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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 #2112 1260 Park Street Alameda, California ACEH Case #RO0000044

"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:

l Supple

Paul Supple Environmental Business Manager



26 January 2007

Project No. 06-08-616

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 #2112, 1260 Park Street, Alameda, Alameda County, California; ACEH Case No.RO0000044.

Dear Mr. Supple:

Provided herein is the *Fourth Quarter 2006 Status Report* for Atlantic Richfield Company Station #2112 (herein referred to as Station #2112) located at 1260 Park Street, Alameda, Alameda County, California (Site). This report presents a summary of recent developments at the site during Fourth Quarter of 2006.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E. Senior Engineer

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

Enclosures

- ROBERT H. MILLER No. 4893 ST 1-26-07
- cc: Mr. Stephen Plunkett, Alameda County Environmental Health (Submitted via ACEH ftp Site) Electronic copy uploaded to GeoTracker

STATION #2112 QUARTERLY STATUS REPORT

1260 Park Street, Alameda, California
Mr. Paul Supple
Broadbent & Associates, Inc./Rob Miller & Tom Venus,
(530)566-1400
06-08-616
Alameda County Environmental Health (ACEH)
ACEH Case No. RO0000044

WORK PERFORMED THIS QUARTER (Fourth Quarter 2006):

- 1. Prepared and submitted the Third Quarter 2006 Ground-Water Monitoring Report.
- 2. No environmental work was conducted at the site during the Fourth Quarter 2006.

WORK PROPOSED FOR NEXT QUARTER (First Quarter 2007):

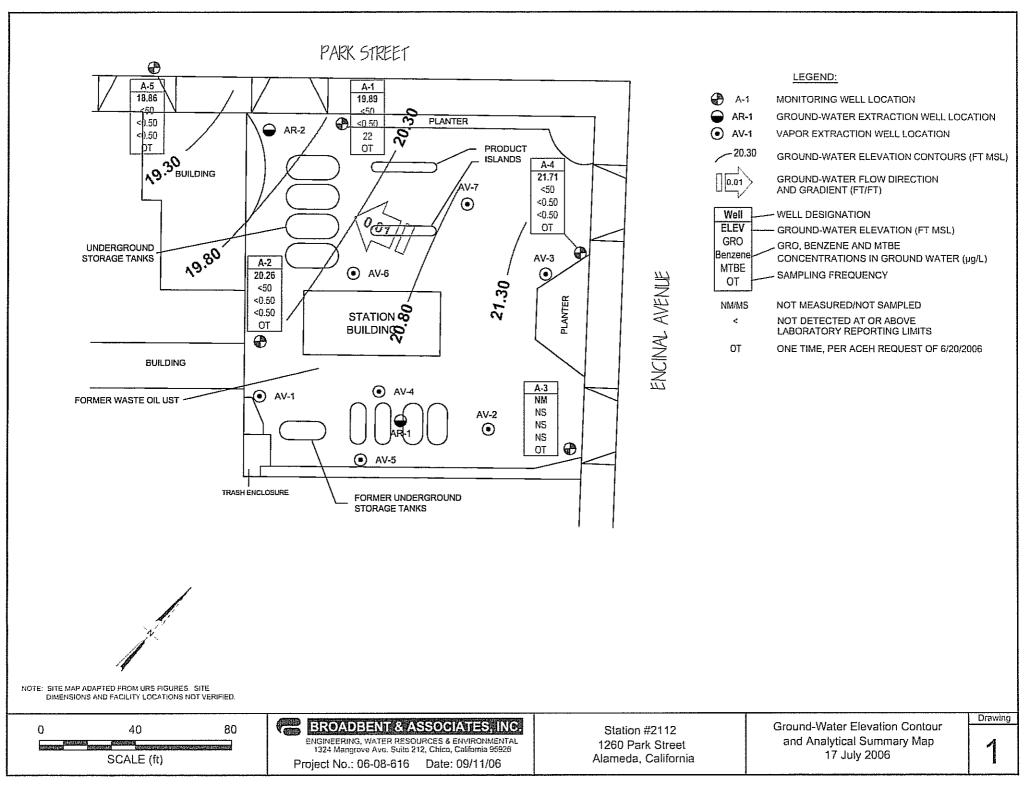
- 1. Prepared and submitted this Fourth Quarter 2006 Status Report (contained herein).
- 2. No environmental work is scheduled to be conducted at the Site during the First Quarter of 2007.

DISCUSSION:

Case closure was requested by BP on 4 June 2004 from ACEH. In a letter dated 20 June 2006, ACEH requested rehabilitation, redevelopment, ground-water monitoring and sampling of the onsite monitoring wells to resume the site closure process. A summary of well rehabilitation/redevelopment, and ground-water monitoring and sampling results were presented in the Third Quarter 2006 Ground-Water Monitoring Report. BP is awaiting a response from the ACEH to the closure request in light of the Third Quarter 2006 monitoring results. 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, 17 July 2006, Station #2112, 1260 Park Street, Alameda, California





BROADBENT & ASSOCIATES, INC.

ENGINEERING, WATER RESOURCES & ENVIRONMENTAL

24 July 2006

Project No. 06-08-616

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

Attn.: Mr. Paul Supple

Re: Second Quarter 2006 Report, Atlantic Richfield Company (a BP affiliated company) Station #2112, 1260 Park Street, Alameda, Alameda County, California; ACEH Case No.3629/RO44.

Dear Mr. Supple:

Provided herein is the *Second Quarter 2006 Status Report* for Atlantic Richfield Company Station #2112 located at 1260 Park Street, Alameda, Alameda County, California. This report presents a summary of recent developments at the site during Second Quarter 2006.

Should you have questions regarding this submission, please do not hesitate to contact us at (530) 566-1400.

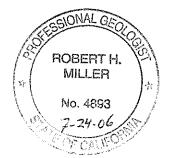
Sincerely,

BROADBENT & ASSOCIATES, INC.

Thomas A. Venus, P.E. Senior Engineer

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

Enclosures



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

STATION #2112 QUARTERLY GROUND-WATER STATUS REPORT

Facility: <u>#2112</u> Address:	1260 Park Street, Alameda, California
Environmental Business Manager:	Mr. Paul Supple
Consulting Company/Contact Person:	Broadbent & Associates, Inc./Thomas Venus, (530)566-1400
Consultant Project No.:	06-08-616
Primary Agency/Regulatory ID No.:	Alameda County Environmental Health (ACEH)
	ACEH Case No.3629 / RO44

WORK PERFORMED THIS QUARTER (Second Quarter 2006):

- 1. Prepared and submitted the First Quarter 2006 Status Report. Work performed by URS.
- 2. No environmental work was conducted at the site during the Second Quarter 2006.

WORK PROPOSED FOR NEXT QUARTER (Third Quarter 2006):

- 1. Prepared and submitted this Second Quarter 2006 Status Report (contained herein).
- 2. Onsite wells rehabilitated, redeveloped, and ground-water monitoring and sampling conducted at the request of ACEH. Work performed by URS in mid-July.
- 3. Prepare and submit the Third Quarter 2006 Ground-Water Monitoring Report.

DISCUSSION:

Case closure was requested on 4 June 2004 from ACEH. BP had been awaiting a response from the ACEH. In a letter dated 20 June 2006, ACEH requested rehabilitation, redevelopment, ground-water monitoring and sampling of the onsite monitoring wells to resume the site closure process. A summary of well rehabilitation/redevelopment, and ground-water monitoring and sampling results will be presented in the Third Quarter 2006 when results become available.

ALAMEDA COUNTY





DAVID J. KEARS, Agency Director

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

June 20, 2006

Mr. Paul Supple BP West Coast Products LLC PO Box 6549 Moraga, CA 94549

Subject: Fuel Leak Case No. RO0000044, Arco #2112 1260 Park Street, Alameda, CA

Dear Mr. Supple:

Alameda County Environmental Health (ACEH) staff have reviewed the case file for the above referenced site. Considering the site history, site closure request and the incomplete site closure summary dating back to November 1997, ACEH considers it appropriate to evaluate the closure request based on current site conditions. To continue the site closure process, ACEH requests that additional groundwater monitoring and sampling be completed at the site. Our request is based on the conclusion that the most recent groundwater monitoring data available in our files dates back from 1997.

If water quality data indicate that groundwater conditions are similar to historical conditions it is likely that the site will be moved to closure. However, if current groundwater quality data indicate that elevated concentrations of petroleum hydrocarbons exist further investigation may be warranted.

Based on ACEH staff review of the case file, we request that you address the following technical comments and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

- Well Rehabilitation and Redevelopment. Considering the length of time that has passed since the June 1997 groundwater sampling event, ACEH requests that all onsite monitoring wells should be rehabilitated and/or redeveloped; thus allowing the collection of a representative sample of formation groundwater. Please describe and present the results of the well redevelopment and rehabilitation activities in the report requested below.
- 2. Groundwater Monitoring and Sampling. Groundwater monitoring has not been conducted at the site since 1996. Please sample the existing monitoring wells in order to determine current groundwater conditions throughout the site. The water samples are to be analyzed for TPHg and TPHd by EPA Method 8015M or 8260, BTEX, EDB, EDC, MtBE, TAME, ETBE,

Mr. Paul Supple June 20, 2006 Page 2

DIPE, TBA and EtOH by EPA Method 8260. Please present the results from groundwater monitoring and sampling in the report requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Steven Plunkett), according to the following schedule:

August 1, 2006 – Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and <u>other</u> data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (<u>http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting</u>).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be

Mr. Paul Supple June 20, 2006 Page 3

signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 383-1767.

Sincerely,

Steven Plunkett Hazardous Materials Specialist

cc: Ms. Lynelle Onishi URS Corporation Inc. 1333 Broadway Oakland, CA 94610

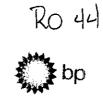
> Mr. Matthew Herrick Broadbent & Associates, Inc. 1324 Mangrove Ave., Suite 212

Mr. Paul Supple June 20, 2006 Page 4

Chico, CA 95926

Donna Drogos, ACEH Steven Plunkett, ACEH VFile





Atlantic Richfield Company (a BP affiliated company)

P.O. Box 6549 Moraga, California 94570 Phone: (925) 299-8891 Fax: (925) 299-8872

November 2, 2005

Re: Third Quarter 2005 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38487024

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 // S



November 2, 2005

Ms. Donna Drogos Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Third Quarter 2005 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38487024

Dear Ms. Drogos:

On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Third Quarter 2005 Quarterly Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson Project Manager

Enclosure: Third Quarter 2005 Quarterly Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268

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Date:	November 2, 2005	
Quarter:	3Q 05	<u> </u>

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THIRD QUARTER 2005 QUARTERLY STATUS REPORT

Facility No.: 2112	Address:	1260 Park Street, Alameda, California
RM Environmental Business Manager:		Paul Supple
Consulting Co./Contact Person:		URS Corporation / Scott Robinson
Consultant Project No .:		38487024
Primary Agency:		Alameda County Environmental Health (ACEH)

(Third - 2005):

WORK PERFORMED THIS QUARTER

- 1. No environmental work was conducted at the site during the third quarter 2005.
- 2. Prepared and submitted this Third Quarter 2005 Quarterly Status Report.
- 3. Requested an update on Case Closure Report submitted on November, 20, 1996.

WORK PROPOSED FOR NEXT QUARTER (Fourth – 2005):

- 1. No environmental work is expected for the site during the fourth quarter 2005.
- 2. Prepare and submit Fourth Quarter 2005 Quarterly Status Report.

70-44

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URS

February 25, 2005

Alamoda County FEB 2 3 2005 Environmental Health

Mr. Robert Schultz Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: First Quarter 2005 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38487024

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated Company, URS Corporation (URS) is submitting the *First Quarter 2005 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

AMM

Scott Robinson Project Manager

Enclosure: First Quarter 2005 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)



Date:	February 25, 2005
Quarter:	1Q 05

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street, Alameda, California	
RM Environmental E	Business Manager:		Paul Supple	
Consulting Co./Contact Person:			URS Corporation / Scott Robinson	
Consultant Project No.:			38487024	
Primary Agency:			Alameda County Environmental Health (ACEH)	

(First – 2005):

WORK PERFORMED THIS QUARTER

- 1. No environmental work will be conducted at the site during the first quarter 2005.
- 2. Prepare and submit this first quarter 2005 status report.
- 3. Request an update on Case Closure Report submitted on November, 20, 1996.

WORK PROPOSED FOR NEXT QUARTER (Second – 2005):

- 1. No environmental work is expected for the site during the second quarter 2005.
- 2. Prepare and submit second quarter 2005 status report.
- 3. Request an update on Case Closure Report submitted on November, 20, 1996.



Acculabs Inc. - Davis

TPH Diesel by 8015 Mod QC Report

Matrix: Water	Date Extracted:	10/4/00
QC Batch: DW001001	Date Analyzed.	10/4/00
QC Limits Set: 7/27/00		
 Spiles Cons. LCS		1

	Spike Conc	LCS	LCSD	
Parameter	ug/L	% Rec	% Rec	RPD
TPH as Diesel	1000	107	97	9.8

Control Chart Limits							
Lower Upper							
66	127						

	MDL	Measured value
Method Blank	ug/L	ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100

Tom Kwoka

Laboratory Director

C:\EXCEL\QC\Dw001001

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City. State & Zip Benicla, CA 94510 Project Name Provision Report to State/EPA Y, N Contact Jim Gobi Project Name CSE-55th Collection Point Fax 707748-7763 Project Name CSE-55th Collection Point Fax 707748-7763 Project Name F67-01-01 Collection Point Fax 707748-7763 Project Name F67-01-01 Collector's Name P.O. Number Fax Results N Page 1 of 1 Location (City) SAMPLE TYPE CODES S 0 Requested Requested Requested WV = monitoring well S0 = solid Y N I I I WV = monitoring well S0 = solid Y N I I I Special CuteNtrs SAMPLE IP/LOCATION Date Time I I I I CuteNtrs SAMPLE RECUESTED I I I I I I I I CuteNtrs SAMPLE IP/LOCATION Date <t< th=""><th>Acculab</th><th>sinc</th><th>.<u> </u></th><th>·····</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>1</th><th></th><th></th><th>La</th><th>ib Nu</th><th>mber</th><th></th><th></th></t<>	Acculab	sinc	. <u> </u>	·····								1			La	ib Nu	mber		
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Phone 707/749-7743 Project Name CSE-55th Collection Point Fax 707/749-7763 Project Number 167-01-01 Collectors Name P.O. Number Fax Results N Page 1 1 Location (City) Where Fax Results N Page 1 1 Location (City) We drinking water Tb travel bank Compliance S C Requested WV = waste water SD = solid Monitoring n r Requested WV = hazadowswats & L = suldge N P t r r Standard) Lab Director T r r r Standard) Lab Director T r r r Special Special Special Spl. No. Spl. No. MW - 1 (E) 10/400 W 5 X Spl. No. Spl. No. MW - 2 (W) 10/400 W 5 X Spl. Inc. Spl. Inc. Instructions/Comments/Special Requ	City, State & Zip	Benicia, CA 94510)					N		PW	S No.				Rep	ort to	State	EPA	YN
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P.O. Number Fax Results N Page 1 of 1 Location (City) SAMPLE TYPE CODES SW 4 drinking water TB = travel black Compliance Monitoring mit SO = solid Monitoring mit SO = solid Monitoring P t HW = hazardous wasta SL = sludge Y N I a TURARCOUND.TIME REQUESTED Sandaro Lab Director Approval Special CLIENT'S SAMPLE HD/LOCATION Date Time Special S	Phone	707/748-7743	Project Na	ame	CSE	-55th				Coll	ection	Poin	ıt						
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ARCO Products Company

Post Office Box 612530 San Jose, California 95161

Environmental Remediation

June 14, 1996 Projects: 330-084.5C/330-105.5B 330-106.5C/330-109.5B

Ms. Sue Jenne East Bay Municipal Utilities District P.O. Box 24055 Oakland, California 94623-1055

Re: Request to Relinquish Wastewater Discharge Permits Miscellaneous sites

Dear Ms. Jenne:

ARCO Products Company wishes to relinquish the wastewater discharge permits for the following sites, effective immediately. Please do not hesitate to call if you have any questions.

- Discharge Permit 502-85611 ARCO Service Station 0374 6407 Telegraph Avenue Oakland, California
- Discharge Permit 502-65201 ARCO Service Station 2112 1260 Park Street Alameda, California
- Discharge Permit 502-64411 ARCO Service Station 2107 3310 Park Boulevard at East 34th Street Oakland, California
- Discharge Permit 502-62131
 ARCO Service Station 4931
 731 West MacArthur Boulevard Oakland, California

Sincerely, ARCO Products Company

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Michael Whelan Environmental Engineer

 Mr. Barney Chan, Alameda County Health Care Services Agency Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Shaw Garakani, Pacific Environmental Group, Inc.

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

TO:

DATE:	August 16 , 19 9	5
TO:	MICHAEL WHELMD	
	ARCO	
	FAX # (408) 377-836	

Total number of pages including cover sheet &

FROM:

SUSAN HUGO

NOTE: in request. "h

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

jdsb/0395

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

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<u>STID#</u>	ACHD CONTACT	<u>ARCO#</u>	ADDRESS
3629	Susan Hugo	2112	1260 Dowle Otwach Director
	buban nugo	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 Compa

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

> 91, SEP 13 PH 2: 14 September 9, 1994

ALCO

HAZMAT

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

APPC-7025-D (9-88)

ARCO Products Company is a Division of AtlanticRichfieldCompany

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 Lewelling 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	
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		415-571-2449
6041	Dublin	7249 Village Parkway	Emcon	Mike Whelan	415-571-2449
6113	Livermore	785 East Stanley Blvd.		Mike Whelan	415-571-2449
6148	Oakland	5131 Shattuck Avenue.	Emcon	Mike Whelan	415-571-2449
9908	Oakland		Emcon	Mike Whelan	415-571-2449
5000	Cartalla	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

CONTACTS.XLS

CONSULTANTS CONTACTS

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Consultant Name	(APM)	Technical Coordinator (TC)	Area	
	Mikk Anderson 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016	Ron Zurlinden 9616 micro Ave Sacramento, CA 95813-3449 (916) 444-0123 Fax (916) 856-5277 Ron Halsey 16735 Von Karman, Sutte 200 Irvine, CA 92714-4918 (714) 660-1070 Fax (714) 474-0940 Mike Higman 9040 Frairs Rd, Sutte 220 San Diego, CA 92108 (619) 528-9090 Fax (619) 528-9199	sw	(AC) Mat Quinn 150 So Arroyo Pkwy Pasadena, CA 91109 (818) 577-1020 Fax (818) 795-6016
	Jon Pesicka 27141 Allso 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 Jon Pesicka (714) 362-3077 Fax (714) 362-0290		Debble Fluckiger 27141 Ailso Creek Rd, # 270 Aliso Viejo, CA 92656 (714) 362-3077 Fax (714) 362-0290
	.408) 453-7300 Fax (408) 437-9526	Rob Dixon 15055 SW Sequola Pkwy, Suite 140 Portland, OR 97224-7712 (503) 624-7200 Fax (503) 620-7658 Jay Johnson 1433 N Ave Market Blvd. Sacramento, CA 95834-1943 (916) 928-3300 Fax (916) 928-3341	ן ג נ	leanette Memeo 1921 Ringwood Ave an Jose, CA 95131-1721 408) 453-7300 ax (408) 437-9526

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CONSULTANTS CONTACTS

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SEP-06-1994

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Consultant Name Emcon	(APM)	Technical Coordinator (TC)	Area	
Enicon	Jack Hardin	Ric Morgan 120 Columbia, Suite 500 Aliso Vlejo, CA 92656 (714) 362-1130 Fax (714) 362-1137	SW	(AC) 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 Cleve Solomon 650 N Sierra Madre Vilka, Suite 204 Pasadena, CA 91107 (818) 351-4814 Fax (818) 351-4822		Norma Gutlerrez 2025 Gate Way Place, Suite 44 San Jose, CA 951 10 (408) 441-7500 Fax (408) 441-7539
	(501) 776-3400 Fax (501) 776-3053	Jim Ritchle 90 New Montgomery St, Suite 620 San Francisco, CA 94015-4503 (415) 882-1548 Fax (415) 882-4406 Kyle Emerson 1180 Nevada St, Suite 200 Rectlands, CA 92374 (909) 335-6116 Fax (909) 335-6120 Bob Wilson 3485 Sacramento Dr, Suite A San Luis Obispo, CA 93401-7160 (805) 546-0455 Fax (805) 546-0583		Cindy Malloy 1734 - 34th St Sacramento, CA 95816-7004 (916) 456-4333 Fax (916) 456-0110

9/6/94

TOTAL P. 06.

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: <u>June 27</u>, 19<u>95</u> TO: DAVID LARSON FAX # (408) 453-0452 Total number of pages including cover sheet \sim SUSAN L. HUGO FROM: NOTE: List of ARCO SITES & corresponding contact person.

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

jdsb/0395

(6/27	/95) 1	LIST OF ARCO SITES	WITH (JGT CLEANUP
<u>STID#</u>	ACHD CONTACT	ARCO FACILITY#	ADDRE	<u>ISS</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		W. Grand Ave. Oakland 94607
3858	Barney Chan	Station 2035	1001	San Pablo Avenue Albany 94706
4275	Scott Seery	Station 601		Lewelling Blvd. San Leandro 94579

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July 29, 2005

Alameda County AUG 0 2 2005

Environmental Health

Ms. Donna Drogas Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Second Quarter 2005 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38487024

Dear Ms. Drogas:

On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Second Quarter 2005 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson Project Manager

Enclosure: Second Quarter 2005 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268

Date:	July 29, 2005	
Quarter:	2Q 05	

SECOND QUARTER 2005 STATUS REPORT

Facility No.:		Address:	1260 Park Street, Alameda, California	
RM Environmental E	Business Manager:		Paul Supple	_
Consulting Co./Conta	act Person:		URS Corporation / Scott Robinson	—
Consultant Project N	o.:		38487024	
Primary Agency:		·	Alameda County Environmental Health (ACEH)	

WORK PERFORMED THIS QUARTER

(Second – 2005):

- 1. No environmental work was conducted at the site during the second quarter 2005.
- 2. Prepared and submitted Second Quarter 2005 Status Report.
- 3. Requested an update on Case Closure Report submitted on November, 20, 1996.

