

RECEIVED

By dehloptoxic at 10:59 am, Feb 01, 2007



Atlantic Richfield Company
(a BP affiliated company)

P.O. Box 1257
San Ramon, California 94583
Phone: (925) 275-3801
Fax: (925) 275-3815

26 January 2007

Re: Fourth Quarter 2006 Status Report
Atlantic Richfield Company Station #2169
889 West Grand Avenue, Oakland, California
ACEH Case #RO000072

"I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached document are true and correct."

Submitted by:

Paul Supple
Environmental Business Manager

Broadbent & Associates, Inc.
1324 Mangrove Ave., Suite 212
Chico, CA 95926
Voice (530) 566-1400
Fax (530) 566-1401



26 January 2007

Project No. 06-08-621

Atlantic Richfield Company
P.O. Box 1257
San Ramon, California 94583
Submitted via ENFOS

Attn.: Mr. Paul Supple

Re: Fourth Quarter 2006 Status Report, Atlantic Richfield Company (a BP affiliated company) Station #2169, 889 West Grand Avenue, Oakland, Alameda County, California; ACEH Case #RO0000072

Dear Mr. Supple:

Provided herein is the *Fourth Quarter 2006 Status Report* for Atlantic Richfield Company Station #2169 (herein referred to as Station #2169) located at 889 West Grand Avenue, Oakland, Alameda County, California (Site).

Should you have questions regarding the work performed or results obtained, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

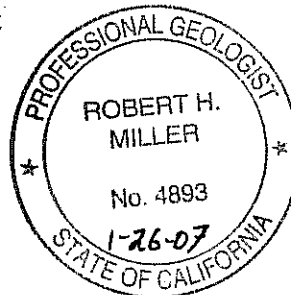
BROADBENT & ASSOCIATES, INC.

A handwritten signature in black ink that reads 'Thomas A. Venus'.

Thomas A. Venus, P.E.
Senior Engineer

A handwritten signature in black ink that reads 'Robert H. Miller'.

Robert H. Miller, P.G., C.HG.
Principal Hydrogeologist



Enclosures

cc: Mr. Steven Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp Site)
Electronic copy uploaded to GeoTracker

STATION #2169 QUARTERLY STATUS REPORT

Facility: #2169	Address: 889 West Grand Avenue, Oakland
Environmental Business Manager:	Mr. Paul Supple
Consulting Co./Contact Persons:	Broadbent & Associates, Inc. (BAI)/Rob Miller & Tom Venus (530) 566-1400
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH) ACEH Case #RO0000072
Consultant Project No.:	06-08-621
Facility Permits/Permitting Agency:	NA

WORK PERFORMED THIS QUARTER (Fourth Quarter 2006):

1. Prepared and submitted Third Quarter 2006 Semi-Annual Ground-Water Monitoring Report.
2. No environmental work was conducted in Fourth Quarter 2006.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2007):

1. Prepared and submitted this Fourth Quarter 2006 Status Report (contained herein).
2. Conduct semi-annual ground-water monitoring/sampling for First Quarter 2007.

QUARTERLY RESULTS SUMMARY:

Current phase of project:	Ground-Water Monitoring/Sampling
Frequency of ground-water sampling:	Semi-Annually (1Q & 3Q): Wells A-1, A-5, A-6, ADR-1 Annually (3Q): Wells A-2, AR-1, AR-2, ADR-2
Frequency of ground-water monitoring:	Semi-Annually
Is free product (FP) present on-site:	No
FP recovered this quarter:	None
Cumulative FP recovered:	4.8 gallons: Wells ADR-1 and ADR-2
Current remediation techniques:	Soil Vapor Extraction System shut down in December 2001
Depth to ground water (below TOC):	NA
General ground-water flow direction:	NA
Approximate hydraulic gradient:	NA

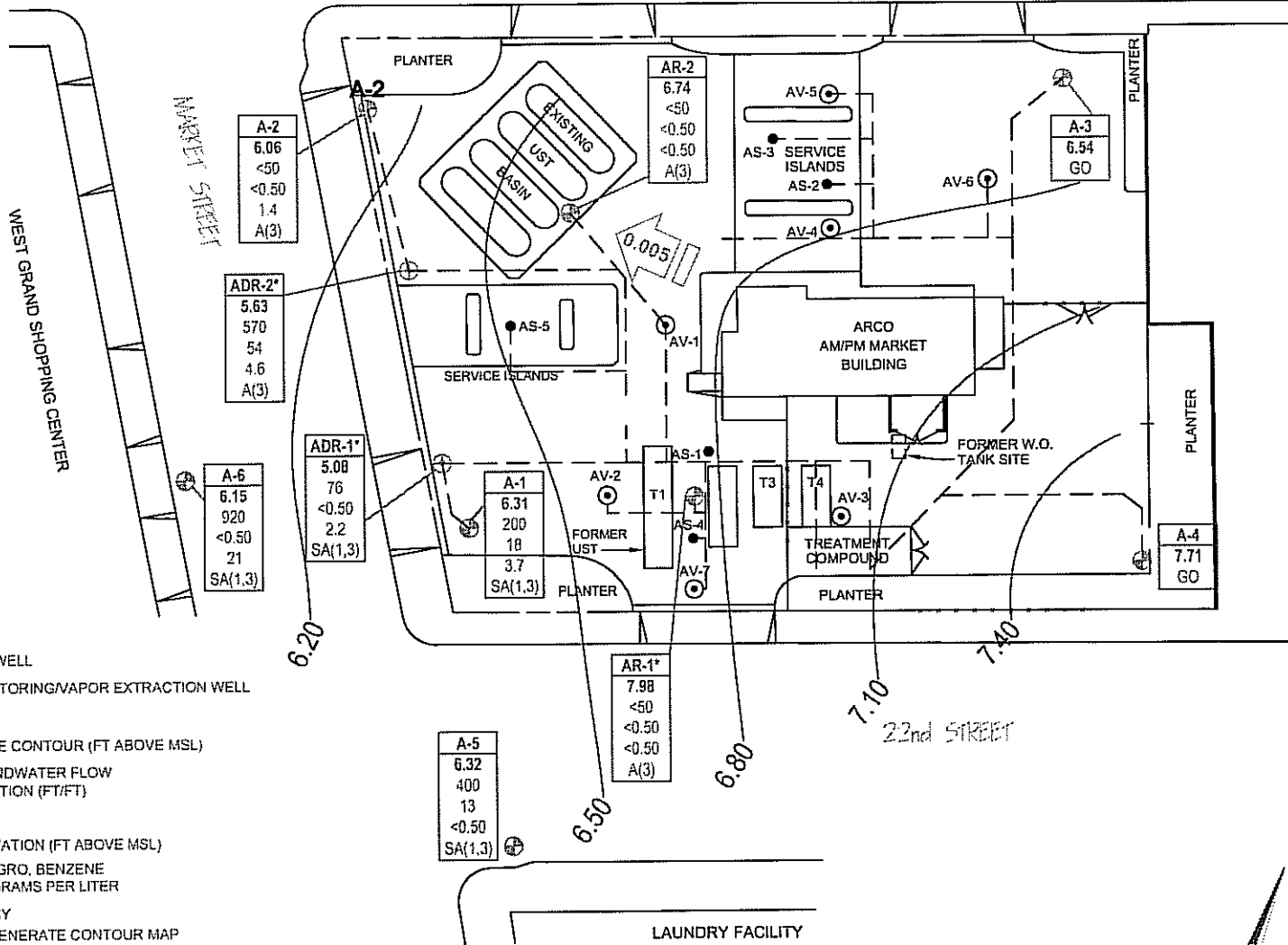
DISCUSSION:

No environmental activities took place at the Site during this quarter. The most recent data can be referenced in the Third Quarter 2006 Semi-Annual Ground-Water Monitoring Report for the Site. A Ground-Water Elevation Contour and Analytical Summary Map from Third Quarter 2006 is provided as Drawing 1.

ATTACHMENTS:

Drawing 1. Ground-Water Elevation Contour and Analytical Summary Map, 11 August 2006, ARCO Service Station #2169, 889 West Grand Avenue, Oakland, California

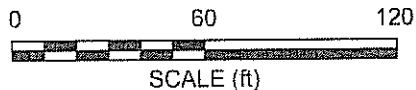
WEST GRAND AVENUE



LEGEND

- ⊕ MONITORING WELL
- ⊙ VAPOR EXTRACTION WELL
- ⊕ GROUNDWATER MONITORING/VAPOR EXTRACTION WELL
- AIR SPARGING WELL
- 6.80 GROUNDWATER TABLE CONTOUR (FT ABOVE MSL)
- ↔ APPROXIMATE GROUNDWATER FLOW GRADIENT AND DIRECTION (FT/FT)
- Well - WELL DESIGNATION
- ELEV - GROUNDWATER ELEVATION (FT ABOVE MSL)
- GRO - CONCENTRATION OF GRO, BENZENE AND MTBE IN MICROGRAMS PER LITER
- NTBE
- A/Q - SAMPLING FREQUENCY
- * WELL NOT USED TO GENERATE CONTOUR MAP
- < NOT DETECTED AT OR ABOVE LABORATORY REPORTING LIMIT
- NS NOT SAMPLED
- A(3) SAMPLED ANNUALLY, 3RD QUARTER
- SA SAMPLED SEMI-ANNUALLY, 1ST & 3RD QUARTERS
- GO GAUGE ONLY
- REMEDIATION PIPING

NOTE: SITE MAP ADAPTED FROM IT CORPORATION FIGURES.
SITE DIMENSIONS AND FACILITY LOCATIONS NOT VERIFIED.



BROADBENT & ASSOCIATES, INC.
ENGINEERING, WATER RESOURCES & ENVIRONMENTAL
1324 Mangrove Ave. Suite 212, Chico, California 95926
Project No.: 06-02-142 Date: 07/10/06

ARCO Service Station #2169
889 West Grand Avenue
Oakland, California

Ground-Water Elevation Contour
and Analytical Summary Map
11 August 2006

Drawing

1

UNDERGROUND STORAGE TANK
CLOSURE SPECIFICATIONS

Prepared by

Barghausen Consulting Engineers, Inc.
for

ATLANTIC RICHFIELD COMPANY

FAC. NO. 2169

ADDRESS: 889 W. Grand Ave - Oakland

1. SCOPE

When Drawings indicate that existing underground tanks are to be removed or abandoned, the Contractor is to do so according to the following instructions.

2. GENERAL

Before starting, check municipal ordinances and regulations of the state or governing bodies pertaining to underground storage tanks. These specifications are to be complied with as minimum requirements. Contractor is to obtain and pay for any necessary permits (unless ARCO has previously obtained them).

3. REMOVAL TO ANOTHER PROPERTY OR FOR SCRAP AS DIRECTED BY ARCO ENGINEER

- a. Disconnect and remove the suction, inlet, gauge and vent lines. Remove underwriter's labels and give to owner's engineer.
- b. Remove all product from the connecting lines and tank, flushing with water back to the tank. Use a vacuum truck or if unavailable, a hand pump, to remove the product remaining in the tank below all tank openings. Take precautions to prevent spilling even the smallest amount of product. All product removed from tank is to be disposed of by putting it into an active tank for the same kind of product, any sludge removed shall be disposed of as a hazardous waste according to regulations.
- c. Use all precautions against fire or flash of product vapors while working on the tank. Ground air movers to the tank or if fiberglass install an 8' ground rod in soil (not pea gravel) near the tank.
- d. Before starting work the Contractor should obtain a copy of "Cleaning, Petroleum Storage Tanks" publication RD 2015, published

UNDERGROUND STORAGE TANK CLOSURE SPECIFICATIONS

by American Petroleum Institute, 2101 "L" Street N.W., Washington, DC 20037. The following is an outline for bid purposes:

Gas free the tank by ventilating it with fresh air. Use an air mover (grounded) with a hose attached. If the tank has large openings a hose may (grounded) not be necessary; however, the air mover must be of the type that cannot provide an ignition source, since the vapor-air combination must go through the flammable range before becoming safe. The air mover must be electrically bonded to the tank. To minimize the hazard of going through the flammable range the tank can first be purged with an inert gas, then ventilated with air. Using dry ice (which dissolves into carbon dioxide) is a common method. The dry ice is broken up and distributed throughout the tank as much as possible.

Approximately 10 lbs. of dry ice per 1,000 gallons (some jurisdictions may require 15 lbs) will be required. Some jurisdictions will allow a tank to be transported if all openings are closed soon after the dry ice is introduced. First the amount of oxygen should be checked by an appropriate oxygen indicator. In most instances, however, the tank should be purged with air as described until the vapors are well within the non-combustible range as indicated by a combustible gas indicator.

- e. Cap or plug all inlets and outlets. One plug or cap must contain a 1/4-inch hole to permit the tank to breathe.
- f. Transport to the designated location in accordance with local regulations. The local fire department(s) should be notified when the tank(s) are to be transported, and of the planned route.
- g. Tank should be stored only on supervised property.
- h. Tanks must be kept capped or plugged while in storage and must be plainly marked "NOT GAS FREE." Mechanical repairs, welding or boring must not be done on these tanks (even though once "Gas Free," vapors will return in a certain length of time).
- i. Tanks being removed for scrap or use by others will become the property of the contractor who will be given a bill of sale by owner's engineer. They are the contractor's property and responsibility.

4. ABANDON IN PLACE <SECTION NOT APPLICABLE>

- 5. When the tank is removed the Contractor shall provide to the owner a document stating that the tank has been removed, where it was transported to, eventual method of disposal or re-use and name of the person or firm responsible for disposal or who is the re-use it. The method of disposal must be in accordance with all applicable regulations. The document is to be one approved by the Owner and all authorities having jurisdiction. The Owner will send this document to the appropriate local agency. When the tank is re-used, the document will state the new Owner, the new location, and the type of use.

UNDERGROUND STORAGE TANK CLOSURE SPECIFICATIONS

6. If the tank is abandoned, a similar document is to be provided to Owner for filing with the appropriate permitting agency. This document must be acceptable to Owner and the governmental agency. The Owner will also place a notice on the deed to the property describing the location, size and depth or burial of the tank, the type of product it contained and the material with which it was filled.
7. The Contractor will take soil samples in the vicinity of the tank being abandoned or removed when requested by Owner. Owner will require these unless it can be otherwise demonstrated that no unauthorized release (or leak) has occurred. The samples are to be taken in accordance with local regulations. The samples will be turned over to the Owner to be analyzed.
8. All product and sludge removed from any tank shall be disposed of by:
 - a. putting product into an active tank for the same kind of product.
 - b. sludge is to be taken to a hazardous waste site and disposed of according to regulations.

\\PGW\3\CLOSURE.SPC

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

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

SIGNED: *[Signature]* DATE: 9/3/02

REPORT DATE: 09/03/02 CASE #

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: **Chris Moul** PHONE: **(503) 234-3890** SIGNATURE: *[Signature]* DATE: 9/3/02

REPRESENTING: OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME: **BP West Coast Products LLC**

ADDRESS: **Four Centerpointe Drive, LPR4-460** La Palma CA 90623

RESPONSIBLE PARTY: NAME: **BP West Coast Products LLC** CONTACT PERSON: **Chris Moul** PHONE: **(503) 234-3890**

ADDRESS: **Four Centerpointe Drive** La Palma CA 90623

SITE LOCATION: FACILITY NAME (IF APPLICABLE): **Arco Facility No. 2169** OPERATOR: **Kulwinder Kaur** PHONE: **(510) 465-4450**

ADDRESS: **889 W Grand Avenue** Oakland Alameda CA 94607

IMPLEMENTING AGENCIES: LOCAL AGENCY: **Alameda County Environmental Health** CONTACT PERSON: **Arlu Levi** PHONE: **(510) 567-6862**

REGIONAL BOARD: **California Regional Water Quality Board** PHONE: **(213) 567-6747**

SUBSTANCES INVOLVED: (1) **Diesel** NAME: **Diesel** QUANTITY LOST (GALLONS): **10-20** UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 08/30/02 HOW DISCOVERED: INVENTORY CONTROL SURFACE MONITORING NUISANCE CONDITIONS OTHER: **Malfunctioning fuel filter**

DATE DISCHARGE BEGAN: 08/30/02 METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE REPLACE TANK OTHER: **Fixed/changed fuel filter**

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

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

CURRENT STATUS: CHECK ONLY ONE 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) (SEE BACK FOR DETAILS): EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (BT) CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GR) REPLACE SUPPLY (RS) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOLDUP (HU) VENT SOIL (VS) VACUUM EXTRACT (VE) OTHER

COMMENTS: **Dealer improperly installed the fuel filter and when the customer began to dispense fuel 10-20 gallons of diesel spilled from the fuel filter. 24 pounds of absorbent was used to clean spill and was disposed of properly. Spill was contained on site. Malfunctioning fuel filter was fixed on September 3, 2002. No further action.**

ARCOI

ARCO Products Company
4 Centerpointe Drive, LPR4-451
La Palma, California 90623-1066

Mailing Address: Box 6038
Artesia, CA 90702-6038

Voice (503) 234-3890
Fax (503) 234-3865
Email moucl1@bp.com

Friday, September 13, 2002
2:00 PM

via Facsimile

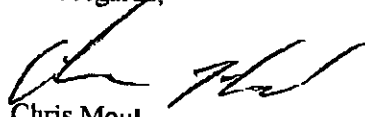
Alameda County Environmental Health
1131 Harbor Bay Parkway, #240
Alameda, CA 94502-6577
Attention: Ariu Levi
FAX: (510) 337-9335

Re: ARCO Facility No. 2169

Dear Mr. Levi:

With this, I am transmitting an Underground Storage Tank Unauthorized Release Report in connection with an incident at the facility noted above. Please feel free to call me at (503) 234-3890 with any questions.

Best regards,


Chris Moul
Environmental Compliance Specialist
BP West Coast Retail Unit

c: Terri Harlan / LPR4-464
File

DISCLAIMER: This message (including attachments, if any) contains confidential proprietary information, some or all of which may be legally privileged or otherwise protected from unauthorized use, disclosure, distribution or copying. It is for the intended recipient only. If you are not the intended recipient, you may not use, disclose, distribute, copy, print or retain this message or any part of it. If you have received this message in error, please notify us immediately by calling (714) 670-5336 collect.



Gray Davis
Governor

State Water Resources Control Board

Division of Clean Water Programs

1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5714 • FAX (916) 341-5806 • www.swrcb.ca.gov/cwphome/ustcf



Winston H. Hickox
Secretary for
Environmental
Protection

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov.

JUN 11 2001

JUN 18 2001

Arco Products Company
Chris Winsor
P O Box 5077
Buena Park, CA 90622-5077

UNDERGROUND STORAGE TANK CLEANUP FUND (FUND), NOTICE OF ELIGIBILITY DETERMINATION: CLAIM NUMBER 015172; FOR SITE ADDRESS: 889 GRAND AVE W, OAKLAND

Your claim has been accepted for placement on the Priority List in Priority Class "D" with a deductible of \$10,000.

We have completed our initial review. The next step in the claim review process is to conduct a compliance review.

Compliance Review: Staff reviews, verifies, and processes claims based on the priority and rank within a priority class. After the Board adopts the Priority List, your claim will remain on the Priority List until your Priority Class and rank are reached. At that time, staff will conduct an extensive Compliance Review at the local regulatory agency or Regional Water Quality Control Board. During this Compliance Review, staff may request additional information needed to verify eligibility. Once the Compliance Review is completed, staff will determine if the claim is valid or must be rejected. If the claim is valid, a Letter of Commitment will be issued obligating funds toward the cleanup. If staff determine that you have not complied with regulations governing site cleanup, you have not supplied necessary information or documentation, or your claim application contains a material error, the claim will be rejected. In such event, you will be issued a Notice of Intended Removal from the Priority List, informed of the basis for the proposed removal of your claim, and provided an opportunity to correct the condition that is the basis for the proposed removal. Your claim will be barred from further participation in the Fund, if the claim application contains a material error resulting from fraud or intentional or negligent misrepresentation.

Record keeping: During your cleanup project you should keep complete and well organized records of all corrective action activity and payment transactions. If you are eventually issued a Letter of Commitment, you will be required to submit: (1) copies of detailed invoices for all corrective action activity performed (including subcontractor invoices), (2) copies of canceled checks used to pay for work shown on the invoices, (3) copies of technical documents (bids, narrative work description, reports), and (4) evidence that the claimant paid for the work performed (not paid by another party). These documents are necessary for reimbursement and failure to submit them could impact the amount of reimbursement made by the Fund. *It is not necessary to submit these documents at this time; however, they will definitely be required prior to reimbursement.*

Compliance with Corrective Action Requirements: In order to be reimbursed for your eligible costs of cleanup incurred after December 2, 1991, you must have complied with corrective action requirements of Article 11, Chapter 16, Division 3, Title 23, California Code of Regulations. Article 11 categorized the corrective action process into *phases*. In addition, Article 11 requires the responsible party to submit an

investigative workplan/Corrective Action Plan (CAP) before performing any work. This phasing process and the workplan/CAP requirements were intended to:

1. help the responsible party undertake the necessary corrective action in a cost-effective, efficient and timely manner;
2. enable the regulatory agency to review and approve the proposed cost-effective corrective action alternative before any corrective action work was performed; and
3. ensure the Fund will only reimburse the most cost-effective corrective action alternative required by the regulatory agency to achieve the minimum cleanup necessary to protect human health, safety and the environment.

In some limited situations *interim cleanup* will be necessary to mitigate a demonstrated immediate hazard to public health, or the environment. Program regulations allow the responsible party to undertake interim remedial action after: (1) notifying the regulatory agency of the proposed action, and; (2) complying with any requirements that the regulatory agency may set. Interim remedial action should only be proposed when necessary to mitigate an immediate demonstrated hazard. ***Implementing interim remedial action does not eliminate the requirement for a CAP and an evaluation of the most cost-effective corrective action alternative.***

Three bids and Cost Preapproval: Only corrective action costs required by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. You must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work. ***If you do not obtain three bids or a waiver of the three bid requirement, reimbursement is not assured and costs may be rejected as ineligible.***

If you have any questions, please contact me at (916) 341-5714.

Sincerely,

ORIGINAL SIGNED BY

Shari Knieriem
Claims Review Unit
Underground Storage Tank Cleanup Fund

cc: Mr. Steve Morse
RWQCB, Region 2
1515 Clay Street, Ste. 1400
Oakland, CA 94612

Ms. Susan Hugo
Alameda County EHD
1131 Harbor Bay Pkway, 2nd Fl.
Alameda, CA 94502-6577

ST 1D
3793



State Water Resources Control Board



2072
H-660

Winston H. Hickox
Secretary for
Environmental
Protection

Division of Clean Water Programs
2014 T Street • Sacramento, California 95814 • (916) 227-4366
Mailing Address: P.O. Box 944212 • Sacramento, California • 94244-2120
FAX (916) 227-4530 • Internet Address: <http://www.swrcb.ca.gov/~cwphome/ustcf>

Gray Davis
Governor

5710 3793
SH

FEB 14 2000

Chris Winsor
Arco Products Company
P O Box 5077
Buena Park, CA 90622-5077

UNDERGROUND STORAGE TANK CLEANUP FUND PROGRAM, REQUEST FOR FURTHER DOCUMENTATION DURING INITIAL REVIEW: CLAIM NUMBER 015172; FOR SITE ADDRESS: 889 W. GRAND AVE, OAKLAND

After reviewing your claim application to the Cleanup Fund, we find that the following additional information is needed to determine your eligibility for placement on the Priority List:

Provide a copy of a letter from the local regulatory agency naming you a responsible party and directing (first directive) you to clean up the contamination at the subject site. Claimant has submitted the Notice of Reimbursement issued by Alameda County; however, it is not a directive.

NOTE: Failure to respond to this request within thirty (30) calendar days from the date of this letter may result in an ineligibility determination of your claim.

If you have any questions, please contact me at (916) 227-4366.

Sincerely,

ORIGINAL SIGNED BY

Shari Knieriem
Claims Review Unit
Underground Storage Tank Cleanup Fund

cc: Mr. Steve Morse
RWQCB, Region 2
1515 Clay Street, Ste. 1400
Oakland, Ca 94612

Mr. Thomas Peacock
Alameda County EHD
1131 Harbor Bay Pkway, 2nd Fl.
Alameda, Ca 94502-6577

ENVIRONMENTAL
PROTECTION

00 FEB 18 PM 4: 13

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

04/05/99

UNDERGROUND STORAGE TANK CLEANUP SITE

AGENCY#: 10000 SOURCE OF FUNDS: F-FEDERAL INSPECTOR: SH
 StID: 3793 SUBSTANCE: 8006619 -Gasoline
 SITE NAME: Arco AM/PM #02169 DATE REPORTED : 05/10/91
 ADDRESS : 889 W Grand Ave DATE CONFIRMED: 05/10/91
 CITY/ZIP : Oakland, CA 94607 *Ro 72* MULTIPLE RP's : N

CASE TYPE: O CONTRACT STATUS: 4 PRIOR:2B4 EMERGENCY RESPONSE: -0-

RP SEARCH	: S	DATE BEGIN:	-0-	DATE END:	06/18/92
PRELIM ASSESSMENT	: C	DATE BEGIN:	-0-	DATE END:	-0-
REMEDIAL INVESTIG	: -	DATE BEGIN:	-0-	DATE END:	-0-
REMEDIAL ACTION	: -	DATE BEGIN:	-0-	DATE END:	-0-
POST REMED MONITOR:	-	DATE BEGIN:	-0-	DATE END:	-0-

TYPE ENFORCEMENT ACTION TAKEN: 6 DATE OF ENFORC. ACTION: 10/21/92

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT FIELD MANUAL CONSIDERATION: HSCAWG CASE CLOSED: - on: -0-

DT EXC START: 01/16/92 REMEDIAL ACTIONS TAKEN: ED GT

RP #1: CONTACT: Paul Supple RP COST: -0-
 RP COMPANY NAME: Arco Products Company Ph: -0-
 ADDRESS: P. O. Box 6549
 CITY/STATE: Moraga, C A 94549

ΔInMENT:

4/15/99
talked to Herman Loney
re depth to GW & GW flow direction
238-7253

Listing all LOP DAILY activities since 1991 for StID 3793
as of 04/05/99

Act91_4

Act92_1

ActivDat	Insp	ACT	Activ	StID	ActCostF	aComment
05/18/92	DB	215	1.5	3793	\$66.74	889 West Grand, Arco
06/10/92	SH	215	2.	3793	\$89.13	review case file and reports f
06/19/92	SH	200	1.5	3793	\$66.84	rp search, notification letter

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Act92_2

09/29/92	SH	215	1.	3793	\$45.41	prepare for ARCO meeting, review files
09/30/92	SH	212	0.6	3793	\$27.25	meeting w/ Michael Wheland & consul-tant
10/01/92	SH	215	0.5	3793	\$22.71	recap meeting of 9/30/92 re: site

-0-

Act93_1

01/25/93	SH	212	0.5	3793	\$23.16	talked to Cliff Garratt(GSI) re: workplan approval, location of MW5,MW6
01/25/93	SH	215	4.5	3793	\$208.47	review case files, workplan 1/8/93, well installation report 6/30/92, contaminant site assessment 11/24/92.
06/02/93	SH	212	0.4	3793	\$18.96	talked to Joel Coffman re: status of site & air sparging

-0-

Act93_2

08/18/93	SH	212	0.5	3793	\$24.43	talked to Joel Coffman re: work at site
08/25/93	SH	215	2.	3793	\$97.72	review wp 8/17/93
08/26/93	SH	215	2.5	3793	\$122.15	review reports: site assessment reports, 11/24/92, WP 1/8/93
08/27/93	SH	212	0.4	3793	\$19.54	talked tyo Joel Coffman re: issues on WP 8/17/93
08/27/93	SH	215	1.5	3793	\$73.29	review 8/17/93 workplan
09/07/93	SH	215	0.5	3793	\$24.43	review H&S plan faxed 9/3/93
09/08/93	SH	212	0.5	3793	\$24.43	talked to Barbara Seimski re: drilling

-0-

Act94_1

07/23/94	SH	215	1.5	3793	\$79.96	reviewed quarterly monitoring reports
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Act95_1

01/04/95	SH	215	0.3	3793	\$15.99	review file, update database
03/08/95	SH	83	0.5	3793	\$26.65	site search
03/14/95	TP	215	0.2	3793	\$12.48	supv. review

Act95_2

05/08/95	SH	215	1.8	3793	\$95.95	reviewed ME installation report, case summary
06/27/95	SH	212	0.4	3793	\$21.32	talked to Emcon Asso. re: quarterly monitoring report

Act95_3

07/31/95	SH	215	1.6	3793	\$85.29	review file, QMRs
08/16/95	SH	212	0.3	3793	\$15.99	talked to Mike Wheland
Act95_4						
10/05/95	SH	212	0.4	3793	\$22.27	meeting with Arco & consultants
10/05/95	SH	215	1.	3793	\$55.68	review files for the meeting
11/22/95	SH	215	1.	3793	\$55.68	review QMR
12/20/95	TP	215	0.1	3793	\$6.51	supv. review
Act96_1						
Act96_2						
06/13/96	SH	212	0.3	3793	\$16.71	talked to Mike Wheland re: EBMUD's permit
Act96_3						
08/20/96	SH	215	1.	3793	\$55.24	review case file, summary
Act96_4						
Act97_1						
03/18/97	SH	215	1.7	3793	\$94.67	review case file, QMRs
03/24/97	SH	215	1.	3793	\$55.69	review QMRs
Act97_2						
06/03/97	SH	215	1.	3793	\$60.86	review QMR
ACT97_3						
ACT97_4						
12/02/97	TP	200	0.1	3793	\$6.75	update contact
ACT98_1						
ACT98_2						
act98_3						
09/03/98	SH	200	1.	3793	\$55.63	reviewed QMR
09/08/98	SH	200	1.5	3793	\$83.45	Reviewed QMRs; evaluate gw data

complete



EMCON

1433 North Market Boulevard • Sacramento, California 95834-1943 • (916) 928-3300 • Fax (916) 928-3341

SH

ENVIRONMENTAL
PROTECTION

97 OCT 17 PM 4:08

October 16, 1997
Project 20805-122.004

Mr. Thomas Peacock
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502

Re: ARCO Contacts

Dear Mr. Peacock:

As requested, this letter is written to provide you with the points of contact for ARCO sites under Alameda County Health Care Services Agency (ACHCSA) oversight. The sites referenced below are those which EMCON is providing consulting services to ARCO.

