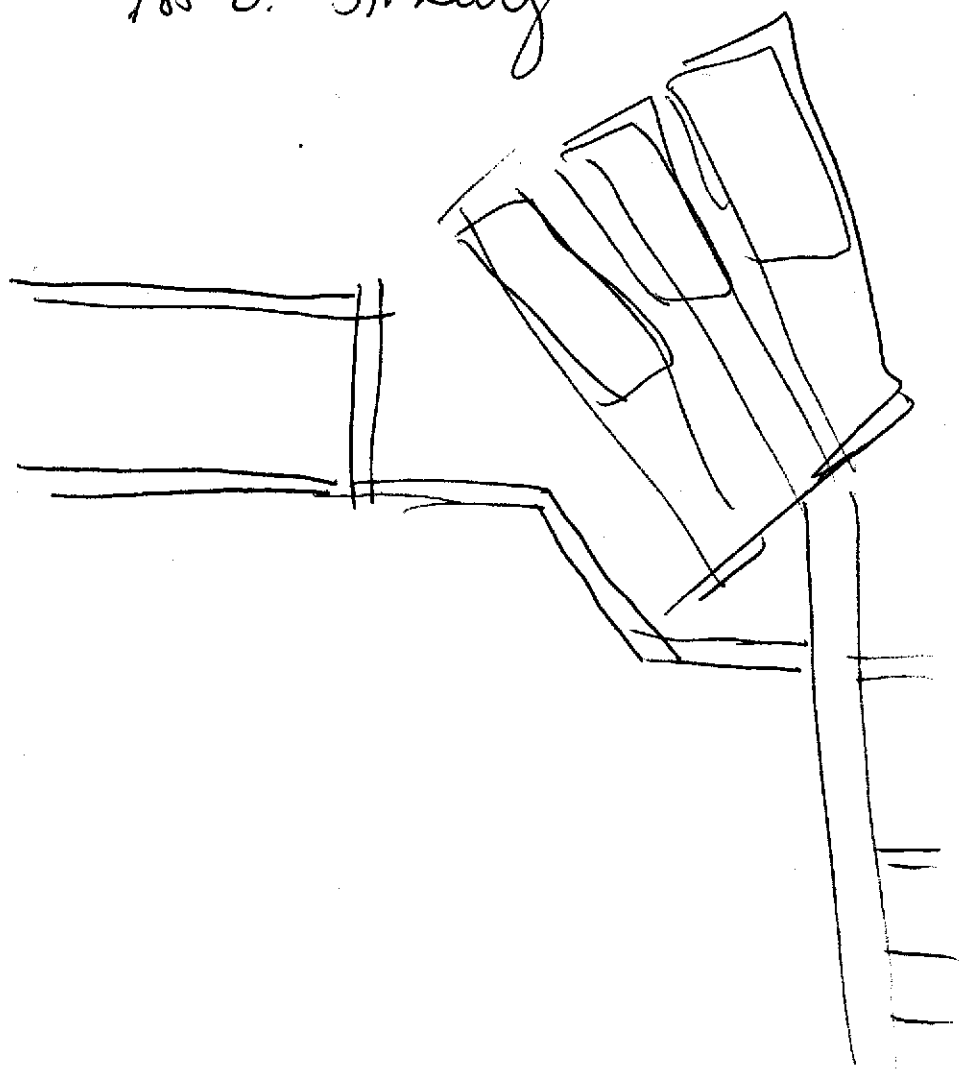
- For review and comment Approved as submitted Resubmit ___ copies for approval
 As requested Approved as noted Submit ___ copies for distribution
 For approval Return for corrections Return ___ corrected prints
 For your files

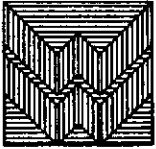
REMARKS: cc: Mr. H.C. Winsor, ARCO Products Company
Mr. Michael Whelan, ARCO Products Company
Mr. Eddy So, RWQCB, San Francisco Bay Region
Ms. Danielle Stefani, Livermore Fire Department
Mr. Joel Coffman, RESNA Industries Inc.

Copies: 1 to RESNA project file no. 69028.07

12/10/92

785 E. Stanley





November 27, 1992

Mark Wilkey
Wilkey's Engineering
3143 Catlett Road
Pleasant Grove, California 95668

SUBJECT: ARCO AM/PM #6113, 275 E. Stanley Blvd., Livermore, CA

Dear Mark,

Please note the following requirements and changes for the subject site:

Building Department: Stanley (510) 373-5180

1. Delete proposed highlevel area lights
2. G.C. to obtain encroachment permit

Fire Department: Daniel (510) 373-5450

1. Signs per UFC 79.903(1)
2. OPW 10R Shear valves at dispenser vapor recovery line (TK-106 Rev B)
3. Emergency shut-off switch (TK-101 Rev B)

Environmental Health: Removal Suzan Hugo (510) 271-4530

1. Soil sample at dispensers
2. Soil samples in remediation trenches
3. Layout of existing as-built lines
4. New piping layout (specific new routing)

Items 3. & 4. need to be provided to Suzan Hugo prior to final inspection.

Environmental Health: Installation Razi (510) 271-4320
Awaiting comments

Sincerely,

William E. Watson
Agent for ARCO

encl: TK-101 Rev B
TK-106 Rev B

cc: Chase Jiannalone, ARCO
David Carroll, ARCO
Suzan Hugo, Alameda County Environmental Health

11/27/92 10:21

11/25/92

Ravi,

Please review this ^{pipings} installation plan for ARCO - 785 E. Stanley Blvd. in Livermore.

I have approved the piping removal plan contingent on conditions I noted in the plan.

They want to do the following work at the same time:

- removal of old product lines
- installation of new product lines & monitoring systems
- installation of remediation piping lines.

The site is contaminated & they have a remediation time schedule to meet.

Please review the installation plan for product piping & installation of monitoring system at your earliest convenience. They may also be installing over spill containment.

You may call Bill Watson (916) 332-3066 for any questions you may have.

They are planning to start the work 1st or 2nd week of December.

Thanks.

Susan

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 PHONE NO. 510/271-4320

DUSAN K. ARCO

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
 470 - 27th Street, Third Floor
 Oakland, CA 94612
 Telephone: (415) 874-7227

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure conformance with State and local laws. The project proposed herein is now referred to the area of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws.

Notify this Department of least 48 hours prior to the following required inspections:

- Removal of ~~the~~ Piping
- Sealing
- Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Please note change made on page 4 & submit the following items to this office:

*1) Striping layout of product lines to be removed (interior)
 2) Striping layout of main product lines to be installed (as built) (reinstallation)
 3) Striping layout of remediation tank to be installed.*

Original

UNDERGROUND TANK CLOSURE PLAN *PIPING MODIFICATION*

*** Complete according to attached instructions ***

1. Business Name ARCO AM/PM
 Business Owner PRESTIGE STATIONS INC.
 2. Site Address 785 E. STANLEY BLVD.
 City LIVERMORE Zip 94550 Phone (510) 449-2024
 3. Mailing Address MS. JUDY MASON, ARCO PRODUCTS CO, P.O. BOX 6038
 City ARTESIA, CA Zip 90702 Phone (310) 407-2605
 4. Land Owner PRESTIGE STATIONS INC.
 Address C/O JUDY MASON P.O. BOX 6038
ARCO PRODUCTS CO City, State ARTESIA, CA Zip 90702
 5. Generator name under which tank will be manifested N/A
- EPA I.D. No. under which tank will be manifested N/A

6. Contractor WILKEY'S ENGINEERING
Address 3143 CATLETT ROAD
City PLEASANT GROVE 95668 Phone (916) 655-3181
x License Type* 651737 x ID# 68-0211540

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.

7. Consultant ROUX ASSOCIATES
Address 1855 GATEWAY BLVD # 770
City CONCORD 94520-3290 Phone (510)

8. Contact Person for Investigation
Name Paul Supple Title Senior Hydroscologist
Phone 510 602-2333

9. Number of tanks being closed under this plan NONE
Length of piping being removed under this plan 325± (PIPING TRENCH)
Total number of tanks at facility 3 (EXISTING TO REMAIN)

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled **
as hazardous waste

x a) Product/Residual Sludge/Rinsate Transporter
Name PRC REFINERY SERVICES EPA I.D. No. CAD ⁹⁸¹⁶⁹⁶⁴⁰⁰ ~~000000000~~
Hauler License No. 2591 License Exp. Date 3-31-93
Address P.O. Box 1167
City PATERSON State CA Zip 95365

x b) Product/Residual Sludge/Rinsate Disposal Site
Name PRC Refinery Services EPA I.D. No. CAD ⁹⁸¹⁶⁹⁶⁴⁰⁰
Address P.O. Box 1167
City PATERSON State CA Zip 95365

X c) Tank and Piping Transporter

Name PRC Refinery Services EPA I.D. No. CA0981696420
Hauler License No. 2591 License Exp. Date 3-31-93
Address P.O. Box 1167
City Patterson State CA Zip 95365

X d) Tank and Piping Disposal Site

Name PRC Refinery Services EPA I.D. No. CA0981696420
Address P.O. Box 1167
City Patterson State CA Zip 95365

X 11. Experienced Sample Collector

Name Todd Ramsden or Paul Supple
Company Roux Associates
Address 1855 Gateway Boulevard Suite 770
City Concord State CA Zip 94520 Phone 510 602-2333

X 12. Laboratory

Name Sequoia Analytical
Address 1900 Bates Avenue, Suite LM
City Concord State CA Zip 94520
State Certification No. 1271

13. Have tanks or pipes leaked in the past? Yes No

If yes, describe. Specific unknown

14. Describe methods to be used for rendering tank inert

N/A

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
		Soil	Beneath the removed product piping at a MAXIMUM OF two feet below the native soil/backfill interface. One sample for every 20 feet of piping.
		* Soil samples must be collected underneath the dispenser.	

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

* Soil samples must also be collected from trenches for remediation if contamination is present (strong identification, ~~above of field instrument reading~~). Land area product lines to be installed (if not a common trench with the old product line to be removed).

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) 100 cu yds.	Sampling Plan TPH-G, TCLP/BTEX, STLC/P6, ACI ANALYSES FOR Four point composite sample for each 100 cu. yds. This is the BFI VASCO ROAD LANDFILL sampling requirements.

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G	5030	8015	1.0 ppm
BTEX	5030	8020	0.005 ppm
Total lead		Atomic Absorption	5.0 ppm

17. Submit Site Health and Safety Plan (See Instructions)

X 18. Submit Worker's Compensation Certificate copy

X Name of Insurer STATE COMPENSATION INSURANCE FUND

19. Submit Plot Plan (See Instructions)

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

X Signature of Contractor

Name (please type) WILKEY'S ENGINEERING

Signature Mark Wilkey

Date 10-21-92

Signature of Site Owner or Operator

Name (please type) CHASE JIANNALONE

Signature [Signature]

Date 10/23/92

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- * State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Health Services, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION
Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS
See attached Table 2.

X 17. SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- l) Page for employees to sign indicating they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tanks and piping in addition to the ones being pulled.

20. DEPOSIT

A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all non-manifested contaminated soil hauled offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>		<u>WATER ANALYSIS</u>	
Unknown Fuel	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
Leaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 OR 8240	BTX&E	602 or 624
	TPH AND BTX&E	8260	TOTAL LEAD AA	
	TOTAL LEAD AA			
	-----Optional-----			
	TEL	DHS-LUFT	TEL	DHS-LUFT
	EDB	DHS-AB1803	EDB	DHS-AB1803
Unleaded Gas	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
Diesel, Jet Fuel and Kerosene	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
Fuel/Heating Oil	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	TPH AND BTX&E	8260		
Chlorinated Solvents	CL HC	8010 or 8240	CL HC	601 or 624
	BTX&E	8020 or 8240	BTX&E	602 or 624
	CL HC AND BTX&E	8260	CL HC AND BTX&E	8260
Non-chlorinated Solvents	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	BTX&E	8020 or 8240	BTX&E	602 or 624
	TPH AND BTX&E	8260	TPH and BTX&E	8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G	GCFID(5030)	TPH G	GCFID(5030)
	TPH D	GCFID(3550)	TPH D	GCFID(3510)
	TPH AND BTX&E	8260		
	O & G	5520 D & F	O & G	5520 C & F
	BTX&E	8020 or 8240	BTX&E	602, 624 or 8260
	CL HC	8010 or 8240	CL HC	601 or 624
	ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni		METHOD 8270 FOR SOIL OR WATER TO DETECT:	
	PCB*		PCB	
	PCP*		PCP	
	PNA		PNA	
	CREOSOTE		CREOSOTE	

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**
9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.
- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

(916) 328-1638

11/20/92

STID 8883

785 E. Stanley Blvd

Submitted w/ Jeff Shapiro for installations

- 1) Need site safety plan ✓ per 29 CFR 1910.120 (installations)
- 2) submit copy of contractors license ✓ w/ Jeff Shapiro
- 3) submit copy of Haz. Waste Certificate for all workers at the site
- 4) demolish old dispenser & sample underneath dispenser lines to be removed
- 5) new dispenser will be installed → new lines will be installed in the same area?

* one tank is single walled - ✓ (12,000 G formerly the leaded tank)

← PRC-Hygiene - registered hauler? permitted disposal site?

only three tanks at the still
12,000 UGT's @ not 4-10,000 gal

- 6) submit piping lay out of pipe lines to be removed; ✓ lay out of newly installed lines
② lay out of remediation lines to be installed

called mark Wilkey - left message
called Bill Watson 11/20/92 - Terravetta Blvd. had
no active island or →

788 E. Stanley Blvd. Livermore 94550

- 1) additional soil borings (SE & SW of waste oil tank) to complete contaminant depth data
- 2) Site safety plan
- 3) all applicable permits must be issued from other regulatory agencies
- 4) 5,000 ppb in H₂O (TOG) quantitation limit
- 5) install additional ~~flow~~ downgrading former waste oil tank location.

11/19/92

STID 3883

785 E. Stanley Blvd. Livermore

- piping removal - needs ^{Site safety} H&S plan - ?
- string logs for MW 5 - MW 9 → deeper aquifer report not submitted
- analyzed for TPHd TOG VOC + 5 metals
- MW 1 - MW 4 → shallow (punched) interconnected → ? note
- deeper aquifer - MW 5 → MW 9
- * check nearby ^{regional} groundwater depth - city pumping well
- deeper aquifer - 07 ft in the well
- * any continuous log → 75-80 ft deep
- aquitard - continuous?

soil vapor treatment / thermal oxidizer
3-4 VWS

Startup - mid

Work plan to install w/v

→ Jan 1, 1993 Work plan for aquifer test

April 15, 1993 - aquifer test report

RAP -

Permit / design - July 15, 1993 (no set back requirements)

Bids to contractors awarded → Aug 15 - 30, 1993
as built -

11/19/92

STID 3883

785 E. Stanley Blvd. Livermore

installed MW5 - MW9 } 6/92
VW-1

performed VET - 8/92

VW-2 - installed 8/4/92

9/28/92

Quarterly Report - 2nd Q 1992 dated 9/28/92

↳ performed 6/29/92

MW4 - dry (6/29/92)

MW3 - residual H₂O (5/92)

MW1 → MW3 - residual H₂O (6/92)

April 24, 1992 gradient → east/northeast

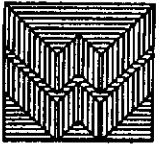
Screened?
where
50 ft depth
55 ft

MW5 → MW9

installed
6/29/92 ✓

deeper H₂O bearing zone
gradient to North/northeast

contaminant plume - delineated only on the
south (upgradient) of active U&T's.



WATSON WEST, INC.

5849 Auburn Blvd. • Sacramento, Ca 95841

Design • Engineering • Permit Services

(916) 332-3066 • FAX (916) 332-0204

TRANSMITTAL

TO: SUZAN HUGO
ALAMEDA COUNTY HEALTH
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621

DATE: 11-3-92
JOB NO: _____

FROM: BILL WATSON

SUBJECT: ARCO FAC. # 6113
TBS E. STANLEY BLVD, LIVERMORE, CA

WE ARE TRANSMITTING: HEREWITH
 UNDER SEPARATE COVER

VIA: FEDERAL EXPRESS US POSTAL
 UPS WILL CALL
 OTHER _____ SIGNATURE: _____

THE FOLLOWING: (2) TK101 BLUEPRINTS PHOTOGRAPHS
 ORIGINAL DWGS. OTHER

FOR: APPROVAL YOUR USE OTHER (SEE BELOW)

REMARKS: PER YOUR REQUEST AT MEETING OCT, 30
WITH PAUL SUPPLE,
MIKE WOLLEN,
KYLE CHRISTIE

[Signature]
SIGNATURE

CC: PAUL SUPPLE

STID 2883

ARCO 785 E. Stanley Blvd.