WORK PROPOSED FOR NEXT QUARTER (Third – 2005):

- 1. No environmental work is expected for the site during the third quarter 2005.
- 2. Prepare and submit Third Quarter 2005 Status Report.

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Alexandra Coessay

DEC 2 9 2004

December 28, 2004

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Mr. Robert Schultz Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Fourth Quarter 2004 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38486714

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company (RM), a BP affiliated Company, URS Corporation (URS) is submitting the *Fourth Quarter 2004 Status Report* for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

ogun

Scott Robinson Project Manager

Enclosure: Fourth Quarter 2004 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268

5

Date:	December 28, 2004
Quarter:	4Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street, Alameda, California
RM Environmental	Business Manager:		Paul Supple
Consulting Co./Con	ntact Person:		URS Corporation / Scott Robinson
Consultant Project	No.:		38486714
Primary Agency:			Alameda County Environmental Health (ACEH)

WORK PERFORMED THIS QUARTER

(Fourth – 2004):

- 1. No environmental work was conducted at the site during the fourth quarter 2004.
- 2. Prepared and submitted fourth quarter 2004 status report.
- 3. Requested an update on Case Closure Report submitted on November, 20, 1996.

WORK PROPOSED FOR NEXT QUARTER (First – 2005):

- 1. No environmental work is expected for the site during the first quarter 2005.
- 2. Prepare and submit first quarter 2005 status report.





November 2, 2004

Mr. Robert Schultz Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Third Quarter 2004 Status Report ARCO Service Station #2112 1260 Park Street Alameda, California URS Project #38486714

Dear Mr. Schultz:

On behalf of Atlantic Richfield Company, a BP affiliated Company, URS Corporation (URS) is submitting the *Third Quarter 2004 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson Project Manager

Enclosure: Third Quarter 2004 Status Report

cc: Mr. Paul Supple, Atlantic Richfield Company (RM), electronic copy uploaded to ENFOS

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893,3600 Fax: 510.874,3268

Date:	November 2, 2004			
Quarter:	3Q 04			

RM QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street, Alameda, California	
RM Environmental Business Manager:			Paul Supple	
Consulting Co./Conta	act Person:		URS Corporation / Scott Robinson	
Consultant Project No.: Primary Agency:			38486714	
			Alameda County Environmental Health (ACEH)	

WORK PERFORMED THIS QUARTER

(Third – 2004):

1. No environmental work was conducted at the site during the third quarter 2004.

WORK PROPOSED FOR NEXT QUARTER (Fourth- 2004):

- 1. Prepare and submit this third quarter 2004 status report.
- 2. No environmental work is expected for the site during the fourth quarter 2004.
- 3. Prepare and submit fourth quarter 2004 status report.

DISCUSSION:

A Case Closure Request was submitted on November 20, 1996.



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June 18, 2004

Mr. Amir Gholami Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Alomodo Consta JUN 2 3 2004 Environne des services

Re: Second Quarter 2004 Status Report Atlantic Richfield Company Service Station #2112 1260 Park Street Alameda, California URS Project #38486714

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (RM)- a BP affiliated Company, URS Corporation (URS) is

submitting the Second Quarter 2004 Status Report for the Atlantic Richfield Company Service Station #2112, located at 1260 Park Street, Alameda, California.

URS also requests an update on the Case Closure Report submitted on November, 20, 1996. Updates on this site have been requested in a letter dated July 30, 2003 and then in a follow-up e-mail dated May 6, 2004.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Scott Robinson Project Manager

Enclosure: Second Quarter 2004 Status Report

cc: Mr. Paul Supple, RM, (electronic copy uploaded to ENFOS)





Date:	June 18, 2004
Quarter:	2Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street, Alameda, California	
RM Environmental	Business Manager:		Paul Supple	<u></u>
Consulting Co./Co.	ntact Person:		URS Corporation / Scott Robinson	
Consultant Project	No.:		38486714	
Primary Agency:			Alameda County Health Care Services Agency	

(Second - 2004):

WORK PERFORMED THIS QUARTER

- 1. No environmental work was conducted at the site during the second quarter 2004.
- 2. Prepared and submitted second quarter 2004 status report.
- 3. Requested an update on Case Closure Report submitted on November, 20, 1996.

WORK PROPOSED FOR NEXT QUARTER (Third – 2004):

- 1. No environmental work is expected for the site during the third quarter 2004.
- 2. Prepare and submit third quarter 2004 status report.



RD

March 2, 2004

Alameda County

MAR 1 0 2004

Environmental Health

Mr. Amir Gholami Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: First Quarter 2004 Status Report ARCO Service Station #2112 1260 Park Street Alameda, California URS Project #38486714

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (ARCO - a BP affiliated Company), URS Corporation (URS) is submitting the *First Quarter 2004 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

um

Scott Robinson Project Manager

Enclosure: First Quarter 2004 Status Report

cc: Mr. Paul Supple, ARCO, (electronic copy uploaded to ENFOS)

URS Corporation 1333 Broadway, Suite 800 Oakland, CA 94612-1924 Tel: 510.893.3600 Fax: 510.874.3268



Date:	March 2, 2004
Quarter:	1Q 04

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street, Alameda, California	
ARCO Environmental Business Manager:		r:	Paul Supple	-
Consulting Co./Co	ontact Person:		URS Corporation / Scott Robinson	
Consultant Project	No.:		38486714	—
Primary Agency:			Alameda County Health Care Services Agency	

WORK PERFORMED THIS QUARTER (First – 2004):

- 1. No environmental work was conducted at the site during the first quarter 2004.
- 2. Prepared and submitted first quarter 2004 status report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2004):

- 1. No environmental work is expected for the site during the second quarter 2004.
- 2. Prepare and submit second quarter 2004 status report.



July 30, 2003

Mr. Amir Gholami Environmental Health Services Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Status of Case Closure Request for ARCO Service Station #2112, 1260 Park Avenue, Alameda, California 94501

Dear Mr. Gholami:

On behalf of Atlantic Richfield Company (ARCO - an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is requesting additional information regarding the status of the case closure for Arco Service Station #2112. On May 2, 1997, Alameda County Health Care Services Agency (ACHCSA) issued a letter confirming receipt of the November 20, 1996 Case Closure Summary Report, submitted by Pacific Environmental Group, on behalf of ARCO. The ACHCSA letter stated "a case closure summary is being prepared for internal peer review process".

However, ARCO has not received further correspondence regarding the request for case closure. Any information regarding the status of the Case Closure for the Site would be greatly appreciated.

Should you have any questions or concerns, please contact me at (510) 874-3280

Sincerely, URS CORPORATION

Ka

Scott Robinson Project Manager

Robert Horwath, R.G. Portfolio Manager



Alameda County AUG 0 3 2003 Environmental Health

Attachment: Alameda County Health Care Services Letter, May 2, 1997.

cc: Mr. Paul V. Supple, Environmental Business Manager, P.O. Box 6549, Moraga, CA 94549

ALAMEDA COUNTY HÉALTH CARE SERVICES



AGENCY DAVID J. KEARS, Agency Director

May 2, 1997

Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, CA 94570 Alameda County

AUG 0 1 2003

ENV: = ONMENTAL HEALTH SERVICES 1131 - Entor Bay Parkway, Suite 250 Alameter: CA 94502-6577 1510: EET-6700 1510: ECT-9335 (FAX)

Environmental Health

RE: ARCO Service Station (2112) - 1260 Park Avenue, Alameda, CA 94501 STID # 3629

Dear Mr. Supple:

This letter serves to update you regarding the request for case closure for the above referenced site. Our office is currently reviewing the case file including the case closure summary prepared and submitted by Pacific Environmental Group, Inc.

The remedial systems (groundwater and soil vapor extraction) were shut off during the third quarter of 1995 with the approval of this agency. Verification of the groundwater conditions have been completed as of the last quarter of 1996. This office has no objection to the decommissioning of the remedial systems at the site.

A case closure summary is being prepared for internal peer review process.

If you have any questions or comments regarding this letter, please call me at (510) 567-6780.

Sincerely,

Sucan J. Hugo

Susan L. Hugo Senior Hazardous Materials Specialist

cc: Mee Ling Tung, Director, Environmental Health Gordon Coleman, Chief, Environmental Protection Division Kevin Graves, San Francisco Bay RWQCB Shaw Gharakani / David Nanstad, PEG, 2025 Gateway Place. Suite 440, San Jose, CA 95110 SH / files

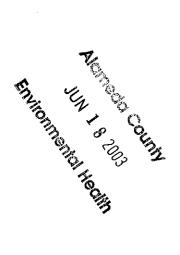


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June 13, 2003

Ms. Susan Hugo Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Second Quarter 2003 Status Report ARCO Service Station # 2112 1260 Park Street Alameda, California URS Project #38486163



Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the Second Quarter 2003 Status Report for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

m

Scott Robinson Project Manager

Enclosure: Second Quarter 2003 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation 500 12th Street, Suite 200 Oakland, CA 94607-4014 Tel: 510.893.3600 Fax: 510.874.3268

Date:	June 13, 2003	
Quarter:	2Q 03	

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112 Address	A drig outool, radiiloud. Camornia	
Atlantic Richfield C	o. Environmental Engineer:	Paul Supple	-
Consulting Co./Con	tact Person:	URS Corporation / Scott Robinson / (510) 874-3280	-
Consultant Project N	lo.:	38486163	-
Primary Agency:		Alameda County Health Care Services Agency	•

WORK PERFORMED THIS QUARTER

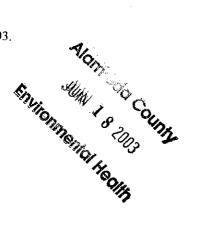
4

(Second – 2003):

- 1. No environmental work was conducted at the site during the second quarter 2003.
- 2. Prepared and submitted second quarter 2003 status report.

WORK PROPOSED FOR NEXT QUARTER (Third – 2003):

- 1. No environmental work is expected for the site during the second quarter 2003.
- 2. Prepare and submit third quarter 2003 status report.



March 27, 2003

Ms. Susan Hugo Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

First Quarter 2003 Status Report Re: ARCO Service Station # 2112 1260 Park Street Alameda, California URS Project #38486163

Alamedia County APR 01 2003 Environmental Health

Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the First Quarter 2003 Status Report for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

rest Ran

Scott Robinson **Project Manager**

Enclosure: First Quarter 2003 Status Report

Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570 cc:

ANIR

Date:	March 27, 2003
Quarter:	1Q 03

.

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street Alexandree Contra
Atlantic Richfield Ca		_	1260 Park Street, Alameda, California
Atlantic Richfield Co	. Environmental	Engineer:	Paul Supple
Consulting Co./Conta	ect Person		
			URS Corporation / Scott Robinson / (510) 874-3280
Consultant Project No).:		
-			38486163
Primary Agency:			Alamedo County II. 14. C
			Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

(First - 2003):

- 1. No environmental work was conducted at the site during the first quarter 2003.
- 2. Prepared and submitted fourth quarter 2002 status report.
- 3. Prepared and submitted first quarter 2003 status report.

WORK PROPOSED FOR NEXT QUARTER (Second – 2003):

- 1. No environmental work is expected for the site during the second quarter 2003.
- 2. Prepare second quarter 2002 status report.

RS

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Alameda County

FEB 1 1 2003

Environmental Health

February 4, 2003

Ms. Susan Hugo Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

R044

Re: Fourth Quarter 2002 Status Report ARCO Service Station # 2112 1260 Park Street Alameda, California URS Project #38465920

Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Fourth Quarter 2002 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Just Reen

Scott Robinson Project Manager

Enclosure: Fourth Quarter 2002 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS

Date:	February 4, 2003
Quarter:	4Q02

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Former Facility No.: 2112 Address:	1260 Park Street, Alameda, California
Atlantic Richfield Co. Environmental Engineer:	Paul Supple
Consulting Co./Contact Person:	URS Corporation / Scott Robinson / (510) 874-3280
Consultant Project No.:	38465920
Primary Agency:	Alameda County Health Care Services Agency

(Fourth – 2002):

WORK PERFORMED THIS QUARTER

- 1. No environmental work was conducted at the site during the fourth quarter 2002
- 2. Prepared third quarter 2002 status report

WORK PROPOSED FOR NEXT QUARTER (First – 2003):

- 1. No environmental work is expected for the site during the first quarter 2003
- 2. Prepare fourth quarter 2002 status report

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	FEB 0 3 2003	
2044	Environmental Health	Date: Quarter:

RO44 GHOLAMI

January 31, 2003

3Q02

ATLANTIC RICHFIELD COMPANY QUARTERLY STATUS REPORT

Former Facility No.: 2112 Address:	1260 Park Street, Alameda, California
Atlantic Richfield Co. Environmental Engineer:	Paul Supple
Consulting Co./Contact Person:	URS Corporation / Scott Robinson / (510) 874-3280
Consultant Project No.:	38465920
Primary Agency:	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

R

1. No environmental work was conducted at the site during the third quarter 2002

2. Prepared second quarter 2002 status report

WORK PROPOSED FOR NEXT QUARTER

- 1. No environmental work is expected for the site during the fourth quarter 2002
- 2. Prepare third quarter 2002 status report

(Third – 2002):

R (Fourth – 2002):



January 31, 2003

Ms. Susan Hugo Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Alamedia County FEB 0 3 2003 Environmental Health

Re: Third Quarter 2002 Status Report ARCO Service Station # 2112 1260 Park Street Alameda, California URS Project #38465920

Dear Ms. Hugo:

On behalf of Atlantic Richfield Company (ARCO-an affiliated company of the Group Environmental Management Company), URS Corporation (URS) is submitting the *Third Quarter 2002 Status Report* for the ARCO Service Station #2112, located at 1260 Park Street, Alameda, California.

If you have any questions regarding this submission, please call at (510) 874-3280.

Sincerely,

URS CORPORATION

Just Ran

Scott Robinson Project Manager

Enclosure: Third Quarter 2002 Status Report

cc: Mr. Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570

URS Corporation 500 12th Street, Suite 200 Oakland, CA 94607-4014 Tel: 510.893.3600 Fax: 510.874.3268

URS

November 1, 2002

Ms. Susan Hugo 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502

Rc: Quarterly Status Report Second Quarter 2002 ARCO Service Station No. 2112 1260 Park Street Alameda, CA URS Project # 38465920 Alameda County

NOV 0 6 2002

Environmental Health

Dear Mr. Supple:

On behalf of ARCO (affiliated to Group Environmental Management Company), URS Corporation (URS) is pleased to submit the Quarterly Status Report. This report presents the second quarter 2002 status report of ARCO Service Station No. 2112 located at 1260 Park Street, Alameda, CA.

Please call us at 510-893-3600 if you have questions.

Sincerely, URS CORPORATION

for

Scott Robinson Project Manager

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Amy Breckenridge, P.E. Portfolio Manager

Attachments: Quarterly Status Report, Second Quarter 2002

ce:

Paul Supple, ARCO, PO Box 6549 Moraga, CA 94570 Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region

URS Corporation 500 12th Street, Suite 200 Oakland, CA 94607-4014 Tel: 510.893.3600 Fax: 510.874.3268



Date: November 1, 2002

ARCO SECOND QUARTER 2002 STATUS REPORT

ARCO Environmental Engineer/Phone No.: Paul Supple / (925) 299-8891 Consulting Co./Contact Person/Phone No: URS Corporation / Scott Robinson / (510) 893-3600	Station No.: 2112 Address:	1260 Park Street, Alameda, CA
Consulting Co./Contact Person/Phone No: URS Corporation / Scott Robinson / (510) 893-3600	ARCO Environmental Engineer/Phone No.:	Paul Supple / (925) 299-8891
	Consulting Co./Contact Person/Phone No:	URS Corporation / Scott Robinson / (510) 893-3600
Consultant Project No.: 38465920		
Primary Agency/Regulatory ID No. Alameda County Health Care Services Agency	Primary Agency/Regulatory ID No.	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second - 2002)

1. No environmental work was conducted at the site during the second quarter 2002.

WORK PROPOSED FOR NEXT QUARTER (Third - 2002)

- I. No environmental work is expected for the site during the third quarter 2002.
- 2. URS Corporation took over groundwater monitoring activities from Delta Environmental Consultants, Inc.







3164 Gold Camp Drive Suite 200 Rancho Cordova, CA 95670-6021 U.S.A. 916/638-2085 FAX: 916/638-8385

Date: March 27, 2002

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

ARCO FOURTH QUARTER 2001 STATUS REPORT

Station No.: 2112 Address:	1260 Park Street at Encinal Avenue, Alameda, CA
ARCO Environmental Engineer/Phone No.:	Paul Supple 925-299-8891
Consulting Co./Contact Person	Delta Environmental Consultants, Inc.
	Steven W. Meeks, P.E.
Consultant Project No.:	
Primary Agency/Regulatory ID No.	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

- 1. Prepared and submitted quarterly status report for third quarter 2001.
- 2. No environmental work was conducted at the site during the fourth quarter 2001.

WORK PROPOSED FOR NEXT QUARTER

- 1. Prepare and submit quarterly status report for the fourth quarter 2001.
- 2. No environmental work is scheduled for the first quarter 2002.

DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

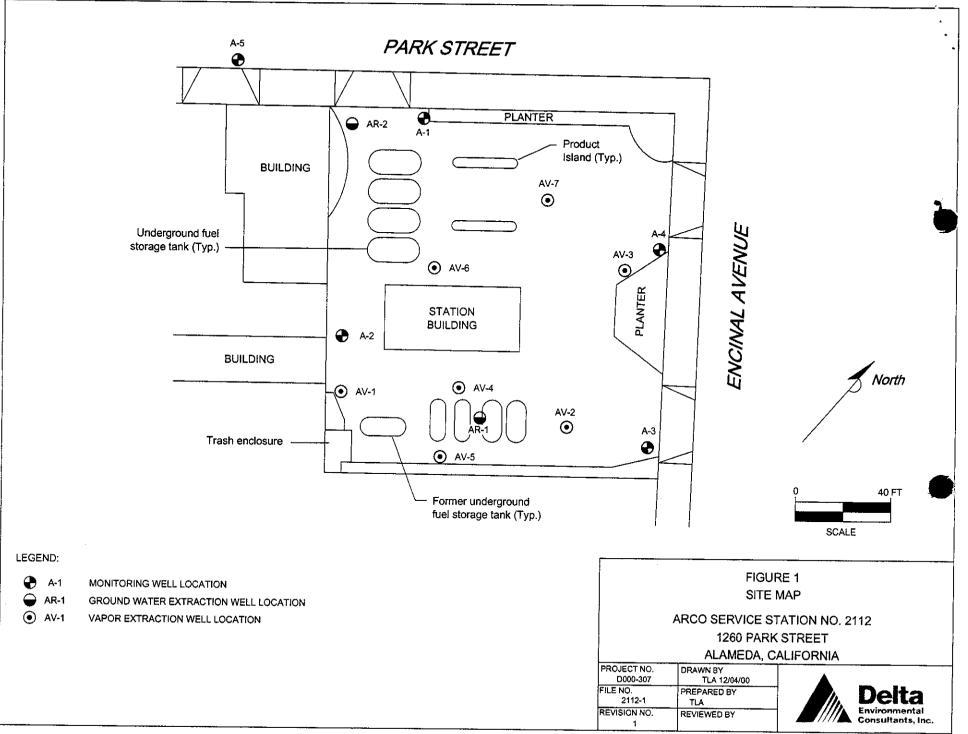
Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC. -Steven W. Meeks,

Project Manager California Registered Civil Engineer No. C057461

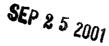
SWM (QSR006.307.doc) Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region



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3164 Gold Camp Drive Suite 200 Rancho Cordova, CA 95670-6021 U.S.A. 916/638-2085 FAX: 916/638-8385

044

Date: September 21, 2001

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

ARCO SECOND QUARTER 2001 STATUS REPORT

Station No.: 2112 Address:	
ARCO Environmental Engineer/Phone No.:	Paul Supple 925-299-8891
	Delta Environmental Consultants, Inc.
	Steven W. Meeks, P.E.
Primary Agency/Regulatory ID No.	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

- 1. Prepared and submitted quarterly status report for second quarter 2001.
- 2. No environmental work was conducted at the site during the second quarter 2001.

WORK PROPOSED FOR NEXT QUARTER

- 1. Prepare and submit quarterly status report for the second quarter 2001.
- 2. Perform soil sampling activities during product line and dispenser upgrade activities scheduled for third quarter 2001.

DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

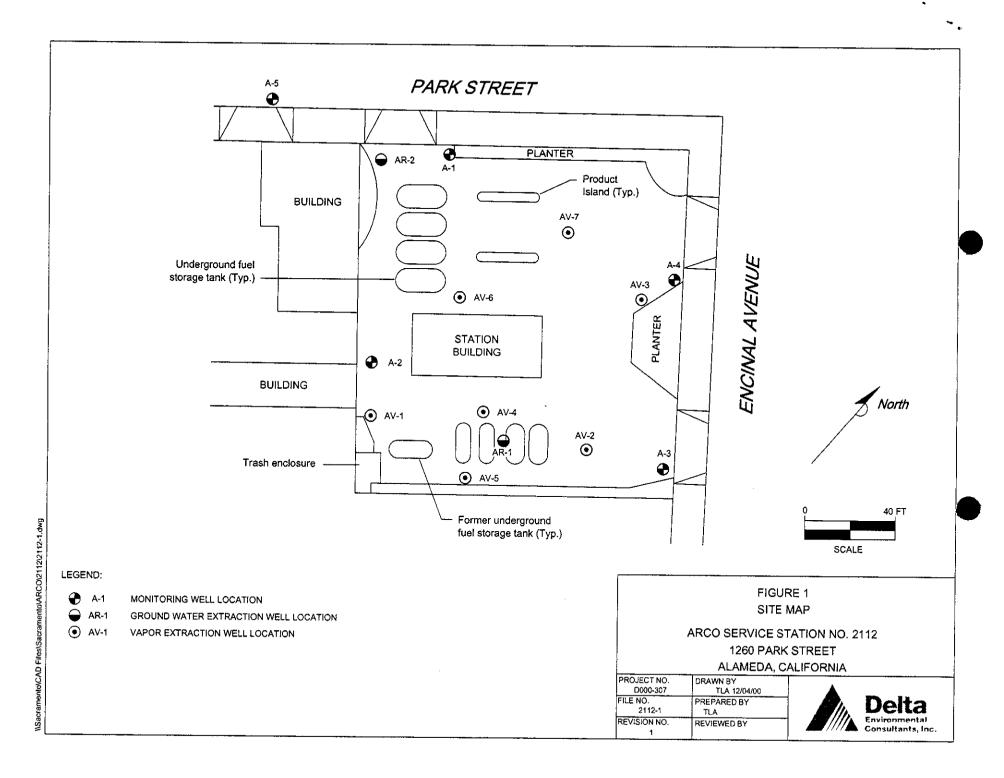
Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC. Steven W. Meeks, P.b. **Project Manager**

California Registered Civil Engineer No. C057461

SWM (QSR004.307.doc) Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region





JUL 0 3 2001

3164 Gold Camp Drive Suite 200 Rancho Cordova, CA 95670-6021 U.S.A. 916/638-2085 FAX: 916/638-8385

Date: June 29, 2001

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

ARCO FIRST QUARTER 2001 STATUS REPORT

Station No.: 2112 Address:	
ARCO Environmental Engineer/Phone No.:	Paul Supple 925-299-8891
Consulting Co./Contact Person	Delta Environmental Consultants, Inc.
	_Steven W. Meeks, P.E.
Consultant Project No.:	
Primary Agency/Regulatory ID No.	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

- 1. Prepared and submitted quarterly status report for fourth quarter 2000.
- 2. No environmental work was conducted at the site during the first quarter 2001.