The ARCO contact for the following site is Mr. Kyle Christie at P.O. Box 5077, Buena Park, California, 90622-5077, telephone no. (714) 670-5303:

✓ 3256 ARCO Facility 276, 10600 Macarthur Boulevard, Oakland BC

The ARCO contact for the following sites is Mr. Paul Supple at P.O. Box 6549, Moraga, California, 94549, telephone (510) 299-8891:

- 4225 ARCO Facility 601, 712 Lewelling Boulevard, San Leandro SOS
- 744 ARCO Facility 2111, 1156 Davis Street, San Leandro B O
- 3876 ARCO Facility 2185, 9800 14th Street, Oakland BC
- 3942 ARCO Facility 6002, 6235 Seminary Avenue, Oakland - PE
- 3873 ARCO Facility 771, 899 Rincon Avenue, Livermore SH
- 3858 ARCO Facility 2035, 1001 San Pablo Avenue, Albany BC
- 3793 ARCO Facility 2169, 889 West Grand Avenue, Oakland SH
- 1053 ARCO Facility 6041, 7249 Village Parkway, Dublin EC
- 3883 ARCO Facility 6113, 785 East Stanley Boulevard, Livermore SH
- 3626 ARCO Facility 6148, 5131 Shattuck Avenue, Oakland SH

*Contact updated
12-2-97*



LOP - RECORD CHANGE REQUEST FORM

printed:
03/14/95

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

Insp: SH

AGENCY #: 10000 SOURCE OF FUNDS: F SUBSTANCE: 8006619
 StID : 3793 LOC:
 SITE NAME: Arco AM/PM #02169
 ADDRESS : 889 W Grand Ave DATE REPORTED : 05/10/91
 CITY/ZIP : Oakland 94607 DATE CONFIRMED: 05/10/91
 MULTIPLE RPS : N

SITE STATUS

CASE TYPE: G CONTRACT STATUS: 4 PRIOR CODE: 2B4 EMERGENCY RESP:
 RP SEARCH: S DATE COMPLETED: 06/18/92
 PRELIMINARY ASMNT: C DATE UNDERWAY:
 REM INVESTIGATION: DATE UNDERWAY:
 REMEDIAL ACTION: DATE UNDERWAY:
 POST REMED ACT MON: DATE UNDERWAY:
 ENFORCEMENT ACTION TYPE: 6 DATE ENFORCEMENT ACTION TAKEN: 10/21/92
 LUFT FIELD MANUAL CONSID: HSCAWG
 CASE CLOSED: DATE CASE CLOSED:
 DATE EXCAVATION STARTED : 01/16/92 REMEDIAL ACTIONS TAKEN: ED GT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Michael Wheland
 COMPANY NAME: Arco Products Company
 ADDRESS: P.o. Box 5811
 CITY/STATE: San Mateo, California 94402

INSPECTOR VERIFICATION:

NAME _____ SIGNATURE _____ DATE _____

DATA ENTRY INPUT:

Name/Address Changes Only

Case Progress Changes

ANNPGMS	LOP	DATE	LOP	DATE
Tom Peacock Manager, Site Mit	Susan Hugo Senior HMS	Barney Chan HMS	Madhula Logan HMS	Scott Steery Senior HMS
			Jennifer Eberle HMS	eva chup HMS

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

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

ALCO
HAZMAT



90 SEP 13 PM 2:14
September 9, 1994

Ms. Susan Hugo
Alameda County Heath 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 Lowelling 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 Zurfinden 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	Debble 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	

301-207-1934 10-19 FRUIT ENVIRONMENTAL ENGINEERING IU 012121001016 P.00

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 Memeo
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	NW	Norma Gutierrez 2025 Gate Way Place, Suite 440 San Jose, CA 95110 (408) 441-7500 Fax (408) 441-7539
		Cleve Solomon 650 N Sierra Madre Villa, Suite 204 Pasadena, CA 91107 (818) 351-4814 -- Fax (818) 351-4822	SW	
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	NW	Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333 Fax (916) 456-0110
		Kyle Emerson 1180 Nevada St, Suite 200 Redlands, CA 92374 (909) 335-6116 --- Fax (909) 335-6120	SW	
		Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 --- Fax (805) 546-0583	SW	

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

93 JAN 15 11 01 00

January 13, 1993

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

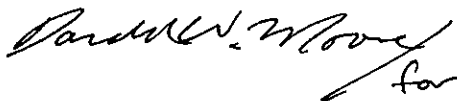
Dear Ms. Hugo:

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1992; also included are projected site activities for the first quarter of 1993 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs



GeoStrategies Inc.

ALCO
HAZMAT
94 JAN 24 PM 2:36

January 20, 1994
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of December, 1993, and site activities anticipated for the month of January, 1994.

Status of Previous Month's Activities:

- Closed station and initiated construction of interim remediation system in early December, 1993.
- Installed additional air-sparge and vapor extraction wells to be used in the interim remediation system at the site.
- Completed and submitted draft interim remedial action plan and issued to ARCO for review.

GeoStrategies Inc.

ARCO Station 2169
Monthly Site Status Report

January 20, 1994

Anticipated Work to be Performed in the Next Month:

- Perform monthly monitoring of site wells.
- Submit final interim remedial action plan and issue to ARCO and regulatory agencies.
- Initiate preparation of report containing results of additional remedial investigation.
- Continue with installation of the interim remediation system including trenching, piping and building of remediation compound.

If you have any questions or comments, please call us at (510) 551-7444 ext. 286.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

ALCO
HAZMAT

93 DEC 17 PM 2:38

December 14, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of November, 1993, and site activities anticipated for the month of December, 1993.

Status of Previous Month's Activities:

- Received, evaluated and awarded contract for winning bid for the installation of the interim remediation system. Construction of system is scheduled to commence in early December, 1993.
- Continued equipment procurement and permitting for installation of the interim remediation system to be installed at the site.
- Conducted site meeting to discuss installation of an interim remedial system.

Anticipated Work to be Performed in the Next Month:

- Perform monthly monitoring of site wells.
- Complete equipment procurement for installation of interim remediation system at the site. Complete remedial system permitting.
- Complete and submit interim remedial action plan and results of additional remedial investigation report and issue to ARCO and regulatory agencies.
- Install additional air-sparge and vapor extraction wells.
- Close station and initiate installation of the interim remediation system including trenching, piping and building of remediation compound.

If you have any questions or comments, please call us at (510) 551-7444 ext. 286.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

November 18, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of October, 1993, and site activities anticipated for the month of November, 1993.

Status of Previous Month's Activities:

- Completed preparation of design and bid package for the installation of an interim remedial system. System design was delayed due to incorporating air-sparge technology into the interim remediation system.
- Sent bid package to selected bidding contractors and began receiving and evaluating bids for the installation of the interim remediation system. Construction of system is scheduled to commence in early December, 1993.
- Initiated equipment procurement and continued permitting for installation of the interim remediation system to be installed at the site.

Anticipated Work to be Performed in the Next Month:

- Perform monthly monitoring of site wells.
- Upon award of contract to winning contractor, schedule site meeting to discuss installation of an interim remedial system.
- Continue equipment procurement and continue permitting for installation of the interim remediation system to be installed at the site.

If you have any questions or comments, please call us at (510) 551-7444 ext. 286.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiett, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

October 12, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of September, 1993, and site activities anticipated for the month of October, 1993.

Status of Previous Month's Activities:

- Submitted a final Work Plan for Additional Subsurface Investigation and Evaluation of Remedial Alternatives to ARCO and applicable Regulatory Agencies.
- Continued preparation of bid package for the installation of an interim remedial system. System design has been delayed due to incorporating air-sparge technology into the interim remediation system.
- Installed additional vapor extraction and air sparging wells at the site and performed air sparging/vapor extraction tests at the site.
- Performed third quarter 1993 monitoring and sampling of site wells.
- Issued a final Quarterly Monitoring Report presenting Second Quarter 1993 groundwater monitoring and sampling results to ARCO and applicable Regulatory Agencies.

GeoStrategies Inc.

ARCO Station 2169
Monthly Site Status Report

October 12, 1993

Anticipated Work to be Performed in the Next Month:

- Perform monthly monitoring of site wells.
- Complete preparation of bid package for the installation of an interim remedial system, send bids out to bidding contractors, receive and evaluate the bids.
- Initiate equipment procurement and continue permitting for installation of the interim remediation system to be installed at the site.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

September 15, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of August, 1993, and site activities anticipated for the month of September, 1993.

Status of Previous Month's Activities:

- Submitted a draft Quarterly Monitoring Report presenting second quarter 1993 groundwater monitoring and sampling results to ARCO.
- Submitted a final Work Plan for Additional Subsurface Investigation and Evaluation of Remedial Alternatives to ARCO and applicable Regulatory Agencies.
- Continued preparation of bid package for the installation of an interim remedial system. System design has been delayed due to incorporating air-sparge technology into the interim remediation system.
- Performed third quarter 1993 monitoring and sampling of site wells.
- Obtained drilling permit from the Alameda County Flood Control and Water Conservation District, Zone 7, and scheduled drilling of additional vapor extraction and air sparging wells.

ARCO Station 2169
Monthly Site Status Report

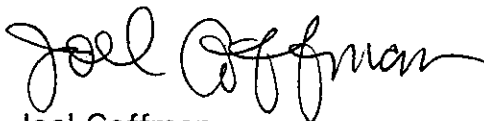
September 15, 1993

Anticipated Work to be Performed in the Next Month:

- Issue a final Quarterly Monitoring Report presenting second quarter 1993 groundwater monitoring and sampling results to ARCO and applicable Regulatory Agencies.
- Perform monthly monitoring of site wells.
- Install additional vapor extraction and air sparging wells at the site.
- Upon installation of air-sparging and vapor extraction wells, perform air sparging/vapor extraction tests at the site.
- Continue preparation of bid package for the installation of an interim remedial system.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

August 11, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of July, 1993, and site activities anticipated for the month of August, 1993.

Status of Previous Month's Activities:

- Prepared a draft Quarterly Monitoring Report presenting second quarter 1993 groundwater monitoring and sampling results.
- Prepared a draft Remedial Action Plan for Interim Soil and Groundwater Remediation at the site.
- Prepared a draft Work Plan for Additional Subsurface Investigation and Evaluation of Remedial Alternatives.
- Continued preparation of bid package for the interim remedial system. System design has been delayed due to incorporating air-sparge technology into the interim remediation system.

ARCO Station 2169
Monthly Site Status Report

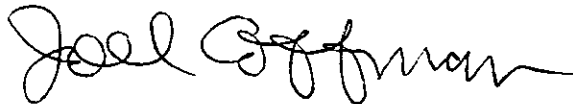
August 11, 1993

Anticipated Work to be Performed in the Next Month:

- Submit a final Quarterly Monitoring Report to ARCO and Regulatory Agencies.
- Submit a final Work Plan for Additional Subsurface Investigation and Evaluation of Remedial Alternatives to ARCO and Regulatory Agencies.
- Perform monthly monitoring and quarterly sampling of site wells.
- Upon approval of a Work Plan drill air-sparging and vapor extraction wells at the site. Upon installation of air-sparging and vapor extraction wells, schedule performance of air sparging/vapor extraction tests at the site.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

July 15, 1993
7900.01

Mr. Michael Whelan
ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Subject: Monthly Site Status Update for ARCO Station 2169, 889
West Grand Avenue, Oakland, California.

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the months of May and June 1993 and site activities anticipated for the month of July, 1993.

Status of Previous Month's Activities:

- Submitted a final Quarterly Monitoring Report presenting first quarter 1993 groundwater sampling results to ARCO and Regulatory Agencies.
- Initiated preparation of a Remedial Action Plan for Interim Soil and Groundwater Remediation at the site.
- Continued preparation of bid package for the interim remedial system. System design has been delayed due to incorporating air-sparge technology into the interim remediation system.

ARCO Station 2169
Monthly Site Status Report

July 15, 1993

Status of Previous Month's Activities (Cont.):

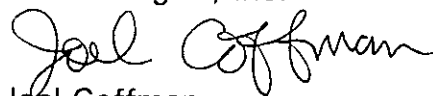
- Conducted a ½-mile radius well survey and environmental record search for the subject site.

Anticipated Work to be Performed in the Next Month:

- Prepare a Quarterly Monitoring/Well Survey and Environmental Record Search Report presenting second quarter 1993 groundwater sampling, ½-mile well survey and environmental record search results.
- Submit a Remedial Action Plan for Interim Soil and Groundwater Remediation to ARCO and Regulatory Agencies.
- Prepare a letter work plan to install air-sparge wells and perform air-sparge testing at the site and submit to ARCO and Regulatory Agencies.
- Upon approval of a Work Plan drill air-sparging and vapor extraction wells at the site.
- Upon installation of air-sparging and vapor extraction wells schedule performance of air sparging/vapor extraction tests at the site.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,
GeoStrategies, Inc.


Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

May 26, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of April, 1993 and site activities anticipated for the months of May and June, 1993.

Status of Previous Month's Activities:

- Submitted final investigation report for installation of offsite monitoring wells A-5 and A-6.
- Continued preparation of bid package for the interim remedial system. System design has been delayed due to incorporating air-sparg technology into the interim remediation system.

05.26/MWHE/900-2169

GeoStrategies Inc.

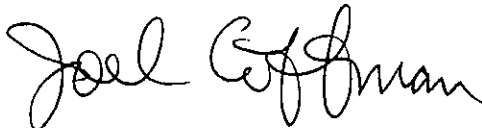
ARCO Products Company
May 26, 1993
Page 2

Anticipated Work to be Performed in the Next Month:

- Submittal of letter to Alameda County Health Care Services Agency describing delays in system design and preparing letter work plan to install air-sparge wells and perform air-sparge testing in conjunction with vapor extraction testing at the site.

If you have any questions or comments, please call us at (510) 352-4800.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Dept. of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

May 26, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 4931
731 West MacArthur Boulevard
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of April, 1993 and site activities anticipated for the months of May and June, 1993.

Status of Previous Month's Activities:

- Adjusted flow rate of remedial system pumping wells.
- Performed operation and maintenance duties for the interim remedial system.
- Reviewed remedial system performance and continued preparation of a Remedial System Evaluation Report.

05.26/MWHE/900-4931

ARCO Products Company
May 26, 1993
Page 2

Anticipated Work to be Performed in the Next Month:

- Perform operation and maintenance duties for the interim remedial system.
- Issue a draft Remedial System Evaluation Report to ARCO.

If you have any questions or comments, please call us at (510)352-4800.

Sincerely,
GeoStrategies, Inc.



Joel Coffman
Project Manager

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency,
Department of Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

April 22, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of March, 1993 and site activities anticipated for the month of April, 1993.

Status of Previous Month's Activities:

- Continued preparation of bid package for the interim remedial system (system design due April 30, 1993).

Anticipated Work to be Performed in the Next Month:

- Issue a draft Quarterly Monitoring/Well Installation Report documenting first quarter, 1993 field activities to ARCO (due April 15, 1993)...
- Submittal of bid package for the interim remedial system design (system design due April 30, 1993).


:ARCOMISC/S-U927.RM(rt)

GeoStrategies Inc.

ARCO Products Company
April 22, 1993
Page 2

If you have any questions or comments, please call.

Sincerely,


John F. Vargas
Senior Geologist

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

99 MAR 15 7:12:05

March 9, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

SH 3793

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of February, 1993 and site activities anticipated for the month of March, 1993.

Status of Previous Month's Activities:

- Installed two off-site groundwater monitoring wells (A-5 and A-6) on February 4, 1993 (Report due April 1, 1993).
- Wells A-5 and A-6 were developed and sampled.
- Began preparation of bid package for the interim remedial system (system design due April 1, 1993).

Anticipated Work to be Performed in the Next Month:

- Issue a draft Quarterly Monitoring/Well Installation Report documenting first quarter, 1993 field activities to ARCO (due April 1, 1993).
- Continue preparation of bid package for the interim remedial system (system design due April 1, 1993).

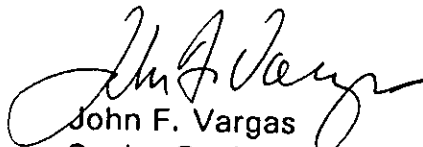
:ARCOMISC/S-U927.RM(rt)

GeoStrategies Inc.

ARCO Products Company
March 9, 1993
Page 2

If you have any questions or comments, please call.

Sincerely,


John F. Vargas
Senior Geologist

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney

STND
3793

SH



GeoStrategies Inc.

February 26, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of January, 1993 and site activities anticipated for the month of February, 1993.

Status of Previous Month's Activities:

- Issued a final Quarterly Monitoring Report presenting fourth quarter, 1992 sampling results to ARCO, ACHA, and the RWQCB (due January 15, 1993).
- Issued a final Work Plan for two off-site ground-water monitoring wells (A-5 and A-6) to ARCO, ACHA, and the RWQCB (due January 15, 1993).
- Secured encroachment and well permits for proposed off-site wells and scheduled field work (offsite assessment due April 1, 1993).
- Ground-water sampling and monitoring were performed for the first quarter, 1993 (report due April 1, 1993).

:ARCOMISC/S-U927.RM(rt)

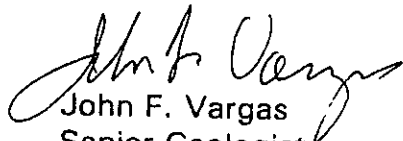
ARCO Products Company
February 26, 1993
Page 2

Anticipated Work to be Performed in the Next Month:

- Install two off-site groundwater monitoring wells (A-5 and A-6) (report due April 1, 1993).
- Develop, monitor, and sample the newly installed groundwater monitoring wells.
- Begin preparation of bid package for interior remedial system (system design due March 1, 1993).

If you have any questions or comments, please call.

Sincerely,


John F. Vargas
Senior Geologist

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

7072

FACSIMILE COVER SHEET

TO: Ms. Susan Hago

COMPANY: ACHA

FROM: Cliff Garrett

DATE: 1.26.93

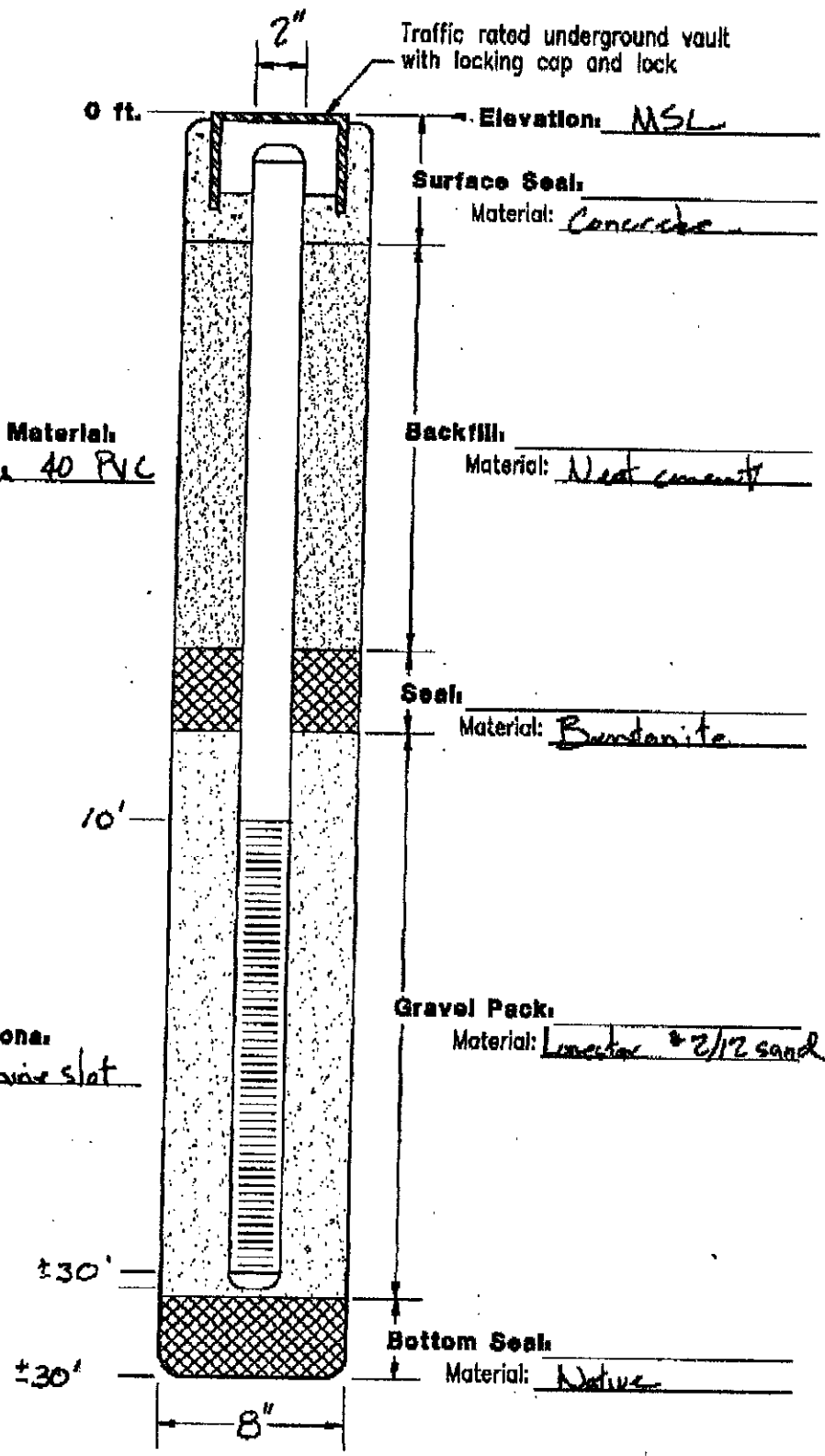
RE: Proposed wall construction Detail - AR10 SS# 2169

COMMENTS: _____

2 pages including cover.

If there are any problems with this transmission, please call (510) 783-7500.

PLATE



Casing Material: Schedule 40 PVC

Perforations: 0.02" machine slot PVC

Traffic rated underground vault with locking cap and lock
Elevation: MSL

Surface Seal:
Material: Concrete

Backfill:
Material: Best cement

Seal:
Material: Bentonite

Gravel Pack:
Material: Limestone #2/12 sand

Bottom Seal:
Material: Native

WELL CONSTRUCTION DETAIL

Proposed Wells A-5 & A-6

GeoStrategies Inc.



REVISION DATE

DATE

REVISION BY

JOB NUMBER

UST LEAK
SITE UPDATE

Date of Last
Review/Update: 10/1/92

Current
Date: 1/4/93

SITE IDENTIFICATION

Name: ARCO Products Company #2169 Case No.: _____

Address: 889 West Grand Avenue

Street Number Street

Oakland 94607

City Zip Code

Alameda Substance: Gasoline

County

Local Agency: Alameda County Health Agency, Department of Environmental Health

Regional Board: San Francisco Bay Region

LEAD STAFF PERSON: Dennis Byrne

CASE TYPE:

___ Undetermined ___ Soil Only X Ground Water ___ Drinking Water

STATUS (Date indicates when case moved into status)

___ No Action Taken

X Leak Being Confirmed Date: July 1988

X Preliminary Site Assessment Workplan Submitted Date: October 29, 1991

X Preliminary Site Assessment Underway Date: July 1991

___ Pollution Characterization Date: _____

___ Remediation Plan Date: _____

___ Remedial Action Underway Date: _____

___ Post Remedial Action Monitoring Date: _____

X Case Referred to Regional Board Date: July 1988

___ Case Referred to Dept. of Health Services Date: _____

___ Case Closed Date: _____

MILESTONES:

A Work plan proposing the installation of four groundwater monitoring wells, three vapor extraction wells and one groundwater recovery well has been issued for this site. A tank removal and replacement project began in January, 1992 and was completed in April, 1992. In March 1992, four monitoring wells (A-1 through A-4) and one recovery well (AR-1) were installed on-site. Three vapor extraction/monitoring wells and one groundwater recovery well were installed on-site in June, 1992. A vapor extraction test and step/drawdown aquifer tests were performed in June and July, 1992, respectively. Refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

Fourth quarter, 1992 monitoring and sampling were performed.