10/27/92
(1hr).

10/20/92

785 E. Stanley Livermore

Repair system 3-4 weeks
Wilkes Engineer

Copy of construction plan → 2

Samples will be collected piping (1/20 linear
ft) City of Livermore

{ Kyle Christie
Paul Suppe
Michael Wheland }

	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report on Quarterly Groundwater Monitoring Second Quarter 1992 69028.05	9/28/92	RESNA
Letter Report on Quarterly Groundwater Monitoring First Quarter 1992 69028.05	5/4/92	RESNA
Fourth Quarter 1991 Groundwater Monitoring Report 69028.05	3/6/92	RESNA
Addendum to Work Plan for Additional Subsurface Investigation and Vapor Extraction Test 69028.06	3/3/92	RESNA
Third Quarter 1991 Groundwater Monitoring Report 69028.05	10/18/91	RESNA/Applied GeoSystems
Work Plan for Additional Subsurface Investigation and Vapor Extraction Test 69028.06	10/17/91	RESNA
Letter Report Quarterly Ground-Water Monitoring Second Quarter 1991 69028.03	7/11/91	RESNA
Letter Report Quarterly Ground-Water Monitoring First Quarter 1991 69028.05	4/23/91	RESNA
Site Safety Plan for ARCO Station 6113 AGS 69028-4S	2/14/91	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Fourth Quarter 1990 AGS Report 69028-3	1/27/91	Applied GeoSystems
Addendum to Work Plan for ARCO Station 6113 AGS 69028-4	12/16/90	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Third Quarter 1990 AGS Report 69028-3	11/2/90	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Second Quarter 1990 AGS Report 69028-3	8/29/90	Applied GeoSystems
Limited Subsurface Environmental Investigation AGS Report 69028-2	12/6/89	Applied GeoSystems
Work Plan - Limited Subsurface Environmental Investigation AGS Report 69028-1W	7/18/89	Applied GeoSystems
ARCO Station 6113, 785 E. Stanley Boulevard, Livermore, California Project 330-53.01	4/25/89	Pacific Environmental Group

STID 3883

ARCO 785 E. Stanley Blvd.

8/92

- installed 1 additional vapor extraction well (VW-2)
- performed Vapor Extraction Test

Addendum to WP (3/3/92)

VW-5 → VW-8 converted to vapor extraction wells
will be completed to MWs 5 → 8 if good bed necessary

B-9 will be converted to MW.

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Letter Report on Quarterly Groundwater Monitoring First Quarter 1992 69028.05	5/4/92	RESNA
Fourth Quarter 1991 Groundwater Monitoring Report 69028.05	3/6/92	RESNA
Addendum to Work Plan for Additional Subsurface Investigation and Vapor Extraction Test 69028.06	3/3/92	RESNA
Third Quarter 1991 Groundwater Monitoring Report 69028.05	10/18/91	RESNA/Applied GeoSystems
Work Plan for Additional Subsurface Investigation and Vapor Extraction Test 69028.06	10/17/91	RESNA
Letter Report Quarterly Ground-Water Monitoring Second Quarter 1991 69028.03	7/11/91	RESNA
Letter Report Quarterly Ground-Water Monitoring First Quarter 1991 69028.05	4/23/91	RESNA
Site Safety Plan for ARCO Station 6113 AGS 69028-4S	2/14/91	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Fourth Quarter 1990 AGS Report 69028-3	1/27/91	Applied GeoSystems
Addendum to Work Plan for ARCO Station 6113 AGS 69028-4	12/16/90	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Third Quarter 1990 AGS Report 69028-3	11/2/90	Applied GeoSystems
Letter Report, Quarterly Ground-Water Monitoring Second Quarter 1990 AGS Report 69028-3	8/29/90	Applied GeoSystems
Limited Subsurface Environmental Investigation AGS Report 69028-2	12/6/89	Applied GeoSystems
Work Plan - Limited Subsurface Environmental Investigation AGS Report 69028-1W	7/18/89	Applied GeoSystems
ARCO Station 6113, 785 E. Stanley Boulevard, Livermore, California Project 330-53.01	4/25/89	Pacific Environmental Group

(6/11/92)

LIST OF ARCO SITES WITH UGT CLEANUP

<u>STID#</u>	<u>ACHD CONTACT</u>	<u>ARCO FACILITY#</u>	<u>ADDRESS</u>
3629	Susan Hugo	Station 2112	1260 Park Street Alameda 94501
817	Juliet Shin	Station 5387	20200 Hesperian Blvd. Hayward 94541
3943	Scott Seery	Station 2152	22141 Center Street Castro Valley 94546
3883	Susan Hugo	Station 6113	785 E. Stanley Blvd. Livermore 94550
3873	Susan Hugo	Station 771	899 Rincon Avenue Livermore 94550
1053	Scott Seery	Station 6041	7249 Village Parkway Dublin 94568
779	Juliet Shin	Station 608	17601 Hesperian Blvd. San Lorenzo 94580
3876	Barney Chan	Station 2185	9800 East 14th Street Oakland 94603
3756	Barney Chan	Station 276	10600 MacArthur Blvd. Oakland 94605
3874	Susan Hugo	Station 4931	731 W. MacArthur Blvd. Oakland 94609
3884	Susan Hugo	Station 374	6407 Telegraph Avenue Oakland 94609
3626	Susan Hugo	Station 6148	5131 Shattuck Avenue Oakland 94609
3890	Barney Chan	Station 2107	3310 Park Blvd. Oakland 94610
3854	Barney Chan	Station 4494	566 Hegenberger Road Oakland 94621
3793	Susan Hugo	Station 2169	889 W. Grand Ave. Oakland 94607
3858	Barney Chan	Station 2035	1001 San Pablo Avenue Albany 94706
0000	Scott Seery	Station 601	712 Lewelling Blvd. San Leandro 94579

ARCO STID

5/11/92

785 E. Stanley

Livermore

94555

Addendum to Work Plan

B-9 & B-10 soil boring around wastewater tank

B-11 boring down gradient of wastewater tank & install VW9

✓ Upon review & approval of ^{addendum to} WP
* of site safety plan will be submitted

MW-4 (March 1992 sampling) no groundwater present

MW-1 & MW-4 = dry

March 1992 - gradient to NE

MW-1 & MW-3 higher TDS than March samples

MW-1 for TOC & TPH

✓ Submit boring log sample every 5 ft.

~~MW-9~~ B-9 to

DATE: 4/8/92
TO : Local Oversight Program
FROM: ESM
SUBJ: Transfer of Eligible Oversight Case

Site name: ARCO # 6113
Address: 785 E Stanley Blvd city Livermore zip 94550
Closure plan attached? Y N DepRef remaining \$ _____
DepRef Project # _____ STID #(if any) 3883
Number of Tanks: 1 removed? Y N Date of removal Feb 1, 89 Jan 26 1989
Leak Report filed? Y N Date of Discovery 1/26/89
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
LUFT category 1 2 3 * H S C A R W G O
Briefly describe the following:
Preliminary Assessment Workplan submitted 7/18/89
Remedial Action _____
Post Remedial Action Monitoring _____
Enforcement Action _____

MW Benzene at 3ppb, TPH g up to 0.17ppm (10/12/89)
soil from indrial tank pull 1700 ppm TOG

P.O.
Atlantic Richfield Co.
PO Box 2485
Los Angeles, 90051

ENVIRONMENTAL BIO-SYSTEMS
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY

SITE ADDRESS:

CLIENT:

Lewis Bay St. Auto Services
1127 Lincoln Ave.
Alameda, CA

Leo Pagano
EBS JOB NUMBER:
#021-082

DATE SAMPLED: 12/12/89

Lab Used: Anamatrix

HMLT# 151

SAMPLE #: MATRIX: ANALYSIS:

TURN-
AROUND

1A-D soil TPH-gas, BTEX 24 hr.
(Composite)

Sampling Performed By T. Babcock
Sampling Completed At 1:45 AM/PM

Released By:

Accepted By:

Date/Time

[Signature]

Tyhi Hernandez

3:00
12/12/89
11
11



January 10, 1992

DEPARTMENT OF ENVIRONMENTAL HEALTH
80 Swan Way, Rm. 210
Oakland, CA 94621
(415) 271-4300

Mr. Joel Coffman
RESNA
3315 Almaden Expressway, Suite 34
San Jose, CA 95118

**RE: ARCO Station 6113, 785 East Stanley Boulevard,
Livermore, California 94550**

Dear Mr. Coffman:

This department has completed its review of the Work Plan for Additional Subsurface Investigation and Vapor Extraction Test (October 17, 1991) and the Third Quarter 1991 Groundwater Monitoring Report for the referenced site.

The soil and groundwater investigation being conducted at the site initially started to determine the extent of the unauthorized release associated with the former waste oil tank (removed in 1/26/89). However, gasoline constituents in addition to total oil and grease were found in the monitoring wells. MW-4 showed 3,500 ppb TPHg (2/21/91) and 1,400 ppb TPHg (5/20/91).

The workplan is acceptable provided the following conditions are met:

- 1) Please clarify the number of underground storage tanks currently operating at the site. According to your reports and site description, there are four underground storage tanks. However, our records showed that only three underground storage tanks are registered with this office.
- 2) Additional soil borings are required to define the lateral extent of the waste oil contaminants. Elevated levels of oil and grease (1,100 ppm) remain at the site in the vicinity of the station building. Advancement of soil borings around the former waste oil tank (one in the southeast and one in the southwest) is necessary to complete the waste oil contaminant definition.
- 3) Directional variations in the groundwater gradient at the site (180 degrees at the most) have been documented. Monitoring of groundwater elevations must occur on a monthly basis.

Mr. Joel Coffman
RE: ARCO Station 6113, 785 E. Stanley Blvd., Livermore
Page 2 of 2
January 10, 1992

- 4) Please submit a copy of the site safety plan to this office.
- 5) All applicable permit requirements from other regulatory agencies must be followed.
- 6) Analytical result for total oil and grease (TOG) during the May 20, 1991 sampling event showed <75,000 ppb. The Tri-Regional Board's Guidelines (August 1990) requires a quantitation reporting limit of 5,000 ppb in water for TOG analysis. This detection limit should be followed.
- 7) The extent of groundwater contamination at the site has not been completely delineated. MW-3 showed increasing levels of TPHg, benzene, toluene, ethylbenzene and xylenes during the last two sampling events (2/21/91 and 5/20/91). MW-4 detected 1,400 ppm TPHg (5/20/91). MW-3 and Mw-4 were dry during the monthly groundwater elevation measurement of 9/12/91. Additional groundwater monitoring wells must be installed downgradient of the former waste oil tank at the site and groundwater samples must be analyzed for TPHg, BTEX, TPHd and TOG.

Should you have any questions concerning this letter, please contact me at (510) 271-4320.

Sincerely,

Susan L. Hugo

Susan L. Hugo
Hazardous Materials Specialist

cc: Rafat A Shahid, Asst. Agency Director, Environmental Health
Charles Carmel, ARCO Products Company
Eddy So, San Francisco Bay RWQCB
Mark Thomson, Alameda County District Attorney's Office
Danielle Stefani, City of Livermore Fire Department
Files:

1/8/92

Joel Coffman

1) only 3, 1200 G UGT'S are at the site not 4

2) changed of gov direction 380° at permits must be site applicable

3) Sampling of 5/20/91 TOG reported as ~~75,000~~ ppb MW1 → MW4

4) no third @ (8/13/91) analysis although only 1 well MW-4 was dry at that time

5) copy of the Site Safety plan (Feb 1991)

6) Need additional Soil Tracing to define lateral extent of waste oil containi SE @ SW of two tanks

Leaking contamination WO

at levels → risk assessment feasibility study

Cap - prevent migrating off site

deed restriction

↳ are these hazardous levels.

applicable requirements
permits from other
applicable agency
regulatory
must be followed

785 E. Stanley Blvd.

- 6 months behind
off site ^{study} investigation must be in concurrence
- interim remediation if FPC
 - Temperature in 50 ft deep
 - pumping system (rate)
 - continuous boring
 - sample TOG → why
 - Check work plan by Jan 1, 1993
 - report submission

1/3/92

ARCO

785 E. Stanley Blvd. Livermore

3 UGT'S at site currently

- #1 12000 G Leak (installed 1983 single walled tank)
- #2 12000 G Reg (1984) double walled
- #3 12000 G Reservoir (1984) double walled

280 Gallon Waste Oil / tank removed 1989 - Jan 26 TPHd
 L of excavated to 7.5 ft deep samples 160-170 ppm TOG, 0-700 ppm
 L further excavation of lateral & 1 ft vertical samples (8 1/2 ft)
 ND - 7100 ppm TOG, ND - 800 ppm TPHd

4/16/91 Limited subsurface emission investigation
 related to former waste oil tank

B-4 MW-4 (27 ft.)

↳ ND for TOG but has HC

up gradient } MW-1 ND for TPHg & TOG but increased in B
 MW-2 ND for TPHg TOG
 MW-3 ND for TPHg TOG

down gradient } MW-4 ND for TOG, 3500 ppm TPHg

conclusions: 1 TOG delineated laterally but
 not laterally (under the bldg. what
 viable?)

- 2 TOG ND in groundwater
- 3 TPHg present in groundwater
- 4 define vertical & lateral extent of TPHg in groundwater.

Why 4,000 ppm TPHg used in

4/23/91

1st Q Monitoring Report

Hot. MW1 - 1.2 ppb B → increased since last time.
* MW4 - 410 ppb B, 3500 TPHg, ND TOG
Ladown gradient.

MW1 > ND for TOG & TPHg Up or cross gradient
MW3

7/11/91

2nd Q Monitoring Report

* Ground water direction changed 80°
from SW (5/10/91) to east SE (6/20/91)
GW decreased 13 1/2 ft
maybe due to pumping of nearby
existing irrigation wells, producing
artificial temporary change in GW direction
& direction of flow.
MW-4 noticeable odor

MW1 ND = BTX & E + TPHg

MW2 ND = BTX & E + TPHg

MW3 97 ppb TPHg, 91.3 ppb Benzene

MW4 1400 ppb TPHg, 150 ppb Benzene

→ Benzene increased since last sampling
because ND

conclusion: ① TOG - ND in GW

② TPHg in GW need to delineate

③ increased TPHg in MW3 gasoline
in GW migrating across the site

MW 4 - dry (6/20/91)
changed in GW ^{flow} direction

TDG reported as 75000 ppb in all
4 wells why

10/18/91 3rd Q GW Monitoring
Quarterly Groundwater monitoring Report

Gradient - 6/20/91 east

7/25/91 east NE

8/13/91 east SE

9/12/91 not determined, 2 wells were

dry

GW elevation decreased 10 to 18 ft (5/20 - 8/13/91)

Decreasing GW elevations due to dry season
& possibly pumping of nearby wells for
irrigation.

Requesting monthly monitoring of GW elevation
& quarterly sampling of GW when possible

MW - 3 dry 9/12/91

MW - 4 dry 6/20/91, 8/13/91, 9/12/91

for 3rd Q 8/13/91 no ~~tests~~ ^{samples} were not
analyzed although only 1 well
(MW 4) was dry.



A RESNA Company

RESNA

Working To Restore Nature

3315 Almaden Expressway, Suite 34
San Jose, CA 95118
Phone: (408) 264-7723
Fax: (408) 264-2435

December 31, 1991
1231shgo

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Subject: Request for Review of Work Plan for Additional Subsurface Investigation and Vapor Extraction Test at ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California.

Dear Ms. Hugo:

This letter is submitted to request your review and any comments you may have concerning the subject Work Plan submitted to your agency by RESNA on October 17, 1991. To date, we haven't received any response to the proposed work outlined in the subject Work Plan and are currently awaiting either your comments or approval to proceed.

If you have any questions or comments, please call us at (408) 264-7723. Thank you.

Sincerely,
RESNA

Joel Coffman
Project Geologist

cc: Chuck Carmel, ARCO Products Company

21-18-91
Caddy So.