WORK PROPOSED FOR NEXT QUARTER

- 1. Prepare and submit quarterly status report for the second quarter 2000.
- 2. No environmental work is scheduled at the site during the second quarter 2001.

DISCUSSION:

- The IT Group submitted its Case Closure Summary to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

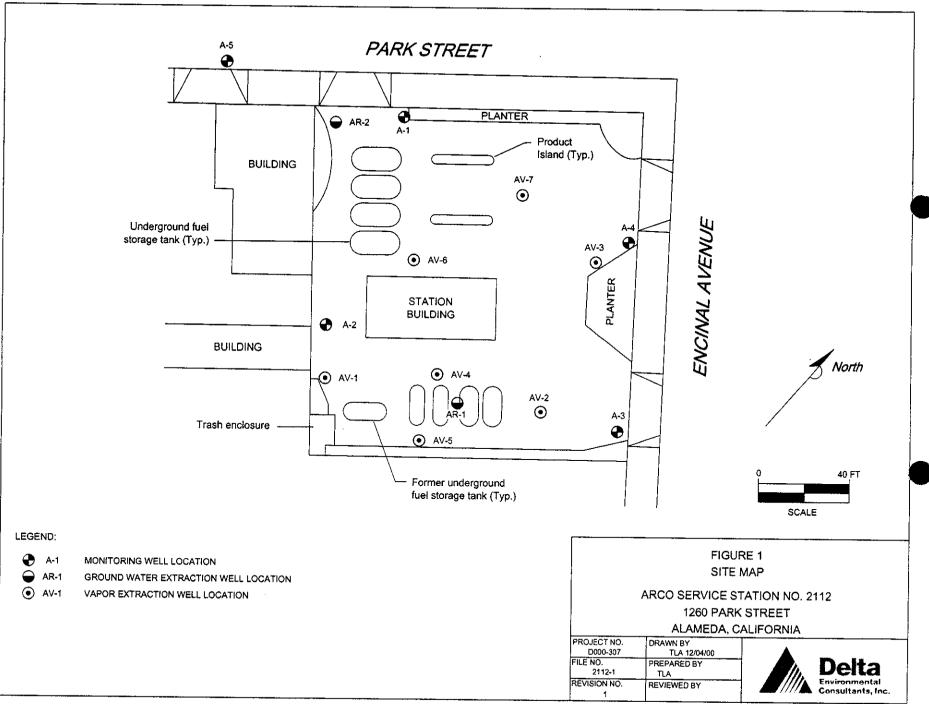
Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Steven W. Meeks, P.E. Project Manager California Registered Civil Engineer No. C057461

SWM (QSR003.307.doc) Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region



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3164 Gold Camp Drive Suite 200 Rancho Cordova, CA 95670-6021 U.S.A. 916/638-2085 FAX: 916/638-8385

Date: March 29, 2001

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

ARCO FOURTH QUARTER 2000 STATUS REPORT

Station No.: 2112 Address	: <u>1260 Park Street at Encinal Avenue, Alameda, CA</u>
ARCO Environmental Engineer/Phone No.	: Paul Supple 925-299-8891
Consulting Co./Contact Persor	Delta Environmental Consultants, Inc.
	Steven W. Meeks, P.E.
Consultant Project No.	
Primary Agency/Regulatory ID No	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

- 1. Prepared and submitted quarterly status report for second and third quarters 2000.
- 2. No environmental work was conducted at the site during the fourth quarter 2000.

WORK PROPOSED FOR NEXT QUARTER

- 1. Prepare and submit quarterly status report for the first quarter 2000.
- 2. No environmental work is scheduled at the site during the first quarter 2001.

DISCUSSION:

- The IT Group submitted its *Case Closure Summary* to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

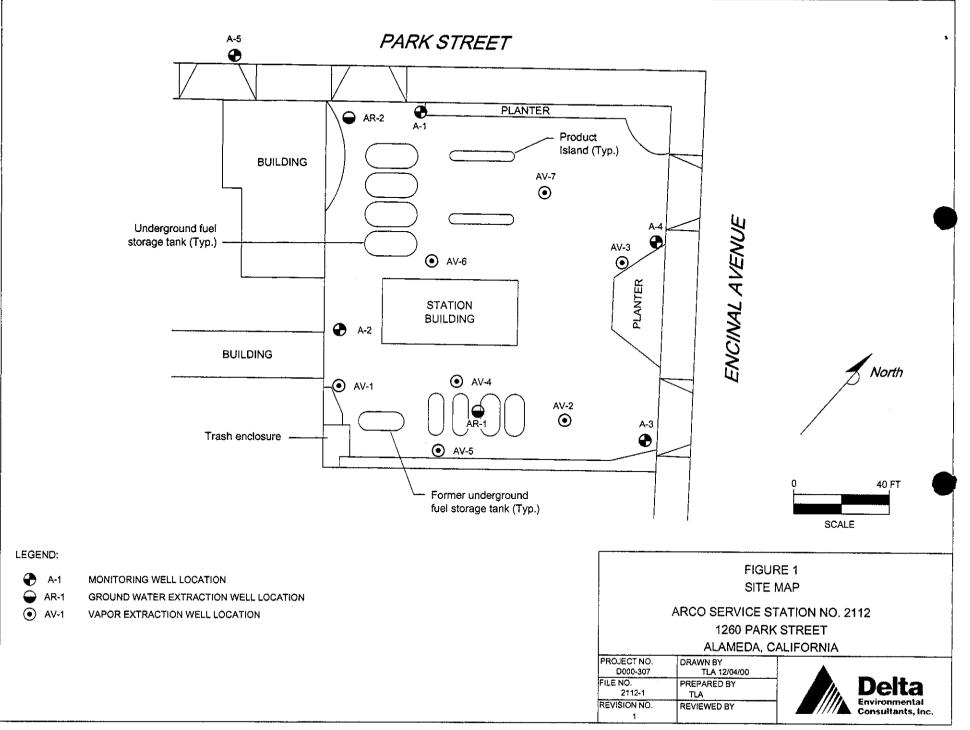
Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS Steven W. Meeks, P.E

Project Manager California Registered Civil Engineer No. C057461

SWM (QSR002.307.doc) Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region



WSacramento/CAD Files/Sacramento/ARC0/2112/2112-1.dwg



Mr. Paul Supple

P.O. Box 6549 Moraga, CA 94570

ARCO Products Company

R044

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FAX	: 916/638-	8685	
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ARCO SECOND/THIRD QUARTER 2000 STATUS REPORT

Station No.: <u>2112</u> Address:	1260 Park Street at Encinal Avenue, Alameda, CA
ARCO Environmental Engineer/Phone No.:	Paul Supple 925-299-8891
Consulting Co./Contact Person	Delta Environmental Consultants, Inc.
	Steven W. Meeks, P.E.
Consultant Project No.:	
Primary Agency/Regulatory ID No.	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER

- 1. Prepared and submitted quarterly status report for second and third quarters 2000.
- 2. No environmental work was conducted at the site during the second and third quarters 2000.

WORK PROPOSED FOR NEXT QUARTER

- 1. Prepare and submit quarterly status report for the fourth quarter 2000.
- 2. No environmental work is scheduled at the site during the first quarter 2001.

DISCUSSION:

- The IT Group submitted its Case Closure Summary to the ACHCSA on November 20, 1996. Case closure is pending final comments from the ACHCSA.
- ARCO received a letter dated May 2, 1997 from Alameda County Health Care Services Agency (ACHCSA) indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions had been completed; therefore, the groundwater monitoring and reporting program has been terminated.

If you have any questions concerning this project, please contact Steven W. Meeks at (916) 536-2613.

Sincerely,

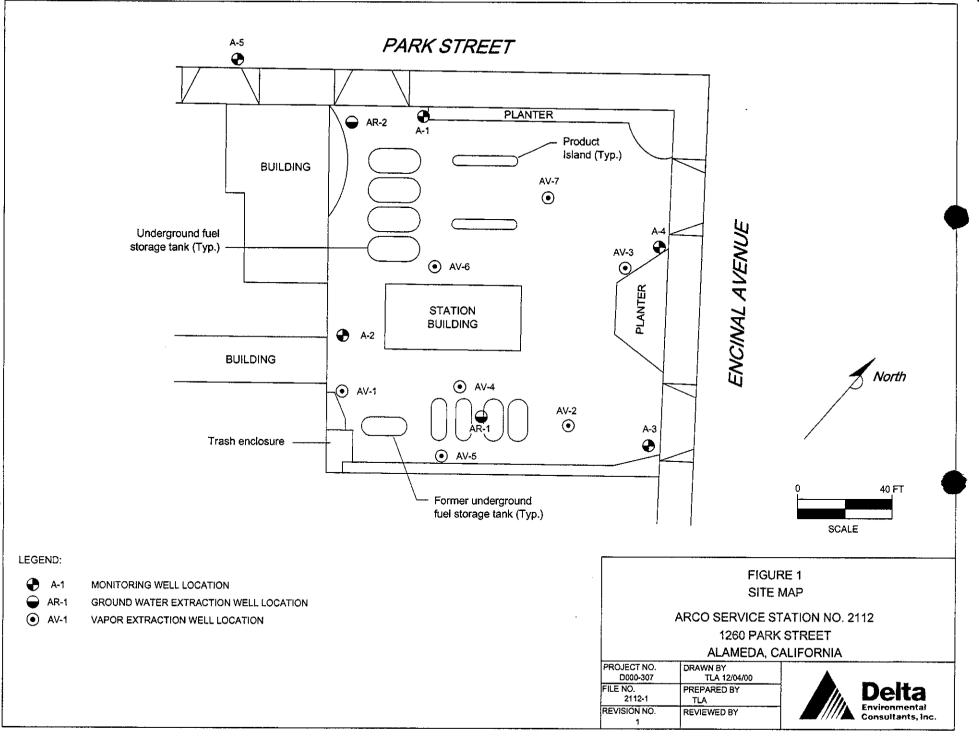
DELTA ENVIRONMENTAL CONSULTANTS, INC.

Steven W. Meeks, P.E.

Steven W. Meeks, P.E. Project Manager California Registered Civil Engineer No. C057461

SWM (QSR001.307.doc) Enclosures: Figure 1 (Site Map)

cc: Ms. Susan Hugo – Alameda County Health Care Services Agency Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region





PROTECTION 00 FEB 23 PM 3: 20 2201 Broadway, Suite 101 Oakland, CA 94612-3023 Tel. 510.740.5800 Fax. 510.663.3315

February 18, 2000 Project 791798

R044

Mr. Paul Supple ARCO Products Company PO Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street at Encinal Avenue, Alameda, California
ARCO	Environment	al Engineer:	Paul Supple
Consu	ting Co./Con	tact Person:	Pinnacle Environmental Solutions/ Glen VanderVeen
	Consultant	Project No.:	791798
Primary Ag	gency/Regula	atory ID No.:	Alameda County Hearth Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (FOURTH - 1999):

- 1. Prepared and submitted quarterly status report for third quarter 1999.
- 2. No environmental work was conducted at the site during the fourth quarter 1999.

WORK PROPOSED FOR NEXT QUARTER (FIRST - 2000):

- 1. Prepare and submit quarterly status report for fourth quarter 1999.
- 2. No environmental work is scheduled at the site during the first quarter 2000.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

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Mr. Paul Supple February 18, 2000 Page 2

Project 791798

If you have any questions regarding this report, please call.

Sincerely,

Pinnacle

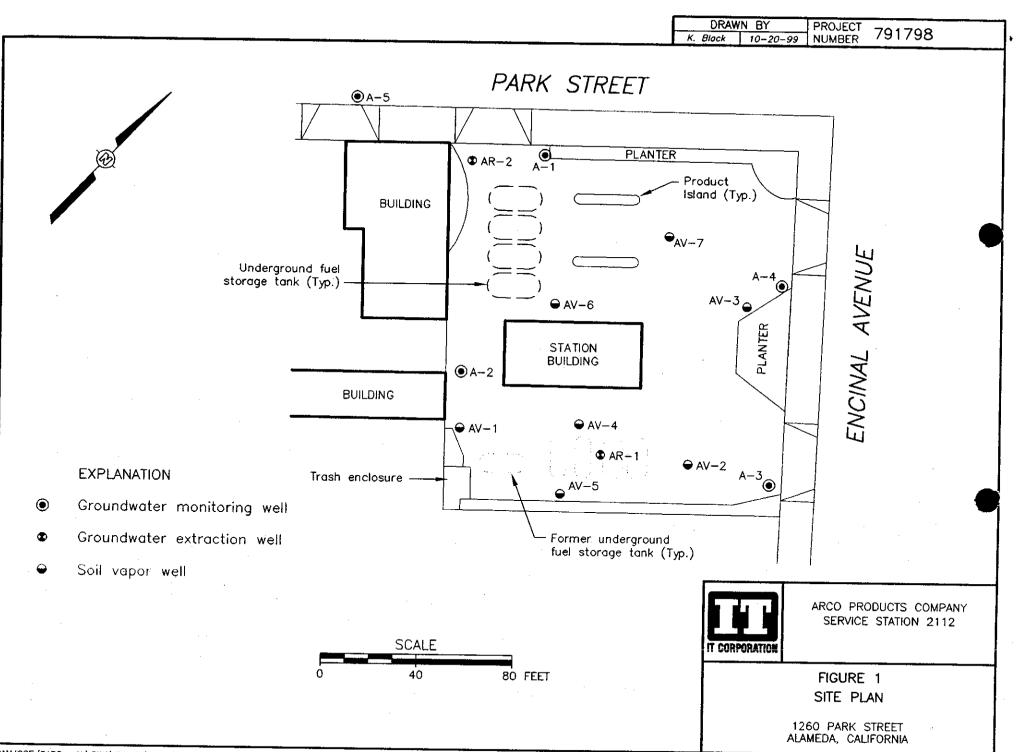
San WAIN

Glen VanderVeen
 Project Manager

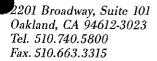
Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headlee, Regional Water Quality Control Board - S.F. Bay Region

Pinnacle



SANJOSE/CADD: N:\DWG\PINACL\2112\2112SP.DWG Wed, 20/Oct/99 07:35am kblock



June 9, 2000 Project 803912

Mr. Paul Supple ARCO Products Company PO Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street at Encinal Avenue, Alameda, California
ARCO	Environmenta	al Engineer:	Paul Supple
Consul	ting Co./Cont	act Person:	IT Corporation/Stephen Lofholm
	Consultant l	Project No.:	803912
Primary Agency/Regulatory ID No.:		tory ID No.:	Alameda County Health Care Services Agency (ACHCSA)

WORK PERFORMED THIS QUARTER (FIRST - 2000):

- 1. Prepared and submitted quarterly status report for fourth quarter 1999.
- 2. No environmental work was conducted at the site during the first quarter 2000.

WORK PROPOSED FOR NEXT QUARTER (SECOND - 2000):

- 1. Prepare and submit quarterly status report for first quarter 2000.
- 2. No environmental work is scheduled at the site during the second quarter 2000.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- ARCO will transfer this project to another consultant. The new consultant will begin providing services during the second quarter 2000.



Project 803912

--

Mr. Paul Supple June 9, 2000 Page 2

If you have any questions regarding this report, please call.

Sincerely,

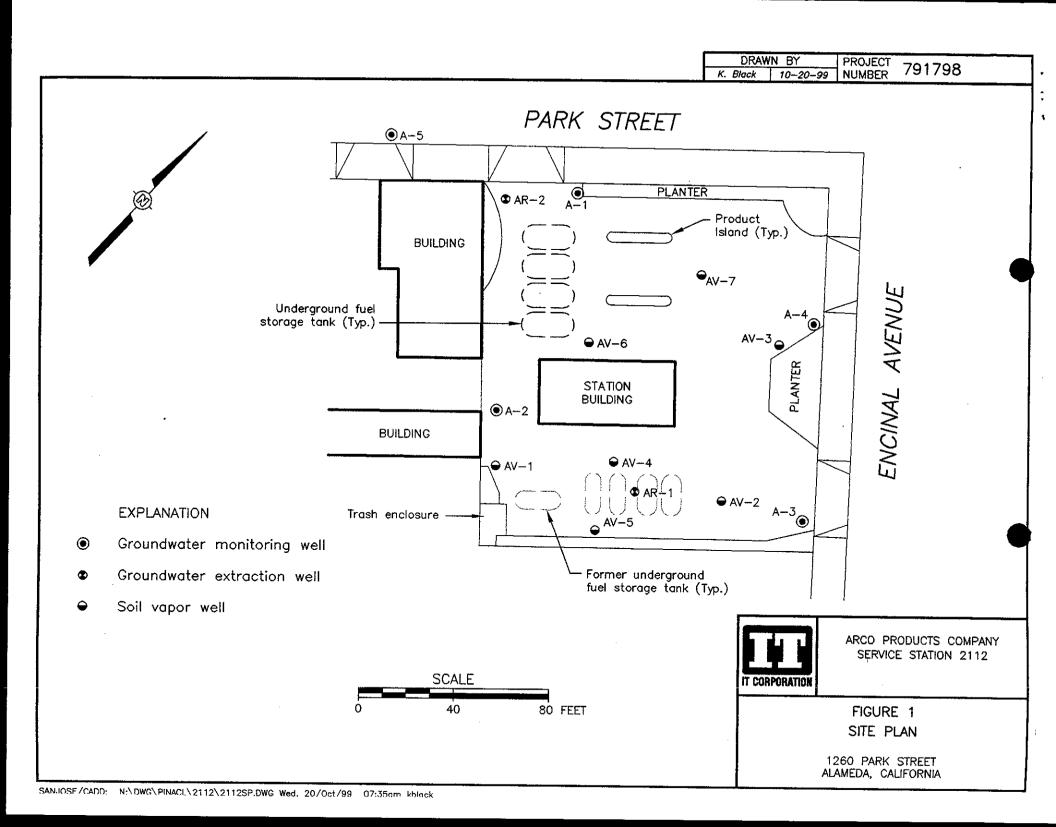
IT Corporation

Stephen Lofholm, R.G. 4793 Technical Coordinator

Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headlee, Regional Water Quality Control Board - S.F. Bay Region

IT CORPORATION







ROYY

April 22, 1999 Project 20805-209.002

Mr. Paul Supple ARCO Products Company PO Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street at Encinal Avenue, Alameda, California		C.
ARCC	Environmenta	al Engineer:	Paul Supple	0	j∰iù.⊲
Const	ulting Co./Cont	act Person:	Pinnacle Environmental Solutions/ Glen VanderVeen	ليور)	-
	Consultant I	Project No.:	20805-209.002		-
Primary A	gency/Regula	tory ID No.:	Alameda County Health Care Services Agency (ACHCSA))	-

WORK PERFORMED THIS QUARTER (FIRST - 1999):

- 1. Prepared and submitted quarterly status report for fourth quarter 1998.
- 2. No environmental work was conducted at the site during the first quarter 1999.

WORK PROPOSED FOR NEXT QUARTER (SECOND - 1999):

- 1. Prepare and submit quarterly status report for first quarter 1999.
- 2. No environmental work is scheduled at the site during the second quarter 1999.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

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Project 20805-209.002

Mr. Paul Supple April 22, 1999 Page 2

If you have any questions regarding this report, please call.

Sincerely,

Pinnacle

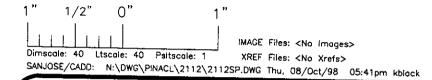
Glen VanderVeen Project Manager

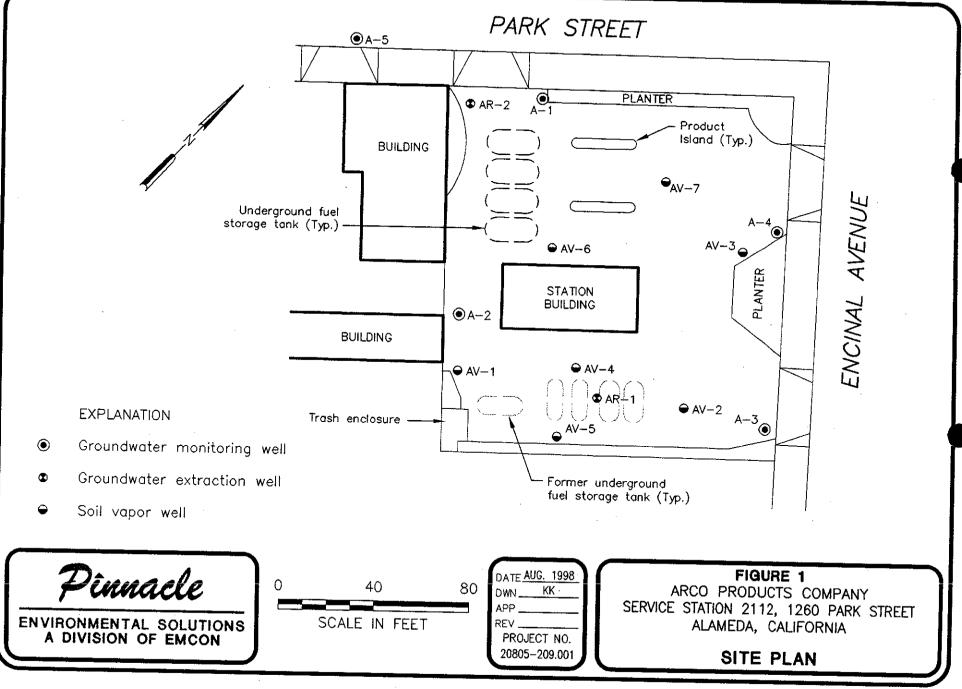
Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region

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ENVIRONMENTAL PROTECTION

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November 19, 1998

Roya

Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street at Encinal Avenue, Alameda, California
ARCO I	Environmenta	al Engineer:	
Consult	ing Co./Cont	act Person:	Pinnacle Environmental Solutions/ Glen VanderVeen
	Consultant I	Project No.:	
Primary Ag	ency/Regula	tory ID No.:	Alameda County Health Care Services Agency
		-	

WORK PERFORMED THIS QUARTER (THIRD - 1998):

- 1. Prepared and submitted quarterly status report for second quarter 1998.
- 2. No environmental work was conducted at the site during the third quarter 1998.