ANTICIPATED ACTIVITIES:

Ground-water monitoring and sampling will continue on a quarterly basis. Issue a Quarterly Monitoring Report presenting fourth quarter, 1992 sampling results. Install two off-site, down-gradient monitoring wells at the site. Issue a remedial action plan and system design for soil and groundwater treatment at the site.

SS# 2169

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.
Work Plan	October 29, 1991	GeoStrategies Inc.
Well Installation Report	June 30, 1992	GeoStrategies Inc.
Underground Storage Tank Removal and Soil Sampling Report	July 14, 1992	ROUX Associates
Continuing Site Assessment/Quarterly Monitoring Report	November 24, 1992	GeoStrategies Inc.

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

92 NOV -9 PM 2: 34

TRANSMITTAL

TO: Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94612

DATE: November 4, 1992
PROJECT NUMBER:
SUBJECT: Minutes for Meeting
held on September 30, 1992.

FROM: Joel Coffman
TITLE: Project Geologist

WE ARE SENDING YOU:

COPIES	DATED	NO.	DESCRIPTION
1	11/4/92		Minutes to meeting held at ACHCSA on September 30, 1992.

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. Michael Whelan, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Meck, ARCO Legal Department
Mr. John Jang, RWQCB, San Francisco Bay Region
Mr. Richard Hiatt, RWQCB, San Francisco Bay Region
Mr. John Vargas, GeoStrategies

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

November 4, 1992
1104shgo

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94612

Subject: Minutes to Meeting held at Alameda County Health Care Services Agency (ACHCSA) on September 30, 1992.

Dear Ms. Hugo:

On behalf of ARCO Products Company (ARCO), RESNA Industries, Inc. (RESNA has prepared these minutes for the meeting held at your offices on September 30, 1992. This meeting was held for discussion of ARCO sites located in Alameda County and under direction of Mr. Richard Hiatt and Mr. John Jang of the Regional Water Quality Control Board (RWQCB). As circumstances dictated, these RWQCB personnel were not able to attend the meeting, however, they will receive a copy of these minutes. Attending the whole meeting were Ms. Susan Hugo of the ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman of RESNA. People attending parts of the meeting while particular sites were discussed included Mr. Barney Chan and Mr. Scott Seery of the ACHCSA, Ms. Valli Voruganti of RESNA, and Mr. John Vargas and Ms. Diane Lundquist of GeoStrategies, Inc. An agenda for the meeting, including a listing of sites for discussion, was sent to the offices of the ACHCSA and the RWQCB prior to the meeting.

Items discussed include the following: ongoing assessment at the sites, offsite access problems, sites near ARCO Stations reported on leak lists, schedules and changes in schedules for remediation, and other issues concerning the sites. Specific topics discussed for each site are included in the following minutes to the meeting.

Attending the meeting during discussion of ARCO Stations 276, 2035, 2107, 2185, and 4494 were Mr. Barney Chan and Ms. Susan Hugo of ACHCSA, Mr. Michael Whelan of ARCO, and Mr. Joel Coffman and Ms. Valli Voruganti of RESNA. Site specific topics discussed are included in the following portion of these minutes.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

ARCO Station 2035, 1001 San Pablo Ave., Albany, California

Discussion of this site included mention that product previously found in recovery well RW-1 was collected in a passive floating product skimmer and had been hand bailed on a bi-weekly basis. Floating product in RW-1 has been reduced to a sheen. Ms. Hugo asked for product information concerning the skimmers, this information has been sent. Other discussion included the fact that the onsite vapor extraction wells had been installed and a vapor extraction test performed at the site in August, 1992. Offsite monitoring wells will be installed upon gaining Cal-Trans permits for the wells. During discussion concerning additional onsite monitoring wells, Mr. Chan suggested moving one of our proposed monitoring well locations (located on the southwest corner of the site) to the north a few feet so it would be situated more downgradient from the former waste oil and former gasoline storage tanks.

The ACHCSA agreed that the report for installation of the onsite vapor extraction wells and the results of the vapor extraction test would be initiated now and delivered in final form to ACHCSA by **December 1, 1992**. Due to the delays associated with gaining permits from Cal Trans for offsite monitoring well installation (still not received at date of this letter), the report with results of the installation offsite monitoring wells will be combined with results of installation of the additional onsite monitoring wells. ACHCSA wishes to be informed of prolonged offsite access problems, including permitting delays and obtaining offsite owner permission for installation of offsite wells.

In regards to the remediation schedule for this site, it was mentioned that the installation of vapor extraction wells and performance of a vapor extraction test and the need for additional onsite monitoring wells were not included in the original schedules. The ACHCSA agreed to a revised remediation schedule which includes these phases of work. A remedial action plan is due to the ACHCSA on **March 1, 1993**, and the anticipated date for start-up of an interim remediation system is **July, 1993**.

ARCO Station 2107, 3310 Park Blvd., Oakland, California.

In discussions concerning this site, Ms. Hugo asked about the TPHd detected previously at the site. Mr. Whelan explained that ARCO was requesting all laboratory chromatograms from previously ran analyses for study. As ARCO has never stored diesel at this site, it is suspected that the TPHd is actually weathered gasoline, which can fall within the same detectable range as diesel in laboratory analyses.

It was explained that offsite monitoring wells had been installed at the site and that the groundwater recovery well, RW-1, would be installed in conjunction with construction of the

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

interim remediation system, which began October 19, 1992. This recovery well, RW-1, has now been installed. As the monitoring well MW-7, located immediately offsite and downgradient from the ARCO site has contained minor amounts of Benzene, it was agreed that no further assessment is needed at this time. The report including results of the installation of offsite monitoring wells and the recovery well is due to the ACHCSA on January 1, 1993.

ARCO Station 2185, 9800 E. 14th St., Oakland, California.

It was mentioned that the report documenting the underground storage tank removal and replacement had been issued by Roux Associates. ARCO mentioned that field work included in the recently completed subsurface investigation had been delayed until late June to early July, 1992, due to the delays related to the tank replacement activities at the site. The report for the subsurface investigation was issued in final form in September by RESNA. A work plan for additional work at the site will be prepared and submitted to the ACHCSA and RWQCB by December 1, 1992. Work to be proposed in the work plan will include installation of a groundwater recovery well, performance of an aquifer pumping and recovery test, installation of offsite groundwater monitoring wells, conducting an environmental records search, and performing a well survey to locate wells in the vicinity of the site.

In discussing the schedule for remediation at the site, it was also agreed that a Remedial Action Plan (RAP) will be prepared and submitted to the ACHCSA by June 1, 1993 and that design of an interim remediation system would be completed by August 1, 1993. Equipment needed for the system will be ordered and received by November 1, 1993, with the anticipated date for system start-up to be January 1, 1994.

ARCO Station 4494, 566 Hegenberger Rd., Oakland, California

ARCO mentioned that after almost a year of negotiations, offsite access had been granted by the adjacent property owner in July, 1992, for installation of offsite monitoring wells. These wells were drilled and installed in July 1992 and the report detailing the findings from this monitoring well installation was delivered to the ACHCSA on October 29, 1992.

Concerning tank replacement at the site, Mr. Whelan stated that ARCO is attempting to gain approval for a station rebuild in conjunction with tank replacement at the site. Delays associated with gaining the permits and approval for the rebuild have pushed the anticipated start date for these activities to approximately the first quarter 1993. Ms. Hugo asked if ARCO was planning to excavate the area around monitoring well MW-2, the only hydrocarbon impacted part of the site, during tank replacement activities. Mr. Whelan

explained ARCO would not be able to excavate very far due to limitations posed by structures and the offsite properties adjacent to the site. It was generally agreed that over-excavation may be the only feasible alternative for this site.

ARCO Station 276, 10600 MacArthur Blvd., Oakland, California.

ARCO mentioned that the offsite monitoring wells, MW-6 and MW-7, had been installed in the Foothill Square Shopping Center parking lot. One well, MW-7, was screened in the shallow water bearing zone and the other well, MW-6, in the deeper water-bearing zone. It was brought to the attention of Mr. Chan and Ms. Hugo that, as suspected, the groundwater samples collected from the upgradient, offsite, deeper water-bearing zone (from MW-6) contained the highest concentrations of Tetrachloroethene (PCE) of any wells on or near the site. This information supports previous suspicions that the PCE and other VOCs found in the deeper water-bearing zone originate from an offsite source. Mr. Coffman pointed out that while the Foothill Square Site is listed in the Report on Releases of Hazardous Substances from Underground Storage Tanks (page 31, January 1992, Report No. 92-2CWP), it is listed only as a gasoline leak with no reference made to the VOCs. ARCO also mentioned that the ARCO site is listed in the same leak report, but is erroneously listed as a waste oil leak. This is an erroneous listing based on analytical results of soil samples collected during removal of the tank in 1988 (Pacific, February 6, 1989). The samples collected and analyzed for waste-oil compounds from the waste-oil tank pit and immediately surrounding area contained non-detectable concentrations for waste oil and volatile organic compounds. Therefore, there is no evidence of a waste oil leak at the site. Laboratory analysis data from installation of the offsite borings/wells had previously been sent to Mr. Chan along with the monthly site status letters prepared for each site in Alameda County. This data will be included in a report documenting recent onsite and offsite work at the site to be delivered to ACHCSA by February 1, 1993.

Onsite work recently completed at the site includes installation of 7 vapor extraction wells and an additional groundwater monitoring well. The new onsite wells were piped together into the existing offsite vapor extraction system. In late August, a vapor extraction performance test was conducted at the site to compare the performance of the existing offsite system, which uses soil vapor probes, with use of the system using the new onsite vapor extraction wells. Performance data collected during the test will be used to facilitate design and provide information concerning the number of offsite vapor extraction wells which will be needed to enhance operation of the offsite portion of the vapor extraction system. Results of the vapor extraction test will be included in the report to be issued by February 1, 1993.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

ARCO discussed plans to add additional offsite vapor extraction wells to the existing offsite vapor extraction system. ARCO is now working to obtain access for future offsite well installations. It was agreed that the Remedial Action Plan previously submitted to the ACHCSA by ARCO concerning interim groundwater remediation (RESNA, March 18, 1992) would not be implemented by ARCO as the Deeper aquifer at the site is impacted by VOCs from an offsite source. It was also agreed that since the shallow perched aquifer at the site which is impacted by gasoline hydrocarbons will not sustain pumping, the perched water bearing zone will be remediated by the vapor extraction system. Based on the remediation schedules submitted for this site in February 1992, ARCO is either on schedule or ahead of schedule for work to be performed at this site.

Upon conclusion of discussion concerning Station 276, Mr. Barney Chan departed the meeting.

ARCO Station 374, 6407 Telegraph Ave., Oakland, California.

Discussion concerning this site centered around the fact the City of Oakland had recently re-zoned the area and that previously submitted engineering designs would now have to pass through a zoning department review process. This will slow down the installation and start-up of the interim remediation system by a minimum of 60 days. Ms. Hugo asked for names of personnel she might contact at the city concerning this matter and Ms. Voruganti provided her with a listing. The names included Mr. Chris Buckley of the zoning department and Ms. Diane Bradshaw of the planning department. With these new permitting delays, the date for initiating construction of the system at the site will be moved back to at least January, 1993. This will allow for a system start-up date of not before March, 1993.

In reference to other site-related items, Mr. Whelan and Mr. Coffman pointed out that a former Mobil Oil Service Station site, which is a potential secondary source of hydrocarbons in groundwater, is located diagonally across Telegraph Avenue, approximate 120 feet southeast and upgradient/crossgradient of ARCO 374. The street address for this site is 6398 Telegraph Avenue.

This potential secondary source is currently a vacant lot owned by Givens Investment Company (Givens). The site is known to have had an underground-storage tank (UST) leak, as evidenced by placement of the site on the Report on Releases of Hazardous Substances from Underground Storage Tanks, State Water Resources Control Board, California Environmental Protection Agency, January 1992, Report No. 92-2CWP. The service station was present at this location from at least 1957 until at least 1985. According to the Report on Releases of Hazardous Substances from Underground Storage Tanks, the

leak was reported in April 1986 and was last reviewed in June 1990 and no action has been taken by the responsible party since the initial report of the leak. Actions recommended in the report regarding the former Mobile Station included removal of free product and excavation and treatment of contaminated soil.

Mr. Coffman made reference to an AquaScience Engineers report related to tank removal at the former Mobil site, which, Ms. Hugo requested a copy be forwarded to her and one has been sent. In the AquaScience Engineers report, dated May 27, 1986, it is stated that soils in the tank pit from removed tanks had a motor fuel smell and each tank pit contained water with floating product. The tank pits were excavated to a depth of twelve feet and groundwater was encountered at approximately twelve feet. The report states that the waste oil tank and one 5,000 gallon gasoline tank had holes in them when removed and inspected. Although water was pumped from the tank pits and disposed of, there is no record that any further investigation to evaluate and delineate the impact the leaking waste oil and gasoline tanks to groundwater at the former Mobil Station. Since the tanks were leaking directly into the tank pit which was in direct communication with the aquifer, it is probable there has been impact to the groundwater from these tanks. This may be a source of the gasoline hydrocarbons detected in groundwater samples from well MW-2 at the ARCO site, which is closest to the former Mobil site and upgradient from any possible ARCO source of gasoline hydrocarbons.

Ms. Hugo asked whether ARCO intended to install offsite groundwater recovery wells to be used in the groundwater remediation system. ARCO replied that once the system was operational and data had been studied, ARCO would evaluate the need for and feasibility of additional recovery wells. ARCO stated that permitting and gaining access for installation of offsite recovery wells which would then need to be piped into the groundwater remediation system could prove to be very difficult and take several months to accomplish.

Upon conclusion of discussion concerning Station 374, Ms. Valli Voruganti departed the meeting. The following three ARCO sites, 2112, 2169, and 4931 were discussed by Ms. Susan Hugo, Mr. Michael Whelan, and Mr. John Vargas and Ms. Diane Lundquist.

ARCO Station 2112, 1260 Park St., Alameda, California.

An Interim Remedial Action Plan was issued on August 27, 1992. This document discusses the remediation approach chose for this site. The System will include vapor extraction and groundwater pump and treat technologies. Previous vapor extraction and aquifer test data were to identify the number of required wells. All permits have been received at this time and construction is scheduled for October 19, 1992. The Remedial System is scheduled for start-up in February 1993.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

An additional recovery well and down-gradient well were installed. Petroleum hydrocarbons in the down-gradient well were not observed.

Ms. Hugo asked if ARCO had a contingency plan to address potential breakdown of the system. GeoStrategies Inc., has prepared an Operation and Maintenance Plan. This Plan provides that any pumps or system equipment will be repaired. Telemetry will also be added to the system so that GeoStrategies Inc., will be notified as soon as there are system problems. Groundwater piping and the system enclosure slab have been designed for secondary containment.

Ms. Hugo asked how long the system will be operating. Soil clean-up should be relatively short and the anticipated groundwater clean-up duration as outlined in the schedule for this site is for five years. After an initial start-up and operation period, a better estimate may be possible.

Ms. Hugo asked about the number of carbon beds and their replacement schedule. The groundwater system will include two 180 pound carbon vessels. Calculations for the minimum replacement periods are included in the Interim Remedial Action Plan. The Operation and Maintenance Plan provides for monitoring the influent and effluent air and water systems on a routine schedule. Carbon will be replaced once breakthrough has been detected in the first carbon beds.

“889”
ARCO Station 2169, 899 W. Grand Ave., Oakland, California.

The Remediation Implementation schedule will be revised to accommodate delays in completing the onsite assessment. The original schedule assumed this assessment would be performed concurrently with the tank removal project. However, due to space limitations at the site caused by the large quantity of stockpiled soils during tank replacement, ARCO anticipates a 4-month delay in completing the assessment. This delay pushes back the estimated system start-up date to September 1, 1993.

The onsite assessment is to be completed at this time, Vapor extraction and aquifer tests have been completed. These remedial technologies appear to be feasible. The report documents these activities in a draft. Diesel was reported for previous groundwater samples at this site. Laboratory results for other ARCO stations have erroneously reported diesel. ARCO plans to do additional analysis to confirm whether diesel has impacted the soil and groundwater. A draft report has been submitted to ARCO. The report of onsite work and a Work Plan for offsite assessment will be issued in late October to early November, 1992.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

ARCO Station 4931, 731 W. MacArthur Blvd., Oakland, California.

Mr. Vargas and Ms. Lundquist discussed the progress at his site. The Remedial System underground and enclosure has been completed. Equipment installation and start-up will be performed once all equipment is received from the manufacturers. GeoStrategies Inc., anticipated start-up by the first part of November.

A passive product skimmer has been installed in Well W-8. A products pump will be installed in this well when the system is operational. Recovery Well are AR-1 was installed adjacent to Well A-4 to address product in the well. A report documenting the installation of additional recovery wells is in draft. This report is scheduled for completion by the end of October early November.

Ms. Hugo wanted TOG and lead analyzed for four-quarters to verify that groundwater has not been impacted. ARCO agreed to analyze Well A-2 for these constituents.

Following this discussion, the meeting adjourned for lunch at 12:15 p.m. After the lunch break, at approximately 1:15 p.m., the meeting resumed with Mr. Michael Whelan, Ms. Susan Hugo, and Mr. Joel Coffman present.

ARCO Station 6148, 5131 Shattuck Ave., Oakland, California.

Discussion began with Ms. Hugo granting approval for work proposed in work plan (RESNA, September, 1992) for installation of additional onsite monitoring wells. The report containing the results to the additional well installations is due to the ACHCSA on February 1, 1993. There was a question concerning the recently submitted 2nd quarter monitoring report for the site in which floating product was reported at 0.5 feet in one of the monitoring wells. Mr. Coffman said he would check into the matter as this was probably a mistake. A follow-up letter with corrected tables showing the correct product thickness of 0.05 feet was sent to Ms. Hugo.

Ms. Hugo requested that one of the wells (MW-1 through MW-3) be tested for all waste oil constituents, including TOG, TPHd, metals, VOCs, and 8270 for a minimum of 4 consecutive quarters. If no waste oil constituents are found, analysis for those constituents will be discontinued.

Ms. Hugo agreed it would be reasonable to decommission two of the three closely spaced monitoring wells, MW-1 through MW-3, located near the former waste-oil tank at the southwestern corner of the site. The wells to be decommissioned will be determined upon installation of the proposed additional monitoring wells and using data from 1 quarter of

monthly monitoring to establish the gradient at the site. The well to remain will be the well determined to be downgradient from the former waste-oil tank.

A work plan with proposed location of a groundwater recovery well, possible vapor extraction wells (if applicable), an aquifer test, and a vapor extraction test (if applicable) will be prepared and submitted to ACHCSA by **March 1, 1993**. The report documenting work in this work plan will be submitted to ACHCSA by **August 1, 1993**. A Remedial Action Plan (RAP) will begin to be prepared for the site as soon as results from the aquifer test and/or vapor extraction test are evaluated. The RAP is due to ACHCSA by **September 1, 1993**. The design and permitting of an interim remediation system at the site will begin in July, 1993, and is due to be completed by **October 1, 1993**. This schedule will allow for construction bids to be evaluated by **November 1, 1993**, which will provide a **February 15, 1994** construction date for the interim remediation system. This schedule will place start-up of the system at **April 1, 1994**.

Following discussion of this site, Mr. Scott Seery of the ACHCSA joined Ms. Susan Hugo, Mr. Michael Whelan, and Mr. Joel Coffman for the remainder of the site discussions.

ARCO Station 6041, 7249 Village Pkwy, Dublin, California.

Discussion concerning this site began with Mr. Seery providing some groundwater monitoring data from sites on different corners of the same intersection as the ARCO 6041 site. These sites included Unocal, BP, and Oil Changers (former Shell Oil Station) sites. The information provided by Mr. Seery showed monitoring wells on the northern perimeter (closest to ARCO site) that had or continue to have much higher levels of gasoline hydrocarbons in groundwater than wells on the ARCO site. As ARCO had presented the ACHCSA a work plan in which part of the proposed work was installation of offsite groundwater monitoring wells, it was agreed the offsite portion of the work would not proceed until some of the other responsible parties were contacted by the ACHCSA. ARCO would proceed with the onsite portion of work proposed in the work plan, which included a records search to identify potential offsite sources of hydrocarbons, installation of additional onsite monitoring wells, installation of onsite vapor extraction wells, and performing a vapor extraction test. The report for this portion of the work is due to ACHCSA on **February 1, 1993**.

Following three months monitoring of the new and pre-existing monitoring wells at the site to determine optimal positioning of a groundwater recovery well (RW-1), RW-1 will be installed and an aquifer test will be performed at the site. The report with results of the installation of the recovery well and aquifer test is due to ACHCSA on **August 1, 1993**. A Remedial Action Plan is due to the ACHCSA on **September 1, 1993**, and design of an

interim remediation system for the site is to be completed by **November 1, 1993**. With this schedule, construction bids should be secured by **December 1, 1993**, which will allow for construction of the interim remediation system to begin on **February 1, 1994**. This schedule provides for start-up of the system by **April 1, 1994**.

The offsite investigation was not placed on any definite schedule during the meeting due to information provided by Mr. Seery which showed the properties across the streets from the ARCO site (Unocal, BP, and former Shell sites) with groundwater impacted by greater concentrations of gasoline constituents than the ARCO site. This information concerning these properties across the street also indicated some of these sites with monitoring wells which are located near property boundaries (closest to the ARCO site) which contain groundwater with relatively high concentrations of gasoline constituents. Based on this information, it was agreed that any offsite investigation by ARCO will be delayed as other parties appear more likely to be responsible for offsite groundwater which may be impacted by gasoline constituents.

ARCO Station 2152, 22141 Center St., Castro Valley, California.

Discussion concerning this site was centered upon starting dates for construction of the soil vapor extraction system at the site. Mr. Whelan explained that the actual date for beginning construction at the site could vary anywhere from **mid-November 1992 to mid-January 1993**, due to internal ARCO factors associated with closing the station. Due to the amount of trenching to be performed for installation of remediation system piping, the site may have to be completely closed. In any event, the latest date given by ARCO for start-up of the system is **March 15, 1993**.

Groundwater has continued to contain non-detectable concentrations of gasoline hydrocarbons over the last few quarterly monitoring episodes and offsite investigation is not warranted. The extent of soils impacted by gasoline hydrocarbons has been delineated onsite.

ARCO Station 601, 712 Lewelling Blvd., San Leandro, California.

Mr. Seery said the contract between the City of San Leandro and ACHCSA was being worked out and was almost finished. He said this site was still considered to be in the deposit/refund section of oversight within the ACHCSA and would be transferred to the local oversight program (LOP) as soon as ACHCSA was granted the contract by the City. He requested a check from ARCO for \$601.00 for time he has spent reviewing the project at his \$71.00/hour rate.

The response letter to Mr. Seery's letter of July 30, 1992 was discussed next. Mr. Seery wanted to have additional soil borings near the former waste-oil tank drilled and sampled for waste-oil constituents. He cited the high (287.1 ppm) lead content in samples previously collected from Boring B-6/MW-1 as rationale for this request. Mr. Whelan suggested we are proposing to stop any offsite migration of these compounds in groundwater with the proposed groundwater recovery system to be installed at the site and that ARCO would sample the perimeter well (MW-8) in the downgradient direction from the former waste-oil tank to ascertain that these compounds had not migrated to the site perimeter. It was pointed out that the soils at the site are very impermeable and migration of compounds from the former waste-oil tank would be very unlikely as evidenced by results from the ARCO vapor extraction test and the Aquifer test performed across the street from the site at the former Shell Station.

Mr. Seery would not agree with this proposal and asked that well MW-1, located near the former waste-oil tank be sampled and analyzed for waste-oil constituents. As this well has historically contained floating product, we explained that matrix interference would probably result. Discussion followed about laboratories as Mr. Seery stated that someone at Pace Laboratories had told him we could run analyses for halocarbons, metals, the 8270, and TOG without interference by the product in the well. It was agreed that this issue would be further explored. Mr. Seery stated that on some occasions, there was no product in well MW-1 but this had not coincided with our scheduled sampling dates. He suggested, and ARCO agreed to be ready to sample MW-1 on any occasion in which there is no product present.

ARCO suggested that we collect soil samples in proposed soil boring B-17, to be located in the southeast corner of the site, crossgradient from B-6/MW-1, and analyze them for lead content to establish background levels for lead at the site. This was suggested in response to Mr. Seery pointing out that B-6 contained lead at up to 130 ppm in samples collected below first-encountered groundwater at the site. As lead doesn't readily migrate downward through clays and silts, Mr. Whelan suggested this may be indicative of a regional problem with lead in soils.

Concerning Mr. Seery's assertion that ARCO may be required to investigate the deeper water-bearing zone for possible hydrocarbon impact, he stated this may be required in the future. He stated that boring logs from the site showed bioturbation and roots at depths up to 16-1/2 feet. Mr. Coffman pointed out that soil samples collected from the clay aquitard beneath the site contained nondetectable amounts of gasoline hydrocarbons and that according to the GeoStrategies report concerning the former Shell site across the street from the ARCO site, no deeper aquifer was encountered at depths up to 25 feet below ground surface.

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

It was discussed that we would have the report of additional on and offsite investigation to Mr. Seery approximately 16 weeks from the date agreement was reached on scope of work to be performed and that this schedule may be altered due to city and other offsite encroachment concerns.


Discussion concerning the remediation schedule for this site included ARCO informing Mr. Seery of the fact that City Planning and Engineering Departments were requiring plans and specifications for the trench remediation system to be signed and stamped by a Professional Civil Engineer. ARCO also informed Mr. Seery that permitting delays can be expected due to the complex nature of the interim remediation system to be installed. These delays will move the anticipated start-up date for the system to the third quarter of 1993 and possibly into the fourth quarter 1993.

Discussion concluded with agreement that ARCO and Mr. Seery would speak again the week of October 5, 1992 concerning this site. The meeting was concluded at approximately 5:15 p.m.

Mr. Joel Coffman and Mr. Seery spoke on October 9, 1992 regarding ARCO's decision to proceed with drilling and sampling three soil borings in the vicinity of the former waste-oil tank, as Mr. Seery requested. These borings were drilled and sampled by RESNA on October 12, 1992 and samples from these borings will be analyzed for the waste-oil constituents as outlined in Table 2 of the Regional Water Quality Control Board's August 10, 1990 recommendations.

If you have any questions or comments concerning these minutes to the meeting, please call us at (408) 264-7723.

Sincerely,
RESNA Industries Inc.