Ms 10 →
May 16, 1989

Geo -
185 E. Starling

Additional →
Debris site
Oct. 21,

need 2 more soil borings around
the waste oil tank
groundwater very ^{SW} NE
380

additional 4 to 5 more wells
must be on gradient of
April SE of waste oil tank } Additional
SW of waste oil tank } more
ground water } soil borings
property line →

ARCO Products Company
17315 Studebaker Road
Cerritos, California 90701-1488
Telephone 213 404 5300

Mailing Address: Box 6411
Artesia, California 90702-6411



91 OCT 31 11:27

October 29, 1991

Mr. Paul M. Smith
Hazardous Materials Specialist
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94621

Certified Mail

RE: UST PERMITS

Dear Mr. Smith:

Due to a major reorganization of Arco Products Company, our Northern California office has been closed. Consequently, all environmental matters and permit coordination are now being handled in the Environmental, Health, and Safety Department in the Los Angeles office.

Our files for Arco facilities in Alameda County contain the attached locations. According to our records, please note the following relative to these locations:

- All Underground Storage Tank permit fees are current.
- A and B forms have been submitted to your office and copies are on file in our office of these forms.
- The following two locations have physical Underground Storage Tank permits issued for a five-year duration, expiring in 1993:

Arco Facility #4494
566 Hegenberger Rd.
Oakland

Arco Facility #6002
6235 Seminary Ave.
Oakland

Mr. Smith
October 29, 1991
Page 2

It is my understanding that the remaining 16 facilities require an inspection to be done by your office in order for an Underground Storage Tank permit to be issued. Would you please provide me with scheduled dates for inspections to be done at these facilities by your agency.

For future reference, please send all Underground Storage Tank correspondence, renewals, and permits to my attention at the above address.

If you have any questions regarding these matters, I would be pleased to respond to them. I can be reached at 213/404-5347.

I look forward to hearing from you.

Sincerely,

A handwritten signature in cursive script that reads "Judy L. Mason". The signature is written in black ink and is positioned above the typed name.

Judy L. Mason
Permit Coordinator
Environmental, Health, and Safety

Attachment

ARCO PRODUCTS COMPANY
 FACILITY LIST - LOS ANGELES REGION
 BY STATE COUNTY
 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAIME & LEONORA ABADAM	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00771	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY	CA 94706	MARIN/SAN PABLO AVE	415-525-1362
02107	PRITINDER ARORA	3310 PARK BLVD.	OAKLAND	CA 94610	MACARTHUR/PARK BLVD	415-532-1716
02112	JAVAD ROOSHAN	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL N ROOSHAN	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SEROY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

ARCO PRODUCTS COMPANY
 FACILITY LIST - LOS ANGELES REGION
 BY STATE COUNTY
 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

FAC	DEALER	ADDRESS	CITY/STATE	ZIP	CROSS STREET	PHONE
00276	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND	CA 94605	10TH AVE/MACARTHUR B	415-635-4641
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	OAKLAND	CA 94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA 94550	3RD ST/S LIVERMORE A	415-449-1448
00608	JAIME & LEONORA ABADAM <i>Sgr ✓</i>	17601 HESPERIAN BLVD	SAN LORENZO	CA 94580	HACIENDA/HESPERIAN B	415-278-2977
00	JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA 94550	PINE/RINCON AVE	415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU	ALBANY	CA 94706	MARIN/SAN PABLO AVE	415-525-1362
02107	PRITINDER ARORA	3310 PARK BLVD.	OAKLAND	CA 94610	MACARTHUR/PARK BLVD	415-532-1716
02112	JAVAD ROOSHAN <i>Sgr ✓</i>	1260 PARK STREET	ALAMEDA	CA 94501	ENCINAL/PARK ST	415-865-7335
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	CA 94546	GROVE/CENTER ST	415-581-1268
02169	RAMESH SOOD	889 W GRAND AVE	OAKLAND	CA 94607	MARKET/W GRAND AVE	415-465-4450
02185	B J A INC	9800 E 14TH ST	OAKLAND	CA 94603	98TH/E 14TH	415-568-0590
04494	KHALIL N ROOSHAN <i>Sgr ✓</i>	566 HEGENBERGER RD.	OAKLAND	CA 94605	EDES/HEGENBERGER RD	415-569-7561
04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD	OAKLAND	CA 94611	WEST/W MACARTHUR BLV	415-658-5000
04977	MICHAEL SEROY	2770 CASTRO VALLEY R	CASTRO VALLEY	CA 94546	WISTERIA/CASTRO VALL	415-582-6919
06002	SAMIR PATEL <i>Sgr ✓</i>	6235 SEMINARY AVENUE	OAKLAND	CA 94605	HWY 580/SEMINARY	415-633-1042
06041	RONALD E TEUTSCH	7249 VILLAGE PARKWAY	DUBLIN	CA 94566	AMADOR/VILLAGE PKWY	415-828-3163
06113	PRESTIGE STATIONS INC 5158	785 E STANLEY BLVD	LIVERMORE	CA 94550	MURRIETTA/E STANLEY	415-449-2024
06148	JIN H KANG	5131 SHATTUCK AVE.	OAKLAND	CA 94609	52ND/SHATTUCK	415-654-3461

ARCO Products Company
Monitoring and Response Plans

County Alameda - Public Health

Facility	Product Tanks		Product Lines		ELECTRONIC Tank Monitor	Probe in Sump	LINE Leak Detector	Used Oil Tank		Monitoring Plan
	DW	SW	DW	SW				DW	SW	
100 MacArthur Blvd. Oakland	PS 2116	✓		✓	✓	✓	✓			I
170 Telegraph Ave. Oakland	SH 351A	✓		✓	✓	✓	✓			I
86 S. Livermore Ave.	SH 498	✓					✓			IVA
7601 Hesperian Blvd. S.F.	PE 1008 5yr	✓		✓	✓	✓	✓	✓		IA
399 Rincon Ave. Liv.	SH 771		✓				✓			III
881 San Pablo, Albany	LS 2035	✓		✓	✓	✓	✓			I
310 Park Blvd. Oak	PS 2107	✓		✓	✓	✓	✓			II B
56000 St. S.F.	2111		✓				✓		✓	III, V
260 PARK ST. ALBANY	SH 2117 5yr	✓		✓	✓	✓	✓			I
2141 Center St. C.V.	SS 2152	✓		✓	✓	✓	✓			I
19 W. Grand Ave. Oak	PB 2169		✓		✓		✓			III
800 E 14th St. Oakland	BC 2185		✓		✓		✓			III
16 Hegenberg Rd. Oak	BC 4945		✓		✓		✓			III
3000 Mac Oakland	SH 4931		✓		✓		✓			III
17700 Castro Valley Blvd.	SB 4977		✓		✓		✓			III
235 Seminary Blvd. Oak	PS 6002 5yr		✓		✓		✓			III
249 Village Parkway Dublin	PA 60A1		✓		✓		✓			III
185 E. Stanley Liv.	SH 6113	✓		✓			✓			IVA
5131 Shattuck Ave. Oak	SH 61AB		✓		✓		✓			III

SH-7 PB-1
 PS-2 BC-2
 LS-1 RA-1
 PE-1 SS-2

* # 566 Hegenberg Rd - approved closure & installation plan site contaminated.

By permit Remediation



Alameda County
District Attorney's Office
John J. Meehan, District Attorney

~~PLEASE PRINT NAME AND ADDRESS~~

~~TO:~~

568-3706

Fax Phone Number

~~NAME:~~

Susan Hugo

~~ADDRESS:~~

Hay Mat

~~ADDRESS:~~

~~Telephone Number:~~

~~FROM:~~

(415) 569-0505

Fax Phone Number

~~DATE:~~

~~CITY/STATE:~~

Transon

~~NO TELEPHONE NUMBER:~~

~~ATTENTION: Please indicate the name of the person to whom the copy should be sent.~~

~~PLEASE PRINT NAME AND ADDRESS~~

Oct 21, 1991

Susan Hugo:

Re: 785 E. Stanley Blvd - Livermore

Dear Susan:

On August 7, 1991, I advised Arco Haz Mat would be contacting Arco re the need for further characterization & remediation at this site. Has this been done?

Arco advised me on July 3, 1991 that they would be submitting a "further assessment" workplan in preparation to determining extent of groundwater contamination. Have they?

Thanks,
Mark

10/16/91

485 E Stanley Blvd. Livermore

1 tank installed 5/1983
2 tanks installed ~~1984~~ 10/1984 Double walled
1 WO tank installed 1969 removed 1988

286 S Livermore Ave.

3 - 12,000 G double walled installed 12/84

3310 Park Blvd Oakland

3 - 12,000 G
 ← one set of permit - single walled
 ← another set permit - double walled
 installed 1981

10/17/91 - * Chevron I - Front Line
tanks removed verify contamination

* 167 S. Livermore ~~Off~~ - 4 UGT
1 UGT w/ Interim permit 10/31/89

Moving Chevron in San Leandro
Sun

August 13, 1991

Notes from Eddie So, RWQCB

report

899 Rincon Ave., Livermore 94550

- FP in MW-2 consistently found since January, 1991
- TPHg in MW-1 is high 98,000 ppb
- Benzene etc. are high
- MW-3 contaminants increasing since last Quarter
- Don't know which person in ACHD is handling the case
- Maybe a suspected release

785 E. Stanley Blvd., Livermore 94550

- TPHg in ^{MW-4} MW-3 migrating across the site
- TPHg appears to impact GW downgradient
- Groundwater gradient flow direction varies monthly *pumping*
- Benzene in groundwater & MW-4 increasing ✓
- TOG in MW1-4 are < 75,000
- Person in charge in ACDH ?

Workplan

Wad

8/6/91

785 E. Stanley Blvd. Livermore 94550

Reported to Mark T. (8/7/91)

Questions: (7/9/91) Arco classic wells installed 1991. } yes
& report will be forth coming. Any truth? } MW installed 2/91

(7-18/91) Reports submitted to agency describing assessment findings of 4/16/91. Further assessment workplans to determine extent of groundwater problem & contamination. } yes, found gasoline contamination

3-12,000 gals UGTs installed 1984
1 waste oil UGT removed 1988.

Precision tests	} on file/submitted	
Product lines		
Leak detectors		
9-16-86		rec'd 10/21/86
2-25-88		rec'd 3/14/88
	3-3-89	rec'd 5/1/89
	2-21-90	rec'd 3/14/91
	3-11-91	rec'd 3/27/91

Monitoring plans submitted - rec'd 3/11/91
but for single walled tanks & have 3 double walled tanks

Waste oil tank removed 1988 - no manifests
submitted unless the manifests you enclosed
with the 2nd quarter ground H2O monitoring
report were for the waste oil tank. - Check w/ Mark

Briggs

Need to check disparities in data with Pratzig
Form A & B - Tank #1 listed as single walled by the other 2 are
double walled. & submitted on 3/5/91.

Quarterly Summaries - only 3rd quarter 1991 submitted, we
rec'd 7/29/91

* Issues to resolve: An emergency plan submitted.
 * Need to address the source of contamination found
 at GW! What was the source? how to understand &
 contain from migrating off site?
 * Why daily inventory reconciliation is adding over 1000
 pounds? How are they going to reduce this?
 * Monitoring for single walled while tanks are
 being replaced.

* Check with
 Pratzig
 *
 *
 *

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input checked="" type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

9/15/01

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME ARCO FACILITY # 6113		NAME OF OPERATOR Prestige Stations Inc. 5158		
ADDRESS 786 E. Stanley Blvd.		NEAREST CROSS STREET Murrietta	PARCEL # (OPTIONAL)	
CITY NAME Livermore,		STATE CA	ZIP CODE 94550	SITE PHONE # WITH AREA CODE 415-449-2024
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY				
TYPE OF BUSINESS <input checked="" type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input type="checkbox"/> 5 OTHER		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS		# OF TANKS AT SITE 3
E. P. A. I. D. # (optional)				

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) Hubbard, Barbara	PHONE # WITH AREA CODE 415-449-2024	DAYS: NAME (LAST, FIRST) ARCO Maintenance	PHONE # WITH AREA CODE (415) 571-2427
NIGHTS: NAME (LAST, FIRST) Hubbard, Barbara	PHONE # WITH AREA CODE 415-373-0417	NIGHTS: NAME (LAST, FIRST) ARCO Maintenance	PHONE # WITH AREA CODE (800) 451-9442

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME ARCO Products Company	CARE OF ADDRESS INFORMATION Environmental Compliance Department		
MAILING OR STREET ADDRESS P.O. Box 5811	<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME San Mateo,	STATE CA	ZIP CODE 94402	PHONE # WITH AREA CODE (415) 571-2482

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER ARCO Products Company	CARE OF ADDRESS INFORMATION Environmental Compliance Department		
MAILING OR STREET ADDRESS P.O. Box 5811	<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME San Mateo,	STATE CA	ZIP CODE 94402	PHONE # WITH AREA CODE (415) 571-2482

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 739-2582 if questions arise.

TY (TK) HQ 44-000506

V. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) Elaine J. Lavine for ARCO <i>E. J. Lavine</i>	APPLICANT'S TITLE Env. Compl. Admin.	DATE MONTH/DAY/YEAR 3/5/01
---	---	-------------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input checked="" type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: 755 E. Stanley Blvd.

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# _____	B. MANUFACTURED BY: <u>Owens Corning</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>5/78</u>	D. TANK CAPACITY IN GALLONS: <u>12,000</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL <input type="checkbox"/> 2 PETROLEUM <input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 4 OIL <input type="checkbox"/> 80 EMPTY <input type="checkbox"/> 95 UNKNOWN	B. <input checked="" type="checkbox"/> 1 PRODUCT <input type="checkbox"/> 2 WASTE
C. <input type="checkbox"/> 1a REGULAR UNLEADED <input type="checkbox"/> 1b PREMIUM UNLEADED <input checked="" type="checkbox"/> 2 LEADED		<input type="checkbox"/> 3 DIESEL <input type="checkbox"/> 4 GASAHOL <input type="checkbox"/> 5 JET FUEL <input type="checkbox"/> 6 AVIATION GAS <input type="checkbox"/> 7 METHANOL <input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED _____		C. A. S. #: _____

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D

A. TYPE OF SYSTEM <input type="checkbox"/> 1 DOUBLE WALL <input checked="" type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER <input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER _____
B. TANK MATERIAL (Primary Tank) <input type="checkbox"/> 1 BARE STEEL <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 10 GALVANIZED STEEL	<input checked="" type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP <input type="checkbox"/> 99 OTHER _____
C. INTERIOR LINING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 2 ALKYD LINING <input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 4 PHENOLIC LINING <input type="checkbox"/> 99 OTHER _____
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 2 COATING <input type="checkbox"/> 91 NONE	<input type="checkbox"/> 3 VINYL WRAP <input type="checkbox"/> 95 UNKNOWN <input checked="" type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC <input type="checkbox"/> 99 OTHER _____

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input checked="" type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER

V. TANK LEAK DETECTION

<input checked="" type="checkbox"/> 1 VISUAL CHECK	<input checked="" type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VAPOR MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>7/78</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING _____ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input type="checkbox"/>
--	--	--

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Stanley Tank</u>	DATE <u>5/78</u>
---	---------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input checked="" type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: 785 E. Stanley Blvd.

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN	
A. OWNER'S TANK I.D.# 2	B. MANUFACTURED BY: Owens Corning
C. DATE INSTALLED (MO/DAY/YEAR) 10/84	D. TANK CAPACITY IN GALLONS: 12,000

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.			
A. <input checked="" type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input checked="" type="checkbox"/> 1a REGULAR UNLEADED
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED
			<input type="checkbox"/> 3 DIESEL
			<input type="checkbox"/> 4 GASAHOL
			<input type="checkbox"/> 5 JET FUEL
			<input type="checkbox"/> 6 AVIATION GAS
			<input type="checkbox"/> 7 METHANOL
			<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A-1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED			C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D			
A. TYPE OF SYSTEM	<input checked="" type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input checked="" type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___			
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE				
A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input checked="" type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER

V. TANK LEAK DETECTION				
<input checked="" type="checkbox"/> 1 VISUAL CHECK	<input checked="" type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VAPOR MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input checked="" type="checkbox"/> 6 TANK TESTING	<input checked="" type="checkbox"/> 7 INTERSTITIAL MONITORING	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION		
1. ESTIMATED DATE LAST USED (MO/DAY/YR) N/A	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING _____ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input type="checkbox"/>

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) Elaine J. Lavine for ARCO	<i>E. J. Lavine</i>	DATE 3/5/91
---	---------------------	----------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

ARCO Products Company
2000 Alameda de las Pugas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400



June 21, 1991

Mr. Tom Peacock
Alameda County Public Health Service
Hazardous Materials Section
80 Swan Way, Suite 200
Oakland, CA 94621

SUBJECT: ARCO Facility #6113 (PSI#5158)
785 E. Stanley Blvd.
Livermore, CA 94550

Dear Mr. Peacock:

Enclosed is an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report for the above ARCO facility. Please distribute the report as noted in the attached instructions.