WORK PROPOSED FOR NEXT QUARTER (FOURTH - 1998):

- 1. Prepare and submit quarterly status report for third quarter 1998.
- 2. No environmental work is scheduled at the site for the fourth quarter 1998.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

Mr. Paul Supple November 19, 1998 Page 2 Project 20805-209.001

Please call if you have questions.

Sincerely,

Pinnacle

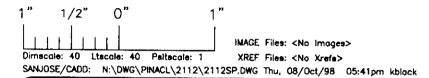
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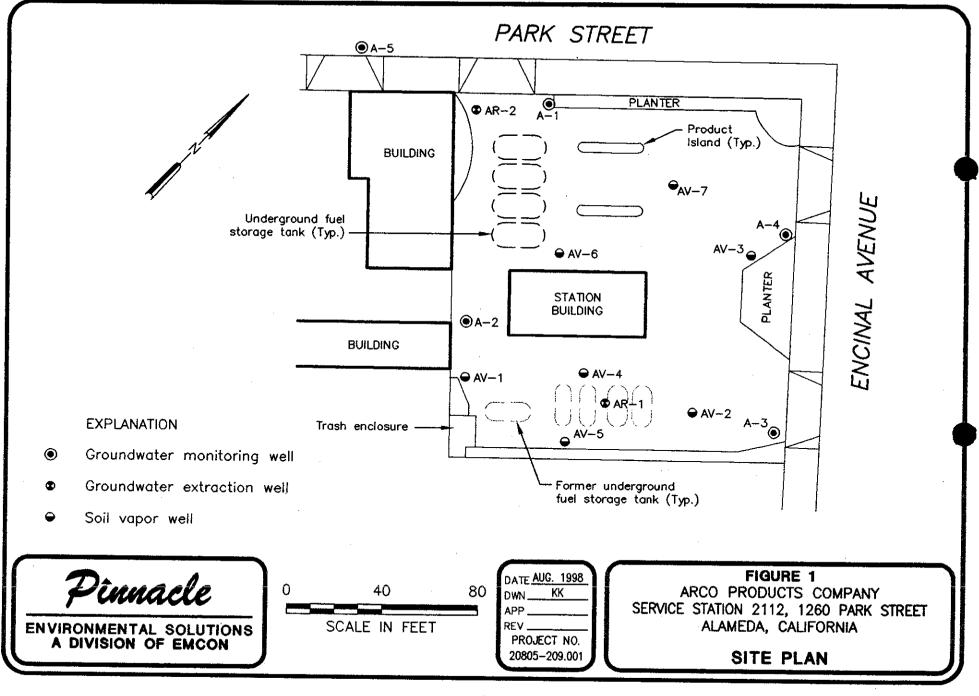
Glen VanderVeen Project Manager

Attachment: Figure 1 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region

Pinnacle









ENVIRONMENTAL PROTECTION

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98 OCT 23 OctoBe 221, 1998

Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.:	2112	Address:	1260 Park Street at Encinal Avenue, Alameda, California
ARCO	Environment	al Engineer:	Paul Supple
Consul	ting Co./Cont	tact Person:	Pinnacle Environmental Solutions/ Glen VanderVeen
	Consultant	Project No.:	20805-209.001
Primary Ag	ency/Regula	tory ID No.:	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Second - 1998):

- 1. Prepared and submitted quarterly status report for first quarter 1998.
- 2. No environmental work was conducted at the site during this quarter.

WORK PROPOSED FOR NEXT QUARTER (Third - 1998):

- 1. Prepare and submit quarterly status report for second quarter 1998.
- 2. No environmental work is scheduled at the site for the third quarter 1998.
- 3. Pursue case closure for the site.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

Mr. Paul Supple October 21, 1998 Page 2

Please call if you have questions.

Sincerely,

Pinnacle

Glen VanderVeen Project Manager

Attachment: Figure 1 - Site Plan

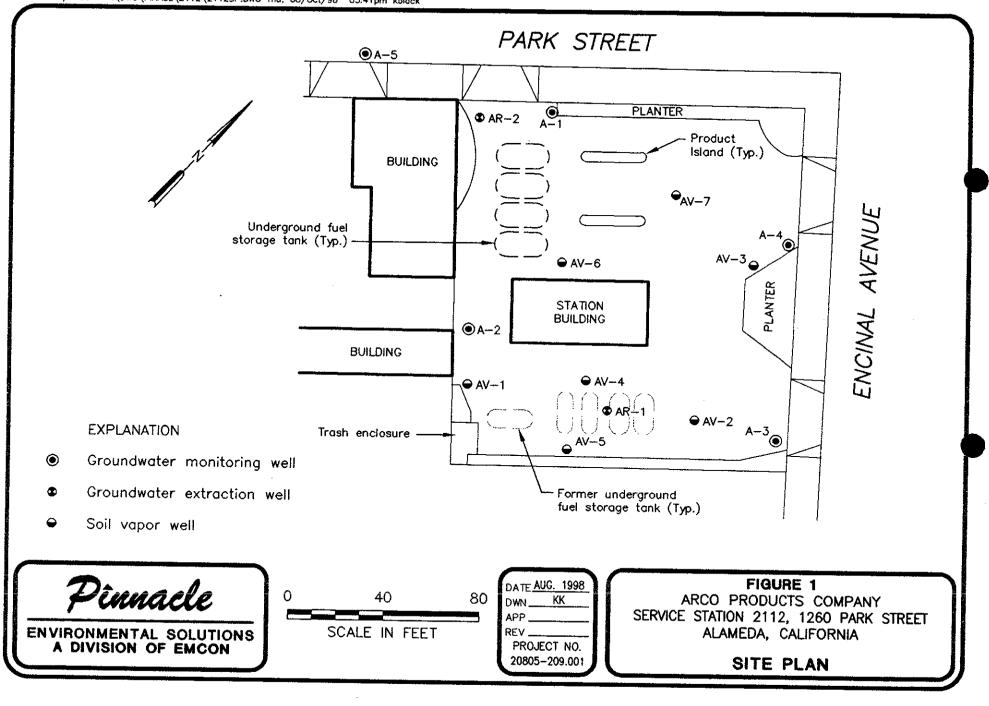
cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region

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·//P	innacle	
ENVIRONMENT	AL SOLUTIONS	



ROYY

September 15, 1998

Mr. Paul Supple ARCO Products Company P.O. Box 6549 Moraga, California 94570

ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address:	1260 Park Street, Alameda, California
ARCO Environmental Engineer:	Paul Supple
Consulting Co./Contact Person:	Pinnacle Environmental Solutions/ Glen VanderVeen
Consultant Project No.:	20805-209.001
Primary Agency/Regulatory ID No.:	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (First - 1998):

- 1. Prepared and submitted quarterly status report for fourth quarter 1997.
- 2. No environmental work was conducted at the site during the first quarter 1998.

WORK PROPOSED FOR NEXT QUARTER (Second - 1998):

- 1. Prepare and submit quarterly status report for first quarter 1998.
- 2. Pursue case closure for the site.

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- A "Case Closure Summary" was submitted on November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.
- Please refer to the Fourth Quarter 1996 and Second Quarter 1997 Groundwater Monitoring Reports for historical groundwater and remedial system performance data.

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Mr. Paul Supple September 15, 1998 Page 2

Please call if you have questions.

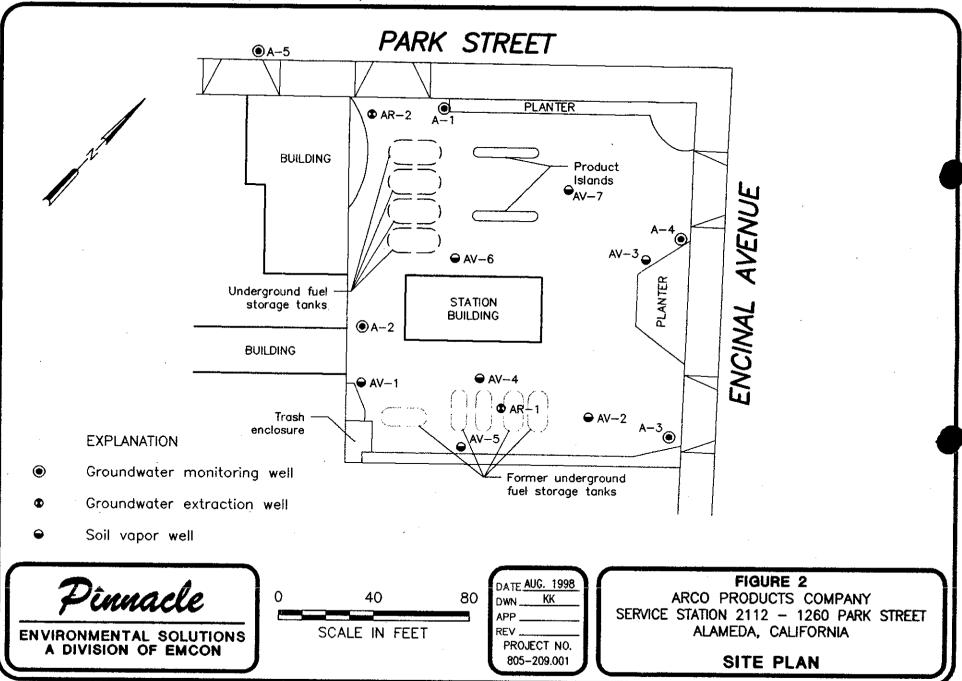
Sincerely,

Pinnacle Glen VanderVeen

Project Manager

Attachment: Figure 2 - Site Plan

cc: Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Chuck Headley, Regional Water Quality Control Board - S.F. Bay Region SANJOSE/CAD: N:\PINACL\2112SP.dwg Xrefs: <NONE> Scale: 1 = 1.00 DimScale: 1 = 150.00 Date: 8/10/98 Time: 2:44 PM Operator: KBlack





PACIFIC ENVIRONMENTAL GROUP, INC.

Off 44 Lor opencase

Quarterly Status Report PH 4: 31 Third Quarter 1997

ARCO Service Station 2112 1260 Park Street at Encinal Avenue Alameda, Californiá

Prepared for

Mr. Paul Supple ARCO Products Company

December 31, 1997

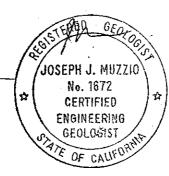
Prepared by

Pacific Environmental Group, Inc. 2025 Gateway Place, Suite 440 San Jose, California 95110

Project 330-106 2D

Shaw Garakani Project Engineer

Joseph Muzzio Project Manager CEG 1672



Date:

December 31, 1997

Quarter: 3Q97

3097

ARCO QUARTERLY STATUS REPORT

Facility No.: 2112 Address:	1260 Park Street at Encinal Avenue, Alameda
ARCO Environmental Engineer:	Paul Supple
Consulting Co./Contact Person:	Pacific Environmental Group, Inc./Shaw Garakani
Consultant Project No.:	330-106.2D
Primary Agency/Regulatory ID No.:	Alameda County Health Care Services Agency

WORK PERFORMED THIS QUARTER (Third - 1997):

- 1. Discontinued groundwater monitoring program.
- 2. Submitted second quarter 1997 groundwater monitoring report.

WORK PROPOSED FOR NEXT QUARTER (Fourth - 1997):

- 1. Pursue case closure for the site.
- 2. Prepare and submit third quarter 1997 status report.

Current Phase of Project: Frequency of Groundwater Sampling: Frequency of Groundwater Monitoring: Is Free Product (FP) Present On-Site: FP Recovered this Quarter: Cumulative FP Recovered to Date: Bulk Soil Removed This Quarter: Bulk Soil Removed to Date: Current Remediation Techniques: Approximate Depth to Groundwater: Groundwater Gradient:

Period TPPH-g/Benzene Removed: 'Cumulative TPPH-g/Benzene Removed:

N/A	(Assmnt, Remed., etc.)
N/A	(Quarterly, etc.)
N/A	(Monthly, etc.)
No	(Yes/No)
None	(gallons)
None	(gallons)
None	(cubic yards)
1,950	(cubic yards)
Natural Attenuation	(SVE/Sparge/FP Removal, etc.)
9.43 to 11.65 as of 2Q97	(Measure Feet)
West as of 2Q97	(Direction)
0.008 as of 2Q97	(Magnitude)
0,0/0,0	(gallons)
55/0.1	(gallons)

December 31, 1997 Page 2

DISCUSSION:

- ARCO received a letter dated May 2, 1997 from ACHCSA, indicating that the remedial system may be decommissioned. Therefore, removal of the remedial compound and equipment was completed during the second quarter 1997. The letter also indicated that verification of groundwater conditions have been completed, therefore, the groundwater monitoring and reporting program has been terminated.
- On behalf of ARCO, PACIFIC submitted a "Case Closure Summary" dated November 20, 1996. Case closure is pending final comments from the Alameda County Department of Environmental Health.

 Please refer to PACIFIC's Quarterly Groundwater Monitoring Reports - Fourth Quarter 1996 and Second Quarter 1997 for historical groundwater and remedial system performance data.

cc:

Ms. Susan Hugo, Alameda County Health Care Services Agency Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region

ARCO Products Compar

Post Office Box 612530 San Jose, California 95161

Environmental Remediation



June 14, 1996 Projects: 330-084.5C/330-105.5B 330-106.5C/330-109.5B

Ms. Sue Jenne East Bay Municipal Utilities District P.O. Box 24055 Oakland, California 94623-1055

Re: Request to Relinquish Wastewater Discharge Permits Miscellaneous sites

Dear Ms. Jenne:

ARCO Products Company wishes to relinquish the wastewater discharge permits for the following sites, effective immediately. Please do not hesitate to call if you have any questions.

Ð



Discharge Permit 502-85611
 ARCO Service Station 0374
 6407 Telegraph Avenue
 Oakland, California



- Discharge Permit 502-65201 ARCO Service Station 2112 1260 Park Street Alameda, California
- Discharge Permit 502-64411
 ARCO Service Station 2107
 3310 Park Boulevard at East 34th Street Oakland, California
- 4. Discharge Permit 502-62131 ARCO Service Station 4931
 731 West MacArthur Boulevard Oakland, California

Sincerely, ARCO Products Company

Withael Chelon

Michael Whelan Environmental Engineer

Mr. Barney Chan, Alameda County Health Care Services Agency
 Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region
 Ms. Susan Hugo, Alameda County Health Care Services Agency
 Mr. Shaw Garakani, Pacific Environmental Group, Inc.



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January 19, 1996 Project 330-106.5C

Mr. Ray Maxwell East Bay Municipal Utilities District P.O. Box 24055 Oakland, California 94623-1055

Re: Wastewater Discharge Permit 502-65201 ARCO Service Station 2112 1260 Park Street Alameda, California

Dear Mr. Maxwell:

On behalf of ARCO Products Company, Pacific Environmental Group, Inc. (PACIFIC) is performing environmental services at the site referenced above. Per our phone conversation yesterday, PACIFIC requests a change to the referenced permit. In light of the new regulatory environment, and a recent meeting with the Alameda County Health Care Services Agency regarding the site, groundwater extraction at this site will no longer be required, unless further migration of the contaminated groundwater plume occurs. However, until site closure has been granted, PACIFIC would like to maintain the referenced permit. Therefore, PACIFIC requests to change the estimated annual discharge volume from 792,415 to 70,123 gallons retroactively to the start date of the current permit, and receive billing credit for fees paid to the East Bay Municipal Utilities District prior to the proposed change in discharge volume. The groundwater extraction system was shut down in August 1995 and has remained shut down to this date. Treatment system operational data are presented in Table 1.

Please do not hesitate to call if you have any questions.

Sincerely, Pacific Environmental Group, Inc.

Shaw Garakani Project Engineer

Attachment: Table 1 - Groundwater Extraction System Performance Data

cc: Mr. Michael Whelan, ARCO Products Company Mr. Kevin Graves, Regional Water Quality Control Board - S.F. Bay Region Ms. Susan Hugo, Alameda County Health Care Services Agency

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Table 1 Groundwater Extraction System Performance Data

ARCO Service Station 2112 1260 Park Street Alameda, California

					TPP	H as Gaso	line		Benzene		, <u> </u>
				Average	Influent			Influent			Primary
		Totalizer	Net	Flow	Concen-	Net	Removed	Concen-	Net	Removed	Carbon
Sample	Date	Reading	Volume	Rate	tration	Removed	to Date	tration	Removed	to Date	Loading
1.D.	Sampled	(gallons)	(gallons)	(gpm)	(µg/L)	(ibs)	(lbs)	_(µg/L)	(lbs)	(lbs)	(percent)
INFL	06/28/94	741,520	N/A	1.3	ND	0.00	0.80	ND	0.000	0.133	1.0
INFL	11/04/94 .	782,881	41,381	N/A	ND	0.00	0.80	ND	0.000	0 133	1.0
INFL	03/07/95 b	804,954	22,073	N/A	NS	0.00	0.80	NS	0.000	0.133	1.0
INFL	04/20/95	828,131	21.177	0.3	ND	***************	0.80	ND	0.000	0.133	1.0
INFL	05/03/95	836,000	9,869	0.5	NS	0.00	0.80	NS	0.000	0.133	1.0
INFL	66/06/95	898,000	62,000	13	NS	C	0.80	NS	0.000	0.133	1.0
INFL	07/06/95 c	945,200	47,200	1.1	74	0.01	0.81	13	0.003	0.135	1.0
INFL	08/03/95 d	945,200	0	0.0	ND	0.00	0.81	3.5	0.000	0.135	1.0
CEOGOZI	G PERIOD: (No.	102.11.57611000						******		
	UNDS REMO		amaa (u)								
	ULLONS REM						0.81			0.135	
	ounds remo					0.01	0.13			0.018	
	ALLONS REA					0.01			0.003		
	ULIONS EXTR				945,200	9.00			0.000		
	ALLONS EXT				47,200						
	VERAGE FLO	***********************	mà:		1.2						
*****	Total purgeab			5			<u></u>				
	Gallons per m	-	•								
µg/L ≕	Micrograms p	er liter									
⊫ adl	Pounds										
N/A =	Not available of	or not applicat	ie								
ND =	Not detected a	above the dete	ction limit								
NS =	Not sampled (system influe	nt sampled o	juarterly in Ja	anuary, April	July, and A	August)				
	ystem shut do										
b. S	ystem restarte	d March 7, 19	95; continuo	us operation	began on th	is date.	-				
	WE system sh			-	-						
d. G	WE system re	-started for sa	mpling, ther	n temporarily	shut down A	ugust 3, 19	95.				
Mass remov	/ed is an appro	ximation calcu	ulated using	averaged col	ncentrations.	,					
Pounds of h	nydrocarbons re	emoved to dat	e provided b	y prior consu	iltant, GeoSt	rategies Inc	orporated.				
	d analyticat rep					-	-				



GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

(510) 352-4800

R044

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. 2112 1260 Park Street Alameda, California 94501

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 the month of June, 1992.

Status of Previous Month's Activities:

- * Completed design and equipment selection for the proposed remedial system.
- * Prepared Remedial Action Plan.

Anticipated Work to be Performed in the Next Month:

- * Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- * Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.
- * Secure encroachment permits from the City of Alameda for the proposed off-site recovery well and monitoring well.
- * Apply for POTW permit for water discharge from the proposed groundwater treatment system.
- * Apply for an air discharge permit from the Bay Area Air Quality Management District for the proposed vapor extraction system.
- * Issue draft Remedial Action Plan to ARCO.

790002

GeoStrategies Inc.

ARCO Products Company June 12, 1992 Page 2

Please call if you have any questions concerning this letter.

Sincerely,

.

for

John ¹F. Vargas Senior Geologist

JFV:rcm

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

-0090 046 87 UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT HAS STATE OFFICE OF EMERGENCY SERVICES EMERGENCY FOR LOCAL AGENCY USE ONLY **REPORT BEEN FILED 7** 1 HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE YES NO NO NO YES DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. REPORT DATE CASE # 4.64.6.6.6 SIGNED DATE NAME OF INDIVIDUAL FILING REPORT SIGNATURE PHONE BID1407 - 260 NON NO REPORTED BY RÉPRESENTING COMPANY OR AGENCY NAME OWNER/OPERATOR **REGIONAL BOARD** LOCAL AGENCY ADDRESS esi 60 B В Ô 603 ð GSTATE NAME CONTACT PERSON PHONE щ 0 RESPONSIBLI PARTY anon (310) 407 -260 UNKNOWN 1 ADDRESS me STREET CITY STATE FACILITY NAME (IF APPLICABLE) OBERATOR PHONE 60 865 #1 20 do rotare. SITE LOCATION ADDRESS STREET CROSS STREET hciha LOCAL AGENCY AGENCY NAME PHONE EMENTING ulie He Blake am ub 1 (510) 2 REGIONAL BOARD PHONE цЧ (1) NAME SUBSTANCES QUANTITY LOST (GALLONS) Solino UNKNOWN (2) UNKNOWN DATE DISCOVERED HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONYTORING DISCOVERY/ABATEMENT **NUISANCE CONDITIONS** TANK TEST TANK REMOVAL OTHER ua DATE DISCHARGE BEGAN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) 3.0 UNKNOWN REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING 'n HAS DISCHARGE BEEN STOPPED ? REPAIR TANK CLOSE TANK & FILL IN PUACE CHANGE PROCEDURE YES NO IF YES, DATE REPLACE TANK OTHER SOURCE OF DISCHARGE CAUSE(S) SOURCE OM TANK LEAK UNKNOWN OVERFILL RUPTURE/FAILURE ugite k SPILL 14.1 **PIPING LEAK** OTHER CORROSION UNKNOWN OTHER CHECK ONE ONLY CASE DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) UNDETERMINED SOIL ONLY GROUNDWATER CHECK ONE ONLY NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION STA LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) **REMEDIATION PLAN** CLEANUP UNDERWAY CHECK APPROPRIATE ACTION(S) EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT) (SEE BACK FOR DETAILS) REMEDIAL CAP SITE (CD) PUMP & TREAT GROUNDWATER (GT) EXCAVATE & TREAT (ET) **REPLACE SUPPLY (RS)** CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SOIL (VS) VACUUM EXTRACT (VE) Sor ber OTHER (OT mat e, COMMENTS ccityle Christie ARCO HSC 05 (8/90)

TESTRUCTIONS

FMERGENCY

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 (CES) at 2800 Meadowview Road. Secremento CA 95832 Conjes of the DES report form may be obtained at your ignal 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 Realth and Safety orde 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 epresent and provide company or agency name.