Joel Coffman
Project Geologist

cc: Michael Whelan, ARCO Products Company
Chris Winsor, ARCO Products Company
John Meck, ARCO Legal Dept.
John Jang, RWQCB
Richard Hiatt, RWQCB
John Vargas, GeoStrategies

October 12, 1992

92 OCT 14 PM 12:55

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

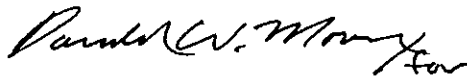
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1992; also included are projected site activities for the fourth quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning the next comprehensive QSR submittal for ARCO sites on January 15, 1993. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs

UST LEAK Date of Last Current
SITE UPDATE Review/Update: 7/10/92 Date: 10/1/92

SITE IDENTIFICATION

Name: ARCO Products Company #2169 Case No.: _____
Address: 889 West Grand Avenue
Street Number Street
Oakland 94607
City Zip Code
Alameda Substance: Gasoline
County
Local Agency: Alameda County Health Agency, Department of Environmental Health
Regional Board: San Francisco Bay Region

LEAD STAFF PERSON: Dennis Byrne

CASE TYPE:
 Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)
 No Action Taken
 Leak Being Confirmed Date: July 1988
 Preliminary Site Assessment Workplan Submitted Date: October 29, 1991
 Preliminary Site Assessment Underway Date: July 1991
 Pollution Characterization Date: _____
 Remediation Plan Date: _____
 Remedial Action Underway Date: _____
 Post Remedial Action Monitoring Date: _____
 Case Referred to Regional Board Date: July 1988
 Case Referred to Dept. of Health Services Date: _____
 Case Closed Date: _____

MILESTONES:

A Work plan proposing the installation of four groundwater monitoring wells, three vapor extraction wells and one groundwater recovery well has been issued for this site. A tank removal and replacement project began in January, 1992 and was completed in April, 1992. In March 1992, four monitoring wells (A-1 through A-4) and one recovery well (AR-1) were installed on-site. Three vapor extraction/monitoring wells and one recovery well were installed on-site in June, 1992. Refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

Step/drawdown and constant rate aquifer tests were performed utilizing on-site wells. A vapor extraction pilot test was performed. Third quarter, 1992 monitoring and sampling were performed. An Underground Storage Tank Removal and Soil Sampling Report was issued documenting tank replacement activities.

ANTICIPATED ACTIVITIES:

Ground-water monitoring and sampling will continue on a quarterly basis. Issue a report documenting the latest well installations, the above mentioned site activities, third quarter, 1992 sampling results, and a proposal for additional groundwater wells.

SS# 2169

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.
Work Plan	October 29, 1991	GeoStrategies Inc.
Well Installation Report	June 30, 1992	GeoStrategies Inc.
Underground Storage Tank Removal and Soil Sampling Report	July 14, 1992	ROUX Associates

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

92 SEP 25 10:47

September 23, 1992
0923shgo

Ms. Susan Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94612


Subject: Proposed Agenda for Meeting at your office on September 30, 1992.

Dear Ms. Hugo:

We have prepared this proposed agenda for the meeting we have scheduled at your office on September 30, 1992. This meeting will be for discussion of sites under direction of Mr. Richard Hiatt and Mr. John Jang of the Regional Water Quality Control Board (RWQCB). We understand these RWQCB personnel may not be able to attend the entire meetings but may be able to stop by for site specific discussions. A separate meeting to discuss sites overseen by Mr. Eddie So of the RWQCB will have to be scheduled at another date as he has other agencies involved with many of his sites.

Items we would like to discuss include the following: ongoing assessment at the sites, offsite access problems and possible offsite contributing polluters, schedules for remediation, and other issues as they arise in discussing the sites. If you have any questions or comments concerning this proposed agenda, please call us at (408) 264-7723.

Sincerely,
RESNA Industries, Inc.



Joel Coffman
Project Geologist

cc: Michael Whelan, ARCO Products Company
John Jang, RWQCB
Richard Hiatt, RWQCB
John Vargas, GeoStrategies

September 21, 1992

Proposed Agenda for September 30, 1992 ACHCSA Meeting

	<u>ARCO Station</u>	<u>ACHCSA Staff</u>	<u>RWOCSB Staff</u>	<u>Cnsltnt</u>
	# 276, 10600 MacArthur Blvd.	Barney Chan	Richard Hiett	RESNA
	# 2035, 1001 San Pablo, Albany	Barney Chan	Richard Hiett	RESNA
00 - 10:30	# 2107, 3310 Park Blvd.	Barney Chan	Richard Hiett	RESNA
	# 2185, 9800 E. 14th St.	Barney Chan	Richard Hiett	RESNA
	# 4494, 566 Hegenberger Rd.	Barney Chan	Richard Hiett	RESNA
	# 374, 6407 Telegraph Ave.	Susan Hugo	Richard Hiett	RESNA
	# 2112, 1260 Park St., Alameda	Susan Hugo	Richard Hiett	G/Ryan
30 - 12:00	# 2169, 899 W. Grand Ave. 889	Susan Hugo	Richard Hiett	G/Ryan
	# 4931, 731 W. MacArthur	Susan Hugo	Richard Hiett	G/Ryan
	# 6148, 5131 Shattuck Ave.	Susan Hugo	Richard Hiett	RESNA
	# 6041, 7249 Village Pkwy, Dublin	Scott Seery	Richard Hiett	RESNA
	# 2152, 22141 Ctr. St., Castro Valley	Scott Seery	Richard Hiett	RESNA
1:00 - 3:00	# 601, 712 Lewelling Bd., San Leandro	Scott Seery	John Jang	RESNA

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



92 JUL -6 PM 2:42

July 3, 1992

Mr. Richard Hiett
California Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: Minutes of Meeting on June 11, 1992 at the Regional Water Quality Control Board (RWQCB) to discuss work progress at ARCO Stations which are under the jurisdiction of Mr. Richard Hiett of the RWQCB.

Mr. Hiett:

I would like to thank you and the people from the Alameda County Health Care Services Agency (ACHCSA) for agreeing to meet with ARCO and our consultants concerning ARCO sites within your regulatory jurisdiction located within Alameda County, California. This letter is our understanding of the status and schedules for the sites which were discussed. If you should notice any discrepancies from your understanding of the status or schedule of these sites noted, please notify ARCO. This letter is a brief overview of a meeting held at the RWQCB in Oakland, California at 2:00 pm on Thursday, June 11, 1992 concerning work progress and plans for future work at ARCO Stations in Alameda County, California which are currently under the regulatory jurisdiction of Mr. Richard Hiett of the RWQCB. Attending the meeting were Mr. Richard Hiett and Mr. Lester Feldman of the RWQCB; Ms. Susan Hugo, Mr. Scott Seery, Mr. Ed Howell, Ms. Juliet Shin, and Mr. Barney Chan of the Alameda County Health Care Services Agency (ACHCSA); Mr. Michael Whelan of ARCO Products Company (ARCO); Mr. John Vargas and Ms. Diane Lundquist of GeoStrategies Inc.; and, Ms. Valli Voruganti and Mr. Joel Coffman of RESNA Industries.

The meeting was held at the request of ARCO to introduce Mr. Michael Whelan as the acting environmental engineer overseeing ARCO sites in Alameda County, California and to provide the RWQCB and the ACHCSA a brief overview of work being performed at the subject sites.

An agenda for the meeting had previously been sent to Ms. Susan Hugo of the ACHCSA for distribution among the various caseworkers within her agency. The following is an overview of the agenda and items for discussion:

Mr. Richard Hiatt
July 3, 1992

<u>ARCO Station</u>	<u>Address & City</u>
276	10600 MacArthur Blvd., Oakland
374	6407 Telegraph Ave., Oakland
414	3000 Shattuck Ave., Berkeley
2035	1001 San Pablo Ave., Albany
2107	3310 Park Blvd., Oakland
2152	22141 Center St., Castro Valley
2169	889 899 W. Grand Ave., Oakland
2185	9800 E. 14th St., Oakland
4494	566 Hegenberger Rd., Oakland
4931	731 W. MacArthur, Oakland
6041	7249 Village Parkway, Dublin
6148	5131 Shattuck Ave., Oakland

Topics for discussion to include:

- Permitting and Access Problems, including City of Oakland
- Anticipated Remediation Schedules
- Plan of Action to Complete Delineation of Site
- Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them
- Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?

Mr. Richard Hiett
July 3, 1992

The meeting convened at 2: 00 pm on June 11, 1992 and upon completion of introductions, Mr. Ed Howell indicated that the ACHCSA was the oversight agency for all of Alameda County with exception to the cities of Berkeley, San Leandro, Hayward, Fremont, Newark, Union City, and Pleasanton. The Alameda County Water District (ACWD) has oversight in Fremont, Newark, and Union City, California. Currently, the ACHCSA is negotiating with the cities of Berkeley and San Leandro to allow ACHCSA oversight of sites within their cities. Mr. Hiett explained that he was the RWQCB engineer for sites in Alameda County which include all sites with exception of the cities which regulate themselves (referenced above) and the city of Livermore. He explained that John Jang was the RWQCB engineer with responsibility for the self regulated cities of Berkeley and San Leandro and that Eddy So has responsibilities for the sites within the cities of Livermore and Hayward and the cities within the ACWD. Mr. Barney Chan of the ACHCSA is now in charge of overseeing sites for the ACHCSA which were previously under the direction of Mr. Paul Smith and Mr. Larry Seto of the ACHCSA. These sites include ARCO Stations 276 and 2107 in Oakland, California and ARCO Station 2035 in Albany, California.

Mr. Whelan explained that ARCO's general approach to investigation consists of multiple phases of work, often being performed simultaneously. To expedite the processes involved in delineating and remediating a site, ARCO often will gather results from a subsurface investigation, vapor extraction test, or aquifer test and pass the information to engineers so remedial system design can begin before formally finalizing the reports. To further expedite the process, ARCO requested for the ACHCSA to speed up their review of work plans and remedial action plans. Mr. Whelan also explained that often during tank removal and replacement activities, ARCO installs several types of piping in trenches across the site which can later be used in various types of remediation systems. This piping is designed to accommodate electrical and air lines for pumps, groundwater extraction and soil vapor extraction. This approach minimizes disruption at the site during future installation of various remediation systems.

Site specific items of discussion were as follows:

Station 276, 10600 Mac Arthur Blvd., Oakland, California

Mr. Chan raised several concerns related to Station 276 including a desire for the groundwater gradient of the shallow perched water-bearing zone at the site to be established and full delineation of hydrocarbon impacted soil and groundwater at the site. The halogenated volatile organic compounds (VOCs) found in groundwater at the site were also discussed and it was disclosed that ARCO would be installing offsite upgradient wells to determine an offsite source was responsible for VOCs found in groundwater at the site. It

Mr. Richard Hiatt
July 3, 1992

was pointed out that during removal of the waste oil storage tank at the site, there was no evidence of waste oil contamination in soils surrounding the tank and no onsite source for the VOCs. It was also pointed out that the adjacent upgradient property had been an automobile manufacturing plant from circa 1920's to the late 1950's and that operations associated with those activities may be the source of the VOC problem in groundwater at the site.

ARCO stipulated that they do not want to start pumping and treating VOC impacted groundwater at the site until the source of the VOC contamination is identified and the upgradient extent of VOCs in soil and groundwater is delineated. ARCO does not want to clean up groundwater that was impacted by others. Pumping prior to resolution of these matters may actually pull more VOCs onto the site from a probable offsite source. The adjacent upgradient property is listed on the fuel leaks list as Foothill Square Shopping Center. Mr. Richard Gilcrease is the representative of the current property owner, Drake Builders, whom ARCO has been in contact with concerning installation of monitoring wells on the adjacent upgradient property. The last address known for correspondence with Drake Builders is: 5200 Panama Avenue, Richmond, California 94804. Mr. Lester Feldman stated that if the VOC problem is shown to originate from offsite that the RWQCB will pursue the responsible offsite parties for clean up.

The installation of onsite vapor extraction wells and their connection to an existing vapor extraction system at the site was also discussed. At least one of the onsite vapor extraction wells in the southwest corner of the site will be completed as a combination vapor extraction/groundwater monitoring well, if the shallow perched water-bearing zone is not encountered, to help delineate the onsite extent of hydrocarbon impacted groundwater and to provide better groundwater gradient information.

It was explained that ARCO's approach to remediation was to close the site down once and install all necessary and anticipated remediation piping. At this site, it was pointed out that tying into groundwater recovery well RW-1 doesn't imply that ARCO will or is required to remediate the groundwater since the VOCs there probably originate from an offsite source and gasoline hydrocarbons have not impacted groundwater in that portion of the site.

Station 374, 6407 Telegraph Ave., Oakland, California

Discussion about this site with Ms. Susan Hugo of the ACHCSA and Mr. Hiatt of the RWQCB included mention of the fact that obtaining encroachment permits from the City of Oakland had been a lengthy, time consuming process which had taken some six months to complete. Mr. Hiatt suggested getting names of personnel at the City of Oakland and

Mr. Richard Hiatt
July 3, 1992

that maybe his agency could contact these people to speed up future encroachment permitting. Ms. Hugo was informed that two offsite and downgradient monitoring wells (MW-5 and MW-6) had recently been installed and that soils and groundwater from the borings/wells contained nondetectable levels of gasoline hydrocarbons. A technical report with all field results related to the installation of these offsite wells is being prepared by RESNA.

It was pointed out that a service station located across Telegraph Avenue to the east in the upgradient or cross gradient direction from ARCO Station 374 had been taken out of service during the mid 1980s and that there was a report documenting soil contamination from that site. There is no record in the files that an investigation to determine if groundwater beneath this former service station was impacted by hydrocarbons detected in the soils. This was of concern to ARCO as the onsite monitoring well MW-1, located cross gradient and relatively close to the source area (former tanks) has been consistently free of hydrocarbon impacted groundwater while the onsite monitoring well MW-2, located further from the source and in the upgradient direction from the source at the ARCO site has consistently contained hydrocarbon impacted groundwater. This leads ARCO to believe hydrocarbon impacted groundwater below this portion of the site may originate from the site across Telegraph Avenue to the east.

Ms. Hugo mentioned that an onsite groundwater monitoring well (MW-4) had once contained total petroleum hydrocarbons as diesel. Mr. Whelan pointed out that ARCO had never stored diesel at the site and that weathered gasoline would often show up as diesel on laboratory chromatograms.

In addition, Ms. Hugo gave verbal approval of the Remedial Action Plan for interim soil and groundwater remediation submitted by RESNA on behalf of ARCO.

Station 414, 3000 Shattuck Ave., Berkeley, California

As stated above, sites being discussed in this meeting were those under guidance of Mr. Hiatt of the RWQCB. This site is currently under direction of Mr. Jang and therefore was passed over and not discussed in this meeting.

Station 2035, 1001 San Pablo Ave., Albany, California

Mr. Barney Chan of the ACHCSA recently assumed oversight responsibilities for this site from Mr. Larry Seto. He was not completely up to date with previous activities conducted at the site. It was mentioned that the tanks had been replaced during July and August of

Mr. Richard Hiett
July 3, 1992

1991 and that a subsurface investigation including an aquifer test had been completed at the site. Resna prepared technical reports on behalf of ARCO for the subsurface investigation and the tank replacement. It was also brought to Mr. Chan's attention that a work plan addendum had been prepared by RESNA and delivered to the ACHCSA during May 1992. Mr. Chan said he would review the work plan and get back to ARCO and RESNA with any comments he might have. As of the date of this letter, approval of this work plan addendum has not been received. Additional wells in the vicinity of the new tanks will be proposed under a separate phase of work.

Station 2107, 3310 Park Blvd., Oakland, California

Mr. Barney Chan of the ACHCSA recently assumed oversight responsibilities of this site from Mr. Paul Smith. He was not completely up to date with previous activities conducted at the site. Mr. Joel Coffman and Ms. Valli Voruganti of RESNA explained the proposed groundwater treatment system to be installed at the site along with installation of offsite monitoring wells to delineate the extent of hydrocarbons in groundwater beneath the site. Mr. Chan requested that groundwater from the wells be analyzed for total petroleum hydrocarbons as diesel (TPHd) as TPHd had previously been detected at the site. Mr. Whelan of ARCO explained that ARCO had never stored diesel at the site and that weathered gasoline often showed up on laboratory chromatograms as diesel. It was agreed that downgradient wells will be sampled one time to confirm that TPHd found in the soil was indeed weathered gasoline.

Station 2152, 22141 Center St., Castro Valley, California

Mr. Scott Seery of the ACHCSA was informed that the proposed soil borings (B-19 and B-20) had been drilled and all soil samples collected for analysis from the borings contained nondetectable concentrations of gasoline hydrocarbons, therefore, vapor extraction wells were not constructed in the borings. It was explained by RESNA that the groundwater has only shown trace amounts of hydrocarbon impact on two quarterly monitoring episodes, once each during the spring of 1990 and 1991. All wells have contained nondetectable concentrations of gasoline hydrocarbons since the spring of 1991. Mr. Seery made mention of the fact he had not received a copy of the report related to the soil borings. ARCO and RESNA told Mr. Seery that the report should be issued within 30 days.

It was noted that the Bay Area Air Quality Management District had issued a permit granting RESNA and ARCO the authority to construct a soil vapor extraction system at the site. Progress of obtaining other permits was also discussed.

Mr. Richard Hiatt
July 3, 1992

Station 2169, 899 W. Grand Ave., Oakland, California

Mr. John Vargas discussed the site background for this site. Four monitoring wells and one groundwater extraction well were installed in March 1992 to assess the groundwater conditions at the site. The previous tanks were removed and relocated between February and May, 1992. This work was performed in response to petroleum hydrocarbons identified in a monitoring well adjacent to the previous tank complex. A report of these field activities is in progress and will be submitted to the ACHCSA in July, 1992. In addition, three vapor extraction wells and one groundwater extraction well, located in the new tank complex, were installed on June 8, 1992. A vapor extraction test was performed on June 11, 1992. A report documenting the results of the vapor extraction test and well installations is in preparation.

Ms. Susan Hugo queried how we chose the locations of these wells. Mr. Vargas explained that since petroleum hydrocarbons had impacted onsite groundwater, wells were located at the property boundaries in addition to a well within the previous tank complex. Since petroleum hydrocarbons were identified in an upgradient well, there may be offsite sources. Planned site activities include research for offsite sources, performance of an aquifer test and offsite assessment. Once aquifer characteristics are determined, ARCO will initiate design and permitting of a remediation system.

Station 2185, 9800 E. 14th St., Oakland, California

Mr. Barney Chan discussed how he wanted the subsurface investigation to proceed as he had previously discussed with Mr. Chuck Carmel of ARCO and Mr. Paul Supple of Roux Associates. It was explained that the site was still fenced off and under construction due to a problem encountered by the contractors that performed the tank removal and replacement. Mr. Chan also asked about the subsurface piping that was installed at the site to be used for future remediation. Mr. Whelan explained that piping for remediation purposes was scheduled to be installed at the site, but, due to problems associated with the subcontractor, the piping was not installed and will be installed during the construction phase of any remediation system which may need to be built at the site. The tank replacement report was recently submitted to the ACHCSA by Roux Associates.

As documented in a previous letter written to Mr. Barney Chan, it was also discussed with Mr. Chan that ARCO wished to hold off the initiating of obtaining offsite access for installation of offsite monitoring wells at the site until onsite groundwater monitoring wells were installed and monitored to determine the gradient and direction of groundwater flow beneath the site.

Mr. Richard Hiett
July 3, 1992

Station 4494, 566 Hegenberger Rd., Oakland, California

Mr. Chan expressed concern that although ARCO had submitted a permit application for removal and replacement of the underground storage tanks at the site and that approval for tank replacement had been granted in November 1991, he has still not been given a firm schedule for the replacement of the tanks at the site. Mr. Whelan explained the different responsibilities of the various groups within ARCO and that the ARCO construction department was responsible for the tank replacement scheduling and that he was not involved. However, Mr. Whelan also pointed out that ARCO is in compliance with tank testing requirements and that results of tank and product line leak tests show the tanks and lines are not leaking. The site is on an ARCO tank replacement list, but, the schedule has not been finalized. ARCO will replace the tanks in accordance with deadlines and other requirements as set forth by applicable state guidelines.

It was disclosed that after almost a year of negotiation, an agreement had finally been reached with the adjacent property owner downgradient from the site for installation of offsite groundwater monitoring wells. This work is to be performed in July 1992 along with installation of an additional onsite monitoring well in the northwestern portion of the site.

Station 4931, 731 W. MacArthur, Oakland, California

Mr. John Vargas and Ms. Diane Lundquist discussed the progress at this site since the January 17, 1992 meeting held between ARCO and the ACHCSA. Floating product has been observed in wells A-4 and A-8. A product skimmer will address the floating product in well A-8 until the remedial system is installed. Well A-2, which is adjacent to the former tank complex, was analyzed for oil and grease and lead. These constituents were not identified. The offsite upgradient well and onsite recovery wells were scheduled to be drilled June 12 and 15, 1992. A well located crossgradient to the east of the site is not feasible to install due to access problems.

The tank replacement and relocation project is still in progress. Additional soils were removed from the previous tank complex as requested by the ACHCSA in the January 1992 meeting. Some impacted soil, containing less than 151 parts-per-million hydrocarbons, was left in place due to site constraints (ARCO's facility building and pump islands) which limited the extent of the excavation. A vapor extraction test indicated that vapor extraction is not a feasible option to remediate these areas.

Permits for construction of the remediation system for groundwater discharge have been obtained. The remediation system trenching and construction was scheduled to begin in mid

Mr. Richard Hiett
July 3, 1992

to late June, 1992. Start-up of the remedial system is scheduled for the third quarter of 1992.

Station 6041, 7249 Village Parkway, Dublin, California

RESNA explained to Mr. Scott Seery that there is a Unocal Station across the street directly west of the ARCO site which has reported significantly higher concentrations of hydrocarbon impacted groundwater. This was pointed out for informational purposes only as RESNA, on behalf of ARCO, is preparing a work plan with proposed work which includes installation of additional monitoring wells, installation of vapor extraction wells, a performance of a vapor extraction test, installation of a groundwater recovery well, and performance of an aquifer pumping and recovery test. This work plan will be submitted to ARCO and the proper regulatory agencies upon completion in July 1992.

Station 6148, 5131 Shattuck Ave., Oakland, California

Ms. Hugo stated she had not received the subsurface investigation report associated with the waste oil investigation at the site. Mr. Whelan explained that ARCO is currently reviewing all the analytical data associated with the investigation and that the report will be issued shortly. ARCO is awaiting backup from the laboratory to complete the review of the analytical data. It was also stated a work plan with proposed additional work at the site is being prepared by RESNA for submittal to ARCO and the proper regulatory agencies in July 1992.

Other Topics for discussion:

- **Permitting and Access Problems, including City of Oakland**

Mr. Hiett asked that if problems are encountered gaining encroachment permits, he be given the names of people at the city in charge of issuing the permits so he may phone them and help expedite the process.

- **Anticipated Remediation Schedules**

ACHCSA asked that any delays which slow down the remediation of sites beyond the schedules which were submitted to the Alameda County District Attorney be carefully documented.

Mr. Richard Hiatt
July 3, 1992

- **Plan of Action to Complete Delineation of Site**

Mr. Whelan explained to the RWQCB and ACHCSA that ARCO is aggressively attempting to fully delineate the onsite and offsite extents of any problems associated with these sites.

- **Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them**

This topic was discussed while reviewing the status of each site.

- **Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?**

In addressing the request from ARCO for quicker approval of work plans and addendums to work plans, Mr. Chan pointed out that a responsible party does not have to wait for approval of any kind to implement interim remedial measures at a site.

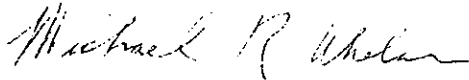
A brief discussion was held about the law under Title 23, Article 11, Chapter 16, Sections 2722 (b)(5) and 2726 (c)(1), which allows for proceeding with proposed work in work plans if not having received approval after 60 days from submittal. Mr. Whelan asked that ARCO be allowed to proceed with proposed work in work plans if the scope of work was the addition of monitoring wells or other work not associated specifically with complex remediation alternatives. Mr. Whelan pointed out that many times in the past work had been significantly delayed due to the time required to obtain work plan approval from the ACHCSA. Mr. Scott Seery asked that ARCO send a note to the ACHCSA requesting work plan review if approval had not been granted when ARCO and it's consultant are ready to implement work or after 45 days from work plan submittal date. This note, with attached figure of proposed well locations, should state that proposed work will proceed if approval has not been granted within the 60 day guideline.

Upon completion of this discussion, the meeting was adjourned at approximately 5:10 pm.

Mr. Richard Hiatt
July 3, 1992

If you have any questions or comments about these meeting minutes, please contact me at (415) 571-2449.

Sincerely,



Michael R. Whelan
Environmental Engineer

cc: Lester Feldman, RWQCB
Susan Hugo, ACHCSA
Chris Winsor, ARCO
John Meck, ARCO
John Vargas, GeoStratagies
Joel Coffman, RESNA Industries

6/11/92

1260 Park St. Alameda

Site - Arco meeting
6/11/92

Sites to be discussed during meeting at RWQCB on June 11, 1992

<u>ARCO Station</u>	<u>Address & City</u>
276	10600 Mac Arthur Blvd., Oakland
374	6407 Telegraph Ave., Oakland
414	3000 Shattuck Ave., Berkeley
2035	1001 San Pablo Ave., Albany
2107	3310 Park Blvd., Oakland
2152	22141 Center St., Castro Valley
2169	899 W. Grand Ave., Oakland <small>'889'</small>
2185	9800 E. 14th St., Oakland
4494	566 Hegenberger Rd., Oakland
4931	731 W. MacArthur, Oakland
6041	7249 Village Parkway, Dublin
6148	5131 Shattuck Ave., Oakland

← VOC problems
2 up gradient wells

July 1992 (late) system in place
6 MWs - 4 VWs - SW direction

John Vargas / Alton Lindquist

→ 3 MWs + 1 Boring (SW →)

5215 Washington Lowell Blvd.

Topics for discussion to include:

- Permitting and Access Problems, including City of Oakland - *name of people signing permit.*
- *delays w/* Anticipated Remediation Schedules → *on schedule or ahead of schedule*
- *next phase of work* → Plan of Action to Complete Delineation of Site
- *joint remediation* → Possible/Probable Contributing Offsite Polluters, Help in gaining access/cooperation/information from them

Quicker approval of addendums to work plans, may we proceed without approval in cases where additional monitoring wells are being added to a monitoring program?

*EP/ARCO
\$12,000
Rico Alvarado
Waste permit*

*drilling schedule
then for permit to
flag*

Interim schedule for corrective action

(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

Date: 2 June 1992
To: Susan
From: Dennis
Subject: Arco station 2169, 889 W. Grand Ave. Oakland.

This site first came to my attention in May of 1991. An Unauthorized Release Report was submitted due to floating product observed in a monitoring well close to the tank pit. Also submitted in May was a closure and new tank installation plan. I approved these plans within days of receiving them. Despite the rapid approval, Arco's consultant insisted that specific work could not proceed. Arco would not schedule work on this site until the County had approved closure and removal plans for all Arco stations.

Between May and July of 1991, Arco had GeoStrategies installed a series of borings. These borings straddled the tank pit. As a part of this study Arco abandoned the well in which floating product had been discovered. No proposal was submitted regarding this work that was termed a "Preliminary Tank Replacement Report". Soil TPH-G contamination ranging from 300 to 1900 ppm was detected at a depth between 10 to 11 feet. Ground water depth at the site is 13 feet. I sent them a letter expressing my displeasure at the well abandonment and emphasizing the need for a timely closure of the tanks. Charles Carmel of Arco responded to my letter, telling me that I was an asshole.