Should you have any questions or comments regarding this matter, please do not hesitate to call me at (415) 571-2429.

Sincerely,

Marty Basques
Maintenance Supervisor

enc.

cc: Env. Compl. File
Maintenance File
PSI - P.Y. Moore

91 JUN 25 PM 12:13

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

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

FOR LOCAL AGENCY USE ONLY
 I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25101.7 OF THE HEALTH AND SAFETY CODE.

REPORT DATE (MM-DD-YY) **06/18/91** CASE # **17552**

SIGNED _____ DATE _____

REPORTED BY
 NAME OF INDIVIDUAL FILING REPORT: **MARTIN BASQUES** PHONE: **(415)-571-2429** SIGNATURE: _____
 REPRESENTING: OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME: **ARCO Products Company**
 LOCAL AGENCY OTHER _____
 ADDRESS: **P.O. Box 5811** **San Mateo** **CA** **94402**
 STREET CITY STATE ZIP

RESPONSIBLE PARTY
 NAME: **ARCO Products Company** UNKNOWN CONTACT PERSON: **MARTIN BASQUES** PHONE: **(415)-571-2429**
 ADDRESS: **PO BOX 5811 ATTN: Env.Compl.Dept.** **San Mateo** **CA** **94402**
 STREET CITY STATE ZIP

SITE LOCATION
 FACILITY NAME (IF APPLICABLE): **ARCO FACILITY 06113** OPERATOR: **PRESTIGE STATIONS INC** PHONE: **(415)-449-2024**
 ADDRESS: **785 E.STANLEY BLVD** **LIVERMORE** **ALAMEDA** **94550**
 STREET CITY COUNTY ZIP
 CROSS STREET: **MURRIETTA/E STANLEY BLVD**

IMPLEMENTING AGENCIES
 LOCAL AGENCY: **ALAMEDA COUNTY PUBLIC HEALTH** AGENCY NAME: _____ CONTACT PERSON: **ED HOWELL SENIOR SP** PHONE: **(415)-271-4320**
 REGIONAL BOARD: **SAN FRANCISCO BAY REGION** CONTACT PERSON: **STEVE LUQUIRE** PHONE: **(415)-464-1255**

SUBSTANCES INVOLVED
 (1) **GASOLINE** NAME: _____ QUANTITY LOST (GALLONS): **1/2 GAL** UNKNOWN
 (2) _____ QUANTITY LOST (GALLONS): _____ UNKNOWN

DISCOVERY/TREATMENT
 DATE DISCOVERED (MM-DD-YY): **06/18/1991** HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS
 TANK TEST TANK REMOVAL OTHER: **CUSTOMER REPORTED**
 DATE DISCHARGE BEGAN (MM-DD-YY): **06/18/1991** UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURE
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: **06/18/1991** OTHER: **SHUT OFF PUMP**

SOURCE/CAUSE
 SOURCE OF DISCHARGE: TANK LEAK UNKNOWN OTHER _____ CAUSE(S): OVERFILL RUPTURE/FAILURE SPILL
 PIPING LEAK OTHER _____ CORROSION UNKNOWN OTHER: **LEAKING VALVE**

CASE TYPE
 CHECK ONE ONLY: UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
 CHECK ONE ONLY: NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION
 LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS
 REMEDIATION PLAN CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) CLEANUP UNDERWAY

REMEDIAL ACTION
 CHECK APPROPRIATE ACTION(S): EVACUATE AND DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)
 CAP SITE (CD) EVACUATE AND TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)
 CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SUPPLY (VS)
 VACUUM EXTRACT (VE) OTHER (OT) _____

COMMENTS
CUSTOMER REPORTED PUMP LEAKING. DEALER SHUT OFF SAFETY VALVE. FIRE DEPT. RESPONDED. LEAKING VALVES REPAIRED UNDER PUMP. CONTAMINATED PEA GRAVEL PUT IN BUCKET TO AERATE. ALAMEDA COUNTY ENV. HEALTH AND OES NOTIFIED.

Retail Marketing

Date of incident 6-18-91 Time of incident 8:00 P.M. Date of report 6-19-91

Address (street, city, state) 785 E. STANLEY Blvd Livermore Facility number 06113 LD CD Region S.F.

1. Description of Incident
customer told attend inside store pump Leaking gas.

2. Corrective action taken (including spill containment and clean-up action)
Dealer called ARCO Emergency and Fire department.

They shut-off SAFETY VALVE under pump. ALSO B/R MAINTENANCE REPAIRED LEAKING VALVES under pump. Dug out pete

3. Did spill reach public waterway GASOLINE and put into 5 GALLON Bucket. Dealer will AIR RATE AT site. Attend clean up spill with Kitty Litter. Put Kitty Litter in 5 GALLON But will AIR RATE.
 Yes No Describe in all cases

4. Was spill confined to Company property if "no," submit ARCO-77
 Yes No Describe in all cases

SUBSTANCES INVOLVED	(1) NAME <u>GASOLINE</u>	QUANTITY LOST (GALLONS) <u>1/2 GALLON</u> <input type="checkbox"/> UNKNOWN
	(2)	<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED <u>06/18/91</u>	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER
	DATE DISCHARGE BEGAN <u>06/18/91</u> <input type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER <u>REPAIRED PUMP VALVES</u>
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER <u>VALVE LEAK</u>
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input 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	
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CS) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (BT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS)	
COMMENTS	<p>① 800-852-7550 Report No. 17552 - SUB PLANT 2 6/19/91 2:18 P.M.</p> <p>② 271-4320 ALAMEDA = TOM PEACOCK 6-18-91 2:35 P.M.</p>	

Site Brief for A B - 2 1 8 5
for the city of Livermore

printed: 12/28/90
page: 1

ABID/BillID	Name of Site	Site Address	Zip SysEntry S
/L41112	AM/PM Mini Market #5157	286 S. Livermore Ave.	550 10/10/90 C
/L41112	AM/PM Mini Market #5158	785 E. Stanley Blvd.	550 10/10/90 C

AM/PM Mini

Report Total : 2

Status Codes: C=Current/Part2 M=Current/Part1 P=awaiting busPla
 B=ready for Billing A=ready for Billing I=Inactive

*Mike Hogenboom
 Major Eng.*

2535 Capitool Oaks Dr. 140

lac 95833

Site Brief for **U N D E R G R O U N D** **A N K S**
for the City of Castro Valley

as of 12/28/90
pg 1

UTID/ Status BillID	Name of Site	Site Address	#Tanks	PERMITS:
658 C T61043	Arco Station #04977 AM/PM	2770 Castro Valley Blvd. Castro Valley , CA 94546	3	I:09/06/88 F:07/05/88
-0- T61043	C AM/PM Mini Market #5157	286 S. Livermore Ave. Livermore , CA 94550	3	I:09/06/88 F:-0-
-0- T61043	C AM/PM Mini Market #5158	785 E. Stanley Blvd. Livermore , CA 94550	3	I:09/06/88 F:-0-
1237 C TC1238	AM/PM Service Co	251 - 5th Ave. Oakland , CA 94606	1	I:-0- F:-0-

Count = 4

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF
 ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

PSI # 5158
 ARCO # 6113

II, III

Site ID # _____ Site Name Arco AM/PM Minnerd Today's Date 12/26/90

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Strds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 785 E. Stanley Blvd.
 City Livermore Zip 94550 Phone 449-2024

___ MAX AMT stored > 500 lbs. 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- ___ III. Underground Tanks

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25538

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | ___ 1. Permit Application 25284 (H&S) |
| | ___ 2. Pipeline Leak Detection 25292 (H&S) |
| | ___ 3. Records Maintenance 2712 |
| | ___ 4. Release Report 2651 |
| | ___ 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | ___ 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time soils |
| | 3) Daily Vadose
One time soils
Annual tank test |
| | 4) Monthly Groundwater
One time soils |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak det |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily Inventory |
| | 9) Other _____ |
| New Tanks | ___ 7. Precls Tank Test 2643 |
| | Date: _____ |
| | ___ 8. Inventory Rec. 2644 |
| | ___ 9. Soil Testing . 2646 |
| | ___ 10. Ground Water. 2647 |
| | ___ 11. Monitor Plan 2632 |
| | ___ 12. Access. Secure 2634 |
| | ___ 13. Plans Submit 2711 |
| | Date: _____ |
| | ___ 14. As Built 2635 |
| Date: _____ | |

Comments:

Facility has 3 12,000-gallon gasoline tanks, and is supervised by Prestige Station, Inc., a subsidiary of ARCO. Daily inventory reconciliation records on file for all 3 tanks, dating back to 5/90. No stick readings are made on Saturdays, even though gas is pumped 7 days a week. Area supervisor suspects that 2 of the 3 tanks are double-wall, but is not sure. No knowledge of whether tanks have Red Jacket automatic shutdown devices.

NEEDS:

- ① Any double-wall tanks have different monitoring requirements than single-wall tanks, which are not being implemented at this station.
- ② For daily inventory reconciliation, stick readings must be taken and recorded for every day that gasoline is pumped.
- ③ Automatic shutdown device must be installed if not already in place.
- ④ Site manager and PSI Field Supervisor should have full knowledge of tanks II, III and their monitoring system.

Contact: A.D. Lunde
 Title: Field Supervisor
 Signature: A.D. Lunde

Inspector: _____
 Signature: Gilbert M. Wistar

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



November 16, 1990

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Kyle Christie
ARCO Products Co.
P.O. Box 5811
San Mateo, CA 94402

RE: **Quarterly monitoring report and consultant's letter on ARCO station #6113, 785 E. Stanley Blvd., Livermore**

Dear Mr. Christie:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the most recent quarterly report and letter submitted for the above site by Applied Geosystems. The report indicates that levels of total oil and grease in the groundwater cross-gradient and immediately upgradient of the former waste oil tank have returned to "ND," after being detected in the 13 ppm range three months previously. As in previous episodes of sampling, the flow direction of groundwater has remained towards the northeast.

Based on this data, Applied Geosystems has requested that we reconsider our position that additional wells are needed at this site. We are denying this request for the following reasons:

- 12/14/90
- OK
1. Based on the local groundwater gradient, which has remained consistent for each sampling episode, there are no monitoring wells **downgradient** of the former oil tank, and downgradient of the contaminated soil adjacent to it that could not be removed. Installation of downgradient wells is always a requirement once an unauthorized release has been verified.
 - NO 2. There has been no effort to explain the oil and grease contamination found in monitoring well MW-1 (upgradient from the former waste oil pit) and MW-3 (cross-gradient), in June 1990. This was requested in my letter of September 21.

Therefore, as stated previously, we are requiring that additional monitoring wells be installed at the site. More wells must be installed to define the downgradient limits of a potential oil & grease plume (if, in fact, one exists).

The Applied Geosystems letter requested a discontinuance of TPH-diesel as a groundwater monitoring parameter. This is acceptable, since no diesel has been detected in groundwater and there is no diesel sold at the site.

Mr. Kyle Christie
November 16, 1990
Page 2 of 2

Please submit to this office and to the Regional Water Board a work plan addressing the questions and concerns raised in this letter. This work plan is due no later than **December 21, 1990**, and must include a schedule for implementation of specific tasks. Because we are overseeing this site under the designated authority of the Water Board, this constitutes a formal request for technical reports, per Sec. 13267(b) of the California Water Code. Failure to respond in a timely manner could result in civil liabilities under the Water Code of up to \$1,000 per day. Other violations of California law, such as Sec. 25299.37 of the California Health and Safety Code, may also be cited.

OK Because the funds on deposit for this site have nearly been depleted, we require an additional deposit of \$400 to continue county oversight of the case. Please remit a draft, made out to Alameda County and indicating the site address, by December 21, 1990. If you have any questions about this letter, please contact me at 271-4320.

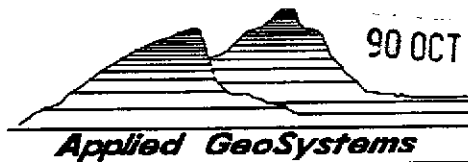
Sincerely,



Gil Wistar
Hazardous Materials Specialist

cc: Marc A. Briggs, Applied Geosystems (3315 Almaden Expy., Suite 34,
San Jose, CA 95118)
Lester Feldman, San Francisco Bay RWQCB
Gil Jensen, District Attorney, Alameda County Consumer and
Environmental Protection Division
Rafat Shahid, Asst. Agency Director, Environmental Health
files





90 OCT 24 AM 10:55

TRANSMITTAL

3315 Almaden Expressway, Suite 34
San Jose, California 95118
(408) 264-7723 FAX (408) 264-2435

TO: MR. GIL WISTAR
ALAMEDA COUNTY HEALTH AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621

DATE: 10/22/90
PROJECT NUMBER: 69028-3
SUBJECT: RESPONSE TO LETTER

FROM: MARC BRIGGS
TITLE: GEOLOGIC TECHNICIAN

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Shop drawings Prints Reports Specifications
 Letters Change Orders _____

COPIES	DATED	NO.	DESCRIPTION
1	10/18/90	69028-3	RESPONSE TO ALAMEDA COUNTY HEALTH AGENCY LETTER DATED SEPTEMBER 21, 1990 REGARDING ARCO STATION 6113, 785 E. STANLEY BOULEVARD, LIVERMORE, CA.

THESE ARE TRANSMITTED as checked below:

- For review and comment Approved as submitted Resubmit ___ copies for approval
- As requested Approved as noted Submit ___ copies for distribution
- For approval Return for corrections Return ___ corrected prints
- For your files _____

REMARKS: cc: MR LESTER FELDMAN (RWQCB)

Copies: 1 to AGS project file no. 69028-3 SJ READER'S FILE

*Revision Date: 10/15/90
*File Name: TRANSMT.PRJ

CONTRACTOR <i>Echemco</i>		CUSTOMER <i>Arco # 6113</i>	
DATE <i>10-19-89</i>	PRODUCT <i>Super Unleaded</i>	LOCATION <i>785 E. Stanley Livermore, Ca.</i>	
TECHNICIAN <i>David Plaskett</i>			

I SUBMERSIBLE PUMP IDENTIFICATION

CHECK MFG. INDICATE MODEL NO. IF KNOWN					RECORD SERIAL #				
RED JACKET	TOKHEIM	GILBARCO	BENNETT	DRESSER WAYNE	A.O. SMITH	BOWSER KEENE	SOUTH WEST	OTHER	
<input checked="" type="checkbox"/>									

II LEAK DETECTOR IDENTIFICATION

CHECK TYPE									
RED JACKET MODEL 116-030 PLD-2SEC HEX HEAD	<input checked="" type="checkbox"/>	RED JACKET MODEL 116-017 DLD 2SEC HEX HEAD	<input type="checkbox"/>	RED JACKET MODEL 116-011A DLD 5SEC ROUND HEAD	<input type="checkbox"/>	TOKHEIM MODEL 585PM DLD 2SEC SQUARE HEAD	<input type="checkbox"/>	OTHER	<input type="checkbox"/>

PRE-TEST CONDITIONS

VOLUME OF PRODUCT FLUSHED THRU LINE _____ GALLONS

OTHER COMMENTS _____

TEST PROCEDURE

<p>LEAK DETECTOR INSTALLED TEST AT DISPENSER</p> <p>III GENERAL LINE AND PUMP INFORMATION</p> <p>RECORD OPERATING PUMP PRESSURE _____ psig. AIR-VAPOR TEST WITH PUMP OFF MEASURE AND RECORD _____ ML</p> <p>IV PRESSURE STEP TEST</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION TURN ON PUMP RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML</p> <p>A) OPEN DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3 GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3 GAL PER MINUTE YES _____ NO _____</p> <p>C) CLOSE DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>	<p>LEAK DETECTOR ISOLATED FROM PRODUCT LINE - TEST AT PUMP PIT REFER TO LDT INSTRUCTIONS</p> <p>III GENERAL PUMP INFORMATION</p> <p>FLUSH LDT TESTOR RECORD OPERATING PUMP PRESSURE _____ psig.</p> <p>IV PRESSURE STEP TEST - SUBMERSIBLE PUMP REMAINS ON THRU-OUT TEST PROCEDURE</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION ROTATE ISOLATOR FULLY (CCW) RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML</p> <p>B) PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3 GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3 GAL PER MINUTE YES _____ NO _____</p> <p>C) PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>		
LEAK DETECTOR TEST	PASS FAIL	LEAK DETECTOR TEST	PASS FAIL



Applied GeoSystems

3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

October 18, 1990
69028-3
1003gwis

Mr. Gil Wistar
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Subject: Response to Alameda County Health Agency letter dated September 21, 1990 regarding ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California.