SPONSTRUE 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 Wate: Quality Control Board involved -

<u>SUBSTANCES INVOLVED</u> 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.

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

SE 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.

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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.

Fost 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.

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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.

Excevate 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 bacteriel decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties. Treatment at Hockup - 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 heles 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 egency far distribution.

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- 2. Stafe Water Resources Control Board, Division of Clean Water Programs,
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- 4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
- 5. Owner/resconsible party.

046 870 91 0090 UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT HAS STATE OFFICE OF EMERGENCY SERVICES EMERGENCY FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE YES YES NO DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. REPORT DATE CASE # MO SIGNED ox DATE NAME OF INDIVIDUAL FILING REPORT PHONE SIGNATURE 260 B10)407 иои REPORTED BY REPRESENTING OWNER/OPERATOR **REGIONAL BOARD** X (11 LOCAL AGENCY OTHER ADDRESS 907 6038 02-60 esia STATE CONTACT PERSON NAME PHONE RESPONSIBLE UNKNOWN PARTY B10) 407 260 ADDRESS mo as above STATE FACILITY NAME (IF APPLICABLE) OPERATOR PHONE as winder sekhon (.5 SITE LOCATION ADDRESS am Alamer 4 60 STREE COUNT CROSS STREET hCingi LOCAL AGENCY AGENCY NAME CONTACT PERSON PHONE (510) 2 att MPLEME REGIONAL BOARD PHONE (1) NAME QUANTITY LOST (GALLONS) SUBSTANCES INVOLVED UNKNOWN (2) UNKNOWN DATE DISCOVERED HOW DISCOVERED INVENTORY CONTROL SUBSURFACE MONITORING DISCOVERY/ABATEMENT NUISANCE CONDITIONS TANK TEST TANK REMOVAL OTHER a DATE DISCHARGE BEGAN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) 2 <u>M</u>2 REMOVE CONTENTS CLOSE TANK & REMOVE UNKNOWN REPAIR PIPING HAS DISCHARGE BEEN STOPPED REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE YES 🛛 NO IF YES, DATE REPLACE TANK OTHER SOURCE OF DISCHARGE CAUSE(S) ğ SOURCE TANK LEAK UNKNOWN OVERFILL RUPTURE/FAILURE SPILI **PIPING LEAK** OTHER CORROSION **UNKNÓWN** OTHER CHECK ONE ONLY CASE Q RING WATER h OUNDETERMINED SOIL ONLY GROUNDWATE HECK ONL IF WATER WEILS HAVE ACTUALLY BEEN AFFECTED) CHECK ONE ONLY CURRENT STATUS NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION PRELIMINARY SITE ASSESSMENT UNDERWAY LEAK BEING CONFIRMED POST CLEANUP MONITORING IN PROGRESS CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) **REMEDIATION PLAN** CLEANUP UNDERWAY CHECK APPROPRIATE ACTION(S) EXCAVATE & DISPOSE (ED) **REMOVE FREE PRODUCT (FP)** ENHANCED BIO DEGRADATION (IT) ISEE BACK FOR DETAILS REMEDIAL CAP SITE (CD) PUMP & TREAT GROUNDWATER (GT) EXCAVATE & TREAT (ET) **REPLACE SUPPLY (RS)** NO ACTION REQUIRED (NA) CONTAINMENT BARRIER (CB) AT HOOKUP (HED. VENT SOIL IVS VACUUM EXTRACT (VE) OTHER (OT) 0 al COMMENTS on site. HSC 05 (8/90) hushe - ARCO CC: Fyle

INSTRUCTIONS

EMERGENCY

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LOCAL AGENCY ONLY

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REPORTED BY

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

ESPONSIBLE 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

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SUBSTANCES INVOLVED

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

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

Remove Free Product - remove floating product from water table. <u>Rumm and Treat Groundwater</u> - 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. <u>Treatment at Hopkup</u> - install water treatment devices at each dwelling or other place of use.

Vecum Extract ~ use pumps or blowers to draw air through soil.

<u>Vent Soil</u> - hore holes in soil to allow volatilization of contaminants. <u>No Action Required</u> - 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

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- 4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 motifications.
- 5. Owner/responsible party.

046 (\mathcal{R}^{2}) (-0090)UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT EMERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE YES 19 NO 11 NO YES DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. REPORT DATE . 1 WASE # SIGNED NAME OF INDIVIDUAL FILING REPORT PHONE SIGNATUR B101407-2604 NON 10uh REPORTED BY REPRESENTING COMPANY OR AGENCY NAME OWNER/OPERATOR REGIONAL BOARD (0)LOCAL AGENCY OTHER Froduct ADDRESS 6038, 90702 6038 \mathcal{OX} SIG NAME CONTACT PERSON PHONE RESPONSIBL 1310407-260 anon ADDRESS me above as STREET CITY FACILITY NAME (IF APPLICABLE) OPERATOR PHONE (5/0) 865 Wind 0 sek SITE LOCATION ion ADDRESS Alamea 0 450 61 COUNTY CROSS STREET Encina LOCAL AGENCY AGENCY NAME CONTACT PERSON PHONE IMPLEMENTING ŝ Ra ette (510) 271 432 AGENC REGIONAL BOARD PHONE (1) NAME SUBSTANCES QUANTITY LOST (GALLONS) a UNKNOWN (2) UNKNOWN DATE DISCOVERED HOW DISCOVERED INVENTORY CONTROL SUBSURFACEMONITORING **DISCOVERY/ABATEMENT** MUISANCE CONDITIONS TANK TEST TANK REMOVAL OTHER 0 DATE DISCHARGE BEGAN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) 1.1 UNKNOWN REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING D HAS DISCHARGE BEEN STOPPED ? REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE YES NO IF YES, DATE REPLACE TANK OTHER . hur NOWN rnau SOURCE OF DISCHARGE CAUSE(S) line. SOURCI TANK LEAK UNKNOWN OVERFILL RUPTURE/FAILURE **PIPING LEAK** OTHER CORROSION UNKNOWN OTHER CHECK ONE ONLY CASE Umps UNDETERMINED SOIL ONLY DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY/BEEN AFFECTED) GROUNDWATER CHECK ONE ONLY NO ACTION TAKEN CURRENT STATUS PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION LEAK BEING CONFIRMED PRECIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) REMEDIATION PLAN CLEANUP UNDERWAY CHECK APPROPRIATE ACTION(S) EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT) ISEE BACK FOR DETAILS REMEDIAL CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) **REPLACE SUPPLY (RS)** CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SOIL (VS) VACUUM EXTRACT (VE) OTHER (OT) leanoa absorbent With ma at P COMMENTS Rad Runner Contractor dispat maintenance HSC 05 (8/90) File 0 - A $\mathcal{C}(c)$

INSTRUCTIONS

EMERGENCY

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Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazerdous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2600 Meadowview Road,. Sacramento, CA 95632. Copies of the CES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the DES report has been filed as of the date of this report.

LOCAL AGENCY ONLY

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REPORTED BY

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

ESPONSIBLE 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

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.

ASE 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.

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

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

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

<u>Remove Free Product</u> - remove floating product from water table. <u>Purpo and Treat Groundwater</u> - generally employed to remove dissolved contaminants.

<u>Enhanced Biodegradation</u> - use of any available technology to promote bacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected parties. <u>Treatment at Ecokup</u> - install water treatment devices at each dwelling or other place of use.

<u>Yacuum Extract</u> - use pumps or blowers to draw air through soil. <u>Yent Soil</u> - hore holes in soil to allow volatilization of contaminants. No <u>Action Required</u> - incident is minor, requiring no remedial action.

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

SIGNATURE - Sign the form in the space provided.

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0.55 UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT EMERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES FOR LOCAL AGENCY USE ONLY **REPORT BEEN FILED ?** YES THEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE NO YES -NO DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM REPORT DATE CASE # **1** SIGNED DATE NAME OF INDIVIDUAL FILING REPORT PHONE SIGNATUR a. 3 (310)407-260H NO REPORTED BY REPRESENTING OWNER/OPERATOR **REGIONAL BOARD** COMPANY OR AGENCY NAM LOCAL AGENCY OTHER ADDRESS -6038 Sox 6038 Fir 40702 Sig ćтv STATE NAME CONTACT PERSON ų PHONE UNKNOWN SPONSIBI PARTY anon (310 407-2605 ADDRESS Ar 102-6038 6038 Ë PSIG 0 FACILITY NAME (IF APPLICABLE) OPERATOR PHONE Q Minder 510 LOCATION ADDRESS 1260 Alamed 74501 amec a SITE COUNTY CROSS STREET theing LOCAL AGENCY AGENCY NAME CONTACT PERS PHONE Blake Heal RM 2016 hel (510) EMEN 43 REGIONAL BOARD PHONE IMPL (1) NAME SUBSTANCES INVOLVED QUANTITY LOST (GALLONS) C $(\neg a$ UNKNOWN (2) UNKNOWN DATE DISCOVERED HOW DISCOVERED **DISCOVERY/ABATEMENT** INVENTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS M OM OD TANK TEST TANK REMOVAL OTHER DATE DISCHARGE BEGAN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) M QM Qol 801 UNKNOWN REMOVE CONTENTS CLOSE TANK & REMOVE REPAIR PIPING HAS DISCHARGE BEEN STOPPED ? REPAIR TANK CLOSE TANK & FILL IN PLACE CHANGE PROCEDURE YES [NO IF YES, DATE 1_M0 REPLACE TANK OTHER . roolu Иi **n**t SOURCE OF DISCHARGE CAUSE(S) З Ч ł. И e TANK LEAK UNKNOWN OVERFILL SPILL **RUPTURE/FAILURE** 1.0 ర్టై చే chanaing PIPING LEAK OTHER CORROSION UNKNOWN OTHER Ump #2 CHECK ONE ONLY CASE UNDETERMINED SOIL ONLY DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED) GROUNDWATER CHECK ONE ONLY CURRENT STATUS NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED POLLUTION CHARACTERIZATION LEAK BEING CONFIRMED PRECIMINARY SITE ASSESSMENT UNDERWAY POST CLEANUP MONITORING IN PROGRESS CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) REMEDIATION PLAN T CLEANUP UNDERWAY CHECK APPROPRIATE ACTION(S) EXCAVATE & DISPOSE (ED) () REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT) (SEE BACK FOR DETAILS) REMEDIAL ACTION CAP SITE (CD) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED INAL AT HOOKUP (HU) VENT SOIL (VS) VACUUM EXTRACT (VE) OTHER (OT) ea neo COMMENTS X e Kyle Christie - HI HSC 05 (8/90) cc:

INSTRUCTIONS

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LOCAL AGENCY ONLY

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REPORTED BY

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ESFONSIBLE 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

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- 4. Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
- 5. Owner/responsible party.



GeoStrategies Inc.

January 19, 1993

Mr. Richard Hiett Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612 (Certified Mail)

Subject: Remediation Schedules for ARCO Sites in Alameda County, California

Dear Mr. Heitt:

On behalf of ARCO Products Company (ARCO), and as requested in the meeting held on November 19, 1992 at the Alameda County Health Care Services Agency (ACHCSA), GeoStrategies Inc. (GSI) has revised the Remediation Implementation schedules for remediation of sites under your regulatory oversight.

The darkened lines on the schedules represent deadlines which were agreed upon during the November 19, 1992 meeting. The hatchered lines represent our best guess estimates of times which may be required to complete tasks should unforeseen delays occur. These unforeseen delays include permitting issues, offsite access issues, and estimated times of operation of the respective remediation systems.

:ARCOMISC\7926RTL.LTR(kjj)

2140 WEST WINTON AVENUE • HAYWARD, CALIFORNIA 94545 • (510) 352-4800 601 UNIVERSITY AVENUE • SUITE 150 • SACRAMENTO, CALIFORNIA 95825 • (916) 568-7500

GeoStrategies Inc.

Regional Water Quality Control Board January 19, 1993 Page 2

If you have any questions or comments, please contact us at (510) 352-4800 or Mr. Michael Whelan of ARCO at (415) 571-2449.

Sincerely,

John F. Vargas

Project Manager

Ms. Susan Hugo, ACHA (Certified Mail)
 Mr. Michael Whelan, ARCO
 Mr. John Meck, ARCO Legal
 Mr. H.C. Winsor, ARCO
 Mr. Mark Thomson, Alameda County DA (without attachments)

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	PERFORMANCE EVALUATION	(8)																		~~			1	~~	
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(1) Soil Investigation

- Soil contamination is on-site only and has been delineated by already completed work
- (2) Additional Ground-water Investigation
 - Ground-water investigation has been completed (GSI, September 25, 1992).
 - Ground-water contamination was delineated upon completion of the activities proposed in the work plan.
 - Field work, data evaluation, and reporting was completed on September 29, 1992.
- (3) Remediation System Design (Ground-water)
 - Ground-water remediation will only be required onsite.
 - A Remedial Action Plan (RAP) was submitted on September 27, 1992 detailing the design of the on-site ground-water remediation system.
- (4) Remediation System Permitting (Ground-water)
 - Modifications to design were required for permitting.
 - Planning/Building department approval was obtained on September 30, 1992.
 - Discharge permit approval was obtained on July 14, 1992. The permit was issued January 5, 1993.
- (5) Equipment Procurement (Ground-water)
 - No equipment modification due to agency/permitting requirements.
 - System equipment has been received.

GeoStrategies Inc.	REMEDIATION IMPLEMENTATION SCHEDULE ARCO Service Station #2112 1260 Park Street Alameda, California	PLATE
JOB NUMBER REVIEWED BY 7920-RTL	DATE REVISED DATE 1/92 1/93	

- (6) System Construction and Startup (Ground-water)
 - System construction was started on October 19, 1992.
 - System equipment installation is scheduled for completion on December 18, 1992.
 - Startup originally scheduled for February 1, 1993, and was performed on January 5, 1993.
- (7) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (8) Performance Evaluation (Ground-water)

-Will show system is operating as designed and does not require modification.

- (9) Remediation System Design (Soil)
 - Soil remediation will only be required on-site.
 - A RAP was prepared detailing the design of the on-site soil remediation system and was submitted September 27, 1992.
 - No revisions were required following agency review.
- (10) System Permitting (Soil)
 - No modifications to design required for permitting
 - BAAQMD permit was issued August 10, 1992.
 - Building/Planning department approval was obtained September 30, 1992.

GSI Geo	Strategies Inc.	REMEDIATION IMPLEME ARCO Service Station 1260 Park Street Alameda, California		PLATE
JOB NUMBER	REVIEWED BY	DATE	REVISED DATE	
7920-RTL		1/92	1/93	

- (11) Equipment Procurement (Soil)
 - No special equipment modification due to agency/permitting requirements.
 - System equipment has been received.
- (12) System Construction and Startup (Soil)
 - System construction was started on October 19, 1992.
 - System equipment installation is scheduled for completion on December 18, 1992.
 - Startup is scheduled for December 21, 1992.
- (13) System Operation and Maintenance (Soil)
 - One year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after one year.
- (14) Verification Soil Borings
 - Borings demonstrate soil cleanup has been achieved no further system operation.
- (15) Verification Monitoring
 - One year (four quarters) of monitoring water-levels and sampling.
 - Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.
- (16) Site Closure
 - Agency approval based on results of verification borings, monitoring and sampling.

GeoStrategies Inc.	REMEDIATION IMPLEMENTAT ARCO Service Station #21 1260 Park Street Alameda, California		PLATE
JOB NUMBER REVIEWED BY 7920-RTL	date 1/92	REVISED DATE	

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(1) Tank Replacement

- Tank replacement was completed in March 1992 (Roux report).
- All stockpiled soil was aerated and removed from the site during March 1992.

(2) Additional Soil Investigation

- Soil contamination is on-site only.
- Soil contamination is delineated by completion of the activities proposed in the work plan.
- Field work, data evaluation, and reporting of the soil investigation was completed on November 24, 1992.

(3) Ground-water Investigation

- The work plan for on-site assessment has been submitted to the Alameda County Health Agency.
- Field work, data evaluation, and reporting of the ground-water investigation phase was completed on November 24, 1992. Field work included installation of ground-water monitoring and extraction wells, vapor extraction wells, aquifer test and vapor extraction test.
- Additional work will be required off-site to complete ground-water delineation.
- A second work plan will be prepared for an off-site ground-water investigation.
- The second work plan will be approved by the Alameda County Health Agency within one month after submittal.
- Ground-water contamination will be delineated after completion of the activities proposed in the second work plan.
- It will take approximately four months to obtain a City of Oakland Public Works Agency Encroachment Permit.
- Field work, data evaluation, and reporting of the ground-water investigation phase will require approximately two months to complete after issuance of applicable permits.

GeoStrategies Inc.	REMEDIATION IMPLEM ARCO Service Station 889 West Grand Ave Oakland, California	n #2169	PLATE 2
JOB NUMBER REVIEWED BY 7927-RTL	DATE 1/92	REVISED DATE 12/92	

(4) Remediation System Design (Ground-water)

- The tank replacement project will be completed by March 1992.
- Ground-water remediation will only be required onsite.
- A Remedial Action Plan (RAP) will be prepared detailing the design of the on-site ground-water remediation system.
- The RAP will be approved by the Alameda County Health Agency within one month of submittal.
- No revisions will be required following agency review.
- (5) Remediation System Permitting (Ground-water)
 - No modifications to design required for permitting.
 - Planning/Building department approval within 120 days.
 - BAAQMD permit within 90 days.
 - Discharge permit approval within 90 days.
- (6) Equipment Procurement (Ground-water)
 - No equipment modification due to agency/permitting requirements.
 - Equipment available from manufacturers stock within six weeks.

GSI GeoSt	rategies Inc.	REMEDIATION IMPLEMENTATION ARCO Service Station #2169 889 West Grand Avenue Oakland, California	SCHEDULE	PLATE 3
JOB NUMBER 7927-RTL	REVIEWED BY	date 1/92	REVISED DATE 12/92	

(7) System Construction and Startup (Ground-water)

- No delays due to underground storage tank replacement.
- No delays from utility companies.
- No special dealer/property owner requirements.
- No unusual contractor delays.
- No unforeseen on-site conditions.
- No weather delays.
- This task includes bid process, bid evaluation, contract completion and system construction.
- (8) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (9) Performance Evaluation (Ground-water)

-Will show system is operating as designed and does not require modification.

- (10) Remediation System Design (Soil)
 - The tank replacement project will be completed by March 1992.
 - Soil remediation will only be required on-site only.
 - A RAP will be prepared detailing the design of the on-site soil remediation system.
 - The RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal.
 - Soil vapor extraction is a feasible remediation method.
 - No revisions due to agency review.

GSI Geo	Strategies Inc.	REMEDIATION IMPLEME ARCO Service Station 889 West Grand Aven Oakland, California	#2169	PLATE 4
JOB NUMBER 7927-RTL	REVIEWED BY	DATE 1/92	REVISED DATE 1/93	

(11) System Permitting (Soil)

- No modifications to system design required for permitting.
- BAAQMD approval within 120 days
- Building/Planning department approval within 120 days.
- (12) Equipment Procurement (Soil)
 - No special agency requirements.
 - Available from manufacturer stock within eight weeks.
- (13) System Construction and Startup (Soil)
 - No delays due to underground storage tank replacement.
 - No delays from utility companies.
 - No special dealer/property owner requirements.
 - No unusual contractor delays.
 - No unforeseen on-site conditions.
 - No weather delays.
- (14) System Operation and Maintenance (Soil)
 - One year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after one year.

GSI Geo	oStrategies Inc.	REMEDIATION IMPLEME ARCO Service Station 889 West Grand Aven Oakland, California	#2169	PLATE 5
job number 7927—RTL	REVIEWED BY	DATE 1/92	REVISED DATE	

- (15) Verification Borings
 - Borings demonstrate soil cleanup has been achieved no further system operation.

(16) Verification Monitoring

- One year (four quarters) of monitoring water-levels and sampling.
- Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.

(16) Site Closure

- Agency approval based on results of verification borings, monitoring and sampling.

GeoStrategies Inc.	REMEDIATION IMPLEMENTA ARCO Service Station #2 889 West Grand Avenue Oakland, California	169	PLATE 6
JOB NUMBER REVIEWED BY 7927-RTL	DATE 1/92	revised date 12/92	

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(1) Tank Replacement

- Tank replacement was completed in June 1992.
- All stockpiled soil was aerated and removed from the site in June 1992.

(2) Additional Soil Investigation

- Soil contamination is on-site only.
- Soil contamination was removed primarily during the tank replacement project.
- Field work, data evaluation, and reporting of the soil investigation was completed in October 1992.
- (3) Additional Ground-water Investigation
 - The work plan was prepared for the installation of one off-site monitoring well and two on-site recovery wells.
 - The work plan was approved by the Alameda County Health Care Services Agency within one month of submittal
 - Ground-water contamination was delineated upon completion of the activities proposed in the work plan.
 - City of Oakland Public Works Agency Encroachment Permit issued June 1, 1992.
 - Additional on-site recovery wells were installed June 15 and 16, 1992.
 - Field work, data evaluation, and reporting of the ground-water investigation phase was completed on November 13, 1992.
 - Field work was completed in June 1992.