The tanks were pulled in January of 1992. Sidewall samples measured TPH-G contamination from 3.0 to 1200 ppm. Benzene was measured at 6.8 ppm and the highest TPH-D reading was 620 ppm. The area of highest soil residual contamination was oriented toward the building making further excavation infeasible.

In February of 1992 samples were collected from under piping trenches. The highest levels measured were 120 ppm TPH-G, 450 ppm TPH-D and 2.2 ppm Benzene.

A work plan was submitted in October 1991 that entailed the installation of four ground water monitoring wells, one in each corner of the property. These wells were installed as part of the new tank installation project. (The new tanks were not installed in the old pit).

The location of the monitoring wells does not correlate with the former tank pit or hot areas of the piping trench. Therefore the data derived will not satisfy the Board's investigative requirements. At a minimum an additional well located within the former tank pit is needed. To date, no ground water data has been submitted.

① abandoned a well which found FP

January 14, 1992

92 JAN 15 PM 2:17

Mr. Edgar Howell
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

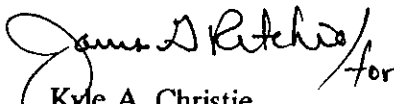
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the fourth quarter of 1991; also included are projected site activities for the first quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

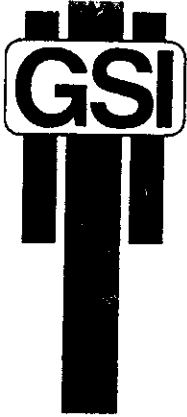
Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on April 15, 1992. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,


for
Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs



GeoStrategies Inc.

January 13, 1993

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of December, 1992 and site activities anticipated for the month of January, 1993.

Status of Previous Month's Activities:

- * Issued a draft Quarterly Monitoring Report presenting fourth quarter, 1992 sampling results to ARCO (due January 15, 1993).
- * Issued a draft Work Plan for two off-site ground-water monitoring wells to ARCO (due January 15, 1993).

Anticipated Work to be Performed in the Next Month:

- * Issue a final Quarterly Monitoring Report presenting fourth quarter, 1992 sampling results to ARCO, ACHA, and RWQCB (due January 15, 1993).


:ARCOMISC/S-U2112.RM(rt)

ARCO Products Company
January 13, 1993
Page 2

- * Issue a final Work Plan for two off-site ground-water monitoring wells to ARCO, ACHA, and RWQCB (due January 15, 1993).
- * Pursue encroachment and well permits for proposed off-site wells and schedule field work (Well Installation Report due April 1, 1993).

If you have any questions or comments, please call.

Sincerely,


John F. Vargas
Senior Geologist

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

December 9, 1992

ARCO Products Company
Post Office Box 5811
San Mateo, California 94402

ST 10 3793
SH

Attn: Mr. Michael Whelan

Re: **Monthly Site Status Update**
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of November, 1992 and site activities anticipated for the month of December, 1992.

Status of Previous Month's Activities:

- * Issued a final Quarterly Monitoring/Continuing Site Assessment Report presenting the results of the installation of three vapor extraction wells and one recovery well, a vapor extraction test, an aquifer test, and third quarter, 1992 monitoring and sampling to ARCO, ACHA, and RWQCB on November 30, 1992 (due early November 1992).

Anticipated Work to be Performed in the Next Month:

- * Issue a draft Quarterly Monitoring Report presenting fourth quarter, 1992 monitoring and sampling results to ARCO (due January 15, 1993).

:ARCOMISC/S927/(rt)


GeoStrategies Inc.

ARCO Products Company
December 9, 1992
Page 2

- * Prepare a work plan for additional assessment (due January 15, 1993).
- * Pursue encroachment and well permits (Well Installation Report due April 1, 1993).

If you have any questions or comments, please call.

Sincerely,


John F. Vargas
Senior Geologist

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiett, RWQCB-San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 NOV 13 11 3:06

(510) 352-4800

November 9, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 94607

Mr. Whelan:

This letter provides an update on activities, for the above referenced site, performed during the month of October, 1992 and site activities anticipated for November, 1992.

Status of Previous Month's Activities:

- * Performed ground-water sampling and monitoring for the fourth quarter

Anticipated Work to be Performed in the Next Month:

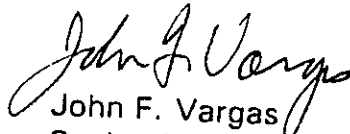
- * Issue Quarterly Monitoring/Continuing Site Assessment Report presenting the results of the installation of three vapor extraction wells and one recovery well, a vapor extraction test, an aquifer test, and third quarter, 1992 monitoring and sampling to ARCO, ACHA, and RWQCB.

GeoStrategies Inc.

ARCO Products Company
November 9, 1992
Page 2

If you have any questions please call.

Sincerely,


John F. Vargas
Senior Geologist

JFV/rmt



cc: Mr. Dennis ~~Byrne~~, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Richard Hiatt, RWQCB, San Francisco Bay Region
Mr. Mark Thomson, Alameda County District Attorney

:ARCO/A927.WP(rt)

STID 3793



RESNA
Working To Restore Nature

Minutes to September 30, 1992 Meeting at ACHCSA

November 4, 1992

An additional recovery well and down-gradient well were installed. Petroleum hydrocarbons in the down-gradient well were not observed.

Ms. Hugo asked if ARCO had a contingency plan to address potential breakdown of the system. GeoStrategies Inc., has prepared an Operation and Maintenance Plan. This Plan provides that any pumps or system equipment will be repaired. Telemetry will also be added to the system so that GeoStrategies Inc., will be notified as soon as there are system problems. Groundwater piping and the system enclosure slab have been designed for secondary containment.

Ms. Hugo asked how long the system will be operating. Soil clean-up should be relatively short and the anticipated groundwater clean-up duration as outlined in the schedule for this site is for five years. After an initial start-up and operation period, a better estimate may be possible.

Ms. Hugo asked about the number of carbon beds and their replacement schedule. The groundwater system will include two 180 pound carbon vessels. Calculations for the minimum replacement periods are included in the Interim Remedial Action Plan. The Operation and Maintenance Plan provides for monitoring the influent and effluent air and water systems on a routine schedule. Carbon will be replaced once breakthrough has been detected in the first carbon beds.

ARCO Station 2169, 899 W. Grand Ave., Oakland, California.

The Remediation Implementation schedule will be revised to accommodate delays in completing the onsite assessment. The original schedule assumed this assessment would be performed concurrently with the tank removal project. However, due to space limitations at the site caused by the large quantity of stockpiled soils during tank replacement, ARCO anticipates a 4-month delay in completing the assessment. This delay pushes back the estimated system start-up date to September 1, 1993.

The onsite assessment is to be completed at this time, Vapor extraction and aquifer tests have been completed. These remedial technologies appear to be feasible. The report documents these activities in a draft. Diesel was reported for previous groundwater samples at this site. Laboratory results for other ARCO stations have erroneously reported diesel. ARCO plans to do additional analysis to confirm whether diesel has impacted the soil and groundwater. A draft report has been submitted to ARCO. The report of onsite work and a Work Plan for offsite assessment will be issued in late October to early November, 1992.



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 AUG 10 PM 3:12

(510) 352-4800

August 13, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 94607

Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of July, 1992 and site activities anticipated for August, 1992.

Status of Previous Month's Activities:

- * Ground-water monitoring and sampling for the second quarter, 1992 was performed.
- * Step/drawdown and constant rate aquifer tests were performed.
- * ROUX Associates issued an Underground Storage Tank Removal and Soil sampling Report dated July 14, 1992 documenting tank replacement activities performed in previous quarters.

Anticipated Work to be Performed in the Next Month:

- * Issue a draft Quarterly Monitoring/Continuing Site Assessment Report to ARCO presenting the results of the installation of three vapor extraction wells and one recovery well, a vapor extraction test, an aquifer test, and second quarter, 1992 monitoring and sampling.

GeoStrategies Inc.

ARCO Products Company
August 13, 1992
Page 2

If you have any questions please call.

Sincerely,



For John F. Vargas
Senior Geologist

JFV:shl

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health (Certified Mail)
Mr. Lester Feldman, RWQCB - San Francisco Bay Region



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 JUL 17 11:00

(510) 352-4800

July 9, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 94607

Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of June, 1992 and site activities anticipated for July, 1992.

Status of Previous Month's Activities:

- * Issued Well Installation Report, documenting the installation of four ground-water monitoring wells (A-1 through A-4) and one ground-water extraction well (AR-1) on-site, to ARCO, ACHA, and RWQCB.
- * Installed three vapor extraction wells (AV-1 through AV-3) and one recovery well (AR-2) on-site.
- * Performed a vapor extraction test.

Anticipated Work to be Performed in the Next Month:

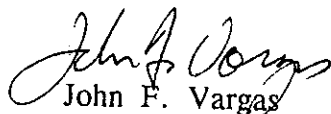
- * Issue draft Well Installation Report to ARCO presenting the results of the installation of three vapor extraction wells, one recovery well, and a vapor extraction test.
- * Perform an aquifer test to determine the hydraulic properties of shallow groundwater beneath the site.

GeoStrategies Inc.

ARCO Products Company
July 9, 1992
Page 2

If you have any questions please call.

Sincerely,


John F. Vargas
Senior Geologist

JFV:shl

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (Certified Mail)
Mr. Lester Feldman, RWQCB, San Francisco Bay Region

ARCO - Atlanta Richfield Company
~~2000~~ P.O. Box 5811
San Mateo CA 94402
Property Owner: Streich, John G
Wells Fargo Bank TKS
P.O. Box 2485 Los Angeles,
CA 90051

DATE: 6/19/92
TO : Local Oversight Program
FROM: SUSAN
SUBJ: Transfer of Eligible Oversight Case

Site name: ARCO - AM/PM # 02169
Address: 889 W. GRAND AVE city OAKLAND zip 94607

Closure plan attached? Y N DepRef remaining \$ _____

DepRef Project # _____ STID #(if any) 3793

Number of Tanks: 4 removed? Y N Date of removal 1/16/92

Leak Report filed? Y N Date of Discovery 5/10/91

Samples received? Y N Contamination: Soil / Groundwater

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

Monitoring wells on site 4 Monitoring schedule? Y N

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment 4 mw's on site - will submit a proposal to delineate

Remedial Action _____

Post Remedial Action Monitoring _____

Enforcement Action _____

Soil & ground-water contamination.

6th
5th/4
A.

UST LEAK Date of Last Current
SITE UPDATE Review/Update: 4/10/92 Date: 7/10/92

SITE IDENTIFICATION
Name: ARCO Products Company #2169 Case No.: _____
Address: 889 West Grand Avenue
Street Number Street
Oakland 94607
City Zip Code
Alameda Substance: Gasoline
County
Local Agency: Alameda County Health Agency, Department of Environmental Health
Regional Board: San Francisco Bay Region

LEAD STAFF PERSON: Dennis Byrne

CASE TYPE:
 Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)
 No Action Taken
 Leak Being Confirmed Date: July 1988
 Preliminary Site Assessment Workplan Submitted Date: October 29, 1991
 Preliminary Site Assessment Underway Date: July 1991
 Pollution Characterization Date: _____
 Remediation Plan Date: _____
 Remedial Action Underway Date: _____
 Post Remedial Action Monitoring Date: _____
 Case Referred to Regional Board Date: July 1988
 Case Referred to Dept. of Health Services Date: _____
 Case Closed Date: _____

MILESTONES:
A Work plan proposing the installation of four groundwater monitoring wells, three vapor extraction wells and one groundwater recovery well has been issued for this site. In March 1992, four monitoring wells (A-1 through A-4) and one recovery well (AR-1) were installed on-site. Please refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:
Underground storage tank removal and replacement and soil aeration have been completed. Three vapor extraction/monitoring wells and one recovery well were installed on-site. A vapor extraction test was performed. Issued a Well Installation Report documenting wells installed on-site in March 1992.

ANTICIPATED ACTIVITIES:
Ground-water monitoring and sampling will continue on a quarterly basis. Issue reports documenting the above mentioned site activities and the tank replacement project. Perform an aquifer test utilizing on-site wells.

SS# 2169

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.
Work Plan	October 29, 1991	GeoStrategies Inc.
Well Installation Report	June 30, 1992	GeoStrategies Inc.



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

June 12, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 94607

Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of May, 1992 and site activities anticipated for June, 1992.

Status of Previous Month's Activities:

- * Issued draft Well Installation Report, documenting the installation of four ground-water monitoring wells and one ground-water extraction well on-site and soil and ground-water sample analyses, to ARCO.
- * Notified Bay Area Air Quality Management District of proposed vapor extraction test

Anticipated Work to be Performed in the Next Month:

- * Installation of three on-site vapor extraction wells and an additional recovery well in the vicinity of the present tank complex.
- * Perform an eight hour vapor extraction test utilizing an internal combustion engine.
- * Issue final Well Installation Report to ARCO, ACHA, and RWQCB.


92 JUN 10 01 4: 43

GeoStrategies Inc.

ARCO Products Company
June 12, 1992
Page 2

Please call if you have any questions concerning this letter.

Sincerely,


John F. Vargas
Senior Geologist

JFV:rcm

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)
Mr. Eddy So, RWQCB, San Francisco Bay Region



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

November 26, 1991

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of November, 1991 and site activities anticipated for December, 1991.

Status of Previous Month's Activities:

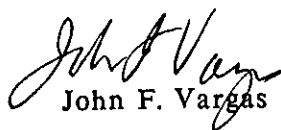
* October 29, 1991: Submitted Work Plan proposing four groundwater monitoring, one groundwater recovery, and three vapor extraction wells.

Anticipated Work to be Performed in the Next Year:

* The underground storage tanks are to be removed.

Please call if you have any questions concerning this letter.

Sincerely,


John F. Vargas

JFV/tdl

cc: Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)

91 DEC 11 PM 4:04

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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO	FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
--	--	--

REPORT DATE M 11 D 04 Y 11	CASE # 30345	SIGNED	DATE NOV 20 1991
-------------------------------	-----------------	--------	---------------------

REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <i>[Signature]</i>	PHONE [Redacted]	SIGNATURE <i>[Signature]</i>
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER	COMPANY OR AGENCY NAME Associated...	
	ADDRESS 1715 ...		

RESPONSIBLE PARTY	NAME Associated Products	CONTACT PERSON [Redacted]	PHONE [Redacted]
	ADDRESS 1715 ...	CITY Oakland	STATE CA ZIP 94612

SITE LOCATION	FACILITY NAME (IF APPLICABLE) # 269	OPERATOR R. Sood	PHONE [Redacted]
	ADDRESS 109 W. Grand		
	CROSS STREET	CITY Oakland	COUNTY Alameda ZIP 94612

IMPLEMENTING AGENCIES	LOCAL AGENCY Public Health	AGENCY NAME	CONTACT PERSON Tim	PHONE 415 271-4200
	REGIONAL BOARD			PHONE ()

SUBSTANCES INVOLVED	(1) NAME Gasoline	QUANTITY LOST (GALLONS) 2	<input type="checkbox"/> UNKNOWN
	(2) NAME [Redacted]		<input type="checkbox"/> UNKNOWN

DISCOVERY/ABATEMENT	DATE DISCOVERED 11/1/91	HOW DISCOVERED <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS
	DATE DISCHARGE BEGAN 11/3/91	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 <i>Striped & disposed</i>	
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE 11/3/91		

SOURCE/CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input type="checkbox"/> PIPING LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER	CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER <i>Cracking</i>
--------------	---	--

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"/> LEAK BEING CONFIRMED <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> CLEANUP UNDERWAY
----------------	--

REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> OTHER (OT) <i>Excavate & dispose</i> <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VENT SOIL (VS)
-----------------	--

COMMENTS	<i>1715 ...</i>
----------	-----------------

QUALITY CONTROL BOARD
NOV 20 1991
ES

INSTRUCTIONS

EMERGENCY

Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

To avoid duplicate notification pursuant to Health and Safety code Section 25180.5, a government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY

Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY

Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION

Enter information regarding the tank facility. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES

Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED

Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT

Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE

Indicate source(s) of leak. Check box(es) indicating cause of leak.

CASE TYPE

Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS

Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil. Descriptions of options follow:

No Action Taken - No action has been taken by responsible party beyond initial report of leak.

Leak Being Confirmed - Leak suspected at site, but has not been confirmed.

Preliminary Site Assessment Workplan Submitted - workplan/proposal requested of/submitted by responsible party to determine whether ground water has been, or will be, impacted as a result of the release.

Preliminary Site Assessment Underway - implementation of workplan.

Pollution Characterization - responsible party is in the process of fully defining the extent of contamination in soil and ground water and assessing impacts on surface and/or ground water.

Remediation Plan - remediation plan submitted evaluating long term remediation options. Proposal and implementation schedule for appropriate remediation options also submitted.

Cleanup Underway - implementation of remediation plan.

Post Cleanup Monitoring in Progress - periodic ground water or other monitoring at site, as necessary, to verify and/or evaluate effectiveness of remedial activities.

Case Closed - regional board and local agency in concurrence that no further work is necessary at the site.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION

Indicate which action have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.

Containment Barrier - install vertical dike to block horizontal movement of contaminant.

Excavate and Dispose - remove contaminated soil and dispose in approved site.

Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).

Remove Free Product - remove floating product from water table.

Pump and Treat Groundwater - generally employed to remove dissolved contaminants.

Enhanced Biodegradation - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties.

Treatment at Hookup - install water treatment devices at each dwelling or other place of use.

Vacuum Extract - use pumps or blowers to draw air through soil.

Vent Soil - bore holes in soil to allow volatilization of contaminants.

No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.

SIGNATURE - Sign the form in the space provided.

DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies intact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 942112, Sacramento, CA 94244-2112
3. Regional Water Quality Control Board
4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
5. Owner/responsible party.

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 includes a long horizontal flourish extending to the right.

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

Attachment

SS# 2169

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.
Work Plan	October 29, 1991	GeoStrategies Inc.

UST LEAK Date of Last Current
SITE UPDATE Review/Update: 8/23/91 Date: 1/10/92

SITE IDENTIFICATION

Name: Arco Products Company #2169 Case No.: _____
Address: 889 West Grand Avenue
Street Number Street
Oakland 94607
City
Alameda Zip Code
County Substance: Gasoline

Local Agency: Alameda County Public Health
Regional Board: San Francisco Bay Region

LEAD STAFF PERSON: Tom Leavitt

CASE TYPE:

___ Undetermined ___ Soil Only X Ground Water ___ Drinking Water

STATUS (Date indicates when case moved into status)

___ No Action Taken
X Leak Being Confirmed Date: July 1988
X Preliminary Site Assessment Workplan Submitted Date: October 29, 1991
X Preliminary Site Assessment Underway Date: July 1991
___ Pollution Characterization Date: _____
___ Remediation Plan Date: _____
___ Remedial Action Underway Date: _____
___ Post Remedial Action Monitoring Date: _____
X Case Referred to Regional Board Date: July 1988
___ Case Referred to Dept. of Health Services Date: _____
___ Case Closed Date: _____

MILESTONES:

A Workplan proposing the installation of four groundwater monitoring wells, three vapor extraction wells and one groundwater recovery well has been issued for this site. Please refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

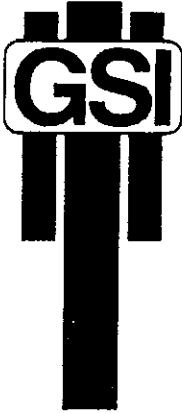
The underground storage tanks are currently being removed and replaced.

ANTICIPATED ACTIVITIES:

Remove and replace the existing underground storage tanks. Install four groundwater monitoring wells, three vapor extraction wells and one groundwater extraction well as described in above mentioned Workplan.

SS# 2169

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.
Work Plan	October 29, 1991	GeoStrategies Inc.



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

May 21, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 94607

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of April, 1992 and site activities anticipated for May, 1992.

Status of Previous Month's Activities:

- * Tank replacement project and soil aeration have been completed.
- * Sent letter to Alameda County Flood Control and Water Conservation District in response to their letter concerning the report required to be submitted to them as a condition of their drilling permit. The report will be submitted upon completion of the drilling project.

Anticipated Work to be Performed in the Next Month:

- * Issue draft Well Installation Report documenting the installation of four ground-water monitoring wells and one ground-water extraction well on-site and soil and ground-water sample analyses.
- * Installation of three on-site vapor extraction wells and an additional recovery well in the vicinity of the present tank complex. Installation of the vapor extraction wells was delayed due to the tank replacement project.

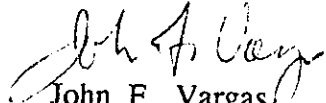
9210012: 10:1:54

GeoStrategies Inc.

ARCO Products Company
May 21, 1992
Page 2

Please call if you have any questions concerning this letter.

Very truly yours,


John F. Vargas
Senior Geologist

JFV:rcm

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)
Mr. Eddy So, RWQCB, San Francisco Bay Region

4/23/92
Called Don Moore (Seaco)
received OK updates of Arco

April 13, 1992

92 APR 14 PM 3:00

Ms. Susan Hugo
Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

ARCO Products Company Facilities in Alameda County

Dear Ms. Hugo:

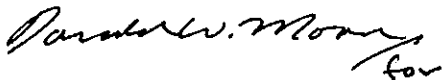
Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the first quarter of 1992; also included are projected site activities for the second quarter of 1992 and a bibliography of reports submitted for each location.

The QSRs are classified by city and address within Alameda County. We are submitting this document and attached QSRs as agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on July 15, 1992. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely yours,



Kyle A. Christie
Environmental Engineer

Attachments: ARCO Facility QSRs



GeoStrategies Inc.
2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 APR -7 AM 11:46

(510) 352-4800

March 31, 1992

ARCO Products Company
P.O. Box 581:
San Mateo, California 94402

Attention: Mr. Michael Whelan

Reference: Monthly Site Status Update
ARCO Service Station No. 2169
889 W. Grand Ave.
Oakland, California 94607

Dear Mr. Whelan:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of March 1992 and site activities anticipated for April 1992.

Status of Previous Month's Activities:

- * The underground storage tanks are currently being replaced and soil from the former and future tank complexes are being aerated on-site.
- * Four ground-water monitoring wells and one ground-water extraction well were installed on-site as described in the GeoStrategies Inc. (GSI) Work Plan dated October 29, 1991.

Anticipated Work to be Performed in the Next Month:

- * Completion of the tank replacement project and soil aeration.
- * Installation of three on-site vapor extraction wells as described in the above mentioned GSI Work Plan.

Please call if you have any questions concerning this letter.

Very truly yours,


John F. Vargas

JFV:rcm

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)
Mr. Eddy So, RWQCB, San Francisco Bay Region



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 MAR -5 AM 11:41

(510) 352-4800

February 28, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of February, 1992 and site activities anticipated for March, 1992.

Status of Previous Month's Activities:

- * The underground storage tanks are currently being replaced.

Anticipated Work to be Performed in the Next Year:

- * Upon completion of the tank replacement; four groundwater monitoring, three vapor extraction and one groundwater recovery wells will be installed as described in the GeoStrategies Inc. Work Plan dated October 29, 1991.

Please call if you have any questions concerning this letter.

Very truly yours,

A handwritten signature in cursive script that reads "John F. Vargas".
John F. Vargas

JFV:rcm

cc: Mr. Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)
Mr. Eddy So, RWQCB, San Francisco Bay Region

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Arcu Today's Date 2/19/92
 Site Address 889 West Grand EPA ID# _____
 City Oakland Zip 94607 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

Inspection Categories:

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

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)		
	1. Waste ID	* 66471
	2. EPA ID	66472
	3. > 90 days	66508
	4. Label dates	66508
	5. Biennial	66493
Manifest	6. Records	66492
	7. Correct	66484
	8. Copy sent	66492
	9. Exception	66484
	10. Copies Rec'd	66492
Misc.	11. Treatment	66371
	12. On-site Disp. (H.S.&C.)	26189.5
	13. Ex Haz. Waste	66570
Prevention	14. Communications	67121
	15. Aisle Space	67124
	16. Local Authority	67126
	17. Maintenance	67120
	18. Training	67105
Conlin. gency	19. Prepared	67140
	20. Name List	67141
	21. Copies	67141
	22. Emg. Coord. Trng.	67144
Containers, Tanks	23. Condition	67241
	24. Compatibility	67242
	25. Maintenance	67243
	26. Inspection	67244
	27. Buffer Zone	67246
	28. Tank Inspection	67259
	29. Containment	67245
	30. Safe Storage	67261
	31. Freeboard	67257
	I.B TRANSPORTER (Title 22)	
	32. Applic./Insurance	66428
	33. Comp. Cert./CHP Insp.	66448
	34. Containers	66465
Manifest	35. Vehicles	66465
	36. EPA ID #s	66531
	37. Correct	66541
	38. HW Delivery	66543
	39. Records	66544
Contra	40. Name/ Covers	66545
	41. Recyclables	66800

Comments:

Observed collection of soil samples from under piping trenches.

One soil sample collected from under piping trench for each island (4)

An additional samples was collected from the trench between the new tanks excavation and the primary island dispensers in front of store.

TPHG + BTEX on primary island sampler

TPH-D + BTEX on other Diesel dispenser

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: _____

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD



1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520 510 602-2333 FAX # 510 687-1258

FEB 5 - 1992



QUALITY CONTROL BOARD

Transmittal/Memorandum

To: Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Room 5000
Oakland, California 94612

From: Paul Supple
Date: February 4, 1992
Subject: Tank and Line Replacement
ARCO Station No. 2169
889 West Grand Avenue
Oakland, California

Job No.: A139W01

Remarks: Enclosed is one copy of the letter to Alameda County Department of Environmental Health.

cc: Mr. Chris Winsor, ARCO Products Company
Mr. Charles Carmel, ARCO Products Company
Mr. John Vargas, GeoStrategies, Inc.

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES



1855 GATEWAY BOULEVARD
SUITE 770
CONCORD, CALIFORNIA 94520 510 602-2333 FAX # 510 687-1258

February 4, 1992

Mr. Dennis Byrne
Alameda County Health Agency
Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Room 20
Oakland, California 94621

**SUBJECT: TANK AND LINE REPLACEMENT
ARCO FACILITY NO. 2169
889 WEST GRAND AVENUE, OAKLAND, CALIFORNIA**

Dear Mr. Byrne:

On behalf of ARCO Products Company (ARCO), Roux Associates (Roux) has prepared this letter to confirm our telephone conversation of January 27, 1992, regarding the underground storage tank (UST) and line replacement project at ARCO Facility No. 2169, located at 889 West Grand Avenue, Oakland, California (Site).

On January 16, 1992, four USTs were excavated and removed from the Site by ARCO's tank replacement contractor, Golden West Builders of Brentwood, California (Golden West). The static water level measured in the excavation was 13 feet below ground surface (bgs). Following removal, nine soil samples were collected by Roux from the sidewalls of the former tank cavity. Golden West then excavated all the backfill material from the former tank cavity. On January 20, 1992, Golden West shored and excavated the new tank cavity. The new tank cavity is located on the northwest corner of the Site about 50 feet north of the former tank cavity. Soil and backfill material excavated from both the new tank cavity and former tank cavity were stockpiled on Site. Roux collected composite samples for laboratory analysis from each 50 cubic yards of stockpiled material.