Mr. Wistar:

This letter, written on ARCO's behalf, is a response to your letter to ARCO, dated September 21, 1990, regarding laboratory results of water samples collected from wells MW-1 and MW-3 at ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California. Levels of total oil and grease (TOG) in the ground water cross-gradient and immediately upgradient (within approximately 10 feet) of the former waste-oil tank were reported to be 13,000 parts per billion (ppb) and 10,000 ppb, respectively, in June 1990. The initial sampling of these wells in September 1989 indicated nondetectable concentrations of TOG. On September 20, 1990, we performed the third quarter 1990 monitoring at the site to verify the June 1990 TOG concentrations. The results of the third quarter 1990 laboratory analyses of water samples from wells MW-1 through MW-3 indicate that concentrations of TOG in these wells are below the laboratory detection limit (5,000 ppb).

Because nondetectable levels of TOG have been reported in the wells at the site 2 of the 3 times they have been sampled, we recommend that additional wells at the site not be installed at this time. We will continue quarterly ground-water monitoring at this site to evaluate trends in TOG and changes in ground-water gradient with time. A copy of the third quarter 1990 monitoring report will be sent to you shortly. We request that you postpone your requirement for preparation of a Work Plan to further delineate TOG in ground water until such a time as levels of TOG necessitating further investigation are verified in the wells at the site.

Response to Alameda County Health Agency
ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California

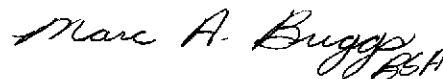
October 18, 1990
AGS 69028-3

A copy of this letter should be forwarded to:


Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Oakland, California 94612

If you have any questions or comments, please call Mr. Greg Barclay at (408) 264-7723.

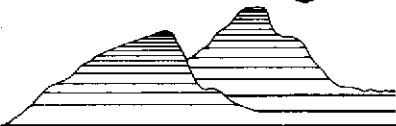
Sincerely,



Marc A. Briggs
Geological Technician



Greg Barclay
Branch Manager



Applied GeoSystems

3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

October 18, 1990
69028-3
1003gwis

01

COPY

Mr. Gil Wistar
Alameda County Health Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Subject: Response to Alameda County Health Agency letter dated September 21, 1990 regarding ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California.

Mr. Wistar:

This letter, written on ARCO's behalf, is a response to your letter to ARCO, dated September 21, 1990, regarding laboratory results of water samples collected from wells MW-1 and MW-3 at ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California. Levels of total oil and grease (TOG) in the ground water cross-gradient and immediately upgradient (within approximately 10 feet) of the former waste-oil tank were reported to be 13,000 parts per billion (ppb) and 10,000 ppb, respectively, in June 1990. The initial sampling of these wells in September 1989 indicated nondetectable concentrations of TOG. On September 20, 1990, we performed the third quarter 1990 monitoring at the site to verify the June 1990 TOG concentrations. The results of the third quarter 1990 laboratory analyses of water samples from wells MW-1 through MW-3 indicate that concentrations of TOG in these wells are below the laboratory detection limit (5,000 ppb).

Because nondetectable levels of TOG have been reported in the wells at the site 2 of the 3 times they have been sampled, we recommend that additional wells at the site not be installed at this time. We will continue quarterly ground-water monitoring at this site to evaluate trends in TOG and changes in ground-water gradient with time. A copy of the third quarter 1990 monitoring report will be sent to you shortly. We request that you postpone your requirement for preparation of a Work Plan to further delineate TOG in ground water until such a time as levels of TOG necessitating further investigation are verified in the wells at the site.

Response to Alameda County Health Agency
ARCO Station 6113, 785 East Stanley Boulevard, Livermore, California

October 18, 1990
AGS 69028-3

A copy of this letter should be forwarded to:

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
1800 Harrison Street
Oakland, California 94612

If you have any questions or comments, please call Mr. Greg Barclay at (408) 264-7723.

Sincerely,

COPY

Marc A. Briggs
Geological Technician

COPY

Greg Barclay
Branch Manager

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



September 21, 1990

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415) 761-1100

01
Mr. Kyle Christie
ARCO Products Co.
P.O. Box 5811
San Mateo, CA 94402

SEP 26 1990
QUALITY CONTROL

RE: "Second quarter" monitoring report for ARCO station #6113, 785
E. Stanley Blvd., Livermore

Dear Mr. Christie:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the above report prepared by Applied Geosystems. It indicates that levels of total oil and grease in the groundwater cross-gradient and immediately upgradient of the former waste oil tank have increased to the 13 ppm range. In addition, the flow direction of groundwater has remained northeasterly, apparently diverging from the general flow in the region.

This information raises the following questions:

1. How can the oil and grease contamination in monitoring wells MW-1 (upgradient) and MW-3 (cross-gradient) be explained?
2. What is the extent of oil and grease contamination in groundwater beneath the site?

We are requiring that additional monitoring wells be installed to answer these questions. Based on the measured groundwater flow direction, there are no wells on the site that are downgradient from the location of the old waste oil tank. Further, the levels of TOG in groundwater in wells MW-1 and MW-3 suggest that there may be a fairly large plume of hydrocarbons beneath the site. More monitoring wells must be installed to define the limits of this plume and infer its direction of movement.

Finally, quarterly sampling means every three months, not at nine-month intervals. According to the Applied Geosystems report, groundwater samples were first taken in September 1989 and then in June 1990. Quarterly sampling and analysis means that another round is to take place this month and at least every three months into the future.

Please submit to this office and to the Regional Water Board a work plan addressing the questions and concerns raised in this letter. This work plan is due no later than October 22, 1990, and should include a schedule for implementation of specific tasks.

785 E. Stanley Blvd. Livermore 94550
Chronology of ~~Geological~~ site (8/19/91)

- 9/21/88 (LR) Reviewed / approved plans - tank destination Erickson
- 1/26/89 (GW) Tank removal (waste oil)
- 2/8/89 (GW) Received analytical results, soils above 1000 ppm
- 2/21/89 (GW) Send out letter requesting P.A.
- 5/3/89 (GW) Received report on site from Pacific Environmental Group, discuss w/ Bob Wenzler - prepare letter requiring monitoring wells at site.
- 5/8/89 (GW) Talk to Lynn White at RW&B site may need to apply for waste discharge requirement from Board if soil contamination above 1,000 ppm remains in place.
- 6/15/89 (GW) George Williams - Applied Systems (408) 264-7723 is new consultant & requested post remediation work plan submission until 7/23/89
- 8/8/89 (GW) Additional deposit received; work plan approved report available October.
- 2/7/90 (GW) Review report - quarterly sampling will be implemented.
- 9/21/90 (GW) Review well sampling report - nice in TOG in 2 wells that appear to not even be downgraded.
Prepare letter requiring more work.
- 11/15/90 (GW) Received letter from consultant & another @ report New sampling data show "NP" in all 3 wells.
consultant therefore requests reconsideration of our requirement for more wells. DENIED.
Send letter stating reasons.

- 1/30/91 (GW) discuss later workplan w/ Mark Briggs - new monitoring well OK, but still no answer to why 6/90 results showed upgraded contamination
- 3/18/91 (GW) Review Q. report: negligible contamination in wells (sample date 12/18/90). Additional well alluded to in report, but still not in place.
- 4/18/91 (GW) Review well installation report. New MW-4 directly downgradient of old w.o. tank shows "ND" for O₂ & BTX₂E but does have gasoline & BTX₂E.
- 8/7/91 (SH) Quarterly report (2nd quarter 1991)
TPH & O₂ & BTX₂E - rd for MW1 & MW2
MW3 = 97 ppb TPH; MW4 = 1,400 ppb TPH
MW3 increased fr. rd to 97 ppb.
TPH & maybe migration off site.

CONTRACTOR <i>Echemco</i>		CUSTOMER <i>Arco # 6113</i>	
DATE <i>10-19-89</i>	PRODUCT <i>Super Unleaded</i>	LOCATION <i>785 E. Stanley Livermore, Ca.</i>	
TECHNICIAN <i>David Plaskett</i>			

I SUBMERSIBLE PUMP IDENTIFICATION

CHECK MFG. INDICATE MODEL NO. IF KNOWN						RECORD SERIAL #			
RED JACKET	TOKHEIM	GILBARCO	BENNETT	DRESSER WAYNE	A.O. SMITH	BOWSER KEENE	SOUTH WEST	OTHER	
<input checked="" type="checkbox"/>									

II LEAK DETECTOR IDENTIFICATION

CHECK TYPE							
RED JACKET MODEL 116-030 PLD-2SEC HEX HEAD	<input checked="" type="checkbox"/>	RED JACKET MODEL 116-017 DLD 2SEC HEX HEAD		RED JACKET MODEL 116-011A DLD 5SEC ROUND HEAD		TOKHEIM MODEL 585PM DLD 2SEC SQUARE HEAD	OTHER

PRE-TEST CONDITIONS

VOLUME OF PRODUCT FLUSHED THRU LINE _____ GALLONS

OTHER COMMENTS _____

TEST PROCEDURE

<p>LEAK DETECTOR INSTALLED TEST AT DISPENSER</p> <p>III GENERAL LINE AND PUMP INFORMATION</p> <p>RECORD OPERATING PUMP PRESSURE _____ psig. AIR-VAPOR TEST WITH PUMP OFF MEASURE AND RECORD _____ ML</p> <p>IV PRESSURE STEP TEST</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION TURN ON PUMP RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML</p> <p>B) OPEN DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3 GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3 GAL PER MINUTE YES _____ NO _____</p> <p>C) CLOSE DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>	<p>LEAK DETECTOR ISOLATED FROM PRODUCT LINE - TEST AT PUMP PIT REFER TO LDT INSTRUCTIONS</p> <p>III GENERAL PUMP INFORMATION</p> <p>FLUSH LDT TESTOR RECORD OPERATING PUMP PRESSURE _____ psig.</p> <p>IV PRESSURE STEP TEST - SUBMERSIBLE PUMP REMAINS ON THRU-OUT TEST PROCEDURE</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION ROTATE ISOLATOR FULLY (CC/W) RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML</p> <p>B) PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3 GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3 GAL PER MINUTE YES _____ NO _____</p> <p>C) PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>
<p>LEAK DETECTOR TEST</p> <p>PASS _____</p> <p>FAIL _____</p>	<p>LEAK DETECTOR TEST</p> <p>PASS _____</p> <p>FAIL _____</p>

CONTRACTOR Echemco		CUSTOMER Arco # 6113	
DATE 10-19-89	PRODUCT Regular	LOCATION 785 E. Stanley Livermore, Ca.	
TECHNICIAN David Plaskett			

I SUBMERSIBLE PUMP IDENTIFICATION

CHECK MFG. INDICATE MODEL NO. IF KNOWN					RECORD SERIAL #				
RED JACKET	TOKHEIM	GILBARCO	BENNETT	DRESSER WAYNE	A.O. SMITH	BOWSER KEENE	SOUTH WEST	OTHER	
X									

II LEAK DETECTOR IDENTIFICATION

CHECK TYPE								
RED JACKET MODEL 116-030 PLD-2SEC HEX HEAD	X	RED JACKET MODEL 116-017 DLD 2SEC HEX HEAD		RED JACKET MODEL 116-011A DLD 5SEC ROUND HEAD		TOKHEIM MODEL 585PM DLD 2SEC SQUARE HEAD		OTHER

PRE-TEST CONDITIONS
 VOLUME OF PRODUCT FLUSHED THRU LINE _____ GALLONS

OTHER COMMENTS _____

TEST PROCEDURE

<p>LEAK DETECTOR INSTALLED TEST AT DISPENSER</p> <p>III GENERAL LINE AND PUMP INFORMATION</p> <p>RECORD OPERATING PUMP PRESSURE <u>30</u> psig. AIR-VAPOR TEST WITH PUMP OFF MEASURE AND RECORD <u>350</u> ML</p> <p>IV PRESSURE STEP TEST</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION TURN ON PUMP RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE <u>5</u> SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION</p> <p>A) MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST <u>200</u> ML</p> <p>B) OPEN DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES <input checked="" type="checkbox"/> NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3GAL PER MINUTE YES <input checked="" type="checkbox"/> NO _____</p> <p>C) CLOSE DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES <input checked="" type="checkbox"/> NO _____</p>	<p>LEAK DETECTOR ISOLATED FROM PRODUCT LINE - TEST AT PUMP PIT REFER TO LDT INSTRUCTIONS</p> <p>III GENERAL PUMP INFORMATION</p> <p>FLUSH LDT TESTOR RECORD OPERATING PUMP PRESSURE _____ psig.</p> <p>IV PRESSURE STEP TEST - SUBMERSIBLE PUMP REMAINS ON THRU-OUT TEST PROCEDURE</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION ROTATE ISOLATOR FULLY (CCW) RECORD TIME IN SECONDS GAUGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION</p> <p>A) MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML</p> <p>B) PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3GAL PER MINUTE WILL BE OBSERVED. DOES GAUGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3GAL PER MINUTE YES _____ NO _____</p> <p>C) PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GAUGE RETURN TO COLORED ZONE YES _____ NO _____ GAUGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>
<p>LEAK DETECTOR TEST</p> <p>PASS <input checked="" type="checkbox"/> FAIL</p>	<p>LEAK DETECTOR TEST</p> <p>PASS <input type="checkbox"/> FAIL</p>

CONTRACTOR Fhemco		CUSTOMER Arco 6113	
DATE 10-19-89	PRODUCT Unleaded	LOCATION 785 E. Stanley Livermore, Ca.	
TECHNICIAN David Plaskett			

I SUBMERSIBLE PUMP IDENTIFICATION

CHECK MFG. INDICATE MODEL NO. IF KNOWN					RECORD SERIAL #				
RED JACKET	TOKHEIM	GILBARCO	BENNETT	DRESSER WAYNE	A.O. SMITH	BOWSER KEENE	SOUTH WEST	OTHER	
X									

II LEAK DETECTOR IDENTIFICATION

CHECK TYPE			
RED JACKET MODEL 116-030 PLD-2SEC HEX HEAD	X	RED JACKET MODEL 116-017 DLD 2SEC HEX HEAD	
		RED JACKET MODEL 116-011A DLD 5SEC ROUND HEAD	
		TOKHEIM MODEL 585PM DLD 2SEC SQUARE HEAD	
		OTHER	