GeoStrategies Inc.	REMEDIATION IMPLEMENTATIC ARCO Service Station #493 731 West MacArthur Boulev Oakland, California	
JOB NUMBER REVIEWED BY 7909-RTL	DATE 1/92	REVISED DATE

- (4) Remediation System Design (Ground-water)
 - Ground-water remediation will only be required onsite.
 - The already completed design will be approved by the Alameda County Health Care Services Agency within one month of submittal.
 - No revisions will be required following agency review.
- (5) System Permitting (Ground-water)
 - Discharge permit will be issued in 60 days.
 - BAAQMD permit will be issued in 60 days.
 - Planning/Building department approval will be issued in 120 days.
 - No modifications to design required for permitting.
- (6) Equipment Procurement (Ground-water)
 - No equipment modification due to agency/permitting requirements.
 - Equipment available from manufacturers stock within six weeks.

GeoStrategies Inc.	REMEDIATION IMPLEME ARCO Service Station 731 West MacArthur Oakland, California	#4931	PLATE 3
JOB NUMBER REVIEWED BY 7909-RTL	DATE 1/92	REVISED DATE 12/92	

- (7) System Construction and Startup (Ground-water)
 - The recovery system construction and installation was completed in November 1992.
 - Startup of the system was performed on November 13, 1992.
- (8) System Operation and Maintenance (Ground-water)
 - Five year operation of system to meet cleanup levels.
 - Regulatory approval of system shutdown after five years.
- (9) Performance Evaluation (Ground-water)

-Will show system is operating as designed and does not require modification.

- (10) Remediation System Design (Soil)
 - The tank replacement project was completed in June 1992.
 - Soil remediation was performed by overexcavation during the tank replacement project.
- (11) Verification Ground-water Monitoring
 - One year length.
 - Sampling demonstrates ground-water cleanup has been achieved. No further system operation required.
- (12) Site Closure
 - Agency approval based on results of verification borings, monitoring and sampling.

GeoStrategies Inc.	REMEDIATION IMPLEMENTATION S ARCO Service Station #4931 731 West MacArthur Boulevord Oakland, California	CHEDULE	PLATE
JOB NUMBER REVIEWED BY	date 1/92	revised date 12/92	

93 J. 6: 60

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,

Paraul Move

Kyle A. Christie Environmental Engineer

Attachments:

ARCO Facility QSRs

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	*****	*****	****	********	******	*****
UST LEAK	Date of Last				Current	
SITE UPDA	TE Review/Update:	10/1/92			Date:	1/4/93
	*****	****	*****	*****	*****	
SITE IDENT	TIFICATION					
Name:	ARCO Products Company #211;	2	Case No.:			
Address:	1260	Park Street				
	Street Number		Street			
	Alameda		94501			
	City		Zip Code	;		
	Alameda		Substance:	Gasoline		
	County					
Local Agency			partment of Env	vironmental H	<u>ealth</u>	
Regional Boa				<u></u>		
	****	*****	****	********	*****	*****
LEAD STAF	FF PERSON: <u>Susan Hugo</u>					
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CASE TYPE			<u> </u>			
Und	etermined Soil Onl					king Water
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	lo Action Taken			Date:		
	eak Being Confirmed			Date:		uary 1990
	Preliminary Site Assessment Workpla			Date:		nuary 1990
	reliminary Site Assessment Underward Pollution Characterization	iy		Date:		y 1990
	temediation Plan			Date:		tember 1992
	Remedial Action Underway			Date:		tember 1992
	ost Remedial Action Monitoring			Date: Date:		ember 1992
	Case Referred to Regional Board			Date: Date:		
	Case Referred to Dept. of Health Se	ruines		Date: Date:		
	case Closed	1 1 1000		Date: Date:		
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MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. In January 1992, four vapor extraction wells were installed on-site. One down-gradient, off-site monitoring well and one on-site recovery well was installed in June 1992. Refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

Fourth quarter, 1992 ground-water monitoring and sampling were performed. Issued Quarterly Monitoring Report documenting third quarter, 1992 sampling results. Completed construction and began operation of interim remedial system.

ANTICIPATED ACTIVITIES:

Quarterly ground-water monitoring and sampling will continue. Issue Quarterly Monitoring Report documenting fourth quarter, 1992 sampling results.

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REPORT	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	April 10, 1992	GeoStrategies Inc.
Aquifer Test/Vapor Well Installation Report	August 27, 1992	GeoStrategies Inc.
Interim Remedial Action Plan	August 27, 1992	GeoStrategies Inc.
Quarterly Monitoring/Well Installation Report	September 25, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	November 2, 1992	GeoStrategies Inc.

A RESNA Company



92 NOV -9 FH 2: 34

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

TRANSMITTAL

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

FROM: Joel Coffman TITLE: Project Geologist

WE ARE SENDING YOU:

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

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
[X] 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 Hiett, 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 Hiett 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.



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 biweekly 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



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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.



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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 startup 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 a 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



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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.



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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. GeoStrageties 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 GeoStrageties 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.



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. GeoStrageties 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



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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 extractions 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



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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.



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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 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 <u>may</u> 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.



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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.

man

Joel Coffman Project Geologist

cc:

Michael Whelan, ARCO Products Company Chris Winsor, ARCO Products Company John Meck, ARCO Legal Dept. John Jang, RWQCB Richard Hiett, RWQCB John Vargas, GeoStrategies October 12, 1992

92 007 11 PULL 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,

Pandor W. Mony for

Kyle A. Christie Environmental Engineer

Attachments:

ARCO Facility QSRs

agenqsr.ltr 50013-004-06

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UST LEAK	C Date of Last	Current
SITE UPD.	ATE Review/Update: 7/10/92	Date: 10/1/92
*****	************	<u></u>
SITE IDEN	TIFICATION	
Name: 🛛 🥖	ARCO Products Company #2112	Case No.:
Address: _	1260 Park Street	
	Street Number Street	
-	Alameda	94501
	City	Zip Code
	Alameda	Substance: Gasoline
	County	
Local Agen	acy: <u>Alameda County Health Agency</u> ,	Department of Environmental Health
Regional B	oard: San Francisco Bay Region	
	******	***********
LEAD STA	FF PERSON: <u>Susan Hugo</u>	
	***************************************	**************
CASE TYP	21	
Unde	termined Soil OnlyX Ground	l Water Drinking Water
51ATUS (I	Date indicates when case moved into statu	-
	No Action Taken	Date:
$\frac{x}{x}$	Leak Being Confirmed	Date: January 1990
<u> </u>	Preliminary Site Assessment Workplan Su	
$\frac{X}{X}$	Preliminary Site Assessment Underway	
<u> </u>	Pollution Characterization Remediation Plan	Date: <u>September 1992</u>
<u> </u>		Date: <u>September 1992</u>
	Remedial Action Underway	Date:
<u></u>	Post Remedial Action Monitoring	Date:
<u></u>	Case Referred to Regional Board	Date:
	Case Referred to Dept. of Health Service	
*****	Case Closed ************************************	Date:
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MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. In January 1992, four vapor extraction wells were installed on-site. One down-gradient, off-site monitoring well and one on-site recovery well was installed in June 1992. Refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

Third quarter, 1992 ground-water monitoring and sampling were performed. Issued a Quarterly Monitoring/Well Installation Report presenting second quarter, 1992 sampling and well installation results. Issued a Remedial Action Plan. Issued a report documenting the installation of four additional vapor extraction wells and aquifer test. Released remedial system construction for bidding. Awarded remedial system contruction contract.

ANTICIPATED ACTIVITIES:

Quarterly ground-water monitoring and sampling will continue. Issue Quarterly Monitoring Report documenting third 1992 quarter, sampling results. Begin construction of the remedial system.

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REPORT	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/ Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.
Quarterly Monitoring Report	April 10, 1992	GeoStrategies Inc.
Aquifer Test/Vapor Well Installation Report	August 27, 1992	GeoStrategies Inc.
Interim Remedial Action Plan	August 27, 1992	GeoStrategies Inc.
Quarterly Monitoring/Well Installation Report	September 25, 1992	GeoStrategies Inc.





92 SEP 25 MIND: 47

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

> 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 Hiett 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 Hiett, RWQCB John Vargas, GeoStrategies

ARCO Station ACHCSA Staff <u>RWQCB Staff</u> Cnsltnt Richard Hiett # 276. Barney Chan RESNA 10600 MacArthur Blvd. # 2035. Barney Chan Richard Hiett RESNA 1001 San Pablo, Albany 00 - 10:30 # 2107, Barney Chan Richard Hiett RESNA 3310 Park Blvd. Richard Hiett Barney Chan RESNA # 2185. 9800 E. 14th St. # 4494. Barney Chan Richard Hiett RESNA 566 Hegenberger Rd. # 374, Susan Hugo **Richard Hiett** RESNA 6407 Telegraph Ave. Susan Hugo Richard Hiett G/Ryan # 2112. 1260 Park St., Alameda **Richard Hiett** G/Ryan Susan Hugo # 2169. 899 W. Grand Ave.

Proposed Agenda for September 30, 1992 ACHCSA Meeting

30 - 12:00 Richard Hiett G/Ryan # 4931, Susan Hugo 731 W. MacArthur Susan Hugo **Richard Hiett** RESNA # 6148. 5131 Shattuck Ave. RESNA Scott Seery **Richard Hiett** # 6041. 7249 Village Pkwy, Dublin **Richard Hiett** RESNA # 2152, 22141 Ctr. St., Scott Seery Castro Valley 1:00 - 3:00 # 601, 712 Lewelling Bd., Scott Seery John Jang RESNA San Leandro

4/23/92 Non moore (Seacon) Called OK updates of arco

April 13, 1992

92 APR 14 71 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,

Parsen Mon

Kyle A. Christie Environmental Engineer

Attachments:

ARCO Facility QSRs

A:\arcoqsrs\consmrg.ltr 50013-004-06



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. 2112 1260 Park Street Alameda, California 94501

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 the month of June, 1992.

ROUL

Status of Previous Month's Activities:

- * Completed design and equipment selection for the proposed remedial system.
- * Prepared Remedial Action Plan.

Anticipated Work to be Performed in the Next Month:

- * Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- * Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.
- * Secure encroachment permits from the City of Alameda for the proposed off-site recovery well and monitoring well.
- * Apply for POTW permit for water discharge from the proposed groundwater treatment system.
- * Apply for an air discharge permit from the Bay Area Air Quality Management District for the proposed vapor extraction system.
- * Issue draft Remedial Action Plan to ARCO.

	CARLES AND
GeoStrategies Inc 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545	CLAINY COLUMN
May 21, 1992	01-0090 1.
ARCO Products Comp P.O. Box 5811 San Mateo, California	pany
Attention: Mr	r. Michael Whelan
AL	onthly Site Status Update RCO Service Station No. 2112

Alameda, California 94501

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 the month of May, 1992.

Status of Previous Month's Activities:

* Issued Quarterly Monitoring Report for the first quarter, 1992 to ARCO, ACHA, and RWQCB.

Anticipated Work to be Performed in the Next Month:

- * Ground-water sampling and monitoring for the second quarter, 1992 will be performed.
- * Issue Aquifer Test/Well Installation Report to ARCO, ACHA, and RWQCB.

Please call if you have any questions concerning this letter.

Sincerely. John F. Vargas Senior Geologist \mathcal{V}

JFV:rcm

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

(510) 352-4800



GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

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. 0414 3000 Shattuck Ave./Ashby Berkeley, California 94705

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 the month of May 1992.

Status of Previous Month's Activities:

* Ground-water sampling and monitoring for the first quarter, 1992 was performed.

Anticipated Work to be Performed in the Next Month:

* Issue draft Quarterly Monitroing Report for the first quarter, 1992 to ARCO.

Please call if you have any questions concerning this letter.

Sincerely, John F. Vargaš

Senior Geologist

JFV:rcm

cc: Mr. Mohammed Janjua, City of Berkeley, Department of Environmental Health and Human Services. (certified mail) Mr. Eddy So, RWQCB, San Francisco Bay Region.

(510) 352-4800



GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

May 21, 1992

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

Attention:

Mr. Michael Whelan

Reference:

Monthly Site Status Update Former Thrifty Oil Company Site ARCO Service Station No. 5387 20200 Hesperian Blvd. Hayward, California 94541

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 the month of May, 1992.

Status of Previous Month's Activities:

* Issued draft Quarterly Monitoring Report for the first quarter, 1992 to ARCO.

Anticipated Work to be Performed in the Next Month:

* Issue Quarterly Monitoring Report for the first quarter, 1992 to ARCO, ACHA, and RWQCB.

Please call if you have any questions concerning this letter.

Sincerely,

Íohn F. Vargas Senior Geologist

JFV:rcm

cc: Ms. Pamela Evans, Alameda County Health Agency, Department of Environmental Health (Certified Mail) Mr. Eddy So, RWQCB, San Francisco Bay Region. GSI

GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

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.

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



GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

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. 4931 731 West MacArthur Boulevard Oakland, California 94611

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 the month of May, 1992.

Status of Previous Month's Activities:

- * Continuing tank replacement project.
- * Recieved an amendment to building permit for the demolition of on-site restroom building.
- * Recieved conditional approval of groundwater discharge permit (POTW) final approval is on hold pending initial start-up of remedial system.
- * Applied for encroachment permits with the City of Oakland for the proposed up-gradient monitoring well on MacArthur Boulevard.

Anticipated Work to be Performed in the Next Month:

- * Issue Vapor Extraction Test Report to ARCO, ACHA, and RWQCB.
- * Ground-water sampling and monitoring will be performed for the second quarter, 1992.
- * Completion of tank replacement project.
- * Secure encroachment permit from the City of Oakland.
- * Installation of three on-site ground-water recovery wells and one off-site, up-gradient monitoring well.



ARCO Products Company May 21, 1992 Page 2

- Installation of E-Z Horner product skimmer in Well A-8 to recover ∗ floating product.
- Initiate construction of the remediation system trenching. ≭

Please call if you have any questions concerning this letter.

Sincerely,

C. Malloy John F. Vargas FOR

Senior Geologist

JFV:rcm

Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (Certified Mail). cc: Mr. Eddy So, RWQCB - San Fancisco Bay Region

****	******	******	*****	*******	*****
UST LEA	K	Date of Last			Current
SITE UPI	DATE	Review/Update: 1/2	10/92		Date: _4/10/92
****	*****	*****	*****	*******	******
SITE IDE	NTIFI	CATION			
Name:	ARCO	Products Company	#2112		Case No.:
Address:		1260	Park Street	<u> </u>	
		Street Number	Street		
		Alameda		94501	
		City			Zip Code
		Alameda		Subst	
		County			
Local Age	ency:	<u>Alameda County I</u>	<u>Health Agency, D</u>	epartm	ent of Environmental Health
Regional	Board:	<u>San Francisco Bay</u>	Region	-	
*****	******	******	*****	******	*****
LEAD ST	AFF P	ERSON: <u>Susan Hugo</u>)		
*****		*******	*****	*****	******
CASE TY					
Und	letermi	ned Soil Only	<u>X</u> Ground	Water	Drinking Water

STATUS		ndicates when case n	noved into status))	
		Action Taken		Date:	
<u> </u>		Being Confirmed		Date:	<u>Janurary 1990</u>
<u> </u>	Prel	iminary Site Assessm	ent Workplan Sul	omitted	Date: Janurary 1990
<u>X</u>		iminary Site Assessm		Date:	<u>July 1990</u>
.		ution Characterizatio	n	Date:	
		ediation Plan		Date:	
		edial Action Underw		Date:	
		Remedial Action Mo		Date:	
		Referred to Regiona		Date:	
		Referred to Dept. of	f Health Services		Date:
		Closed		Date:	
****	******	*******	******	*****	********

MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. In September 1991, four monitoring wells, one recovery well, and three vapor extraction wells were installed on-site. In October 1991, A vapor extraction pilot test was performed. In December 1991, a 4 hour step/24 hour constant-rate aquifer test was performed. Please refer to the attached page for a chronological listing of reports issued for this site.

Four extraction wells were installed vapor on-site in January. Quarterly ground-water monitoring and sampling were performed. Issued report documenting the installation of four monitoring wells, three vapor extraction wells, one ground-water recovery well and the results of a vapor extraction test.

ANTICIPATED ACTIVITIES:

Quarterly monitoring and sampling will proceed on schedule. Issue a Remedial Action Plan and reports documenting the above mentioned activities.

SS #2112

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REPORT	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.
Continuing Site Assessment/Quarterly Monitoring Report	January 27, 1992	GeoStrategies Inc.

Noted E. Y. SO.

MAR 5 1992

GSI	GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545	(510) 352-4800
	February 28, 1992	
	CITURNA CITAR CALL	
	ARCO Products Company P.O. Box 5811 San Mateo, California 94402 Attention: Mr. Charles Carmel Reference: Monthly Site Status Update ARCO Service Station 2112	
	1260 Park Street Alameda, California 94501	
	Mr. Carmel:	
	This letter provides an update on activities for the site above. This update reports site activities performed during th February, 1992 and site activities anticipated for the month	e month of

Status of Previous Month's Activities:

* Quarterly Monitoring/Sampling was performed.

Anticipated Work to be Performed in the Next Month:

* Final report presenting the results of the Aquifer test and four additional vapor extraction wells forthcoming.

Please call if you have any questions concerning this letter.

Sincerely,

1992.

John F. Vargas

JFV:rcm

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail) Mr. Eddy So, RWQCB, San Francisco Bay Region January 14, 1992

92 JAN 15 PH 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,

Kyle A. Christie

Environmental Engineer

Attachments:

ARCO Facility QSRs

A:\arcoqsrs\consmrg.ltr 50013-004-06

*************	********
UST LEAK Date of Last	Current
SITE UPDATE Review/Update: <u>8/26/91</u>	Data: 1/10/00

SITE IDENTIFICATION	
Name: Arco Products Company #2112	Case No.:
Address: 1260 Park Street	
Street Number Stree	t
<u>Alameda</u>	<u>94</u> 501
City	Zip Code
Alameda	Substance: Gasoline
County	
Local Agency: <u>Alameda County Public Health</u>	
Regional Board: <u>San Francisco Bay Region</u>	
Regional Board: San Francisco Bay Region	
LEAD STAFF PERSON: Tom Leavitt	

Undetermined Soil Only <u>X</u> Groun	d Water Drinking Water
STATUS (Date indicates when case moved into statu No Action Taken	
<u>X</u> Leak Being Confirmed	Date:
X Preliminary Site Assessment Workplan S	Date: <u>Janurary 1990</u>
	ubmitted Date: Janurary 1990
<u>X</u> Preliminary Site Assessment Underway Pollution Characterization	
Remediation Plan	Date:
Remedial Action Underway	Date:
Post Remedial Action Monitoring	Date:
Case Referred to Regional Board	Date:
Case Referred to Dept. of Health Servic	es Date:
Case Closed	Date:

MIL ECTONICA.	

MILESTONES:

The waste oil tank was removed in May, 1987 and the underground storage tanks were replaced in August, 1990. Please refer to the attached page for a chronological listing of reports issued for this site.

RECENT ACTIVITIES/FINDINGS:

Four groundwater monitoring wells, seven vapor extraction wells, and one groundwater recovery well were installed in September and Jaurary 1991. A vapor extraction pilot test and a 4 hour step/24 hour constant-rate test have been peformed at this site.

ANTICIPATED ACTIVITIES:

Quarterly monitoring and sampling will proceed on schedule. Issue reports documenting the above mentioned activities.

SS #2112

REPORT	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.
Trench Excavation/Soil Aeration Report	May 3, 1991	GeoStrategies Inc.

(510) 352-4800

GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

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 2112 1260 Park Street Alameda, California 94501

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 the month of February, 1992.

Status of Previous Month's Activities:

December 18, 1991: Performed 4-hour Step/24-hour Constant-rate Aquifer test utilizing groundwater recovery well AR-1.

January 2, 1992: Installed four additonal vapor extraction wells on-site.

Issued final Continuing Site Assessment/Quarterly January 28, 1992: Monitoring report.

Anticipated Work to be Performed in the Next Month:

* Final report presenting the results of the above mentioned Aquifer test and four additional vapor extraction wells forthcoming.

Please call if you have any questions concerning this letter.

Sincerely.

John F. Vargas

JFV/td1

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)

(510) 352-4800

GeoStrategies Inc. 2140 WEST WINTON AVENUE HAYWARD, CALIFORNIA 94545

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 2112 1260 Park Street Alameda, California 94501

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 the month of December, 1991.

Status of Previous Month's Activities:

* November 19, 1991: Draft report sent to ARCO presenting the results of the installation of four groundwater monitoring wells, Three vapor extraction wells, and one groundwater recovery well. This report also includes the results of a soil vapor extraction pilot test.

Anticipated Work to be Performed in the Next Month:

* Final report presenting the above mentioned work forthcoming

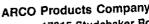
Please call if you have any questions concerning this letter.