Laboratory analyses of sidewall samples collected from the former tank cavity indicate significant levels of petroleum hydrocarbons are present at the Site in the vicinity of the former tank cavity. The highest concentration of petroleum hydrocarbons are located along the north sidewall adjacent to the ARCO AM/PM building. Further excavation along the northern sidewall to remove contaminated soil is not possible without endangering the existing structure. Therefore, following completion of the tank replacement project, ARCO will investigate the extent of hydrocarbon contamination at the Site. The investigation, at

Doc #A133W01.1.2

a minimum, will consist of the installation of soil borings and monitoring wells, soil and ground water sampling and analysis, and a pilot scale vapor extraction test. Based on the data collected during the Site investigation, an appropriate remedial system(s) will be designed and implemented at the Site. A Work Plan describing the initial phase of the Site investigation has been prepared and submitted to you by GeoStrategies, Inc., of Hayward, California.

Laboratory analyses of composite samples indicate elevated levels of petroleum hydrocarbons in the soil stockpiles. ARCO plans to aerate these materials on Site to reduce the hydrocarbon concentrations. Soil containing less than 10 mg/kg (ppm) total petroleum hydrocarbons and non-detectable levels of benzene will be used to backfill the former tank cavity. A three foot layer of clean imported pea gravel will be placed at the base of the former tank cavity to create a ground water extraction sump. A ground water recovery well will be installed into the former tank cavity during the subsequent Site investigation. To facilitate future remediation of the Site, vault boxes and horizontal conveyance piping will be installed by Golden West prior to reopening the station for gasoline sales.

As we discussed on Monday, January 27, 1992, ARCO has verbal authorization from the Alameda County Department of Environmental Health to proceed with backfilling of the former tank cavity and installing the new USTs. Golden West will contact you to arrange a schedule for the new UST installation. If any details of this letter are unclear or if you have any questions regarding this project, please contact Paul Supple at (510) 602-2333.

Respectfully submitted,
ROUX ASSOCIATES



Paul Supple
Senior Hydrogeologist



Dean A. Richesin, C.E.G.
Principal-in-Charge

cc: Mr. Charles Carmel, ARCO Products Company
Mr. Chris Winsor, ARCO Products Company
Mr. John Vargas, GeoStrategies Inc.
Mr. Lester Feldman, San Francisco Bay Regional Water Quality Control Board



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

92 FEB 18 11:55

(510) 352-4800

January 31, 1992

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of January, 1992 and site activities anticipated for February, 1992.

Status of Previous Month's Activities:

* The underground storage tanks are currently being replaced.

Anticipated Work to be Performed in the Next Year:

* Upon completion of the tank replacement; four groundwater monitoring, three vapor extraction and one groundwater recovery wells will be installed as described in the GeoStrategies Inc. Work Plan dated October 29, 1991.

Please call if you have any questions concerning this letter.

Very truly yours,

John F. Vargas

JFV/tdl

cc: Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name 889 West Grand Today's Date 1/16/92

Site Address _____ EPA ID# _____

City Oakland Zip 94607 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
Hazardous Waste generated per month? _____

Inspection Categories:

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

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

	<input type="checkbox"/> 1. Waste ID	* 66471
	<input type="checkbox"/> 2. EPA ID	66472
	<input type="checkbox"/> 3. > 90 days	66508
	<input type="checkbox"/> 4. Label dates	66508
	<input type="checkbox"/> 5. Biennial	66493
Manifest	<input type="checkbox"/> 6. Records	66492
	<input type="checkbox"/> 7. Correct	66484
	<input type="checkbox"/> 8. Copy sent	66492
	<input type="checkbox"/> 9. Exception	66484
	<input type="checkbox"/> 10. Copies Rec'd	66492
Misc.	<input type="checkbox"/> 11. Treatment	66371
	<input type="checkbox"/> 12. On-site Disp. (H.S.&C.)	26189.5
	<input type="checkbox"/> 13. Ex Haz. Waste	66570
Prevention	<input type="checkbox"/> 14. Communications	67121
	<input type="checkbox"/> 15. Aisle Space	67124
	<input type="checkbox"/> 16. Local Authority	67126
	<input type="checkbox"/> 17. Maintenance	67120
	<input type="checkbox"/> 18. Training	67105
Contn. gency	<input type="checkbox"/> 19. Prepared	67140
	<input type="checkbox"/> 20. Name List	67141
	<input type="checkbox"/> 21. Copies	67141
	<input type="checkbox"/> 22. Emrg. Coord. Trng.	67144
Containers, Tanks	<input type="checkbox"/> 23. Condition	67241
	<input type="checkbox"/> 24. Compatibility	67242
	<input type="checkbox"/> 25. Maintenance	67243
	<input type="checkbox"/> 26. Inspection	67244
	<input type="checkbox"/> 27. Buffer Zone	67246
	<input type="checkbox"/> 28. Tank Inspection	67259
	<input type="checkbox"/> 29. Containment	67245
	<input type="checkbox"/> 30. Safe Storage	67261
	<input type="checkbox"/> 31. Freeboard	67257

Comments:

observed removal of UGT's

1) 5,000 gal., 1 obvious hole in tank

2) 5,000 gal., no obvious holes

3) 10,000 gal., no obvious holes

4) 12,000 gal fiberglass, no obvious holes

2 soil samples were taken from either end of the tank at a depth of 12', an additional sample was collected from the sidewall of the 12,000 gal tank at 12'

I.B TRANSPORTER (Title 22)

	<input type="checkbox"/> 32. Applic./Insurance	66428
	<input type="checkbox"/> 33. Comp. Cert./CHP Insp.	66448
	<input type="checkbox"/> 34. Containers	66465
Manifest	<input type="checkbox"/> 35. Vehicles	66465
	<input type="checkbox"/> 36. EPA ID #s	66531
	<input type="checkbox"/> 37. Correct	66541
	<input type="checkbox"/> 38. HW Delivery	66543
	<input type="checkbox"/> 39. Records	66544
Cont'n	<input type="checkbox"/> 40. Name/ Covers	66545
	<input type="checkbox"/> 41. Recyclables	66800

Rev 6/88

Contact: _____

Title: _____

Signature: _____

Inspector: _____

Signature: _____

 UST LEAK Date of Last Current
 SITE UPDATE Review/Update: 1/10/92 Date: 4/10/92

SITE IDENTIFICATION
 Name: ARCO Products Company #2169 Case No.: _____
 Address: 889 West Grand Avenue
 Street Number Street
 Oakland 94607
 City Zip Code
 Alameda Substance: Gasoline
 County

Local Agency: Alameda County Health Agency, Department of Environmental Health
 Regional Board: San Francisco Bay Region

LEAD STAFF PERSON: Dennis Byrne

CASE TYPE:
 — Undetermined Soil Only X Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<u> </u>	No Action Taken	
<u> X </u>	Leak Being Confirmed	Date: <u>July 1988</u>
<u> X </u>	Preliminary Site Assessment Workplan Submitted	Date: <u>October 29, 1991</u>
<u> X </u>	Preliminary Site Assessment Underway	Date: <u>July 1991</u>
<u> </u>	Pollution Characterization	Date: _____
<u> </u>	Remediation Plan	Date: _____
<u> </u>	Remedial Action Underway	Date: _____
<u> </u>	Post Remedial Action Monitoring	Date: _____
<u> X </u>	Case Referred to Regional Board	Date: <u>July 1988</u>
<u> </u>	Case Referred to Dept. of Health Services	Date: _____
<u> </u>	Case Closed	Date: _____

MILESTONES:

A Work plan proposing the installation of four groundwater monitoring wells, three vapor extraction wells and one groundwater recovery well has been issued for this site. Please refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

The underground storage tanks are currently being removed and replaced and soil is being aerated on-site. Four monitoring wells and one recovery well were installed on-site.

ANTICIPATED ACTIVITIES:

Continued soil aeration. Installation of three vapor extraction wells. Ground-water monitoring and sampling of recently installed monitoring wells. Issue report documenting the above mentioned well installation activities.



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

(510) 352-4800

91 NOV 13 PM 1:23

October 31, 1991

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of October, 1991 and site activities anticipated for November, 1991.

Status of Previous Month's Activities:

* October 29, 1991: Submitted Work Plan proposing four groundwater monitoring, one groundwater recovery, and three vapor extraction wells.

Anticipated Work to be Performed in the Next Year:

* The underground storage tanks are to be removed.

Please call if you have any questions concerning this letter.

Sincerely,


John F. Vargas

JFV/tdl

cc: Dennis Byrne, Alameda County Health Agency, Department of
Environmental Health. (certified mail)

County
Attorney's Office
Consumer Attorney

TRANSMITTAL

10/3/91

Transmittal Sheet:

10

Thanks,
Mark

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



September 23, 1991

Mr. Dennis J. Byrne
 Alameda County Health Care Services
 Department of Environmental Health
 80 Swan Way, Room 200
 Oakland, California 94621

Re: PRELIMINARY TANK REPLACEMENT REPORT
 ARCO Service Station #2169
 380 West Grand Avenue
 Oakland, California

Re: Abandonment

This letter is submitted in response to your letter dated August 7, 1991 concerning the review of GeoStrategies Inc. (GSI) Preliminary Tank Replacement report dated July 1, 1991. The responses to your letter are presented in the order to which they appear in your letter.

An unauthorized release report was submitted by ARCO Products Company regarding this site. This release report stated that floating product had been detected in a groundwater monitoring well. The release report further stated that this well was to be pumped on the 10th of May 1991. This report makes no mention of water or free product having ever been pumped from the well that was abandoned. Other than the unauthorized release report this office has no documentation concerning the pumping of this well.

According to Wastler-Kaplan Inc. records, prior to the abandonment of the well, approximately 20 gallons of water and separate phase product was removed by H&H of San Francisco. The method of extraction was by a vacuum pumping tank. Groundwater recharge was not observed after the well was dewatered, rendering the integrity and usefulness of the well in question. The well was dewatered fully prior to the decommissioning of the well. A copy of the Waste Characterization Form and Uniform Hazardous Waste Manifest are attached.

Alameda County Health Care Services
Department of Environmental Health
September 23, 1991
Page 2

"Based on the close proximity of this well to the tanks . . . The decision to fill this well with concrete was questionable . . . Had this agency been provided an opportunity to comment on this action prior to its implementation we would have recommended an expedited closure of the tanks as opposed to abandonment of the well".

As described in the GSI report dated July 1, 1991 provided to your office, the well was not "filled with concrete". The abandonment consist of "hydraulically pulling out the pipe" (20 feet of 8-inch corrugated steel pipe), "drilling out the hole with 12 inch augers to a depth of 20 feet and backfilling with neat cement to the surface". Alameda County Permit No. 91261 was issued to Gettler-Ryan Inc. prior to the decommissioning of the well. It would be assumed if a permit was issued by Alameda County, the scope of work would have been approved.

The decision to abandon the well was based on technical merits and the well's integrity. Little was known about the wells construction. No information on the well's date of installation, method of drilling, drilling contractor or consultant, owner, or any construction details are available. This would lead one to believe that the installation occurred prior to any environmental regulatory guidance/control or inspection. Bayland Drilling (C57-374152) performed the abandonment under Gettler-Ryan Inc. supervision. During the abandonment of this well it was observed to consist primarily of a 20-foot long corrugated steel pipe perforated its entire length with no bottom or top cap. The steel pipe was factory perforated its entire length with single rows of 1/4-inch diameter holes spaced 1-foot apart. This steel pipe is usually found to be used in "french drain" type of construction and is not used for groundwater monitoring wells. Also absent was any filter pack, pollution seal or sanitary seal. The well was completed by utilizing a surface vault concreted in-place. As suspected, the integrity of the well was in question and the decision to abandon was correct.

Alameda County Health Care Services
Department of Environmental Health
September 23, 1991
Page 3

The underground storage tanks (UGST) are scheduled to be replaced during the last quarter of 1991. The close proximity of the abandoned well would most likely have been destroyed during excavation activities especially if overexcavation is warranted. The abandoned well should not hinder excavation activities in anyway. With the well correctly abandon, overexcavation to water (approximately 13.5 feet below ground surface (bgs)) is feasible without jeopardizing the integrity of the abandonment, therefore insuring a good seal to the total depth of 20 feet bgs. In addition to the scheduled UGSTs replacement, a Work Plan to initiate a soil and groundwater investigation is in progress.

If you have any questions, please call.

Sincerely,



Charles Carmel
Environmental Engineer

CC/mlg

Attachments: Waste Characterization Form
Uniform Hazardous Waste Manifest

cc: Mark Thompson, Alameda County District Attorney's Office, Consumer and Environmental Protection Division
Lester Feldman, SFBRWQCB
Rafat Shahid, Assistant Director, Alameda County Department of Environmental Health
Keith Bullock, Gettler-Ryan Inc.
Paul Wilton, Barghausen Consulting Engineers
John Meck, ARCO Products Company
H.C. Winsor, ARCO Products Company

Well ABandonment



ENVIRONMENTAL SERVICES
(DIVISION OF HAN SHIP SERVICE CO., INC.)

WASTE CHARACTERIZATION FORM

LAB: (415)543-0906

220 CIMBA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

I. WASTE GENERATOR

US EPA ID#: CAL 000009867
Facility: ARCO S.S. # 2169
Address: 889 W. GRAND AVE.
City/State: OAKLAND CA Zip: _____
Contact: CHARLES CARMEL Telephone: (415) 571-2434

II. DESCRIPTION OF WASTE

1. General Description: GASOLINE & WASTE WATER
2. Process Generating this Waste: PUMPING OUT GROUNDWATER WELL
3. Is this listed under P, K, P, or U? yes ___ no
4. Quantity: UNK tons ___ yards ___ gallons ___
5. Frequency: weekly ___ monthly ___ annually ___ once
other _____
6. Shipment Mode: bulk drums ___ other _____

III. WASTE CLASSIFICATION & SHIPPING DESCRIPTION

1. California Waste Category Number: 135
2. EPA Waste Code Number: N/A
3. Proper DOT Shipping Name: NON RCRA HAZ WASTE LIQUID

IV. HAZARD CLASS

Toxic Corrosive ___ Radioactive ___
Reactive ___ Ignitable ___ Etiological ___

V. CHARACTERISTICS OF WASTE

1. Is this a: liquid sludge ___ solid ___
Stratification: none ___ two multi- ___ (layers)
2. Viscosity (Liquids) Similar to: water ___ motor oil ___ honey ___
3. Odor: none ___ mild strong ___ describe: _____
Specific Gravity (range): 7-9
4. pH: < 3 ___ > 12 ___ Actual _____ Range 6-8
5. Flash Point: < 70°F ___ > 140°F ___ Actual _____
Determined by: Closed Cup ___ Open Cup ___



VI. CHEMICAL COMPOSITION

	RANGE	
	MIN.	MAX.
1. <u>WASTE WATER</u>	<u>90</u>	<u>95</u>
<u>WASTE FUEL OIL</u>	<u>5</u>	<u>12</u>
Must be equal or greater than 100% - Total:		<u>100</u>

2. Indicate if this waste contains any of the following:

Cyanides	no	<input checked="" type="checkbox"/>	yes	_____	ppm
PCBs	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Phenolics	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Sulfides	no	<input checked="" type="checkbox"/>	yes	_____	ppm

3. Indicate if this waste contains any of the following (total concentration of each metal must be given):

Arsenic	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Barium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Beryllium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Cadmium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Chromium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Chromium-Hex	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Cobalt	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Copper	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Lead	no	<input checked="" type="checkbox"/>	yes	<u>25</u>	ppm
Mercury	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Molybdenum	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Nickel	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Selenium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Silver	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Thallium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Vanadium	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Zinc	no	<input checked="" type="checkbox"/>	yes	_____	ppm
Other				_____	ppm

VII. ADDITIONAL INFORMATION

Provide additional comments, analyses or wastestream information necessary for proper safe handling of this waste.

VIII. CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Robert E. Paulson
 (Signature)

5/9/91
 (Date)

PROJECT MANAGER
 (Title)

90542353

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-6802. IN CALIFORNIA CALL 1-800-552-7700

UNIFORM HAZARDOUS WASTE MANIFEST

Generator's US EPA ID No. A L 0 0 0 0 0 9 8 6 7 0 0 0 0 1 3 1

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

A. State Manifest Document Number: **90542353**

B. State Generator's ID: **31YH0316-101181810**

C. State Transporter's ID: **200555**

D. Transporter's Phone: **(415) 543-4838**

E. State Transporter's ID: _____

F. Transporter's Phone: _____

G. State Facility's ID: **CIAID004771116B**

H. Facility's Phone: **(415) 543-4838**

2. Generator's Name and Mailing Address:
ARCO
P. O. Box 8811, San Mateo, CA 94402

3. Generator's Phone (415): **871-2436/571-2428**

4. Transporter 1 Company Name: **H & H Ship Service Company**
 US EPA ID Number: **CIAID004771116B**

5. Transporter 1 US EPA ID Number: _____

6. Transporter 1 Phone: _____

7. Transporter 2 Company Name: _____
 US EPA ID Number: _____

8. Transporter 2 US EPA ID Number: _____

9. Transporter 2 Phone: _____

10. US EPA ID Number: _____

11. Designated Facility Name and Site Address:
H & H Ship Service Company
220 China Basin Street
San Francisco, CA 94107
 US EPA ID Number: **CIAID004771116B**

12. Facility's Phone: **(415) 543-4838**

11. US DOT Description (including proper shipping name, hazard class, and ID number)	12. Commodity Code	13. Type	14. Total Quantity	15. Unit wt/vol	16. Waste No.
OIL AND WATER NON RCRA HAZARDOUS WASTE LIQUID	0101	71T	90920	g	135
					EPA/Other
					EPA/Other
					EPA/Other
					EPA/Other

14. Additional Descriptions for Materials Listed Above:
FUEL OIL AND WATER

15. Handling Codes for Wastes Listed Above:
01

16. Special Handling Instructions and Additional Information:
JOB SITE: ARCO STATION, #2169
889 West Grand Ave.
Oakland, California
24 Hr. Emergency Contact: H & H @ (415) 543-4838
APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR

18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: **Frank A. Clive Per Arco Products** Signature: *[Signature]* Month Day Year: **10/5/10/91**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **WAYMON H. MC DONALD** Signature: *[Signature]* Month Day Year: **0/5/10/91**

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

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.
 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____

Do Not Write Below This Line

INVOICE

gettler - ryan inc.

general and environmental contractors

1992 national avenue, hayward, california 94545-1787
(415) 783-7500

customer: Atlantic Richfield Company
Post Office Box 5811
San Mateo, California 94402

Invoice date: 13-Jul-88

Invoice no.: 372

contract no.: 107923 RM
Page 2 of 2

job location: SS #2169 - 889 W. Grand Avenue, Oakland, CA

Ironman	ST 22.0	Hrs @	\$27.00	\$594.00
Petroleum Pipefitter	ST 108.0	Hrs @	27.00	2,916.00
Petroleum Pipefitter	OT 7.0	Hrs @	40.50	283.50
Cement Mason	ST 10.5	Hrs @	27.00	283.50
Laborer	ST 69.5	Hrs @	27.00	1,876.50
Laborer	OT 5.5	Hrs @	40.50	222.75
Galvanized Pipe & Fittings				539.41
Fiberglass Pipe & Fittings				170.69
Channel Strut/Hangers (P.E. O'Hair)	2.0	Of	37.74	39.64
2" Sub-Pump Boxes	4.0	Of	47.91	175.48
Merholms				191.64
Nitrogen (Middleton Welding)	1.0	Of @	24.08	18.74
OPW Vapor Cap	5.0	CY		24.08
Concrete (Right-Away)				452.10
Spray Paint/Miscellaneous (Ace Hardware)				15.54
Barricades (Flash Safety)				597.81
Chipping Hammer Rental (Lewis Rents)				37.40
Dump Fees	9.0	Days @	90.00	12.00
Air Compressor	10.5	Hrs @	16.00	810.00
Dump Truck	19.5	Days @	54.00	168.00
Pipe/Specialty Truck	50.0	LF @	1.00	1,053.00
Concrete Sawing	1.0	Tests @	50.00	50.00
Petro-Tite Line Test Equipment				50.00
				\$10,581.78
15% Overhead				1,587.27
7% Profit				851.83
TOTAL THIS INVOICE				\$13,020.88

RFIS CHANGE

Yes *R. Kelly* No

If Yes, FM attached

TIN #94-1551136

TANK TESTING

8110-J229-02167-21

02167

INVOICE

gottler — ryan inc.

general and environmental contractors

1992 national avenue, hayward, california 94545-1787
(415) 783-7500

customer: Atlantic Richfield Company
Post Office Box 5811
San Mateo, California 94402

Invoice date: 13 Jul-88

Invoice no.: 372

contract no.: 107923 RM
Page 1 of 2

Job location: SS #2169 - 889 W. Grand Avenue, Oakland, CA

Start Date: 2-18-88
Completion Date: 6-3-88

Responded to the problem that all 3 systems failed Hunter tank tests at high level and that the test on the Regular product line also failed. Performed a Petro-lite test on the Regular product line; the test came within NFPA criteria for a tight line. Excavated and exposed the Regular vent and vapor lines. Air pressure tested both lines; both tests failed. Repaired several leaks in the vapor under dispensers. Found Regular and Super Unleaded vapor lines crossed at the side island. Located and repaired a fracture in the Regular line. Retested the line; the test held 40 PSI for 1 hour. Excavated at the Unleaded Super Unleaded tanks. Air pressure tested the Super Unleaded vapor line; the test failed. Repaired several leaks under dispensers and retested; the test held 40 PSI for 1 hour. Air pressure tested the Super Unleaded vent line; the test failed. Found leaks in the vent piping at the building. Repiped the swing joints and installed new vent risers. Retested all 3 vent lines; all tests held for 1 hour. Air pressure tested the Unleaded vapor line; the test failed. Found several leaks in the piping under dispensers. Repaired and retested the line; the test held 40 PSI for 1 hour. Applied 5 PSI nitrogen to the complete Unleaded system; the test held. Assisted Hunter in retesting the 3 systems. The Unleaded and Super Unleaded systems passed, however, the test on the Regular system failed. According to the Hunter technician, this was probably due to trapped air in the system. Pressurized the Regular system with nitrogen; the test held 5 PSI for 1 hour. Exposed the top of the Regular tank. Checked to see if the tank was sloped the wrong way; the tank was level. Hunter returned and retested the Regular system; this time the test passed. Saw cut and backfilled all excavated areas and patched the concrete that was removed to perform this work.

Continued on page two

R. M. H.

ADDENDUM

Chem Products Company

23

of performance is not in accordance with specifications... such as failure to deliver...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

Contractor shall be held responsible for the quality of work... to be performed by Contractor...

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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
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 <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 SERDY	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 PKHY	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

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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	
1000 MacArthur Blvd. Oak	PS 2116	✓		✓		✓	✓			I
1407 Telegraph Ave. Oakland	SH 314	✓		✓		✓	✓			I
86 S. Livermore Ave.	SH 498	✓			✓		✓			VA
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. ALAMEDA	SH 2112 5yr	✓		✓		✓	✓			I
241 Center St. C.V.	SS 2152	✓		✓		✓	✓			I
889 W. Grand Ave. Oak	PB 2169		✓		✓		✓			III
800 E 14th St. Oakland	BC 2185		✓		✓		✓			III
4 Hazenburg Rd. Oak	SC 4494 5yr		✓		✓		✓			III
3160 W. 14th Oakland	SH 4931		✓		✓		✓			III
1770 Central Valley Blvd.	SS 4977		✓		✓		✓			III
235 Seminary Ave. Oak	PS 2002 5yr		✓		✓		✓			III
249 Village Parkway Dublin	RA 6041		✓		✓		✓			III
185 E. Stanley Liv.	SH 6113	✓			✓		✓			VA
5131 Shattuck Ave. Oak	SH 6148		✓		✓		✓			III

SH-7 ✓ PB-1
 JPS-2 ✓ BC-2
 ✓ LS-1 ✓ RA-1
 PE-2 ✓ SS-2

* # 560 Hazenburg Rd - approved closure & installation plan
 site contaminated.

By permit

Remediation

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



Date: October 14, 1991

Re: ARCO Station #

" I declare, that to the best of my knowledge at the present time, that the information and/or recommendations contained in the attached proposal or report are true and correct."

Submitted by:

Kyle A. Christie
Environmental Engineer

91 OCT 15 PM 2:29

October 14, 1991

Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

Attention: Mr. Edgar Howell

ARCO Products Company Facilities in Alameda County

Dear Mr. Howell:

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the third quarter of 1991; also included are projected site activities for the fourth quarter of 1991 and a bibliography of reports submitted for each location.

The QSRs are classified by County and by address within the County. We are submitting this document and attached QSRs as previously agreed. Please note that we are forwarding copies of the QSRs to the Regional Water Quality Control Board (RWQCB).

Please also note that ARCO Products Company has reviewed the RWQCB's February 19, 1991 printout of ARCO fuel leak sites. We evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. Those locations for which ARCO is not responsible were listed and described in the QSR package delivered to you on July 15, 1991. The attached QSRs therefore represent only those locations for which ARCO is responsible.

ARCO is planning a subsequent QSR submittal for ARCO sites on January 15, 1992. Please do not hesitate to contact me with any questions regarding this submittal.

Sincerely,


Kyle A. Christie
Environmental Engineer

Attachments:
ARCO Facility QSRs



GeoStrategies Inc.

2140 WEST WINTON AVENUE
HAYWARD, CALIFORNIA 94545

91 OCT 15 AM 11:36

(415) 352-4800

September 27, 1991

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of August, 1991 and site activities anticipated for September, 1991.

Status of Previous Month's Activities:

- * August 9, 1991: Received letter from Alameda County Health Care Services concerning GSI report dated July 1, 1991.
- * September 9, 1991: submitted "Draft" copy of work plan for site assessment to ARCO for approval.
- * September 23, 1991: Responded to Alameda County Health Care Services letter dated August 9, 1991.

Anticipated Work to be Performed in the Next Year:

- * The underground storage tanks are to be removed.

Please call if you have any questions concerning this letter.

Sincerely,


John F. Vargas

JFV/tdl

cc: Dennis Byrne, Alameda County Health Agency, Department of Environmental Health. (certified mail)

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



91 OCT -9 AM 11:31

September 23, 1991

Mr. Dennis J. Byrne
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: PRELIMINARY TANK REPLACEMENT REPORT
ARCO Service Station #2169
889 West Grand Avenue
Oakland, California

Gentlemen:

This letter is submitted in response to your letter dated August 7, 1991 concerning the review of GeoStrategies Inc. (GSI) Preliminary Tank Replacement Report dated July 1, 1991. The responses to your letter are presented in the order to which they appear in your letter.

"an unauthorized release report was submitted by ARCO Products Company regarding this site. This release report stated that floating product had been detected in a groundwater monitoring well. The release report further stated that this well was to be pumped on the 10th of May 1991 . . . The report makes no mention of water or free product having ever been pumped from the well that was abandoned. Other than the unauthorized release report this office has no documentation concerning the pumping of this well".