PRE-TEST CONDITIONS

VOLUME OF PRODUCT FLUSHED THRU LINE _____ GALLONS

OTHER COMMENTS _____

TEST PROCEDURE

<p>LEAK DETECTOR INSTALLED TEST AT DISPENSER</p> <p>III GENERAL LINE AND PUMP INFORMATION</p> <p>RECORD OPERATING PUMP PRESSURE <u>29</u> psig. AIR-VAPOR TEST WITH PUMP OFF MEASURE AND RECORD <u>400</u> ML</p> <p>IV PRESSURE STEP TEST</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION TURN ON PUMP RECORD TIME IN SECONDS GUAGE NEEDLE REMAINS IN COLORED ZONE <u>3</u> SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION A) MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST <u>200</u> ML B) OPEN DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3GAL PER MINUTE WILL BE OBSERVED. DOES GUAGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES <input checked="" type="checkbox"/> NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3GAL PER MINUTE YES <input checked="" type="checkbox"/> NO _____ C) CLOSE DISPENSER NOZZLE OR PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GUAGE RETURN TO COLORED ZONE YES _____ NO _____ GUAGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES <input checked="" type="checkbox"/> NO _____</p>	<p>LEAK DETECTOR ISOLATED FROM PRODUCT LINE - TEST AT PUMP PIT REFER TO LDT INSTRUCTIONS</p> <p>III GENERAL PUMP INFORMATION</p> <p>FLUSH LDT TESTOR RECORD OPERATING PUMP PRESSURE _____ psig.</p> <p>IV PRESSURE STEP TEST - SUBMERSIBLE PUMP REMAINS ON THRU-OUT TEST PROCEDURE</p> <p>WITH BOTTOM SELECTOR IN PRESSURE STEP TEST POSITION ROTATE ISOLATOR FULLY (CC/W) RECORD TIME IN SECONDS GUAGE NEEDLE REMAINS IN COLORED ZONE _____ SEC.</p> <p>V 3 GALLON PER HOUR LEAK SIMULATED TEST</p> <p>WITH BOTTOM SELECTOR IN 3 GPH TEST POSITION A) MEASURE AND RECORD VOLUME IN CALIBRATED BEAKER FOR 60 SECOND TEST _____ ML B) PLACE BOTTOM SELECTOR IN DISPENSER NOZZLE POSITION. FLOW RATE OF APPROX. 1 1/2-3GAL PER MINUTE WILL BE OBSERVED. DOES GUAGE NEEDLE MOVE TO LOWER END OF COLORED ZONE YES _____ NO _____ DOES FLOW RATE INCREASE TO APPROX. 1 1/2-3GAL PER MINUTE YES _____ NO _____ C) PLACE BOTTOM SELECTOR IN 3GPH TEST POSITION: GUAGE RETURN TO COLORED ZONE YES _____ NO _____ GUAGE DOES NOT RETURN TO COLORED ZONE YES _____ NO _____ GAUGE GOES TO OPERATING PRESSURE YES _____ NO _____</p>
<p>LEAK DETECTOR TEST PASS <input checked="" type="checkbox"/> FAIL</p>	<p>LEAK DETECTOR TEST PASS <input type="checkbox"/> FAIL</p>

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



July 27, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Kyle Christie
Arco Products Co.
P.O. Box 5811
San Mateo, CA 94403

RE: Arco Service Station #6113, 785 E. Stanley Blvd., Livermore

Dear Mr. Christie:

We have received your consultant's work plan dated July 18, 1989. We cannot complete our review of this work plan or of any other materials submitted since the following items are missing or incomplete:

A. Administrative:

1. [] We have not received a deposit for reviewing the report. A deposit of _____ is required. Please make checks payable to Alameda County.
2. [x] We have exhausted your deposit account. Please send a deposit of \$400 to cover costs of remediation oversight.
3. [] Other:

B. Soils Investigation:

1. [] Description of field soil sampling methodology.
2. [] Chemical Methods to be used for sample preparation and analysis (method numbers and references).
pH, GC/FID, PCB
3. [] Drilling Logs.
4. [] Copies of original, signed laboratory reports.
Not signed on each page.
5. [] Detection limits for all parameters analyzed.
6. [] Site map.

C. Groundwater

1. [] Background assessment: cause & location, pollutants, site history, etc.
2. [] Groundwater monitoring well design, installation, development.
3. [] Groundwater sampling methodology.
4. [] Certified Laboratory and DHS Certified number, chain of custody procedures, sample preservation methods, holding times, etc.
5. [] Method used to measure free product thickness.
6. [] Method used to measure groundwater elevations.
7. [] Vertical and lateral definition of soil contamination.
8. [] Local and regional hydrogeology:

Groundwater sensitivity, site specific geology, hydrogeologic setting, nearby surface water descriptions, potential pollutant pathways, hydraulic connections, local gradient evaluation, seasonal fluctuations, aquifer characteristics, soil permeability.
9. [] Groundwater cross-section graphics, gradient maps.
10. [] Groundwater beneficial uses:

Existing beneficial uses, potential beneficial uses, well surveys (municipal, agricultural, domestic), long term fate of contaminants.
11. [] Remediation Activities:

Rationale, soil remediation method and effectiveness, groundwater remediation method and effectiveness, impact on beneficial uses.
12. [] Remediation Completion:

Final clean-up levels sought, monitoring program verification criteria (frequency, duration, statistical methods), impact of residual pollutants on beneficial uses.

D. Site Safety Plan

1. [] Elements of Site Safety Plan as specified by 29 CFR 1910.120 (See attached).
2. [] Other.

E. Other

1. [] Reports referred to in your plan have not been supplied to this office.
2. [] Reference list to the reports cited in document.
3. [] Data format: correlation of lab sample numbers, drilling log sample numbers, cross references, incomplete tables, etc.
4. [] Primary contact person for project.
5. [] Name and address of organization or persons funding this report.
6. [] DHS Laboratory Certification Number.
7. [] Statement from certified laboratory that analytical methods used in this report have been certified by DHS.
8. [] Quality control and assurance data regarding the analytical information submitted.
9. [] Signature of report by registered engineer or professional (Sections 6735, 7835, 7835.1 of Business & Professional Code; Rule 415 of Professional and Vocational Regulations.).
10. [] Curriculum vitae for persons involved in project.
11. [] Other.

If you have any questions on this matter, please contact Gil Wistar, Hazardous Materials Specialist, at 415/271-4320.

Sincerely,

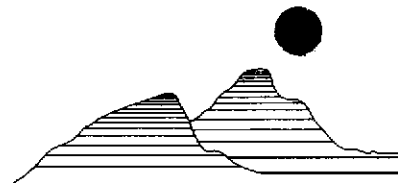
Rafat A. Shahid

Rafat A. Shahid, Chief
Hazardous Materials Division

RAS:LM:mam

rev 6/89

6/23/89



ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

Applied GeoSystems 3315 Almaden Expressway, Suite 34, San Jose, CA 95118 (408) 264-7723

• FREMONT • IRVINE • HOUSTON • BOSTON • SACRAMENTO • CULVER CITY • SAN JOSE

June 15, 1989
0615gwis

Mr. Gil Wistar
Hazardous Materials Specialist
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

Subject: Verification of schedule extension for preparation of a Work Plan for ARCO Service Station No. 6113, 785 East Stanley Boulevard, Livermore, California.

Dear Mr. Wistar:

As requested by ARCO Products Company, we are currently preparing a Work Plan for a subsurface investigation at the above-referenced site. This letter is to verify the schedule extension for Work Plan preparation as discussed with you during our telephone conversation on June 15, 1989. As explained during that conversation, we experienced a delay in receiving a report summarizing work previously performed at the site. It is our understanding that the schedule for Work Plan preparation, will be extended from June 23, 1989 (as set in your May 4, 1989 letter to ARCO) to July 24, 1989. We will make every effort to complete the Work Plan before July 24, 1989.

Please call me at (408) 264-7723, if you have any questions regarding this verification of schedule extension.

Sincerely,
Applied GeoSystems

George L. Williams
Assistant Project
Geologist

cc: Kyle Christie, ARCO

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



*New site
waste oil tank
removal*

~~file~~

Certified Mailer #P 833 981 392

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

May 4, 1989

MAY 08 1989

DW

Mr. Kyle Christie
Atlantic Richfield Co.
P.O. Box 5811
San Mateo, CA 94403

RE: ARCO Service Station #6113, 785 E. Stanley Blvd., Livermore

Dear Mr. Christie:

The Alameda County Department of Environmental Health, Hazardous Materials Division, has reviewed your consultant's report on the site shown above. We are not convinced that your approach to the existing contamination will prevent the degradation of groundwater beneath the site, and therefore are requiring further work and/or investigation at this site.

Mr. Robert Wenzlau of Pacific Environmental Group has indicated that soil remaining in the ground at the north end of the tank pit is contaminated above 1,000 ppm of hydrocarbons, but that this soil's removal would threaten the stability of the station building. As a result, he recommends leaving this contaminated soil in place. Because of these structural considerations, we are willing to waive the requirement of removing soil contaminated at hazardous waste concentrations. However, this soil represents a source of potential groundwater contamination; to ensure that migration to the water table does not occur, a groundwater monitoring program should be initiated.

Three monitoring wells should be installed within 10 feet of the location of the former waste oil tank. If you can verify the site-specific groundwater flow direction, one monitoring well in the downgradient direction will suffice. If you can demonstrate that the soil under the station building cannot migrate to groundwater, then we may reconsider this monitoring well requirement. Such site-specific factors as depth to seasonal high groundwater or the existence of laterally continuous clay layers in the vadose zone would be useful in this regard. In our opinion, the impermeable building foundation is not sufficient to prevent the movement of hydrocarbons to groundwater.

We are requesting that the work described above be completed by **June 23, 1989**. Please also send to this office, as soon as possible, all signed manifests documenting the disposal of excavated soil to date.

Mr. Kyle Christie
May 4, 1989
Page 2 of 2

In addition, we have still not received the \$500 deposit requested in the two previous letters to ARCO. This deposit is necessary for the County's oversight of remediation activities, and is only drawn upon when a Hazardous Materials Specialist spends time on this specific project. Funds deposited for the initial tank removal have been exhausted.

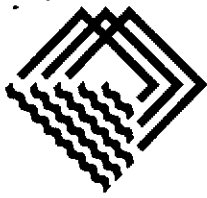
If you have any questions about this letter, please contact Gil Wistar, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid

Rafat A. Shahid, Chief
Hazardous Materials Division

cc: Robert Wenzlau, Pacific Environmental Group
Dyan Whyte, RWQCB
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Agency



PACIFIC
ENVIRONMENTAL
GROUP, INC.

April 26, 1989
Project No. 330-53.01

Mr. Rafat A. Shahid
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

RE: ARCO Station No. 6113
785 East Stanley Boulevard
Livermore, California.

Dear Mr. Shahid:

This letter is in response to the "Second Notice of Violation" sent to ARCO on April 7, 1989 by the Alameda County Health Care Services Agency. Transmitted herewith is a report prepared by Pacific Environmental Group, Inc. (PACIFIC) for ARCO, describing the procedures and results of the soil sampling performed relative to the removal of the waste oil tank at the subject site.

The findings of the report are summarized below:

- o A soil sample collected below the former waste oil tank at a depth of 8-1/2 feet was found to contain non-detectable concentrations of high-boiling hydrocarbons and oil and grease. Thus, the maximum vertical extent of the soils containing hydrocarbons was determined and removed by excavation.
- o No visual or olfactory evidence for hydrocarbons in the soil was noted along the east, south, or west side walls of the excavation. Soils were noted to be darker along the northern side wall of the excavation, and were sampled. Analytical results from a sample collected adjacent to the station building showed that the north side wall still contains petroleum hydrocarbons at levels of up to 1,100 ppm oil and grease. Additional soil excavation was and is not possible without threatening the integrity of the station building.

Project No. 330-53.01

April 26, 1989

Page 2

PACIFIC and ARCO determined that no further remedial activities associated with this tank removal are necessary based on the following factors:

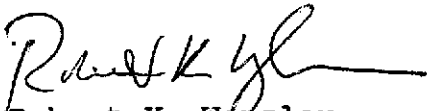
- o Residual hydrocarbons located beyond the north sidewall are believed to be limited to two feet beyond the north sidewall (based on findings at other sidewalls) and vertically to a maximum depth of 8-1/2 feet.
- o The detected amounts of priority pollutants were well below levels designated to protect groundwater that the Regional Water Quality Control Board (RWQCB) suggests when these compounds are detected in the soil.
- o According to information provided by the Alameda County Flood Control and Water Conservation District, at least 40 feet of unsaturated soils separates the detected oil and grease from the groundwater underlying the site (although significant fluctuations may occur due to nearby groundwater recharge facilities).
- o The current building foundation limits recharge, thus reducing the leaching of the oil and grease, which still exists beneath the building.

In consideration of the findings of the soil sampling and analysis, ARCO intends no further action relative to the removal of the waste oil tank and affected soils.

If you have any questions regarding the accompanying report or this letter, please call.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



Robert K. Wenzlau
Senior Engineer
RCE 37395

enclosures

cc: Kyle Christie, ARCO
Chris Winsor, ARCO
Don Dalke, Regional Water Quality Control Board-Bay Area



PACIFIC
ENVIRONMENTAL
GROUP, INC.

April 25, 1989
Project 330-53.01

Mr. Kyle Christie
ARCO Petroleum Products Company
P.O. Box 5811
San Mateo, CA 94403

Re: ARCO Station No. 6113
785 East Stanley Boulevard
Livermore, California

Dear Mr. Christie:

Pacific Environmental Group, Inc. (PACIFIC) is pleased to submit this report which describes the work performed for the removal of one waste oil tank at the subject site. PACIFIC's tasks included soil sampling during the removal of the existing tank and during extensions of the excavation, laboratory analysis of the samples, and instruction on the extent of soil removal.

BACKGROUND

ARCO Station No. 6113 is an operating service station and mini market located at 785 East Stanley Boulevard (where it joins with Murrieta) in Livermore, California (Figure 1). A 280-gallon tank located south of the station building was used to store waste oil (Figure 2).

SUMMARY OF WORK

Crosby & Overton, Inc. was contracted by ARCO to perform the construction activities associated with removal and disposal of the existing waste oil tank and nearby soil containing petroleum hydrocarbons. PACIFIC performed soil sampling, soil analysis, and, after evaluating field conditions as well as laboratory results, directed the removal of unsaturated soil containing petroleum hydrocarbons.

An "Underground Tank Closure/Modification" was submitted to Alameda County Health Care Services Agency, Department of Environmental Health by Crosby & Overton on September 20, 1988 and was accepted with modification on September 23, 1988. Tank removal was performed on January 26, 1989 and was witnessed by Mr. Gil Wistar of Alameda County Department of Health Services. Additional soil was excavated on February 3, 1989.

REMOVAL OF EXISTING WASTE OIL TANK AND DEGRADED SOIL

When the 280-gallon waste oil tank was removed on January 26, 1989, PACIFIC noted that the tank and its fill pipe showed no visible signs of leaks. The soil had no product odor, though soil on the north side wall of the excavation was slightly darker than the rest.

To obtain samples at two feet below the tank, a sampling zone specified by Alameda County's tank closure plan, the excavation was extended to approximately 7-1/2 feet below grade. One sample (WO-1) was collected in this zone beneath the center of the tank. A second sample (WOSW-N) was collected from the north side wall at a depth of 5 feet as instructed by Mr. Wistar. Soil removed during the excavation was stockpiled on site for disposal as hazardous waste.

A PACIFIC sampling technician collected the samples from locations marked on Figure 2. A backhoe bucket of native soil was obtained immediately after reaching the desired depth. Approximately three inches of soil was scraped from the surface of the soil in the backhoe bucket, then a clean brass ring was manually driven into the soil. The ends of the tube were covered with aluminum foil, capped with plastic end caps and placed in a sealed glass jar. The samples were labeled and logged onto chain-of-custody forms (enclosed), then immediately placed on ice for transport to International Technology Corporation, a state-certified laboratory in San Jose, California.

The soil samples were analyzed for parameters specified in "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, June 2, 1988." The analyses tested for volatile organic compounds

according to EPA Methods 624 and 8240, semi-volatile organic compounds according to EPA Methods 625 and 8270, high boiling hydrocarbons by extraction with acetone, total oil and grease according to EPA Method 3550, metals according to EPA Method 6010, and low boiling hydrocarbons by a technique taken from EPA Methods 8015, 8020, and 5030. These laboratory methods are described on the enclosed certified analytical reports.

Total oil and grease was detected in W0-1 and WOSW-N at 660 parts per million (ppm) and 1,700 ppm, respectively. High boiling hydrocarbons (calculated as oil) were detected at 60 ppm and 790 ppm, respectively. No volatile organic compounds were detected. The analysis for semi-volatile organic compounds detected nine substances at concentrations ranging from 3.4 ppm to 21 ppm. The detected amounts were well below levels designated to protect groundwater that the Central Valley Regional Water Quality Control Board (RWQCB) suggested when these compounds occur in soil.¹ Chromium, lead and zinc were detected at concentrations ranging from 16 to 61 ppm. These concentrations are well below the RWQCB suggested levels to protect groundwater. A summary of all analytical results is presented on Tables 1 and 2.

On February 3, 1989, PACIFIC directed Crosby & Overton to extend the waste oil tank excavation to a depth of 8-1/2 feet (to remove residual petroleum hydrocarbons detected beneath the tank), and to laterally extend the north side wall 2-1/2 feet (to remove residual petroleum hydrocarbons beyond WOSW-N). All of the slightly darker soil on the north side wall was removed. As with the soil excavated during the waste oil tank removal at this site, no product odor was present in the additional excavated soil. The excavated soil was stockpiled on site for subsequent disposal as hazardous waste.