Sincerely,

John F. Vargas

JFV/tdl

cc: Ms. Susan Hugo, Alameda County Health Agency, Department of Environmental Health (certified mail)



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

Mailing Address: Box 6411 Artesia, California 90702-6411



91 OCT 31 2311:27

October 29, 1991

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

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	Arco Facility #6002
566 Hegenberger Rd.	6235 Seminary Ave.
Oakland	Oakland

APPC-7076-B (7-88)

ARCO Products Company is a Division of AtlanticRichfieldCompany

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,

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

Attachment

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

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STATE: CALIFORNIA COUNTY: ALAMEDA

		•••••					
		ADDRESS	CITY/STATE		ZIP	CROSS STREET	PHONE
FAC	DEALER	10600 MACARTHUR BLVD	DAKLAND	CA	94605	10TH AVE/MACARTHUR B	415-635-4641
00276	DAI VAN VO	-	OAKLAND	CA.	94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00374	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU				3RD ST/S LIVERMORE A	415-449-1448
00498	REGION OPERATION 5157	286 SO LIVERMORE AVE	LIVERMORE	CA	94550		
00608	JAIME & LEONORA ABADAM S	17601 HESPERIAN BLVD 899 RINCON AVENUE	SAN LORENZO LIVERMORE	CA CA	94580 94550	HACIENDA/HESPERIAN B PINE/RINCON AVE	415-278-2977 415-447-1329
02035	RAHMAN FARSI/MAJID GHANADAN	1001 SAN PABLO AVENU 3310 Park Blvd.	ALBANY OAKLAND	CA CA	94706 94610	MARIN/SAN PABLO AVE Macarthur/Park Blvd	415-525-1362 415-532-1716
02107	PRITINDER ARORA		ALAMEDA	CA	94501	ENCINAL/PARK ST	415-865-7335
02112	JAVAD ROOSHAN 5 gr V	1260 PARK STREET		CA		GROVE/CENTER ST	415-581-1268
02152	JAMES A WALKER	22141 CENTER ST.	CASTRO VALLEY	LA	74340	OROVE, CENTER OF	
02169 02185	RAMESH SOOD B J A INC	889 W GRAND AVE 9800 E 14TH ST	OAKLAND OAKLAND	CA CA	94607 94603 94605	MARKET/W GRAND AVE 98TH/E 14TH EDES/HEGENBERGER RD	415-465-4450 415-568-0590 415-569-7561
04494	KHALTEN ROOSHAN 2 WV	566 HEGENBERGER RD. 731 W MACARTHUR BLVD	OAKLAND OAKLAND	CA CA	94611	WEST/W MACARTHUR BLV	415-658-5000
04931 04977	VINTNERS DISTRIBUTORS INC MICHAEL SERDY	2770 CASTRO VALLEY R		CA	94546	WISTERIA/CASTRO VALL	413-362 0717
06002 06041 06113 06148	RONALD E TEUTSCH PRESTIGE STATIONS INC 5158	6235 SEMINARY AVENUE 7249 VILLAGE PARKWAY 785 E STANLEY BLVD 5131 SHATTUCK AVE.	OAKLAND DUBLIN LIVERMORE OAKLAND	CA CA CA CA	94566 94550	AMADOR/VILLAGE PKWT MURRIETTA/E STANLEY	415-633-1042 415-828-3163 415-449-2024 415-654-3461

--- -- --

ARCO PRODUCTS COMPANY FACILITY LIST - LOS ANGELES REGION By State County 10/24/1991, 09:20 AM

STATE: CALIFORNIA COUNTY: ALAMEDA

					ZIP	CROSS	PHONE
FAC	DEALER		CITY/STATE	CA	94605	10TH AVE/MACARTHUR B	415-635-4641
	DAI VAN VO	10600 MACARTHUR BLVD	OAKLAND		94609	ALCATRAZ AVE/TELEGRA	415-658-7508
00276	SANTOSH KUMAR SUD	6407 TELEGRAPH AVENU	DAKLAND	CA		3RD ST/S LIVERMORE A	415-449-1448
00374		286 SO LIVERMORE AVE	LIVERMORE	CA	94550		415-278-2977
00498	REGION OPERATION 5157	17601 HESPERIAN BLVD	SAN LORENZO	CA CA	94580 94550	HACIENDA/HESPERIAN B PINE/RINCON AVE	415-447-1329
00608 00771	JAIME & LEONORA ABADAM Syrv JERRY SHIELDS	899 RINCON AVENUE	LIVERMORE	CA	94706	MARIN/SAN PABLO AVE MACARTHUR/PARK BLVD	415-525-1362 415-532-1716
02035 02107	RAHMAN FARSI/MAJID GHANADAN PRITINDER ARORA	1001 SAN PABLO AVENU 3310 Park Blvd.	OAKLAND	CA CA	94610 94501	ENCINAL/PARK ST	415-865-7335
02107	JAVAD ROOSHAN 5m	1260 PARK STREET	ALAMEDA	CA			415-581-1268
02152		22141 CENTER ST.	CASTRO VALLEY	CA	94607	MARKET/W GRAND AVE	415-465-4450 415-568-0590
02169 02185	RAMESH SOOD B J A INC	889 W GRAND AVE 9800 E 14TH ST 566 Hegenberger RD.	OAKLAND OAKLAND OAKLAND	CA CA CA	94603 94605	EDESTHEGENDEROLR ND	415-569-7561
04494 04931	VINTNERS DISTRIBUTORS INC	731 W MACARTHUR BLVD 2770 CASTRO VALLEY R	OAKLAND CASTRO VALLEY	či			
04977	Fu	6235 SEMINARY AVENUL	OAKLAND	C	A 94560	AMADOR/VILLAGE FRAME	
0600 0604 0611 0614	RONALD E TEUTSCH () RONALD E TEUTSCH () PRESTIGE STATIONS INC 5158	7249 VILLAGE PARKWA 785 E STANLEY BLVD 5131 SHATTUCK AVE.	TUBLIN LIVERMORE OAKLAND	Č		MURRIETTAZE STANLEY 9 52ND/SHATTUCK	415-654-3461

17

ARCO Products Compa 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:

high Char

Kyle A. Christie Environmental Engineer

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,

your & Ritchioffor

Kyle A. Christie Environmental Engineer

Attachments: ARCO Facility QSRs

. ALAMEDA COUNTY HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

AGENCY

September 13, 1991

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

Mr. Frank Wells ARCO Products Company P.O. Box 6411 Artesia, CA 90702-6411

RE: Inspection Reports on ARCO Facilities

Dear Mr. Wells:

Per ARCO's request, the Alameda County Department of Environmental Health, Hazardous Materials Division is forwarding copies of reports generated from inspection of ARCO facilities by this office. These enclosures include inspection reports for August, 1991.

Copies of the generator, Hazardous Materials Management Plan and underground storage tank inspection reports that representatives from this office routinely leave with the dealer/operator at the site will be forwarded to ARCO on a monthly basis.

Please contact me at (510) 271-4320 if you have any questions concerning this letter.

Sincerely,

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Susan L. Hugo Hazardous Materials Specialist

enclosures

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health Howard Hatayama, State Department of Health Services Lester Feldman, San Francisco Bay RWQCB Mark Thompson, Alameda County District Attorney's Office /Files

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5. Inventory Complete

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15. Probable Risk Assessment

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11. Form Complete

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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

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Signature:

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

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

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

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September 11, 1991

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

RE: ARCO Service Station #2112 -- 1260 Park Street, Alameda, California

Dear Ms. Hugo:

This letter is submitted in response to your letter of August 29, 1991 concerning remediation activities at this gasoline service station.

It is clear from the recent exchange of correspondence between ARCO and the Alameda County Health Care Services, Department of Environmental Health that there is some confusion and misunderstanding about what information has been provided to the County by ARCO concerning the removal of underground storage tanks and contaminated soil at this facility and the remediation of soil and groundwater. For ARCO's part, I apologize if we are responsible for any of this confusion.

Our review of the files on this facility, which are described in detail below, indicates that ARCO has attempted to provide all of the information requested by the County in a timely fashion and in accordance with all appropriate regulatory requirements. I trust that this letter and the attached information will end any confusion concerning ARCO's activities at this facility and that we will be able to move ahead quickly with the task of remediating any remaining contamination.

As a starting point, I would like to point out that as the recent exchange of correspondence demonstrates, ARCO had provided to the County by April 1991 all the information requested or needed to approve the proposed Workplan prepared by GeoStrategies, Inc., dated January 2, 1991 (see Attachment 1). The requested information was provided to Ms. Katherine Chesick orally in April of this year and in written form in May. Our position, which has not changed, is that we were prepared in January 1991 to implement the Workplan but did not do so because the County had not yet reviewed the Workplan.

Listed below, with reference to the numbered sections of your August 29 letter, is ARCO's response to the specific issues which you have raised:

1. <u>Chronology</u>

In your August 29 letter, you state that the "Summary of communication" at page 1, paragraph 3, of my letter of August 26, 1991 is "accurate." By this, I take it to mean that you agree that Kyle Christie of ARCO informed Ms. Katherine Chesick of the County in early April 1991 that no changes to the proposed Workplan were anticipated and that ARCO was prepared to begin to implement the Workplan as soon as the County approved it.

Let me take this opportunity to summarize the chronology of the events that occurred thereafter. At Ms. Chesick's request, ARCO provided the County with the Trench Excavation/Soil Aeration Report prepared by GeoStrategies, Inc., dated May 3, 1991 (see Attachment 2) describing the soil samples taken from the piping excavation on the north side of the facility. As stated in my August 26 letter, Ms. Chesick contacted Keith Bullock of Gettler-Ryan, the contractor for site remediation work at the facility, on May 20, 1991 and informed him that the Workplan had not yet been On June 17, 1991, Mr. Bullock spoke with Mr. Lowell reviewed. Miller at the County and asked him who was responsible for approving the Workplan. Mr. Miller indicated that he was not certain of the individual to whom the project was assigned and said that he would call Mr. Bullock back to let him know. On August 5, 1991, Mr. Bullock spoke with you and asked if the Workplan had been approved. You informed him that you had recently sent out a letter on this site.

As of early April 1991, approximately five months ago, ARCO informed the County that no changes to the Workplan were anticipated and, as a result, was awaiting the County's approval to begin the Workplan's implementation. The additional information you have now requested in your letters of August 3 and 29, 1991 was not brought to ARCO's attention until those letters were received and ARCO was unaware that additional information would be so requested.

2. <u>1987 Removal of Waste Oil Tank and Associated</u> <u>Contaminated Soil</u>

In your letter of August 29, you indicate that information on the method and location of disposal of any hazardous substances and any contaminated soils at the Station was not provided to the County by ARCO until August 26, 1991. This statement is not accurate.

The method and location of disposal of any tanks, piping and contaminated soils excavated in 1990 and 1991 are described in the November 7, 1990 GeoStrategies, Inc., Report (see Attachment 3) and in the May 1991 Report. The 550 gallon waste oil tank removed in May 1987, as described in my letter of August 26, 1991, was properly disposed of as was the associated contaminated soil. I have provided you with the manifest forms for this disposal as well as the name of the scrap metal company which received the waste oil tank. The information on the removal of this tank and the associated soil was provided to the County at the time of removal and subsequently in 1989.

On June 8, 1987, Ellen Cianciaruli of ARCO wrote Ted Gerow at the County enclosing the soil sample test results from the excavation of the waste oil tank at the Station (see Attachment 4). In that letter, she stated:

> "All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand."

Subsequently, on September 28, 1987, Mr. S. Hetznecker of Brown & Caldwell, ARCO's contractor for the facility at that time, spoke by telephone with Mr. Ted Gerow of the Department (see Attachment 5). His notes of that conversation are as follows:

> "According to information in the County file, specifically a letter dated June 16, 1987 from Ellen Cianiaruli of ARCO, says that the "dirty" soil was excavated and removed, an analysis shows the hole was excavated to cleanliness. Mr. Gerow says everything looks OK as far as the County goes. No further action at this point. His only question is: Will the site remain a service station?"

Clearly, the County had given its approval on the excavation and the information submitted. Subsequently, certain of these documents must have been misplaced by the County because on November 14, 1989, Greg Barclay, Project Branch Manager at Applied GeoStrategies, Inc. wrote to Mr. Ariu Levi at the County and provided the County with another set of the laboratory reports for the soil samples collected at the site in May 1987, another copy of the letter from Ms. Cianciaruli and a copy of the record of telephone conversation between Mr. Hetznecker and Mr. Gerow (see Attachment 6). Mr. Barclay asked Mr. Levi to call if he could be of any further assistance in this matter. No request for further information or documentation was made by the County. Since the waste oil tank was pulled more than four years ago, there has not been any question as to whether the tank and associated contaminated soil were properly disposed of.

3. <u>Piping and Aeration</u>

You state in your August 29 letter that ARCO had not previously informed you, prior to my letter of August 26, 1991, that all piping at the facility had been removed. This is incorrect. The piping was removed in two stages. The first stage was described in the November 1990 Report. Plate 4 to that Report shows the location of the first stage of piping that was removed from the vicinity of the facility pump islands. Page 8 of that Report states:

> "After aerated soils have been removed from the site, the remaining product piping on the north side of the site will be removed."

The May 1991 Report which describes the removal of the remaining piping from the north side of the facility states at page 2:

"Trenches were excavated to expose and remove existing fuel product lines."

These "existing fuel product lines" are shown in Plate 3 of the May 1991 Report. These reports, when read together, state that all the original piping was removed.

Your August 29 letter thanks ARCO for stating that no excavated soils were replaced in the ground. This point had been previously disclosed in the November 1990 and May 1991 Reports which state that excavated soil from the trenches was first stockpiled and sampled. Upon receipt of the chemical analyses, stockpiled soils were removed and transported to an appropriate disposal facility (November 1990 Report pp. 2-3; May 1991 Report pp. 3-4).

You next state that in your August 29 letter you have been "advised" that the BAAQMD was not notified twenty-four hours before the commencement of aeration of the excavated soil. To the contrary, Gettler-Ryan Inc., ARCO's consultant, provided notice to the District on August 9, 1990, twenty-four hours prior to the commencement of aeration pursuant to District Rule 8-40-403. Attachment 7 is a copy of Gettler's telephone log for August 9, 1990 indicating that such notice was made and a "Rapid Memo" to the Project File on the same subject. Further, the November 1990 Report, at page 3, states that the soils on site were aerated in compliance with District guidelines. No soils were aerated in connection with the removal of piping at the north side of the facility, as described in the May 1991 Report.

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4. <u>Hazardous Waste Manifests</u>

ARCO has provided you with copies of the hazardous waste manifests for any tanks and associated contaminated soil removed from the facility. However, that Section 2652 of Title 23 of the California Code of Regulations does not require that hazardous waste manifests be submitted to the local agency. Section 2652(c)(4) merely requires an indication as to "whether a hazardous waste manifest[s] is utilized."

With regard to Condition No. 22 of the "closure permit," that ARCO supply the manifests within 60 days of receipt of sample results, I assume you are referring to the Underground Tank Closure/Modification Plan (see Attachment 8). You are correct that Section 22(c) of the Plan requests that ARCO forward to your office "TSD to Generator copies of wastes shipped and received." The manifests which were provided to you as an attachment to my August 26 letter confirmed that the hauler used to transport the contaminated soil from the facility was the hauler described in the Plan. I very much appreciate your courtesy in pointing out to me any additional information that ARCO needs to provide to the County. I mistakenly had thought that, based on your August 3 letter, you required these manifests to be submitted before you could review the Workplan.

5. <u>Adequacy of Proposed Workplan</u>

In your August 3 letter, you state that the Workplan submitted by ARCO is not "adequate" to fully define the extent of soil and groundwater contamination. In my letter to you of August 26, I explained that the Workplan proposes to include the installation of five onsite groundwater wells, three onsite vapor extraction wells and the performance of a vapor extraction test. Following the initial onsite groundwater monitoring, offsite wells may be installed if necessary to determine the extent of any dissolved contaminants. This assessment process is in keeping with the LUFT Manual (October 1989), as described in Section 7. below.

6. <u>Purpose of Proposed Workplan</u>

As the Workplan states, and as described in Section 5. above, its purpose is "to address the locations of known soil contamination" and "to provide groundwater-quality and potentiometric data for evaluating shallow ground-water flow direction and gradient." It is only after these data are generated that ARCO will be able to address many of the issues you have raised.

I now understand, based on your August 29 letter, that the proposed Workplan is approved subject to the conditions detailed on the last page of that letter, i.e., that the issues discussed on the bottom of page 2 and on pages 3 and 4 of your August 3 letter be addressed in the development of a remediation plan.

As I mentioned above, I mistakenly believed that you required further information from ARCO in order to complete your review and approval of the Workplan. Now that we have confirmed that no further information was required, we will commence implementation of the Workplan.

7. <u>Timing of Remediation</u>

You describe as a "general rule" in your August 29 letter that site work in the form of assessment and remediation is to be implemented only after a workplan has been approved by the County. Your letter goes on to state, however, that if there is free product or dissolved product in the groundwater, ARCO "can and must" commence remedial action while it is in the process of obtaining approval from the County of its workplans.

I am uncertain as to the circumstances when this "exception" would apply. If you mean that ARCO must initiate remedial action prior to assessment or even approval of a workplan in <u>all</u> cases where there is any free product or dissolved product in the groundwater, then this exception is contrary to regulatory guidelines, practical limitations and good engineering practice.

To begin with, each site must be evaluated on a case-by-The LUFT Manual describes a "phased approach" to the case basis. investigation and cleanup of leaking underground fuel tank which is "tailored to the severity of each specific site" (LUFT Manual p. 9). The procedures set forth in the Manual "are intended to p. 9). avoid unwarranted analysis while ensuring that adequate analysis is done to identify the extent of contamination problems" (LUFT Manual An objective of the LUFT Manual is thus to prevent р. 2). duplicative efforts that might result from proceeding with remediation without agency approval. Similarly, the Tri-Regional Recommendations anticipate that there will be a soil and groundwater investigation prior to remediation (p. 15 fig. 1).

The LUFT Manual goes on to state that the "cleanup of all contaminated soil and dissolved product in ground water is not always necessary to protect public health and the environment." (LUFT Manual p. 1). In some cases, free product or dissolved product will be left in place with a groundwater monitoring program to ensure the effectiveness of the remedial action (LUFT Manual p. 61). Surely, if the LUFT Manual contemplates that dissolved product or free product may be left in place, ARCO cannot be under an affirmative obligation to remove all free and dissolved product prior to approval of both its assessment and remediation plan.

There are additional reasons for obtaining local agency review before commencing remediation. Closure of an individual

site and that site's removal from the LUST computer file can only be granted by the State's Regional Water Quality Control Board (RWQCB). The RWQCB issues the closure decision based on the recommendations from the local agency. At "Category 3 sites" where there is known or suspected groundwater pollution or areas with shallow groundwater, as there is at this facility, the LUFT Manual requires consultation with the Regional Water Quality Control Board and responsible agencies "to determine required remedial action" (LUFT Manual p. 60). If the lead agency is not the Regional Board and the groundwater is threatened or affected, then the lead agency must consult with the appropriate Regional Board to ensure that the anticipated remedial action is consistent with the applicable water quality control plans and policies (LUFT Manual p. 60). It would / be entirely inappropriate to proceed with remediation until receiving this consistency determination from the appropriate agency.

If the contamination presents an immediate threat to human health or safety, action should and will be taken by the operator. The LUFT Manual states that questions regarding "site health and safety hazards" should be asked and answered in the earliest stages of problem identification (LUFT Manual p. 12-13). If they exist, sources of possible hazardous vapor should be identified and eliminated. Similarly, the American Petroleum Institute Guide to the Assessment and Remediation of Underground Petroleum Releases, August 1989, also states that the "first step" in any site assessment of a petroleum release is to ascertain the immediate safety hazards (API Guide at p. 1). If there is a known release, the API Guide recommends that it be stopped and the hazards be mitigated (Figure 1 and Figure 17).

There are, of course, technical limitations to what can be accomplished at any given site in terms of immediate remediation where even a safety threat is present. As the API Guide points out, the "feasibility of liquid hydrocarbon removal is site specific and a function of the earth materials, hydrocarbon characteristics, and equipment limitations. In general, only part of the total original release volume is recoverable as a free liquid. Most skimming pumps require the accumulation of at least 1/8 inch of hydrocarbon in the well before they will operate" (API Guide pp. 41-43).

Remediation activities at a site are also technically complex and expensive. Engineering remedial systems without obtaining the proper amount of background information can lead to a wasted remedial approach and can actually make the problem worse by mixing distinct constituents, puncturing an aquifer or by altering the groundwater gradient. These examples are self evident and can only be avoided by sound engineering. Without aquifer testing, site hydrogeologic characteristics will not be easily understood and can waste our recovery efforts for both the dissolved constituents and floating product. Pumping rates, aquifer transmissivity, area of influence need to be addressed so that the optimum recovery criteria can be reached. By over pumping an aquifer, additional geology can be affected which only increases the total impact to the site. Product only recovery systems (without groundwater extraction) can mask recovery efforts by capturing floating product very close to the individual recovery well. After the minor amount of floating product is captured, groundwater has a rebounding effect. By removing the weight of the floating product, groundwater equalizes (rebounds) with the release of the hydrostatic head and can push away the product surrounding the recovery well. Thus, product only recovery techniques can create the appearance of remediation without substantial results.

Many remediation activities, such as pumping groundwater or aeration, require the notification of other agencies, and in some cases the acquisition of waste discharge, air quality and other permits. These permits may not be available without agency approval of the contemplated remediation. In instances where there is a mixture of water and petroleum, there will almost certainly be delays associated with obtaining air quality and water discharge permits as well as practical problems associated with what to do with the water which is removed. Access to neighboring properties and city streets is often time-consuming. Remediation cannot be commenced without obtaining the appropriate governmental permits and access to private property.

Finally, it has been suggested that ARCO has been less than aggressive in pursuing the remediation of contamination at ARCO facilities. I do not think this characterization is accurate nor is it supported by the facts we have described in this or other situations. In January 1991, when the Workplan was submitted, we volunteered to proceed on parallel tracks with the implementation of the Workplan and the gathering of further information on the piping located on the north side of the facility. We were informed by the County that the Workplan would not be approved until the remaining piping had been removed. Even after the piping was removed and that information was transmitted to the County, review of the Workplan was delayed for a further four months. We are eager to proceed with the activities described in the Workplan and will keep you posted on our progress.

If you have any questions concerning this letter, please do not hesitate to contact me.

Sincerely,

Chuck Carmel Environmental Engineer

Enclosures

cc: John Meck, ARCO Products Company Chris Winsor, ARCO Products Company Lester Feldman, San Francisco RWQCB Howard Hatayama, State Department of Health Services Keith Bullock, Gettler~Ryan, Inc. Mark Thomson, Alameda County District Attorney's Office ALAMEDA COUNTY



AGENCY DAVID J. KEARS, Agency Director

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

August 29, 1991

Mr. Chuck Carmel Environmental Engineer ARCO Products Company Box 5811 San Mateo, CA 94402

1260 Park Street, Alameda, California-#2112 Re:

Dear Mr. Carmel:

I am in receipt of your August 26, 1991 letter with enclosures. I shall deal sequentially with each issue you raise.

- Your Summary of communication at page 1, paragraph 3, is 1. accurate.
- In my August 3, 1991 letter, I requested information 2. concerning the disposal of the waste oil tank and contaminated soils associated with the waste oil tank. You question "the need for these documents."