According to Gettler-Ryan Inc. records, prior to the abandonment of the well, approximately 20 gallons of water and separate phase product was removed by H&H of San Francisco. The method of extraction was by a vacuum pumping truck. Groundwater recharge was not observed after the well was dewatered, rendering the integrity and usefulness of the well in question. The well was dewatered fully prior to the decommissioning of the well. A copy of the Waste Characterization Form and Uniform Hazardous Waste Manifest are attached.

Alameda County Health Care Services
Department of Environmental Health
September 23, 1991
Page 2

"Based on the close proximity of this well to the tanks . . . The decision to fill this well with concrete was questionable . . . Had this agency been provided an opportunity to comment on this action prior to its implementation we would have recommended an expedited closure of the tanks as opposed to abandonment of the well".

As described in the GSI report dated July 1, 1991 provided to your office, the well was not "filled with concrete". The abandonment consist of "hydraulically pulling out the pipe" (20 feet of 8-inch corrugated steel pipe), "drilling out the hole with 12-inch augers to a depth of 20 feet and backfilling with neat cement to the surface". Alameda County Permit No. 91261 was issued to Gettler-Ryan Inc. prior to the decommissioning of the well. It would be assumed if a permit was issued by Alameda County, the scope of work would have been approved.

The decision to abandon the well was based on technical merits and the well's integrity. Little was known about the wells construction. No information on the well's date of installation, method of drilling, drilling contractor or consultant, owner, or any construction details are available. This would lead one to believe that the installation occurred prior to any environmental regulatory guidance/control or inspection. Bayland Drilling (C57-374152) performed the abandonment under Gettler-Ryan Inc. supervision. During the abandonment of this well it was observed to consist primarily of a 20-foot long corrugated steel pipe perforated its entire length with no bottom or top cap. The steel pipe was factory perforated its entire length with single rows of 1/4-inch diameter holes spaced 1-foot apart. This steel pipe is usually found to be used in "french drain" type of construction and is not used for groundwater monitoring wells. Also absent was any filter pack, pollution seal or sanitary seal. The well was completed by utilizing a surface vault concreted in-place. As suspected, the integrity of the well was in question and the decision to abandon was correct.

Alameda County Health Care Services
Department of Environmental Health
September 23, 1991
Page 3

The underground storage tanks (UGST) are scheduled to be replaced during the last quarter of 1991. The close proximity of the abandoned well would most likely have been destroyed during excavation activities especially if overexcavation is warranted. The abandoned well should not hinder excavation activities in anyway. With the well correctly abandon, overexcavation to water (approximately 13.5 feet below ground surface (bgs)) is feasible without jeopardizing the integrity of the abandonment, therefore insuring a good seal to the total depth of 20 feet bgs. In addition to the scheduled UGSTs replacement, a Work Plan to initiate a soil and groundwater investigation is in progress.

If you have any questions, please call.

Sincerely,



Charles Carmel
Environmental Engineer

CC/mlg

Attachments: Waste Characterization Form
Uniform Hazardous Waste Manifest

cc: Mark Thompson, Alameda County District Attorney's Office, Consumer and
Environmental Protection Division
Lester Feldman, SFBRWQCB
Rafat Shahid, Assistant Director, Alameda County Department of
Environmental Health
Keith Bullock, Gettler-Ryan Inc.
Paul Wilton, Barghausen Consulting Engineers
John Meck, ARCO Products Company
H.C. Winsor, ARCO Products Company

Well ABandonment



ENVIRONMENTAL SERVICES
(DIVISION OF HAN SHIP SERVICE CO., INC.)

WASTE CHARACTERIZATION FORM

LAB: (415) 543-0906

220 CHINA BASIN, SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835



I. WASTE GENERATOR

US EPA IDN: CAL 000009867
Facility: ARCO S.S. # 2169
Address: 889 W GRAND AVE
City/State: OAKLAND CA Zip: _____
Contact: CHARLES CARMEL Telephone: (415) 571-2434

II. DESCRIPTION OF WASTE

1. General Description: GASOLINE & WASTE WATER
2. Process Generating this Waste: PUMPING OUT GROUNDWATER WELL
3. Is this listed under F, K, P, or U? yes ___ no
4. Quantity: UNK tons ___ yards ___ gallons ___
5. Frequency: weekly ___ monthly ___ annually ___ once
other _____
6. Shipment Mode: bulk drums ___ other _____

III. WASTE CLASSIFICATION & SHIPPING DESCRIPTION

1. California Waste Category Number: 135
2. EPA Waste Code Number: N/A
3. Proper DOT Shipping Name: NON RCRA HAZ WASTE LIQUID

IV. HAZARD CLASS

Toxic Corrosive ___ Radioactive ___
Reactive ___ Ignitable ___ Etiological ___

V. CHARACTERISTICS OF WASTE

1. Is this a: liquid sludge ___ solid ___
Stratification: none ___ two multi- ___ (layers)
2. Viscosity (Liquids) Similar to: water ___ motor oil ___ honey ___
3. Odor: none ___ mild strong ___ describe: _____
Specific Gravity (range): 7-9
4. pH: < 3 ___ > 12 ___ Actual ___ Range 6-8
5. Flash Point: < 70°F ___ > 140°F ___ Actual ___
Determined by: Closed Cup ___ Open Cup ___

VI. CHEMICAL COMPOSITION

	RANGE		%
	MIN.	MAX.	
1. <u>WASTE WATER</u>	<u>90</u>	<u>95</u>	%
<u>WASTE FUEL OIL</u>	<u>5</u>	<u>10</u>	%
			%
			%
			%
			%
			%
			%
			%
			%
Must be equal or greater than 100% - Total:			<u>100</u> %

2. Indicate if this waste contains any of the following:

Cyanides	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
PCBs	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Phenolics	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Sulfides	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm

3. Indicate if this waste contains any of the following (total concentration of each metal must be given):

Arsenic	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Barium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Beryllium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Cadmium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Chromium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Chromium-Hex	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Cobalt	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Copper	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Lead	no	<input checked="" type="checkbox"/>	yes	<input checked="" type="checkbox"/>	<u>< 5</u>	ppm
Mercury	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Molybdenum	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Nickel	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Selenium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Silver	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Thallium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Vanadium	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Zinc	no	<input checked="" type="checkbox"/>	yes	_____	_____	ppm
Other				_____	_____	ppm

VII. ADDITIONAL INFORMATION

Provide additional comments, analyses or wastestream information necessary for proper safe handling of this waste.

VIII. CERTIFICATION

I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Robert E. Bullard
(Signature)

5/9/91
(Date)

PROTECT MANAGER
(Title)



Jettler — ryan inc.

general contractors

August 27, 1991

ARCO Products Company
P.O. Box 5811
San Matco, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of July, 1991 and site activities anticipated for August, 1991.

Status of Previous Month's Activities:

- * July 1, 1991: Preliminary Tank Replacement Report issued by GSI.

Anticipated Work to be Performed in the Next Year:

- * August 9, 1991: Received letter from Alameda County Health Care Services concerning GSI report dated July 1, 1991.
- * The underground storage tanks are to be removed.
- * ARCO has requested a Work Plan for initial site assessment.

Please call if you have any questions concerning this letter.

Sincerely,

Keith Bullock

KB/clm

cc: Dennis Byrne, Alameda County Health Agency, Department of Environmental Health

9105500 0111:42

<u>REPORT</u>	<u>DATE</u>	<u>CONSULTANT</u>
Site Investigation Report	August 21, 1991	Groundwater Technology
Work Plan	April 26, 1991	GeoStrategies Inc.
Preliminary Tank Replacement Report	July 1, 1991	GeoStrategies Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



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

7 August 1991

Ron Knuston
Atlantic Richfield Company
2000 Alameda de las Pulgas
San Mateo, CA 94403

Subject: Preliminary Tank Replacement Report for 889 West Grand
Avenue, Oakland.

Dear Mr. Knuston:

Thank you for the analytical report dated 1 July 1991 and prepared by Gettler-Ryan Incorporated regarding the site listed above. This Preliminary Tank Replacement Report has been reviewed. This agency would like to express some commentary concerning the work conducted to date.

This office approved the proposed plan for the removal and replacement of the underground storage tanks at this location on 2 May 1991. Shortly thereafter, an unauthorized release report was submitted by Arco Products Company regarding this site. This release report stated that floating product had been detected in a ground water monitoring well. The release report further stated that this well was to be pumped on the 10th of May 1991.

The Preliminary Tank Replacement Report describes the installation of soil borings and the abandonment of the ground water monitoring well. Four of the five soil borings detected significant levels of contamination at depths of approximately ten feet. Ground water is reported at a depth is 13.5 feet.

The report makes no mention of water or free product having ever been pumped from the well that was abandoned. Other than the unauthorized release report this office has no documentation concerning the pumping of this well. Based on the close proximity

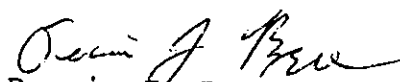
Ron Knutson
Atlantic Richfield Company
2000 Alameda de las Pulgas
San Mateo, CA 94403
Re. 889 West Grand Ave Oakland
7 August 1991
Page 2 of 2

of this well to the tanks to be closed and the highly contaminated soils identified by the borings, the decision to fill this well with concrete was questionable. The presence of this concrete filled well will not facilitate the closure/remediation process, but rather hinder the physical excavation of contaminated soils in the vicinity. Had this agency been provided an opportunity to comment on this action prior to its implementation we would have recommended an expedited closure of the tanks as opposed to abandonment of the well.

The discovery of floating product in the monitoring well coupled with the soil contamination measured in the borings installed during the preliminary tank replacement study argue for the expedited closure of the tanks on this site. As a period of three months has passed since approval was granted for the closure plan submitted for this purpose this agency sees no reason for further delay. Please communicate to your contractor, Gettler-Ryan, the need for a timely implementation of this tank closure.

Please instruct your contractor to coordinate the tank removal date with myself and the Oakland Fire Prevention Bureau at the earliest mutually convenient time. I would be pleased to answer any questions you may have concerning this matter and can be reached at (415) 271-4320.

Sincerely,



Dennis J. Byrne
Senior Hazardous Materials Specialist

cc: Mark Thompson, Alameda County District Attorney's Office,
Consumer and Environmental Protection Division
Lester Feldman, SFBRWQCB
Rafat Shahid, Assistant Director, Alameda County Department of
Environmental Health.
Keith Bullock, Gettler-Ryan Inc.
Paul Wilton, Barghausen Consulting Engineers

UNIFORM HAZARDOUS WASTE MANIFEST

Manifest Document No. **90542353** Page 1 of 1
 Generator's US EPA ID No. **CA100000986700003**
 Information in the shaded areas is not required by Federal law.

1. Generator's Name and Mailing Address
 ARCO
 P. O. Box 8811, San Mateo, CA 94402

4. Generator's Phone (415) 871-2434/571-2428

6. Transporter 1 Company Name
 H & H Ship Service Company

8. Transporter 2 Company Name

10. Designated Facility Name and Site Address
 H & H Ship Service Company
 220 China Basin Street
 San Francisco, CA 94107

A. State Manifest Document Number
90542353

B. State Generator's ID
81YH036-10151610

C. State Transporter's ID
280555

D. Transporter's Phone (415) 543-4835

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID
CA1000047711168

H. Facility's Phone
(415) 543-4835

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit wt/vol	15. Waste No.
a. OIL AND WATER NON RCRA HAZARDOUS WASTE LIQUID	0101	TIT 90920	G	State 135 EPA/Other
b.				State EPA/Other
c.				State EPA/Other

J. Additional Descriptions for Materials Listed Above
 FUEL OIL AND WATER
 PROFILE 9A0825

K. Handling Codes for Wastes Listed Above
 001

16. Special Handling Instructions and Additional Information
 JOB #7567
 24 Hr. Emergency Contact: H & H # (415) 543-4835
 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR.

JOB SITE: ARCO STATION, #2169
 889 West Grand Ave.
 Oakland, California

18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **Frank A Cline Per Arco Products**
 Signature: *[Signature]* Month Day Year: **10/5/91**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name: **WAYMON H. MC DONALD**
 Signature: *[Signature]* Month Day Year: **10/31/91**

18. Transporter 3 Acknowledgement of Receipt of Materials
 Printed/Typed Name: _____
 Signature: _____ Month Day Year: _____

18. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 16.
 Printed/Typed Name: _____
 Signature: _____ Month Day Year: _____

90542353
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9802. WITHIN CALIFORNIA CALL 1-800-452-7500

Do Not Write Below This Line

THIS GENERATOR SENDS THIS COPY TO DDTG WITHIN 90 DAYS
 No. 100-101-001 (Supplement 07) 10/19/91

July 15, 1991

Alameda County Department of Environmental Health
80 Swan Way
Oakland, California 94621

Attention: Mr. Rafat Shahid

ARCO Products Company Facilities in Alameda County - RWQCB Fuel Leaks List

Dear Mr. Shahid

Please find attached, Quarterly Summary Reports (QSRs) for ARCO Products Company Service Stations in Alameda County. The QSRs summarize activities conducted by ARCO at the respective sites during the second quarter of 1991; also included are projected site activities for the third quarter of 1991 and a bibliography of reports submitted for each location.

The QSRs are classified by address within the County. We are submitting this document and attached QSRs as agreed in our recent meeting with the RWQCB. Please note that we are forwarding copies of the QSRs to the RWQCB as well.

ARCO Products Company has reviewed the Regional Water Quality Control Board's (RWQCB) February 19, 1991 printout of ARCO fuel leak sites in the San Francisco Bay Area. We have evaluated each site with respect to ARCO's responsibility for investigation, monitoring, and/or remediation. It is ARCO's belief that several of the sites originally attributed to ARCO are actually the responsibility of other parties. We have therefore prepared QSRs and a brief discussion regarding those sites which we believe should either be removed from ARCO responsibility or be considered for closure.

ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on October 15, 1991. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely,



for Kyle A. Christie
Environmental Engineer

Attachments:

Non-ARCO Facility/Site Closure Discussion and QSRs
ARCO Facility QSRs

NON-ARCO FACILITY/SITE CLOSURE DISCUSSION AND QSRS

Alameda County

Alameda County Sites

Two ARCO facilities including Station Numbers 4977 and 6002 (located at 2770 Castro Valley Road, Castro Valley and 6235 Seminary Avenue, Oakland) experienced vapor/vent line failure during UST system precision testing. In accordance with State Water Resources Control Board (SWRCB) letter LG-43, ARCO requests that these facilities be removed from the RWQCB fuel leaks list.

A small volume of hydrocarbons were released from ARCO Station Number 498 located at 286 South Livermore Avenue, Livermore. The product was released to an on-site secondary containment trench and was subsequently removed; no product was released to the soil or groundwater. Alameda County issued a letter to ARCO on May 24, 1991 stating that no further action is necessary at this site.

A total of seven Alameda County ARCO facilities listed by the RWQCB were not ARCO-owned at the time of the release discovery and/or report. These sites include Station Numbers 188, 329, and 623 (respectively located at 4191 First Street, Pleasanton, 2032 12th Street, Oakland, and 2110 Mountain, Oakland) and facilities located at 2951 High Street, 4401 Market Street, 2844 Mountain Boulevard, and 2740 98th Street, Oakland.

ARCO has prepared QSRs for each of these facilities; however, we request that the cases be omitted from the leaks list or be referred to the actual responsible party, as appropriate. The ownership information for the individual sites is included on the attached QSRs.

Finally, the RWQCB February 19, 1991 printout lists two sites which are actually the same. The facility listed as 71 MacArthur Boulevard is actually ARCO Service Station Number 4931 located at 731 West MacArthur Boulevard in Oakland.

Attachment:

Non-ARCO Facility QSRs



July 8, 1991

ARCO Products Company
P.O. Box 5811
San Mateo, California 94402

Attention: Mr. Charles Carmel

Reference: Monthly Site Status Update
ARCO Service Station 2169
889 W. Grand Ave.
Oakland, California, 94607

Dear Mr. Carmel:

This letter provides an update on activities for the site referenced above. This update reports site activities performed during the month of May, 1991 and site activities anticipated for 1991.

Status of Previous Month's Activities:

* May 14, 1991: Pre-tank replacement soil borings were drilled. Floating product was vacced out of an existing well on site. Due to the lack of well details and its inefficiency the well was destroyed.

Anticipated Work to be Performed in the Next Year:

- * The underground storage tanks are to be removed.
- * The Work Plan for site assessment is in progress.

Please call if you have any questions concerning this letter.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Keith Bullock', is written over the typed name.

Keith Bullock

KB/clm

cc: Alameda County Health Agency, Department of Environmental Health

UST LEAK
SITE UPDATE

Date of Last
Review/Update: _____

Current
Date: 6/21/91

SITE IDENTIFICATION

Name: Arco Products Company #2169 Case No. _____

Address: 889 West Grand Avenue
Street Number Street

Oakland 94607
City Zip Code

County: Alameda County Substance: _____

Local Agency: Department of Environmental Health

Regional Board: San Francisco Bay Region

LEAD STAFF PERSON _____

CASE TYPE

_____ Undetermined _____ Soil Only Groundwater _____ Drinking Water

STATUS (Date indicates when case moved into status)

- _____ No Action Taken
- _____ Leak Being Confirmed Date _____
- _____ Prelim. Site Assessment Workplan Submitted Date _____
- _____ Preliminary Site Assessment Underway Date _____
- _____ Pollution Characterization Date _____
- _____ Remediation Plan Date _____
- _____ Remedial Action Underway Date _____
- _____ Post Remedial Action Monitoring Date _____
- _____ Case Referred to Regional Board Date _____
- _____ Case Referred to Dept. of Health Services Date _____
- _____ Case Closed Date _____

REMEDIAL ACTIONS:

COMMENTS: The drilling of five soil borings was used to evaluate the vertical and horizontal extent of petroleum hydrocarbons in soils beneath the site. A report is forthcoming.

RESPONSIBLE PARTY IDENTIFICATION (only if newly discovered or changed)

Name: _____

Contact: _____ Phone (____) _____

Address: _____
Street Number Street

_____ City State Zip Code

REPORT

Letter, Signatures on Leak
Reports for ARCO 2169

DATE

5/3/88

CONSULTANT

Brown & Caldwell

Underground Storage Tank Unauthorized
Release (LEAK)/Contamination
Site Report for ARCO 2169

6/7/88

Brown & Caldwell

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 251807 OF THE HEALTH AND SAFETY CODE

REPORT DATE (MM-DD-YY) 05/10/91 CASE # 16897

SIGNED *Elaine J. Lavine* DATE 5/13/91

REPORTED BY
 NAME OF INDIVIDUAL FILING REPORT: Elaine Lavine PHONE: (415)-571-2482
 SIGNATURE: *Elaine J. Lavine*
 REPRESENTING: OWNER/OPERATOR REGIONAL BOARD
 LOCAL AGENCY OTHER
 COMPANY OR AGENCY NAME: ARCO Products Company
 ADDRESS: P.O. Box 5811 San Mateo CA 94402

RESPONSIBLE PARTY
 NAME: ARCO Products Company UNKNOWN CONTACT PERSON: Elaine J. Lavine PHONE: (415)-571-2482
 ADDRESS: PO BOX 5811 ATTN: Env.Compl.Dept. San Mateo CA 94402

SITE LOCATION
 FACILITY NAME (IF APPLICABLE): ARCO FACILITY 02169 OPERATOR: RAMESH SOOD PHONE: (415)-465-4450
 ADDRESS: 889 W.GRAND AVE. OAKLAND ALAMEDA 94607
 STREET CITY STATE ZIP
 CROSS STREET: MARKET/W GRAND AVE

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): UNKNOWN
 (2) QUANTITY LOST (GALLONS): UNKNOWN

DISCOVERY/TREATMENT
 DATE DISCOVERED (MM-DD-YY): 05/09/1991 HOW DISCOVERED: TANK TEST INVENTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS
 TANK REMOVAL OTHER
 DATE DISCHARGE BEGAN (MM-DD-YY): UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURE
 OTHER
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: UNKNOWN

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

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

COMMENTS
 CONTRACTOR MONITORED A WELL NEAR UST AND OBSERVED FREE PRODUCT ON THE WATER TABLE. WELL TO BE PUMPED 5/10/91 ON EMERGENCY BASIS. REPLACING THE PRODUCT TANKS. ALAMEDA COUNTY AND OES NOTIFIED.

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



May 10, 1991

Certified P 338 466 166

Alameda County
Public Health Services
Hazardous Materials Section
80 Swan Way, Suite 200
Oakland, CA 94621
ATTN: Dennis Byrne

RE: ARCO Facility #02169
889 W. Grand Avenue
Oakland, CA 94607

Dear Dennis:

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 instructions.

If you should have any questions or comments regarding this matter, please do not hesitate to call me at (415) 571-2482.

Sincerely,


Elaine J. Lavine
Environmental Compliance Department

EJL;ma
dl:2169.1k

enc.

cc: Kyle Christie

91 MAY 13 AM 10:57

**UST LEAK
SITE UPDATE**

Date of Last Review/Update January 15, 1991

Current Date April 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 2169

Address 899 West Grand Avenue
Street Number

Oakland
City

County Alameda

Local Agency Alameda County Environmental Health Department

Regional Board Regional Water Quality Control Board - San Francisco Bay Area

Case No. _____

ZIP Code 94607

Substance _____

LEAD STAFF PERSON

CASE TYPE

Undetermined

Soil Only

Ground Water

Drinking Water

STATUS (Date indicates when case moved into status)

No Action Taken

Leak Being Confirmed

Preliminary Site Assessment Workplan Submitted

Preliminary Site Assessment Underway

Pollution Characterization

Remediation Plan

Remedial Action Underway

Post Remedial Action Monitoring

Case Referred to Regional Board

Case Referred to Dept. of Health Services

Case Closed

Date _____

Date _____

Date _____

Date _____

Date _____

Date _____

Date _____

Date _____

Date _____

Date _____

REMEDIAL ACTIONS

COMMENTS

In February 1988, vaport/vent line leaks were detected in the system during annual tank testing. The system was repaired. In March 1988, the system passed retest. An Underground Storage Tank Unauthorized Release (Leak) Report and the results of the tank test were sent from Brown & Caldwell to ACEHD on June 7, 1988.

Other work is planned at this site at this time.

Refer to the attached page for a listing of previously submitted reports which document site history.

VISIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Street Number _____

Phone () _____

City _____

Street _____

State _____

State _____

ZIP Code _____

REPORT

Letter, Signatures on Leak
Reports for ARCO 2169

DATE

5/3/88

CONSULTANT

Brown & Caldwell

Underground Storage Tank Unauthorized
Release (LEAK)/Contamination
Site Report for ARCO 2169

6/7/88

Brown & Caldwell

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 PHONE NO. 415/271-4320

Project Specialist (print) Dennis Byrue

5/2/91
 ACCEPTED DBR

DEPARTMENT OF ENVIRONMENTAL HEALTH
 490 - 2015 Street Third Floor
 Oakland, CA 94612
 Telephone (415) 554-7037

These plans have been reviewed and found to be acceptable and generally meet the requirements of State and local health laws, Chapter 150.000 of the Health Code. It is recommended that you comply with all State and local laws. The subject project must be reviewed and approved by the relevant building permits department.

Construction of this project shall be in accordance with all applicable codes and regulations and all construction and craftsmen involved in the project.

Any future alterations of these plans and specifications must be referred to this Department and to the 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
- _____ Final Inspection

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. Business Name ARCO AM/PM Mini-Market
 Business Owner Atlantic Richfield Company
 2. Site Address 889 West Grand Avenue
 City Oakland Zip 94607 Phone 415-465-4450
 3. Mailing Address same
 City _____ Zip _____ Phone _____
 4. Land Owner Atlantic Richfield Company
 Address 2000 Alameda de las Pulgas City, State San Mateo, CA Zip 94403
 5. Generator name under which tank will be manifested _____
Atlantic Richfield Company
- EPA I.D. No. under which tank will be manifested CAL000009867

6. Contractor Gettler Ryan
Address 2150 West Winton Avenue
City Hayward, CA 94545 Phone 415-783-7500
License Type B/C61/D40 ID# 94-155-1136

7. Consultant Barghausen Consulting Engineers
Address 4612 Roseville Road, Suite 103
City North Highlands, CA 995660 Phone 916-348-3057

8. Contact Person for Investigation
Name Paul Wilton Title Design Engineer
Phone 916-348-3057

9. Number of tanks being closed under this plan 4
Length of piping being removed under this plan 300' x 4 pipes
Total number of tanks at facility 4

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name H&H Ship Service Co. EPA I.D. No. CAD 004771168
Hauler License No. 0334 License Exp. Date 1-31-92
Address 220 China Basin Street
City San Francisco State CA Zip 94107

b) Product/Residual Sludge/Rinsate Disposal Site

Name same as above EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

14. Describe methods to be used for rendering tank inert

dry ice

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)		
UNL. 12,000 GAL.	INSTALLED 5-83	WATER	* SEE ATTACHED SOIL SAMPLING METHODS
REG. 8,000 GAL.	" 8-70	OIL	
SUP. 6,000 GAL.	" 8-70	SLUDGE	
DIESEL 6,000 GAL.	" 8-70	SOIL	

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.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan

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 BTX+E		Modified 8015 (GC FID 5030) 8020 or 8240	
TPH-D BTX+E		Modified 8015 (GC FID 3550) 8020 or 8240	

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity

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.

Signature of Contractor

Name (please type) David Byron -- Gettler Ryan

Signature David J. Byron

Date 4/25/91

Signature of Site Owner or Operator

Name (please type) Ron Knutson -- Atlantic Richfield Company

Signature Ron Knutson

Date 4/25/91

SOIL SAMPLING METHODS

Sampling will be conducted in accordance with the following three regulatory documents: (1) Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations (California Regional Water Quality Control Board [CRWQCB] May 1989); (2) Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, Tri-Regional Recommendations, Appendix A: Central Valley Regional Board Reporting Requirements (CRWQCB, April 1989); and (3) Leaking Underground Fuel Tank (LUFT) Field Manual: Guidelines for Site Assessment, Cleanup, and Underground Storage Tank Closure (CRWQCB, October 1989). A letter of acknowledgment and a signed Authorization to Release Analytical Data form is included as an attachment to this letter.

During sampling, the geologist will use a PID to characterize the relative levels of hydrocarbons in the soil and note any subjective evidence of hydrocarbons such as obvious product odor and discoloration. Field instruments such as the PID are useful for indicating relative levels of hydrocarbon vapors, but do not detect the concentration of hydrocarbons present with the same precision as laboratory analyses.

During sampling, the soil will be brought to the ground surface in an excavator bucket, and the outer soil will be scraped away. A clean, 6-inch-long, 2 1/2 inch-diameter, clear brass tube will be driven into the soil using a percussion sampler. The brass tube will be removed and the ends covered with aluminum foil and plastic end caps and taped. The tube will be labeled and immediately placed on ice for transport to the laboratory. Chain of Custody Records will be maintained throughout delivery to the laboratory.

Soil samples will also be collected from the stockpiled soil to evaluate treatment and disposal options. Four soil samples will be collected for every 50 cubic yards of stockpiled soil. Each group of four samples will be composited into one sample by the laboratory. Soil samples will be collected in clean brass tubes from approximately 18 inches below the surface of the stockpiles.

CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
04/24/91

PRODUCER

Woodruff-Sawyer & Co.
 220 Bush Street
 7th Floor
 San Francisco, CA 94104

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** **Republic Indemnity**

- COMPANY LETTER **B**

- COMPANY LETTER **C**

- COMPANY LETTER **D**

- COMPANY LETTER **E**

INSURED

Gettler-Ryan Incorporated
 2150 West Winton Avenue
 Hayward, CA 94545-1787

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE 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. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.


CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS-COMP/OPS AGGREGATE \$ PERSONAL & ADVERTISING INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MEDICAL EXPENSE (Any one person) \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	EXCESS LIABILITY <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
A	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	PC941426	04/01/91	04/01/92	STATUTORY \$ 1,000 (EACH ACCIDENT) \$ 1,000 (DISEASE—POLICY LIMIT) \$ 1,000 (DISEASE—EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
RE: Facility #2169 - 889 W. Grand Ave., Oakland, CA.

CERTIFICATE HOLDER

County of Alameda, Dept. of Environmental Health
 80 Swan Way, Room 200
 Oakland, CA 94621

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE


Please keep
this file in
order.
Thanks. S. King

SUMMARY REPORT
Third Quarter 1990

ARCO Service Station 2169
889 West Grand Avenue
Oakland, California
Alameda County

BACKGROUND

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

SOIL CONDITIONS

No change from last quarter.

QUARTERLY GROUND-WATER MONITORING

No monitoring wells onsite.

STATUS SUMMARY: REMEDIATION

No remediation planned.

ANTICIPATED WORK FOR NEXT QUARTER

ARCO plans no further work at this time.

SUMMARY REPORT
Second Quarter 1990

ARCO Service Station 2169
889 West Grand Avenue
Oakland, California
Alameda County

BACKGROUND

For site history prior to 1990 refer to the October-December 1989 Quarterly Summary Report issued in January 1990.

SOIL CONDITIONS

No change from last quarter.

QUARTERLY GROUND-WATER MONITORING

No monitoring wells onsite.

STATUS SUMMARY: REMEDIATION

No remediation planned.

ANTICIPATED WORK FOR NEXT QUARTER

ARCO plans no further work at this time.

QUARTERLY SUMMARY REPORT
Alameda County
January 1990

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Brief History

- February 12, 1988, vapor/vent line leak detected in unleaded, regular, and super unleaded gasoline systems during annual tank testing at the site. The systems were repaired.
- March 24, 1988, an Underground Storage Tank Unauthorized Release (Leak) Report and the results of tank testing were sent from Brown and Caldwell to Alameda County Division of Environmental Health on June 7, 1988.

Future Work

- Per Letter LG-43 (State Water Resources Control Board), ARCO plans no further work at this site at this time.

HAZARDOUS MATERIALS

Site Brief for

UNDERGROUND TANKS

ALAMEDA COUNTY

for the City of Alameda

as of 12/28/90

pg 1

UTID/ Status Name of Site BillID =====	Site Address =====	#Tanks PERMITS: =====
-0- C Arco Station #02112 T61043	1260 Park St. Alameda, CA 94501	5 I:09/06/88 F:-0-
784 C Arco Station #02035 T61043	1001 San Pablo Ave. Albany, CA 94706	4 I:09/06/88 F:-0-
658 C Arco Station #04977 AM/PM T61043	2770 Castro Valley Blvd. Castro Valley, CA 94546	3 I:09/06/88 F:07/05/88
-0- C Arco Station #02152 T61043	22141 Center St. Castro Valley, CA 94546	3 I:09/06/88 F:-0-
*1053 C Arco Station #06041 T61043	7249 Village Pkwy. Dublin, CA 94568	4 I:09/06/88 F:-0-
*813 C Arco K&V Gas Foodmart T10115	6211 San Pablo Ave. Emeryville, CA 94608	3 I:-0- F:-0-
I * C Arco Station #05387 T61043	20200 Hesperian Blvd. Hayward, CA 94541	4 I:09/06/88 F:-0-
*-0- C Airport Arco T21120	20450 Hesperian Blvd. Hayward, CA 94541	3 I:02/03/89 F:-0-
*-112 C Springtown Arco T42311	909 Bluebell Dr. Livermore, CA 94550	3 I:-0- F:-0-
-0- C Arco Station #00771 T61043	899 Rincon Ave. Livermore, CA 94550	5 I:09/06/88 F:-0-
198 R Wong's Arco T61026	2032 E. - 12th St. Oakland, CA 94606	0 I:-0- F:-0-
*-0- C Arco Station #02185 T61043	9800 E. - 14th St. Oakland, CA 94603	4 I:09/06/88 F:-0-
1130 C Freeway Arco TA1036	2740 - 98th Ave. Oakland, CA 94605	4 I:10/13/87 F:-0-
-0- C Arco Station #02169 T61043	889 W. Grand Ave. Oakland, CA 94607	5 I:09/06/88 F:-0-
*-0- R Gin's Arco Service -0-	706 Harrison St. Oakland, CA 94612	0 I:-0- F:-0-
-0- C Arco Station #04494 T61043	566 Hegenberger Rd. Oakland, CA 94621	3 I:02/05/88 F:-0-
*1038 C High St. Arco T21043	2951 High St. Oakland, CA 94619	5 I:02/05/88 F:-0-
-0- C Arco Station #04931 T61043	731 W. MacArthur Blvd. Oakland, CA 94609	4 I:09/06/88 F:-0-
-0- C Arco Station #00276 T61043	10600 MacArthur Blvd. Oakland, CA 94605	3 I:09/06/88 F:-0-
851 C Mountain Blvd. Arco T41043	2844 Mountain Blvd. Oakland, CA 94602	4 I:04/14/88 F:-0-
-0- C Arco Station #02107 T61043	3310 Park Blvd. Oakland, CA 94610	3 I:09/06/88 F:-0-
-0- C Arco Station #06002 T61043	6235 Seminary Ave. Oakland, CA 94605	4 I:09/06/88 F:-0-
-0- C Arco Station #06148 T61043	5131 Shattuck Ave. Oakland, CA 94609	3 I:09/06/88 F:-0-
-0- C Arco Station #00374 T61043	6407 Telegraph Ave. Oakland, CA 94609	3 I:09/06/88 F:-0-
? -0- F Freedom Arco -0-	15101 Freedom Ave. San Leandro, CA 94578	3 I:-0- F:-0-
1794 C Pharco T81053	2222 Grant Ave. San Lorenzo, CA 94580	1 I:08/16/88 F:-0-
779 C Arco Station #00608 T61043	17601 Hesperian Blvd. San Lorenzo, CA 94580	4 I:09/06/88 F:-0-

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

printed: 12/28/90
page: 1

ABID/BillID	Name of Site	Site Address	Zip	SysEntry	S
/L71107	Arco Station #02112	1260 Park St.	501	10/24/90	C
/L91227	Arco Station #02035	1001 San Pablo Ave.	706	08/14/89	C
658/HL7111	Arco Station #04977	2770 Castro Valley Blvd.	546	08/14/89	C
/HL7112	Arco Station #02152	22141 Center St.	546	08/14/89	C
1053/HL7114	Arco Station #06041	7249 Village Pkwy.	568	06/04/90	C
/LC1217	Arco Station #05387	20200 Hesperian Blvd.	541	06/04/90	C
/L22223	Airport Arco	20450 Hesperian Blvd.	541	08/01/89	C
/	Springtown Arco	909 Bluebell St.	550		P
/L41112	Arco Station #00771	899 Rincon Ave.	550	07/28/89	C
/L81123	Arco Station #02185	9800 E. - 14th St.	603	08/14/89	C
1130/L91386	Freeway Arco	2740 - 98th Ave.	608	09/18/89	C
/L81146	Arco Station #02169	889 W. Grand Ave.	607	08/14/89	C
/L81176	Arco Station #04494	566 Hegenberger Rd.	621	08/14/89	C
1038/	High St. Arco	2951 High St.	619	03/21/89	P
/L81178	Arco Station #04931	731 W. MacArthur Blvd.	609	06/04/90	C
/L81128	Arco Station #00276	10600 MacArthur Blvd.	605	11/20/89	C
851/L12017	Mountain Blvd. Arco Servi	2844 Mountain Blvd.	602	11/30/90	M
/L81188	Arco Station #02107	3310 Park Blvd.	610	08/14/89	C
/L81295	Sunshine Petroleum, Inc.	6211 San Pablo Ave.	608	12/28/90	M
/HL8112	Arco Station #06002	6235 Seminary Ave.	605	08/31/90	C
/L81130	Arco Station #06148	5131 Shattuck Ave.	609	06/04/90	C
/L81179	Arco Station #00374	6407 Telegraph Ave.	609	08/14/89	C
744/HL7116	Arco Station #02111	1156 Davis St.	577	08/14/89	C
/HL7118	Arco Station #00601	712 Lewelling Blvd.	579	08/14/89	C
1784/TA1469	Tharce	2322 Grant Ave.	580	07/29/89	C
779/HL7119	Arco Station #00608	17601 Hesperian Blvd.	580	08/14/89	C

Arco Stati

Report Total : 26

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

*6211 San Pablo
No 467 MP.*

UST LEAK Date of Last Current
SITE UPDATE Review/Update October 15, 1990 Date January 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 2169 Case No. _____
Address 889 West Grand Avenue
Street Number Street
Oakland 94607
City ZIP Code
County Alameda Substance _____
Local Agency Alameda County Environmental Health Department
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON _____

CASE TYPE

Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date	_____
<input type="checkbox"/> Leak Being Confirmed	Date	_____
<input type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date	_____
<input type="checkbox"/> Preliminary Site Assessment Underway	Date	_____
<input type="checkbox"/> Pollution Characterization	Date	_____
<input type="checkbox"/> Remediation Plan	Date	_____
<input type="checkbox"/> Remedial Action Underway	Date	_____
<input type="checkbox"/> Post Remedial Action Monitoring	Date	_____
<input type="checkbox"/> Case Referred to Regional Board	Date	_____
<input type="checkbox"/> Case Referred to Dept. of Health Services	Date	_____
<input type="checkbox"/> Case Closed	Date	_____

REMEDIAL ACTIONS

COMMENTS

In February 1988, vaport/vent line leaks were detected in the system during annual tank testing. The system was repaired. In March 1988, the system passed retest. An Underground Storage Tank Unauthorized Release (Leak) Report and the results of the tank test were sent from Brown & Caldwell to ACEHD on June 7, 1988.

No further work is planned at this site at this time.

Please refer to the attached page for a listing of previously submitted reports which document site history.

RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Name _____
Contact _____ Phone () _____
Address _____
Street Number Street
City State ZIP Code

11/17/89 diesel will send

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 Ramesh Sood Today's Date 9/15/90
Site Address 889 W. Grand Ave
City Oakland Zip 94607 Phone 465-4450
MAX AMT stored > 500 lbs. 55 gal., 200 cft.?

- 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)

- 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(h)
 - ___ 18. Exemption Request? (Y/N) 25536(b)
 - ___ 19. Trade Secret Requested? 25538

- UNDERGROUND TANKS (Title 23)**
- ___ 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

- ___ 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 Gndwater
 - 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
- ___ 7. Precs Tank Test
 - Date: 10/27/89 2643
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing 2646
- ___ 10. Ground Water. 2647
- ___ 11. Monitor Plan 2632
- ___ 12. Access. Secure 2634
- ___ 13. Plans Submit
 - Date: 2711
- ___ 14. As Built 2635

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

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

Comments:
 (4) UST's
 Super unleaded 6000 single walled UST
 unleaded 12,000
 Reg 8,000
 Diesel 6,000
 Last precision test record available for the diesel tank 2/17/88
 precision test available last one 10/27/89 for 15% super unleaded
 Mr Sood reported that a recent leak detection test was done recently.
 Daily inventory is being done records for August are not available - the book keeper is working on them
 I informed Mr Sood that records should be on hand at all times.
 * NO Quarterly inventory reports are being submitted to this office.
 * Inventory is being monitored daily however the inventory disparity from one days reading to the next is not being calculated. This situation needs to be resolved so that quarterly reporting can be initiated
 need current precision tank integrity test for diesel or current
 no written inventory monitoring plan available upon insp. records
 Emergency response plan contained within business plan.

Contact: Ramesh Sood
Title: owner
Signature: _____

Inspector: Paul Smith
Signature: Paul M. Smith

Arco Facility 2169

QUARTERLY SUMMARY REPORT

Alameda County

September 1989

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Brief History

- February 12, 1988, vapor/vent line leak detected in unleaded, regular, and super unleaded gasoline systems during annual tank testing at the site. The systems were repaired.
- March 24, 1988, an Underground Storage Tank Unauthorized Release (Leak) Report and the results of tank testing were sent from Brown and Caldwell to Alameda County Division of Environmental Health on June 7, 1988.

Future Work

- Per Letter LG-43 (State Water Resources Control Board), ARCO plans no further work at this site at this time.

07/14/89

①

QUARTERLY SUMMARY REPORT
Alameda County
July 1989

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California

Brief History

- February 12, 1988, vapor/vent line leak detected in unleaded, regular, and super unleaded gasoline systems during annual tank testing at the site. The systems were repaired.
- March 24, 1988, an Underground Storage Tank Unauthorized Release (Leak) Report and the results of tank testing were sent from Brown and Caldwell to Alameda County Division of Environmental Health on June 7, 1988.
- Per Letter LG-43 (State Water Resources Control Board), ARCO plans no further work at this site at this time.

1205



BROWN AND CALDWELL
CONSULTING ENGINEERS

CALIFORNIA REGIONAL WATER

March 24, 1988

APR 1 1988

Mr. Ed Howell
Alameda County Public Health Service
Hazardous Materials Section
470 27th Street
Oakland, California 94612

QUALITY CONTROL BOARD

11-3310-03/1

Subject: Unauthorized Release Reports for
Arco Stations 374, 2169, and 4494

Dear Mr. Howell:

On behalf of Arco Petroleum Products Company (Arco), enclosed are leak reports for the failed tank integrity tests at the following Arco stations in Oakland, California:

<u>Arco station</u>	<u>Address</u>	<u>Test date</u>	<u>Failed system</u>
374	6407 Telegraph Avenue	2/08/88	Unleaded
2169	889 West Grand Avenue	2/17/88	Regular, unleaded, and super unleaded
4494	566 Hegenberger Road	2/19/88	Regular and unleaded

The above-mentioned systems all failed the product line pressure test. These systems were shut down until repairs could be made and will start up again only after passing a retest. The retest results will be forwarded to you as soon as possible. If you have any questions regarding these stations, please call Ms. Margit Bantowsky or me.

Very truly yours,

BROWN AND CALDWELL

Margit Bantowsky
Kenneth Chiang for

MB:cl
Enclosures (3)

cc/ Mr. Peter Johnson, San Francisco Bay Area Regional Water
Quality Control Board, Oakland, California
enc/ Ms. Karen Schultheis, Arco Petroleum Products Company,
San Mateo, California
Mr. Hank Sheetz, Arco Petroleum Products Company, San Mateo,
California
Mr. Alex Woelper, Arco Petroleum Products Company, Sacramento

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE/LEAK/CONTAMINATION SITE REPORT

EMERGENCY YES NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO STATE TANK ID # Alameda 2198 RCMD 4/15

REPORT DATE 03/10/1988 LOCAL CASE # REGIONAL BOARD CASE # US EPA ID #

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT HANK SHEETZ PHONE ID# 484-1304 SIGNATURE Hank Sheetz
 REPRESENTING LOCAL AGENCY OTHER OWNER/OPERATOR COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS COMPANY
 ADDRESS P.O. BOX 5811 SAN MATEO CA STATE 94403
 STREET CITY ZIP

RESPONSIBLE PARTY: NAME ARCO PETROLEUM PRODUCTS CO. CONTACT PERSON HANK SHEETZ PHONE ID# 484-1304
 ADDRESS P.O. BOX 5811 SAN MATEO CA STATE 94403
 STREET CITY ZIP

SITE LOCATION: FACILITY NAME (IF APPLICABLE) ARCO FACILITY 2169 OPERATOR ED MANTZ PHONE (415) 465-4450
 ADDRESS 889 W. GRAND AVE. OAKLAND ALAMEDA COUNTY 94607
 STREET CITY ZIP
 CROSS STREET MARKET TYPE OF AREA COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL OTHER TYPE OF BUSINESS RETAIL FUEL STATION UNKNOWN OTHER

IMPLEMENTING AGENCIES: LOCAL AGENCY ALAMEDA CO. PUBLIC HEALTH CONTACT PERSON ED HOWELL PHONE (415) 874-7237
 REGIONAL BOARD S.F. BAY AREA RWQCB CONTACT PERSON PETER JOHNSON PHONE (415) 464-0838
 TSCD

SUBSTANCES INVOLVED: CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME QUANTITY LOST (GALLONS)
 (1) GASOLINE (REG, SUPER W/L, UNLEAD) UNKNOWN
 (2)

DISCOVERY/ABATEMENT: DATE DISCOVERED 03/21/1988 HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONITORING TANK AND PRODUCT REMOVAL TANK REMOVAL NUISANCE CONDITIONS OTHER: LINE TESTING
 DATE DISCHARGE BEGAN UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) REMOVE CONTENTS REPLACE TANK CLOSE TANK
 HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE 03/21/1988 REPAIR TANK REPAIR PIPING CHANGE PROCEDURES
 OTHER DISCONTINUE TANK TEST

SOURCE/CAUSE: SOURCE(S) OF DISCHARGE TANK LEAK UNKNOWN PIPING LEAK OTHER (SPECIFY) _____
 TANKS ONLY/CAPACITY _____ GAL CAUSE(S) OVERFILL CORROSION
 AGE _____ YRS. UNKNOWN RUPTURE/FAILURE SPILL
 MATERIAL STEEL FIBERGLASS UNKNOWN OTHER _____

RESOURCES AFFECTED/AT RISK: RESOURCES AFFECTED YES NO THREATENED UNKNOWN WATER SUPPLIES AFFECTED YES NO THREATENED UNKNOWN # OF WELLS
 AIR (VAPOR) PUBLIC DRINKING WATER _____
 SOIL (VADOSE ZONE) PRIVATE DRINKING WATER _____
 GROUNDWATER INDUSTRIAL _____
 SURFACE WATER OR STORM DRAIN AGRICULTURAL _____
 BUILDING OR UTILITY VAULT OTHER (SPECIFY) _____
 OTHER (SPECIFY) OTHER (SPECIFY) _____
 GROUNDWATER BASIN NAME UNKNOWN

COMMENTS: _____
 COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) CONTAMINATION SITE REPORT

New Co. 01

STATE TANK ID # Sloman | ACMD 4/19

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

REPORT DATE 03/10/1988

LOCAL CASE #

REGIONAL BOARD CASE #

US EPA ID #

REPORTED BY **HANK SHEETZ** PHONE ID# 484-1304 SIGNATURE Hank Sheetz For ARCO
 REPRESENTING LOCAL AGENCY OTHER OWNER/OPERATOR COMPANY OR AGENCY NAME ARCO PETROLEUM PRODUCTS COMPANY
 ADDRESS P.O. Box 5811 SAN MATEO CA STATE 94403 ZIP

RESPONSIBLE PARTY NAME ARCO PETROLEUM PRODUCTS CO. CONTACT PERSON HANK SHEETZ PHONE ID# 484-1304
 ADDRESS P.O. Box 5811 SAN MATEO CA STATE 94403 ZIP

SITE LOCATION FACILITY NAME (IF APPLICABLE) ARCO FACILITY 2169 OPERATOR ED MANTZ PHONE (415) 465-4450
 ADDRESS 889 W. GRAND AVE. OAKLAND ALAMEDA COUNTY CA STATE 94607 ZIP

CROSS STREET MARKET TYPE OF AREA COMMERCIAL INDUSTRIAL RESIDENTIAL RURAL OTHER TYPE OF BUSINESS RETAIL FUEL STATION UNKNOWN OTHER

IMPLEMENTING AGENCIES LOCAL AGENCY ALAMEDA CO. PUBLIC HEALTH CONTACT PERSON ED HOWELL PHONE (415) 874-7237
 REGIONAL BOARD S.F. BAY AREA RWQCB CONTACT PERSON PETER JOHNSON PHONE (415) 464-0838
 TSCD

SUBSTANCES INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME QUANTITY LOST (GALLONS)
 (1) GASOLINE (REG., SUPER W/L, UNLEAD) UNKNOWN

DISCOVERY/ABATEMENT DATE DISCOVERED 03/21/1988 HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONITORING ROUTINE MONITORING TANK REMOVAL NUISANCE CONDITIONS OTHER: LINE TESTING
 DATE DISCHARGE BEGAN UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURES OTHER: DISCONTINUE TANK TEST

SOURCE/CAUSE SOURCE(S) OF DISCHARGE TANK LEAK UNKNOWN PIPING LEAK TANKS ONLY/CAPACITY GAL CAUSE(S) OVERFILL CORROSION
 AGE YRS. UNKNOWN MATERIAL STEEL FIBERGLASS RUPTURE/FAILURE SPILL
 OTHER (SPECIFY) UNKNOWN OTHER

RESOURCES AFFECTED/AT RISK

	YES	NO	THREATENED	UNKNOWN	WATER SUPPLIES AFFECTED	YES	NO	THREATENED	UNKNOWN	# OF WELLS
AIR (VAPOR)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PUBLIC DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
SOIL (VADOSE ZONE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PRIVATE DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
GROUNDWATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	INDUSTRIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
SURFACE WATER OR STORM DRAIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AGRICULTURAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
BUILDING OR UTILITY VAULT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

COMMENTS: UNKNOWN

COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

UST LEAK SITE UPDATE Date of Last Review/Update October 15, 1990 Current Date January 15, 1991

SITE IDENTIFICATION

Name ARCO Service Station 2169 Case No. _____
Address 889 West Grand Avenue
Street Number Street
Oakland City 94607 ZIP Code
County Alameda Substance _____
Local Agency Alameda County Environmental Health Department
Regional Board Regional Water Quality Control Board - San Francisco Bay Area

LEAD STAFF PERSON _____

CASE TYPE

Undetermined Soil Only Ground Water Drinking Water

STATUS (Date indicates when case moved into status)

<input type="checkbox"/> No Action Taken	Date _____
<input type="checkbox"/> Leak Being Confirmed	Date _____
<input type="checkbox"/> Preliminary Site Assessment Workplan Submitted	Date _____
<input type="checkbox"/> Preliminary Site Assessment Underway	Date _____
<input type="checkbox"/> Pollution Characterization	Date _____
<input type="checkbox"/> Remediation Plan	Date _____
<input type="checkbox"/> Remedial Action Underway	Date _____
<input type="checkbox"/> Post Remedial Action Monitoring	Date _____
<input type="checkbox"/> Case Referred to Regional Board	Date _____
<input type="checkbox"/> Case Referred to Dept. of Health Services	Date _____
<input type="checkbox"/> Case Closed	Date _____

REMEDIAL ACTIONS

COMMENTS

In February 1988, vaport/vent line leaks were detected in the system during annual tank testing. The system was repaired. In March 1988, the system passed retest. An Underground Storage Tank Unauthorized Release (Leak) Report and the results of the tank test were sent from Brown & Caldwell to ACEHD on June 7, 1988.

No further work is planned at this site at this time.

Please refer to the attached page for a listing of previously submitted reports which document site history.

RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or changed)

Name _____
Contact _____ Phone () _____
Address _____
Street Number Street
City State ZIP Code

REPORT

Letter, Signatures on Leak
Reports for ARCO 2169

DATE

5/3/88

CONSULTANT

Brown & Caldwell

Underground Storage Tank Unauthorized
Release (LEAK)/Contamination
Site Report for ARCO 2169

6/7/88

Brown & Caldwell

QUARTERLY SUMMARY REPORT

Alameda County

September 1989

ARCO Service Station No. 2169
889 West Grand Avenue
Oakland, California 607

Brief History

- February 12, 1988, vapor/vent line leak detected in unleaded, regular, and super unleaded gasoline systems during annual tank testing at the site. The systems were repaired.
- March 24, 1988, an Underground Storage Tank Unauthorized Release (Leak) Report and the results of tank testing were sent from Brown and Caldwell to Alameda County Division of Environmental Health on June 7, 1988.

Future Work

- Per Letter LG-43 (State Water Resources Control Board), ARCO plans no further work at this site at this time.

Precision testing results for 1986, 1987 and 1990 have not been submitted.

general comments:
"once a year" means every 12 months, not once every ~~quarter~~ calendar year

Testing done: 2/12/88
10/31/89

> 20 mos.

T.23-2643(e)
H/S 25293
H/S 25299(b)(4)
H/S 25299(B)

A leak report was filed for a November, 1982, leak. 4 of 11 monitoring wells experienced floating free product in July, 1989. A proposal to submit a phase-recovery system was made but it is unclear whether this proposal was ever implemented. We speculate there has been no site remediation because this is still a single-walled tank operation. County has been provided no information that a 3rd quarter 1990 proposed remedial action plan has ever been implemented. Failure to remediate, going on 8 years!

H/S 25189(d)

(Note: At 1/10/91 inspection, dealer, who ^{also} operates 3 Shell stations stated that Arco was not as good as Shell in providing assistance.)

✓ 889 W. Grand Ave., Oakland - #2169 (site status as of 2/28/91)

Precision test for 1987 not submitted to County and, apparently, not performed. Failure to test on an annual basis.

T.23-2643(e)
H/S 25293
H/S 25299(b)(4)
H/S 25299(b)

When the 2/17/88 precision tests were conducted, 3 gasoline tanks failed the hi-level test but passed the low-level test. Such a result usually means a piping leak. And, indeed, the regular product line failed its test. Although Arco's consultant would later represent on 1/15/91 that it was a vapor line that was repaired, in fact it was the product line which was repaired. (A product line will create a greater problem than a vapor line.) The leak report filed 3/11/88 was filed late.

H/S 25295(a)
H/S 25299(a)(4)
H/S 25299(b)(4)
H/S 25299(b)

On 4/12/88, all systems were retested. All tanks passed with exception of regular, which failed its hi-level test. On 5/27/88, the regular passed. Arco performed repairs between 2/17/88 and 5/27/88 that it didn't report.

↓
document on

T.23 - 2652
H/S 25299.3
H/S 25299

This station was inspected 9/5/90. Violations include:

Only 4th quarter 1990 monitoring reports have been submitted.

T.23 - 2644(e)
H/S 25299.3
H/S 25299

Incorrect inventory reconciliation techniques; ~~inventory~~
inventory discrepancies from one day to next were not being carried over. Accumulative inventory totals were not being performed. Failure to monitor.

T.23-2641(e) (5) (B) (iii)
H/S 25299(a)
H/S 25299(a) (2)
H/S 25299(b) (4)
H/S 25299(b)

✓ 2032 E. 12th Street, Oakland (site status as of 2/28/91)

4 tanks removed 5/89. Site remediation necessary.

Question: What was Arco's ownership interest in this site?

→ *no records in files of precision testing or inventory rec.*

✓ 2110 Mountain and Merced, Oakland - #623 (site status as of 2/28/91)

This site is currently a Thrifty Jr. and parking lot.

Question: When did conversion take place? When were tanks closed? Where is final closure report that closure was performed properly?