PACIFIC collected two samples to check for residual petroleum hydrocarbons after the excavation was extended. Sample W0-2 was obtained from the excavation floor at a depth of 8-1/2 feet. Side wall sample WOSW-N2 was taken from the north side wall of the extended pit at an approximate depth of 7 feet. Analyzed for total oil and

¹ Water Quality Goals and Hazardous and Designated Levels for Chemical Constituents, California Regional Water Quality Control Board Central Valley Region, September 1986.

Project No. 330-53.01
April 25, 1989
Page 4

grease and high boiling hydrocarbons, the soil samples contained <10 ppm and 1,100 ppm total oil and grease, respectively. High boiling hydrocarbons (calculated as oil) were detected at <10 ppm and 800 ppm, respectively.

Although analytical results showed that the north side wall still contained petroleum hydrocarbons, additional soil excavation into this wall was not possible because of the wall's proximity to the station building. The pit was backfilled with clean fill to the original grade.

Disposal of the empty tank and excavated soil as hazardous waste was handled by ARCO and Crosby & Overton. The waste was hauled to Chemical Waste Management's Kettleman Hills facility. Hazardous waste manifest documents are maintained by ARCO.

CONCLUSION

The excavation program removed petroleum hydrocarbons in soil, with the exception of soil on the north side wall of the excavation. Total oil and grease was detected in the north side wall soil sample at 1,100 ppm, and high boiling hydrocarbons (calculated as oil) were detected at 800 ppm. The excavation was stopped because further soil removal would have threatened the stability of the station building.

Based on the finding of the investigation, an "Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report" was issued on February 8, 1988.

If you have any questions concerning the content of this report, please call.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.



Robert K. Wenzlau
Senior Engineer
RCE 37395

RKW/jj

enclosures

cc: Chris Winsor, ARCO
Lawrence Seto, Alameda County Department
of Environmental Health
Don Dalke, Regional Water Quality Control Board



ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



07

A.D.

APR 12 1989

QUALITY CONTROL BOARD

Certified mailer #: P 833 981 386

April 7, 1989

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Mr. Chase Jiannalone
Atlantic Richfield Co.
2000 Alameda de las Pulgas
San Mateo, CA 94402

SECOND NOTICE OF VIOLATION

Re: Unauthorized release from underground storage tank, ARCO
Station #6113, 785 E. Stanley Blvd., Livermore, CA

Dear Mr. Jiannalone:

In a letter sent to you on February 21, 1989, the Alameda County Department of Environmental Health, Hazardous Materials Division, requested a proposal and time schedule for completing a site investigation report. As of the date of this letter, this office had received nothing from ARCO. Therefore, this letter constitutes a second notice requesting the materials described below.

Analytical results from soil samples collected from the above site on January 26, 1989 (during tank removal) and on February 3 indicated hydrocarbon contamination above 100 ppm, which is evidence of tank leakage. Title 23 of the California Code of Regulations requires all such unauthorized releases from underground tanks to be reported. An unauthorized release report has been filed per Title 23, and your next step is to initiate further investigation and/or cleanup activities at this site.

First, a preliminary assessment should be conducted to determine the extent of soil and groundwater contamination that has resulted from the leaking tank. The information gathered by this investigation will be used to assess the need for additional actions at the site. The preliminary assessment should be designed to provide all of the information in the format shown in Appendix A (attached) of the Regional Water Quality Control Board (RWQCB's) guidelines.

Until cleanup is complete, the operator or permittee will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports should include

Mr. Chase Jiannalone
April 7, 1989
Page 2 of 2

information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

Soils contaminated at hazardous waste concentrations should be transported by a licensed hazardous waste hauler and disposed of or treated at a facility approved by the California Department of Health Services. Soils contaminated below the hazardous threshold may be managed as nonhazardous, but are still subject to the RWQCB's waste discharge requirements.

A proposal and time schedule for completing the initial site investigation report (Appendix A) should be submitted to this office by May 1, 1989. A report describing the results of the initial site assessment should be submitted by June 1, 1989. Copies of the proposal and report should also be sent to the RWQCB (attention: Dyan Whyte).

You will need to submit an additional deposit of \$500 to cover costs that the Division of Hazardous Materials incurs during remediation oversight. Should you have any questions about this letter or about remediation requirements established by the RWQCB, please contact Gil Wistar, Hazardous Materials Specialist, at 271-4320.

Sincerely,

Rafat A. Shahid

Rafat A. Shahid, Chief
Hazardous Materials Division

RAS:GW:gw: enclosure

cc (without enclosure):

✓ Dyan Whyte, San Francisco Bay RWQCB
Gil Jensen, District Attorney, Alameda County Consumer
and Environmental Protection Agency
files

ALAMEDA COUNTY
HEALTH CARE SERVICES



Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

DAVID J. KEARS AGENCY
~~XXXXXX XXXXXX~~ Agency Director

Certified mailer #: P 833 981 237

Telephone Number: (415) 271-4320

February 21, 1989

CALIFORNIA REGIONAL WATER

LHM FEB 24 1989

Mr. Chase Jiannalone
Atlantic Richfield Co.
2000 Alameda de las Pulgas
San Mateo, CA 94402

02

QUALITY CONTROL BOARD

Re: Unauthorized release from underground storage tank, ARCO
Station #6113, 785 E. Stanley Blvd., Livermore, CA

Dear Mr. Jiannalone:

Analytical results from soil samples collected from the above site on January 26, 1989 (during tank removal) and on February 3 indicated hydrocarbon contamination above 100 ppm, which is evidence of tank leakage. Title 23 of the California Code of Regulations requires all such unauthorized releases from underground tanks to be reported. An unauthorized release report has been filed per Title 23, and your next step is to initiate further investigation and/or cleanup activities at this site.

First, a preliminary assessment should be conducted to determine the extent of soil and groundwater contamination that has resulted from the leaking tank. The information gathered by this investigation will be used to assess the need for additional actions at the site. The preliminary assessment should be designed to provide all of the information in the format shown in Appendix A (attached) of the Regional Water Quality Control Board (RWQCB's) guidelines.

Until cleanup is complete, the operator or permittee will need to submit reports to this office and to the RWQCB every three months (or at a more frequent interval, if specified at any time by either agency). These reports should include information pertaining to further investigative results; the methods and costs of cleanup actions implemented to date; and the method and location of disposal of any contaminated material.

Soils contaminated at hazardous waste concentrations should be transported by a licensed hazardous waste hauler and disposed of or treated at a facility approved by the California Department of Health Services. Soils contaminated below the hazardous threshold may be managed as nonhazardous, but are still subject to the RWQCB's waste discharge requirements.

Mr. Chase Jiannalone
February 21, 1989
Page 2 of 2

A proposal and time schedule for completing the initial site investigation report (Appendix A) should be submitted to this office within 30 days of the date of this letter. A report describing the results of the preliminary site assessment should be submitted within 60 days of the date of this letter. Copies of the proposal and report should also be sent to the RWQCB (attention: Lisa McCann).

You will need to submit an additional deposit of \$500 to cover costs that the Division of Hazardous Materials incurs during remediation oversight. Should you have any questions about this letter or about remediation requirements established by the RWQCB, please contact Gil Wistar, Hazardous Materials Specialist, at 271-4320.

Sincerely,



Rafat A. Shahid
Chief, Hazardous Materials Division

RAS:GW:gw: enclosure

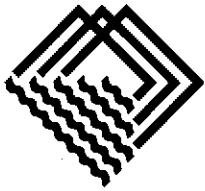
cc: Owen Ratchye, Pacific Environmental Group, Inc.
Lisa McCann, San Francisco Bay RWQCB
Gil Jensen, District Attorney, Alameda County Consumer
and Environmental Protection
files

P 833 981 237

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	MR. Chase Jiannalone	
Street and No.	2000 Alameda de las Pulgas	
P.O., State and ZIP Code	San Mateo, CA 94402	
Postage		\$
Certified Fee		
Special Delivery Fee		
Restricted Delivery Fee		
Return Receipt showing to whom and Date Delivered		
Return Receipt showing to whom, Date, and Address of Delivery		
TOTAL Postage and Fees		\$

June 1985



PACIFIC
ENVIRONMENTAL
GROUP INC.

2/10/89

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

February 8, 1989
Project No. 330-03.01

Alameda County Public Health
Hazardous Materials Section
80 Swan Way, Suite 200
Oakland, California 94621

Attn: Ms. Maria Mendoza

Subject: ARCO Station #6113
785 E. Stanley Blvd.
Livermore, CA 94550

Dear Ms. Mendoza:

Enclosed is the Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report for the subject ARCO Petroleum Products Company Station. Please distribute the report as noted in the instructions on the reverse side of each form.

If you have any questions or comments regarding this matter, please do not hesitate to call Mr. Kyle Christie of ARCO at (415) 571-2434.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

Tina Berry
Tina Berry
Staff Geologist

enclosure

cc: Kyle Christie, ARCO
Chris Winsor, ARCO

FACILITY 3/8/89
 FLO
 Am

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 checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25100.7 OF THE HEALTH AND SAFETY CODE. <i>Albert M. Wistar</i> 3/2/89 SIGNED DATE		
REPORT DATE 0 _M 2 _M 0 _D 8 _D 8 _Y 9 _Y		CASE #				
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Tina Berry		PHONE (408) 984-6536		SIGNATURE As Agent for ARCO <i>Tina Berry</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 Pacific Environmental Group, Inc.			
	ADDRESS 1601 Civic Center Dr., Suite 202 Santa Clara CA 95050 <small>STREET CITY STATE ZIP</small>					
RESPONSIBLE PARTY	NAME ARCO Petroleum Products <input type="checkbox"/> UNKNOWN		CONTACT PERSON Mr. Kyle Christie		PHONE (415) 571-2434	
	ADDRESS 2000 Alameda de las Pulgas, Suite 218 San Mateo CA 94402 <small>STREET CITY STATE ZIP</small>					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) ARCO Service Station #6113		OPERATOR Prestige Stations Inc.		PHONE (415) 449-2024	
	ADDRESS 785 E. Stanley Blvd. Livermore Alameda 94550 <small>STREET CITY COUNTY ZIP</small>					
	CROSS STREET Murietta		TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER		TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER	
IMPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Public Health Hazardous Materials Section		AGENCY NAME Alameda County Public Health Hazardous Materials Section		CONTACT PERSON Ms. Maria Mendoza PHONE (415) 271-4320	
	REGIONAL BOARD San Francisco Bay Region		CONTACT PERSON Ms. Lisa McCann		PHONE (415) 464-1255	
SUBSTANCES INVOLVED	(1) Waste Oil NAME QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN					
	(2) <input type="checkbox"/> UNKNOWN					
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 _M 1 _M 2 _D 6 _D 8 _Y 9 _Y		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 <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input checked="" type="checkbox"/> OTHER Remove tank			
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0 _M 1 _M 2 _D 6 _D 8 _Y 9 _Y					
SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		TANKS ONLY/CAPACITY 550 GAL. AGE unk. YRS <input type="checkbox"/> UNKNOWN		MATERIAL <input type="checkbox"/> FIBERGLASS <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> OTHER	
	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER					
CASE TYPE	CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input 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"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input checked="" type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES					
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input 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"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) To be determined.					
COMMENTS	1.) Discovered high levels of hydrocarbons in the sidewall areas of the tank excavation.					

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 checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25100.7 OF THE HEALTH AND SAFETY CODE. SIGNED: <u>Dillard M. W. Jan</u> DATE: <u>3/2/89</u>	
REPORT DATE 0 <u>2</u> <u>0</u> <u>0</u> <u>8</u> <u>8</u> <u>9</u>		CASE #			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <u>Tina Berry</u>		PHONE <u>(408) 984-6536</u>	SIGNATURE <u>As Agent for ARCO</u> <u>California Regional Water</u>	
	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 <u>Pacific Environmental Group, INC.</u> MAR. 9 1989		
ADDRESS <u>1601 Civic Center Dr., Suite 202</u> <u>Santa Clara</u> <u>95050</u>					
RESPONSIBLE PARTY	NAME <u>ARCO Petroleum Products</u> <input type="checkbox"/> UNKNOWN		CONTACT PERSON <u>Mr. Kyle Christie</u>		PHONE <u>(415) 571-2434</u>
	ADDRESS <u>2000 Alameda de las Pulgas, Suite 218</u> <u>San Mateo</u> <u>CA</u> <u>94402</u>				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) <u>ARCO Service Station #6113</u>		OPERATOR <u>Prestige Stations Inc.</u>		PHONE <u>(415) 449-2024</u>
	ADDRESS <u>785 E. Stanley Blvd.</u> <u>Livermore</u> <u>Alameda</u> <u>94550</u>				
	CROSS STREET <u>Murietta</u>	TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> RURAL <input type="checkbox"/> RESIDENTIAL <input type="checkbox"/> OTHER		TYPE OF BUSINESS <input checked="" type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> FARM <input type="checkbox"/> OTHER	
IMPLEMENTING AGENCIES	LOCAL AGENCY <u>Alameda County Public Health Hazardous Materials Section</u>		AGENCY NAME		CONTACT PERSON <u>Ms. Maria Mendoza</u>
	REGIONAL BOARD <u>San Francisco Bay Region</u>				PHONE <u>(415) 271-4320</u>
SUBSTANCES INVOLVED	(1) <u>Waste Oil</u> NAME				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2)				<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 <u>1</u> <u>2</u> <u>6</u> <u>8</u> <u>9</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 <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 0 <u>1</u> <u>2</u> <u>6</u> <u>8</u> <u>9</u>		<input checked="" type="checkbox"/> OTHER <u>Remove tank</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		TANKS ONLY CAPACITY <u>550</u> GAL AGE <u>unk.</u> YRS <input type="checkbox"/> UNKNOWN		MATERIAL <input type="checkbox"/> FIBERGLASS <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> OTHER
	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> SPILL <input type="checkbox"/> OTHER				
CASE TYPE	CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input 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"/> SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) <input type="checkbox"/> CLEANUP IN PROGRESS <input type="checkbox"/> SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> NO FUNDS AVAILABLE TO PROCEED <input checked="" type="checkbox"/> EVALUATING CLEANUP ALTERNATIVES				
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input 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"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input checked="" type="checkbox"/> OTHER (OT) <u>To be determined.</u>				
COMMENTS	<u>1.) Discovered high levels of hydrocarbons in the sidewall areas of the tank excavation.</u>				

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

II, III

Site ID # _____ Site Name AM/PM Minivan Today's Date 1/26/89

Site Address 785 E. Stanley Blvd.

City Silvermore Zip 94550 Phone _____

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER *John Adams - Pacific Env.*
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks *Randy Bohannon - fire inspector*

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

Removal of 500-gal waste oil tank. Arrived at site, excavation open - waiting for fire inspector / samples

Soil very rocky and hard

Tank covered w/ tar paper, appears to be in good shape - no rust visible

Hole looks clean - no oil stain or odors

2 samples collected - one from about 1 foot below vent end, one from slightly stained sidewall on fill end

Have Dunaway ~~press~~ copy of unauthorized leak report

II.A BUSINESS PLANS (Title 19)

- 1. Immediate Reporting 2703
- 2. Bus. Plan Stds. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MATLS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N)
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(e)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|-------------------------------|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose |
| | Semi-annual groundwater |
| | One time soil |
| | 3) Daily Vadose |
| | One time soil |
| | Annual tank test |
| | 4) Monthly Groundwater |
| | One time soil |
| | 5) Daily Inventory |
| | Annual tank testing |
| | Cont pipe leak det |
| | Vadose/gndwater mon. |
| 6) Daily Inventory | |
| Annual tank testing | |
| Cont pipe leak det | |
| 7) Weekly Tank Gauge | |
| Annual tank test | |
| 8) Annual Tank Testing | |
| Daily Inventory | |
| 9) Other _____ | |
| New Tanks | <input type="checkbox"/> 7. Precls Tank Test 2643 |
| | Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| | <input type="checkbox"/> 10. Ground Water. 2647 |
| | <input type="checkbox"/> 11. Monitor Plan 2632 |
| | <input type="checkbox"/> 12. Access. Secure 2634 |
| | <input type="checkbox"/> 13. Plans Submit 2711 |
| | Date: _____ |
| | <input type="checkbox"/> 14. As Built 2635 |
| Date: _____ | |

Rev 6/88

Contact: _____

Title: _____

Signature: _____

Inspector: Albert M. Weston

Signature: _____

II, III

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:

- _____ Removal of Tank and Piping
- _____ Sampling
- _____ Fuel Inspection

Insurances of a contractor to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Judge
9/23/88

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION

470 - 27TH ST., RM. 322
OAKLAND, CA 94612
PHONE NO. 415/874-7237

RECEIVED
SEP 20 1988

HAZARDOUS MATERIALS/
WASTE PROGRAM

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name ARCO PETROLEUM PRODUCTS COMPANY
Business Owner ATLANTIC RICHFIELD COMPANY / CHASE JIANNALONE 415-571-2271
2. Site Address 785 E. STANLEY BLVD.
City LIVERMORE, Zip CA Phone 415-449-2024
3. Mailing Address P.O. BOX 5811
City SAN MATEO, CA Zip 94402 Phone 415-571-2271
4. Land Owner ARCO PETROLEUM
Address 2000 ALAMEDA DE LAS PULGAS City, State SAN MATEO, CA Zip 94402
5. EPA I.D. No. CAC000094661
6. Contractor CROSBY & OVERTON, EMI
Address 8430 AMELIA ST.
City OAKLAND, CA 94621 Phone 415-633-0336
License Type GENERAL ENGINEERING "A" ID# 502446
7. Other (Specify) _____
Address _____
City _____ Phone _____

8. Contact Person for Investigation

Name CROSBY & OVERTON, EMI / RON CADIZ Title SITE MITIGATION MANAGER
Phone 415/633-0336

9. Total No. of Tanks at facility 5

10. Have permit applications for all tanks been submitted to this office? Yes [] No []

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name CROSBY & OVERTON, EMI EPA I.D. No. CAD 981 461 064
Address 8430 AMELIA ST
City OAKLAND State CA Zip 94621

b) Rinsate Transporter

Name CROSBY & OVERTON, EMI EPA I.D. No. CAD 981 461 064
Address 8430 AMELIA ST.
City OAKLAND, State CA Zip 94621

c) Tank Transporter

Name CROSBY & OVERTON, EMI EPA I.D. No. CAD 981 461 064
Address 8430 AMELIA ST.
City OAKLAND, State CA Zip 94621

d) Contaminated Soil Transporter

Name CROSBY & OVERTON, EMI EPA I.D. No. CAD 981 461 064
Address 8430 AMELIA ST.
City OAKLAND, State CA zip 94621

12. Sample Collector

Name _____
Company PACIFIC ENVIRONMENTAL GROUP
Address 1601 CIVIC CENTER DR. SUITE 202
City SANTA CLARA State CA Zip 95050 Phone 408/984-6536

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
280 GAL.	WASTE OIL	SOIL	3'-4' DEPTH - SEE PLOT PLAN FOR LOCATION

14. Have tanks or pipes leaked in the past? Yes [] No [X]

If yes, describe. _____

15. NFPA methods used for rendering tank inert? Yes [X] No []

If yes, describe. 1.5 LBS OF DRY ICE PER 100 GALS. TANK VOLUME

16. Laboratories

Name INTERNATIONAL TECHNOLOGIES
 Address 2055 JUNCTION AVE
 City SAN JOSE State CA Zip 95131
 State Certification No. 137

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
AUTOMOBILE DRAIN OIL BTX-E	TPH-HIGH BOILERS-5330 BTX-E 503-E-5330 8010 8020	

18. Site Safety Plan submitted? Yes No

19. Workman's Compensation: Yes No

Copy of Certificate enclosed? Yes No

Name of Insurer STATE COMPENSATION INSURANCE FUND

20. Plot Plan submitted? Yes No

21. Deposit enclosed? Yes No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) MARK PECORARO - GENERAL MANAGER

Signature Mark Pecoraro

Date 7/12/88

Signature of Site Owner or Operator

Name (please type) ON BEHALF OF ARCO - MARK A. PECORARO

Signature Mark Pecoraro

Date 9/12/88

NOTES:

1. Any changes in this document must be approved by this Department.
2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.
3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.
4. A copy of your approved plan must be sent to the landowner.

ARCO Petroleum Products Company
2000 Alameda de las Pulgas
Mailing Address: Box 5811
San Mateo, California 94402
Telephone 415 571 2400

September 15, 1988

County of Alameda Health Department
80 Swan Way, Room 200
Oakland, CA 94621

ARCO Products Company would like to hereby grant Crosby & Overton of Oakland, CA permission to sign as agents of ARCO for the purpose of securing permits for waste oil tank removals at the ARCO facilities listed below.

ARCO SS# 276 - Macarthur/10th Ave.
Oakland, CA

ARCO SS# 498 - 286 S. Livermore
Livermore, CA

ARCO SS# 4494 - 566 Hegenberger Rd.
Oakland, CA



Joi A. Hammer
Administrator, Real Estate & C&M

/lkw

cc: C. J. Jiannalone
R. L. Knutson
H. H. Sheetz
A. P. Weible
L. K. Wood

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A
SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

CONTRACTORS STATE LICENSE BOARD

No. 502446

Building Quality

ISSUED 12-~~03~~-86

This license is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

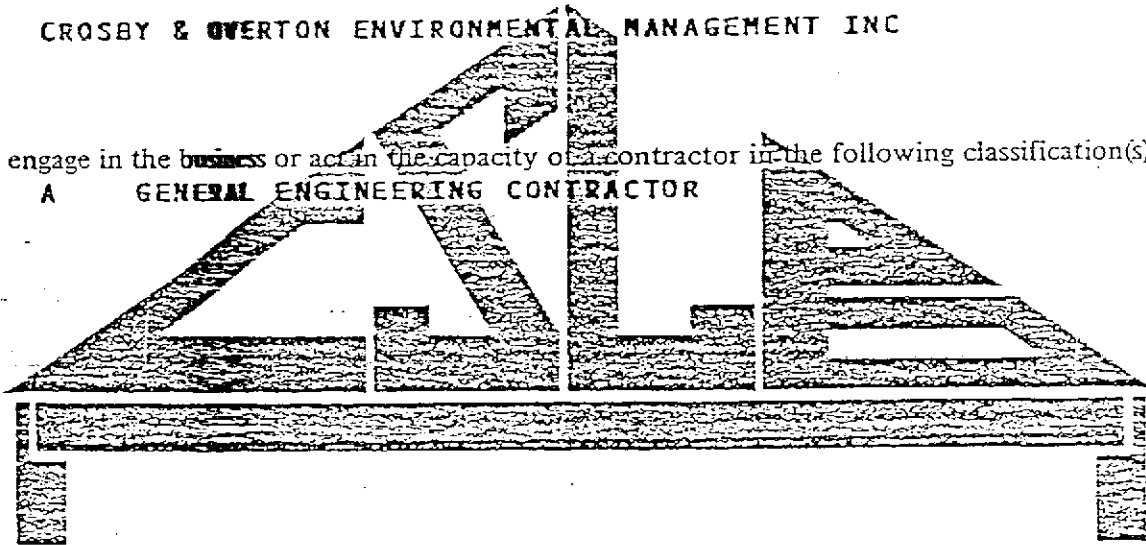
Contractor's License

Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors State License Board, the Registrar of Contractors does hereby issue this license to:

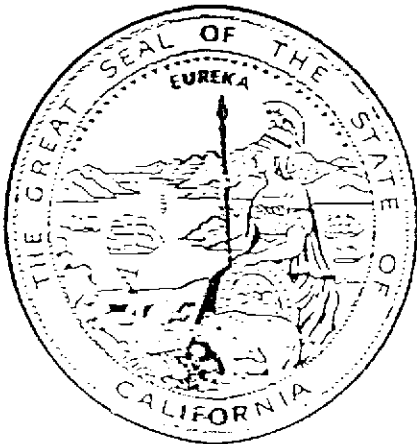
CROSBY & OVERTON ENVIRONMENTAL MANAGEMENT INC

to engage in the business or act in the capacity of a contractor in the following classification(s):

A **GENERAL ENGINEERING CONTRACTOR**



WITNESS my hand and sealed this
16TH day of DECEMBER 1986.



J. H. Maloney
Registrar of Contractors

Ernest D. Brown
Signature of Licensee

Joseph C. [Signature]
Signature of person who qualified
on behalf of the licensee
Joseph C. [Signature]

STATE AND CONSUMER SERVICES AGENCY
DEPARTMENT OF CONSUMER AFFAIRS

**STATE
COMPENSATION
INSURANCE
FUND**

P.O. BOX 807, SAN FRANCISCO, CA 94101-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

AUGUST 26, 1993

POLICY NUMBER: 0807177 - 22
CERTIFICATE EXPIRES: 4-1-93

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ³⁰ten days' advance written notice to the employer.

We will also give you ³⁰TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions and conditions of such policies.

John A. Platt
PRESIDENT

ENDORSEMENT #2055 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE 08/26/93 IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

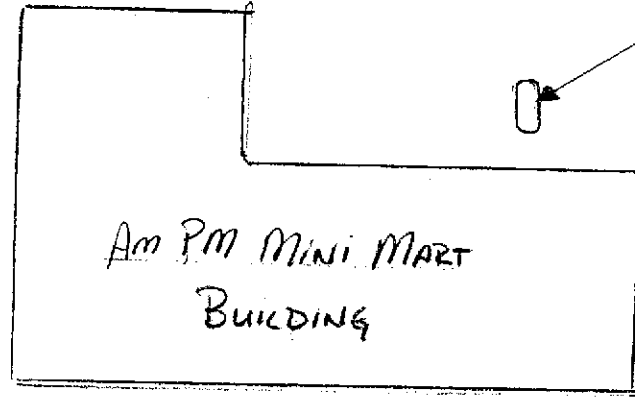
CROSBY AND OVERTON, INC.
1610 W. 17TH STREET
LONG BEACH
CA 90813

PLOT PLAN
785 E. STANLEY
LIVERMORE

* NOT TO SCALE

1

280 GAL
WASTE OIL
TANK



AM PM MINI MART
BUILDING

MURRIETA

NORTH
↓

EAST STANLEY BLVD

JANUARY 1987

GENERAL SAFETY RULES

1. ALL INJURIES, NO MATTER HOW SLIGHT, SHALL BE REPORTED IMMEDIATELY TO YOUR SUPERVISOR OR THE SAFETY DEPARTMENT.
2. GOOD HOUSEKEEPING IS YOUR SAFETY RESPONSIBILITY. KEEP YOUR WORK AREA, JOB SITE, TRUCK, ETC IN GOOD SHAPE.
3. UNAUTHORIZED OPERATING OR TAMPERING WITH EQUIPMENT IS PROHIBITED. SUPERVISION (ONLY) MAY DESIGNATE AUTHORIZED AND COMPETENT EQUIPMENT OPERATORS.
4. OPERATING OF EQUIPMENT OR MACHINERY HAVING A "DANGER - DO NOT OPERATE" TAG OR "RED TAG" IS PROHIBITED.
5. REPORT ANY UNSAFE CONDITION AT ONCE TO YOUR SUPERVISOR OR SAFETY DEPARTMENT.
6. HORSEPLAY, SCUFFLING, THROWING MATERIALS OR EQUIPMENT IS PROHIBITED.
7. INTOXICANTS OR ILLEGAL DRUGS OR PERSONS UNDER THEIR INFLUENCE SHALL NOT BE TOLERATED IN THE WORK ENVIRONMENT. THIS WILL RESULT IN IMMEDIATE DISCHARGE.
8. ENTRY INTO ANY CONFINED SPACE SHALL NOT BE MADE UNTIL THE ENTRY PERMIT PROCEDURE HAS BEEN COMPLETED BY APPROPRIATE, AUTHORIZED PERSONNEL.
9. A TAILGATE SAFETY MEETING SHALL BE GIVEN BY THE LEADMAN OR SUPERVISOR BEFORE THE START OF EACH JOB OR AT LEAST ONCE A DAY. THIS MEETING MUST BE DOCUMENTED ON ENTRY PERMIT OR SAFETY MEETING FORM.
10. APPROPRIATE SAFETY EQUIPMENT, PERSONAL PROTECTIVE EQUIPMENT AND OTHER DESIGNATED CLOTHING MUST BE WORN ON ALL JOB SITES AS PROVIDED IN SAFETY RULES OR AS SPECIFIED BY SUPERVISION.
11. REPORT ON APPROPRIATE FORM ANY UNSAFE EQUIPMENT OR MACHINERY.
12. FOLLOWING PERSONAL PROTECTIVE GEAR SHALL BE WORN AT ALL JOB SITES:
 1. SUBSTANTIALLY CONSTRUCTED SHOES, (NO CLOTH, TENNIS OR SOFT TOE SHOE) OR STEEL TOE BOOTS.
 2. EYE PROTECTION - GLASSES, GOGGLES OR FACE SHIELD
 3. HARD HAT
13. WHEN WORKING IN CONFINED SPACES, IN WET AREAS AND OTHER DESIGNATED JOB SITES, LOW VOLTAGE LIGHTING OR BATTERY POWERED LANTERNS ARE THE ONLY ACCEPTABLE LIGHTING ALTERNATIVES. IF HYDRO CARBONS ARE POTENTIALLY PRESENT - LIGHTING MUST ALSO BE EXPLOSION PROOF.
14. NEVER OPERATE, CLEAN, ADJUST OR REPAIR ANY MACHINE WHILE GUARDS OR OTHER SAFETY DEVICES ARE REMOVED. ALL GUARDS MUST BE BACK IN PLACE BEFORE STARTING MACHINERY INTO OPERATION.

15. KNOW AND FOLLOW SPECIFIC SAFETY RULES RELATING TO THE SPECIFIC JOB WHICH YOU ARE DOING.
16. FLAMMABLE LIQUIDS (FLASH POINT LESS THAN 100°F) SHALL NOT BE INTRODUCED INTO ANY CONFINED SPACE. FLAMMABLE LIQUID USED ANYWHERE ELSE MUST HAVE SAFETY APPROVAL.
17. DO NOT "HOT WASH" OR STEAM CLEAN CLOTHING OR BOOTS WHILE BEING WORN. THEY MUST BE REMOVED FOR SUCH CLEANING.
18. EMPLOYEES WITH BEARDS, LONG HEAVY SIDEBURNS OR LARGE MUSTACHES WILL NOT BE USED ON JOBS REQUIRING RESPIRATORY EQUIPMENT.
19. DO NOT USE DEFECTIVE OR IMPROPER TOOLS/EQUIPMENT TO DO THE JOB. BROKEN OR MAKE SHIFT EQUIPMENT CAN CAUSE SERIOUS ACCIDENTS.
20. SMOKING SHALL BE PERMITTED ONLY IN DESIGNATED AREAS. NORMALLY THE CUSTOMER AND/OR SUPERVISOR WILL DESIGNATE THE AREAS.
21. ALWAYS BE AWARE AND KEEP A SAFE DISTANCE FROM POTENTIAL PINCH, CRUSH OR NIP POINTS. STAND CLEAR OF HEAVY EQUIPMENT (I.E. OUTSIDE THEIR WHEEL BASE OR ARC OF SWING). NEVER STAND OR WALK BENEATH SUSPENDED OR PRECARIOUS LOADS.
22. WET OR SLIPPERY SURFACES AND TRIPPING HAZARDS ARE ALWAYS A POTENTIAL PROBLEM AT OUR JOB SITES. ALWAYS WALK CAREFULLY AND LOOK BEFORE YOU STEP IN ORDER TO AVOID FALLS.
23. WHEN WORKING ABOVE GRADE LEVEL BY MORE THAN SIX (6) FEET, FALL PROTECTION SHALL BE PROVIDED, (I.E. SAFETY BELT, LIFE LINE)
24. WHEN WORKING FIVE (5) FEET BELOW GRADE LEVEL, IN AN EXCAVATION WITH VERTICAL WALLS, SHORING SHALL BE PROVIDED PRIOR TO BEGINNING JOB. IF QUESTION ARISES, CONTACT SAFETY OFFICE.
25. SITE TO BE BARRICADED IN A 25; RADIUS OF EXCAVATION FOR TRAFFIC CONTROL.
26. EXCAVATION TO BE BARRICADED WHEN WORK DAY IS FINISHED.