Title 23, Section 2652 provides that a report to the local agency shall be submitted which details the "method and location of disposal of the released hazardous substance and any contaminated soils". Until August 26, 1991, that information had not been provided the local agency.

You state, "all of the piping has been removed". As you know, 3. the piping at this site was removed in phases. Thank you for including in your August 26, 1991 letter a definitive statement that all piping has been removed; such a declaration has not been provided in any report submitted to this office.

Thank you for supplying the billing invoices in response to our request for full documentation of the disposal of the soils.

Thank you for declaring, "no excavated soils were placed back into the ground".

Reference is made to the fact that these "soils were aerated on site". The District Attorney's Office has contacted the Bay Area Air Quality Management District. I am advised the

Letter to Mr. Chuck Carmel ARCO Products Company August 29, 1991 Page two

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Air District was never notified 24 hours before the commencement of aeration in violation of Regulation 8, Rule 40.

4. Thank you for supplying the manifests for the five underground tanks removed on 7/26/90.

When I reviewed your workplan, I also reviewed the entire file. A condition of the closure permit, #22, was that ARCO would supply the manifests within 60 days of receipt of sample results. As noted at point 2 above, Title 23, Section 2652, also requires the requested information.

Your letter suggests you believe I required the manifests "to be submitted before review of the workplan". Actually, as my August 3, 1991 letter states at page 1, "we have reviewed the proposal and note the following areas of concern".

As you know, the Alameda County District Attorney's Office is suing your company. I have been instructed to provide ARCO information so that it can come into compliance with the law. Rather than being challenged on the request for manifests, I rather thought you would appreciate the courtesy of my pointing out to you ARCO had failed to supply the manifests to this agency.

5. While I am pleased that ARCO has indicated that it will follow the LUFT guidelines as it assesses and remediates this site, I must remind you that the specific issues I mentioned in my 8/3/91 letter (starting at the bottom of page 2 and continuing half way down page 3) must be addressed before I will consider remediation complete.

I also wish to clarify the relationship between the LUFT manual and the Tri-Regional Recommendations issued by the San Francisco Bay Regional Water Quality Control Board and two other regional boards. The Tri-Regional Recommendations are "intended to expand and clarify and, in some cases, present alternatives to several areas addressed in LUFT", (Introduction Page 1, Paragraph 2, last sentence). Keeping this in mind, it is necessary to follow both LUFT and the Tri-Regional Recommendations.

Letter to Mr. Chuck Carmel ARCO Products Company August 29, 1991 Page three

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- 6. Your detailed comments regarding the proposed in-situ remediation using vapor extraction wells are consistent with the requirements of my letter. Thank you for clarifying areas of concern such as the expedient removal of any free product and the development of a remediation action plan with a time schedule for implementation which were not addressed in the proposed work plan.
- 7. In my August 3, 1991 letter, I wrote:

This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirements of this letter.

In his November 23, 1988 letter to ARCO's Kyle Christie, Steven R. Ritchie, Executive Officer of the California Regional Water Quality Control Board-San Francisco Bay Region, wrote:

The Regional Board is responsible for the oversight of soil and groundwater pollution cases which threaten or impact waters of the State...In some counties, local agencies are working with the Regional Board and are taking the lead role for case handling. Regardless of the level of oversight from agencies, you are responsible for the timely reporting, investigation, and cleanup of soil and groundwater pollution such that the beneficial uses of water of the State are protected, and appropriate policies complied with.

Because of the implications for this and other sites within the jurisdiction of the Alameda County Health Care Services Agency, there must be no misunderstanding between us on this issue.

This department will oversee assessment and remediation. <u>As</u> <u>a general rule, site work in the form of assessment and</u> <u>remediation is to be implemented only after workplans have</u> <u>been approved by this department</u>. Letter to Mr. Chuck Carmel ARCO Products Company August 29, 1991 Page four

> However, ARCO must protect the beneficial use of the waters of the state from the contamination it caused. If the beneficial uses of state waters are endangered, ARCO can't use the inherent delay factor in the workplan preparation/approval process as an excuse to not protect our water. (Note: The same rule holds if there is a fire or explosive threat.)

> For example, if ARCO has knowledge that there is free product at a given site or that there is dissolved product in a source of drinking water, ARCO can and must commence appropriate remedial actions while it is in the process of preparing and obtaining approval of the measures it has implemented.

> This approach makes common sense. In appropriate cases, ARCO must be in a position of being able to protect its property, the property of others and water resources without waiting for the workplan preparation/approval process to be completed. Obviously, such work will have to be reviewed by this office after the fact. If the work is deficient, it will have to be done correctly. (Note: ARCO must, of course, also comply with any local permitting requirements.)

> I encourage you to have Mr. Meck contact Mr. Thomson if ARCO feels it needs further clarification of this matter.

You inquire as to "written guidelines for ARCO to follow in performing assessment and remedial work". The guidelines include, but are not limited to, the following:

- 1) Chapter 6.7 of the Health and Safety Code
- 2) California Code of Regulations Title 23 Waters Chapter 3 Water Resources Control Board Subchapter 16 UST Regulations
- 3) The LUFT Manual
- 4) The Tri-Regional Recommendations
- 5) The Alameda County Water District Guidelines for Investigation and Remediation at Fuel Leak Sites
- 6) Directives from the California Regional Water Quality Control Board, San Francisco Bay Region

Letter to Mr. Chuck Carmel ARCO Products Company August 29, 1991 Page five

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With the supplemental information provided in your August 26, 1991 letter, I can approve your January 2, 1991 workplan on the following conditions:

- 1) The condition detailed at 5 above must be followed.
- 2) Reports documenting implementation of the workplan must contain the 14 points I detail in my August 3, 1991 letter.

Very truly yours,

Susan Hugo Hazardous Materials Specialist

cc: John Meck Mark Thomson Rafat A. Shahid Lester Feldman Howard Hatayama Keith Bullock

SH:shb

UST LEAK		Date of Last	Current
SITE UPD	ATE	Review/Update: <u>6/21/</u>	
SITE IDE	VIIFICATION		
Name:		any #2112	Case No
Address:	1260	Park Street	
	Street Number		Street
	Alameda		
		City	Zip Code
County:			Substance: Gasoline
Local Age	ency: <u>Alameda</u> (County Public Health Ser	rvices Division
Regional	Board: San Frank	cisco Bay Region	
			
LEAD STAF	F PERSON: <u>Tom Leavi</u>	tt	
CASE TYPE		oil Only <u>X</u> Grour	ndwaterDrinking Water
STATUS	(Date indicates whe	n case moved into statu	ມຮ)
× × ×	Prelim. Site A Preliminary Si Pollution Char Remediation Pl Remedial Actio Post Remedial Case Referred	firmed ssessment Workplan Subm te Assessment Underway acterization an	Date <u>July 1990</u> Date Date Date Date Date

COMMENTS:

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The waste oil tank was removed in May, 1987 and the underground storage tanks (UGST) were replaced in August, 1990. A work plan proposing the installation of five groundwater monitoring wells and three vapor extraction wells has been issued for this site.

The anticipated activities for the work plan dated January 2, 1991 to be initiated upon approval from Alameda County.

<u>REPORT</u>	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.

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ARCO Products Compan

2000 Alameda de las Pulgas Mailing Address: Box 5811 San Mateo, California 94402 Telephone 415 571 2400 \Rightarrow

August 26, 1991

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

RE: Investigation of Soil and Groundwater Hydrocarbon Impact at ARCO Service Station #2112, 1260 Park Street, Alameda, CA

Dear Ms. Hugo:

This letter is submitted in response to your letter dated August 3, 1991 concerning the review of GeoStrategies, Inc. (GSI) Work Plan dated January 2, 1991. The responses to your letter are presented in the order in which they appear in your letter.

"Through telephone conversation between Mr. Kyle Christie and a representative from this office......This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised."

Kyle Christie called Ms. Cheswick of your office during early April, 1991 to inform her that all soil samples from the piping excavation were nondetectable and therefore no changes to the workplan were warranted and ARCO was prepared to implement the work. Ms. Cheswick concurred but stated she wanted to review the report prior to approving the workplan. The report was provided to the ACHD on May 3, 1991. On May 20, 1991 Keith Bullock of Gettler-Ryan was contacted by Ms. Cheswick and informed the workplan had not yet been reviewed and therefore was not approved and also she was no longer going to be supervising this project and did not know who would be supervising it in the future. ARCO is still awaiting approval of the 1/2/91 workplan.

"A waste oil tank was removed on May, 1987......Manifest for the waste oil tank....have not been submitted to this office.

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23 :21:13 83 011 16

ARCO Products Compa 2000 Alameda de las Pulgas Mailing Address: Box 5811 San Mateo, California 94402 Telephone 415 571 2400 Communts:
August 26, 1991 Ms. Susan Hugo
Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621
RE: Investigation of Soil and Groundwater Hydrocarbon Impact at ARCO Service Station #2112, 1260 Park Street, Alameda, CA

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"A waste oil tank was removed on May, 1987......Manifest for the waste oil tank....have not been submitted to this office. According to ARCO records, a 550 gallon waste oil tank was removed on or about May 29, 1987. The hazardous waste manifest forms for both the liquids and soils removed are attached to this letter. It is our understanding that hazardous waste manifest forms were not required for the waste oil tank however, ARCO has records that show that the waste oil tank was destroyed by S&G, a scrap metals company, located in Oakland, CA. It is not clear why the need for these documents which pertain to a tank removal over 4 years ago should delay your review and approval of the 1/2/91 workplan. Ms. Cheswick never indicated that she wanted ARCO to submit these manifests or that it was necessary to submit these documents in order to review and approve the workplan.

"Contamination of up to 21,000ppm TPH.....It is unclear if all the piping associated with the former five underground storage tanks have been removed at this time. Disposition of all the stockpiled soil generated at this site from the removal and installation of the underground storage tanks and piping was not fully documented. Did any stockpiled soil go back into the ground?"

As described in the GeoStrategies Report dated May 3, 1991 provided to your office, all of the piping has been removed. The disposition of the soil from the tank and piping excavation and removal was documented in GSI reports dated November 7, 1990 and May 3, 1991. All of the soils were aerated on site and disposed at either the Redwood sanitary landifil in Novato or at the Laidlaw landfill in Kern County. No excavated soils were placed back into the ground. Please find attached paid ARCO invoices from Laidlaw Environmental Services and Dillard Trucking, Inc. that document when and where all excavated soils were disposed.

"Manifests for the five underground storage tanks removed on 7/26/90 and contaminated soil hauled off site have not been submitted to this office"

Attached to this letter are the manifest forms for the five underground storage tanks. Again, it is not clear why these manifests should have

impeded review of the workplan. Ms. Cheswick never mentioned that they needed to be submitted before review of the workplan.

"The work plan submitted to this agency on January 4, 1991 is not adequate to fully define the extent of soil and groundwater contamination."

To date only soil borings have been performed at this site. As described in the LUFT manual the standard procedure following discovery of onsite soil contamination involves determining the distance to groundwater, the groundwater gradient and the presence of groundwater contamination. These LUFT requirements are established through the installation of onsite groundwater monitoring wells. Following this necessary initial onsite groundwater monitoring step, offsite wells may be installed if necessary to determine the extent of any dissolved contaminants. The 1/2/91 workplan as proposed includes the installation of five onsite groundwater wells, three onsite vapor extraction wells and the performance of a vapor extraction test. It is difficult to understand your comment that the workplan does not address the extent of soil and groundwater contamination when it is clear that to date no groundwater data has been generated because of the lack of approval of the 1/2/91 workplan. The determination of the extent of contamination must start with the performance of the 1/2/91 workplan which is imperative to document the presence, character, and concentration of any groundwater contaminants as well as the flow direction. This information would then be used to guide any further investigations.

"The overall effectiveness of the proposed in-situ remediation using vapor extraction wells should be verified by an appropriate monitoring program......"

As proposed in the GSI work plan, a vapor extraction test will be performed that will determine the area of influence and the system's overall effectiveness as a remedial approach. Following the completion of the assessment and vapor extraction test, and the determination of any groundwater contamination and any necessary groundwater pump tests, a remedial action plan (RAP) will be developed that will include an approximate time schedule for the RAP to be implemented. To move forward, however, toward the implementation of a RAP, it is imperative that the 1/2/91 workplan be performed without any further delay. After the installation of the monitoring wells, any free product will be removed on a weekly basis up to the time when an automated extraction system is installed. The remedial plan will include the determination of aquifer characteristics and the capture zone of the extraction system.

"This department will oversee the assessment and remediation for this site. You may implement remedial actions before approval of the workplan to act diligently in protecting the waters of the State. Please be advised that final concurrence by this office will depend on the extent to which the work done meets the requirments of this letter."

This is the first time ARCO has been advised by any agency within Alameda County that ARCO has the right to implement remedial actions prior to agency approval of the workplan. To date it has been our understanding that in the case of the subject site the Alameda County Environmental Health Department had to approve all workplans prior to their implementation.

As described above to date only soil borings have been performed at this site. It is necessary at this time to install monitoring wells to establish the criteria required by the LUFT manual. As such, although your letter indicates that ARCO "...may implement remedial actions before approval of the workplan...", in accordance with LUFT it is necessary to establish the character and extent of the any groundwater contamination before initiating remedial action. ARCO will therefore initiate implementation of the 1/2/91 workplan following your approval. Furthermore, also as described in LUFT, if and when groundwater contamination is confirmed and if free product is identified ARCO will implement free product recovery measures.

Since this seems to be a change in Alameda County Health Department policy it would be helpful to have the following areas clarified: (a) does this program apply to all sites within the ACHCS's jurisdiction, (b) does this program apply to all aspects of site assessment and remediation or just "remedial actions" as stated in your letter, (c) is a workplan necessary to file if work can proceed prior to Agency approval and (d) rather than receiving comments about a certain aspect of an investigation or remedial plan after its implemention, does the County have written guidelines for ARCO to follow in performing assessment and remedial work.

If the Alameda County Environmental Health Department policy allows completion of assessment work in addition to "remedial actions" prior to workplan approval please advise me as soon as convenient as ARCO will proceed immediately with implementation of the workplan as originally proposed. Please don't hesitate to call me at (415) 571-2469 if you have any questions regarding this letter.

Sincerely,

Chuck Carmel Environmental Engineer

 cc: John Meck, ARCO Products Company Chris Winsor, ARCO Products Company Lester Feldman, San Francisco RWQCB Howard Hatayama, State Department of Health Services Keith Bullock, Gettler-Ryan Inc. Mark Thomson, Alameda County District Attorney's Office

enclosures

AZARDOUS WASTE MANIFEST LOG

stra -	ss#_2112
	1260 PARK
	ALAMEDA CA

WASTE OIL TANK

<u>1987</u> 1st Qtr.	Date of <u>Manifest</u>	<u>Manifest #</u>	<u>Quantity</u>	
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4th Str.

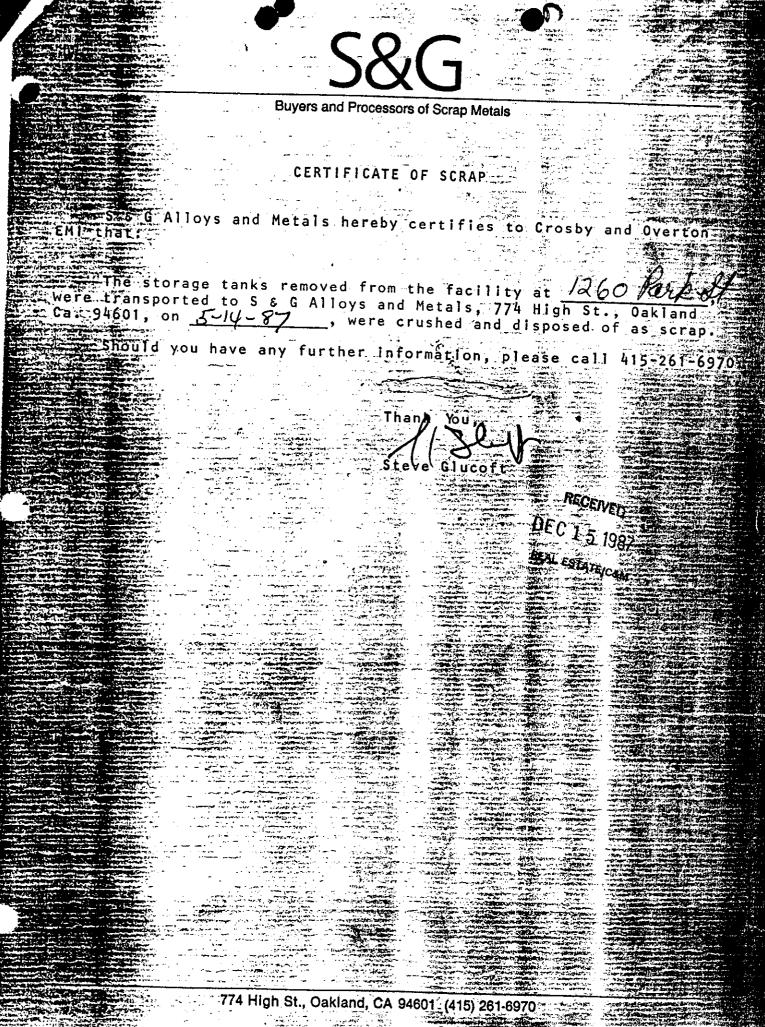
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	S. Generator's Name and Mailing Address FACILITY: 55 2112 Arco Petroleum 1260 PARK				ARTER	
1	2000 Alameda Dela Pulgus, San Mateo, CA 94403		Bar S			
	4. Generator's Phone: 419. 571-2407					
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	 11 a) Waste O11 Sludge and water 70% Emulsified Sludge 30% O11 15. Special Handling Instructions and Additional Information Near protective clothing and eye wear 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consi name and are classified, packed, marked, and labeled, and are in all respects i international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce determined to be economically practicable and that I have selected the practicable me which minimizes the present and future threat to human health and the environment the practicable and that I have a health and the environment mean health environment mean health and the environment mean health environment mean health environment mean health and the environment mean health and the environment mean health environment mean heal	ignment are fully an in proper condition ce the volume and 1 able method of treat	d accu for train toxicity atment, a sma	rately described nsport by highw r of waste gener storage, or disu II quantity gener	d above by rated to the posal current	ng to e degr intly a re mar
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State of California Fleath and Form Angroved DMI No. 2050nd Wellare Agency t of Health Servic -0039 (Expires 9-30-86) BA 694 obstances Control Divis LUAL Secremento, Californi Nease print or type (form designed for use on elle plich lypewriter) Generator's US EPA 10 N UNIHOUM HAZARDOUS Ma 2. Page 1 information in the shaded areas CIAIDI91812 11 16 6 19 19 1 of STE MANIFEST is not required by Federal laws W 0.010101 S. Genera ame and Mailing Address FACILITY : 55423 Arco Petroleum. . Al-A MELA 1**360** 🕅 2000 Alameda DeLa Pulgas, San Mateo, ChD94403 4. Generator's Phone (213) 571-2407 5. Transporter 1 Company Name US EPA ID Number -6. と道 1-800-852-7650 CAD19181141611 10 6 CROSBY AND OVERTON EMI 7. Transporter 2 Company Name US EPA ID Number 9. Designated Facility Name and Site Address 10. US EPA ID Number Casmalia Resources CALL N.T.U. Rd. Casmalia, CA 93429 IC IA D0207481 12. Containers 13. Tofat 11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) Ougatity. Linit No. 1 Type Nt/V4 Hazardous Maste Solid N.O.S. ORM-E NA 9189 A E 2. 1 - C-See. 1.1 01011 1 700 E R AT 0 RATOR Ř đ. ing instructions and Additional information protective clothing and eye protection 969T Head **16** are fully and ac curately des **GENERATOR'S CERTIFICATION:** Thereby declare that the conte nts of this co ribed above by o name and are classified, packed, marked, and labeled, and are in all respects in prop international and national government regulations. condition for transport by highway according to applicable w r am a large quantity generator, I certify that I have a program in place to reduce the voltage 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 the a storage, or disposal currently available to faith effort to minimize my waste generation and sales? The best waste management method that is **the solution** to me and that lican afford. Printed/Typed Name Signa Month Day Schultheis . ب. [.] 0409 17. Transporter 1 Acknowledgement of Receipt of Materials 1.11 たいうたいは、意志の作 - - 4 425 S. 15 G 15 B Printed / Epett Name AN Day 401 D Olsen 0 ON. 8 18. Tran 2 Acknowledgement of Receipt of Materials porte 6.25 Ö • + ¥ - 3. 1.27 $1 \le i \le 2$ Printed/1 Signature Year ped Name Month - Day 3 1.0 1 19, Discrepancy indication 806 F A 2 ĉ 1 L 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. 1 Printed/Typed Name 4-91533 Signature Month Day OGOV Gennis Tia 10 NULLA aama DHS 8022 A (1/87) INSTRUCTIONS ON THE BACK Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS EPA 8700-22 (Rev. 9-86) Previous editions are obsolete.

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	Generator's Phone ((713)) 3/1-3	₹J\$/J12~a- 					Y H O	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		1156
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a.	, <u> </u>	<u> </u>		<u> </u>	No.	Туре			Wt/Vol	1
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	3. Generator's Name and Mailing Address	-	•		A. St	ate Manifest Docu	9028	
	P. O. Box 5811, San Mate	50, CA 94402			B. Su	ate Generator's (D	the second s	10
-	4. Generator's Phone ((415) 571-243		····		N	YHQ 3	6 - 0 1	5 6
1	5. Transporter 1 Company Name H & H Ship Service Compa	6. 6.	US EPA ID Numbe		C. Sta	ate Transporter'a l	D tost	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
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Ī	9. Designated Facility Name and Site Address	10.	US EPA ID Number	<u>l. []</u> ər		ate Facility's ID	AND A CONTRACTOR	1919
	H & H Ship Service Company	ny			G	ADIOIO	1 7 7 1	16
	220 China Basin Street Ban Francisco, CA 94107	10131	· · · · · · · · · · · · · · · · · · ·		H. Fac	cility's Phone		
F			D10101417171	1 1 6 8		13. Total		
	11. US DOT Description (Including Proper Shippi	ing Name, Hazard Class.	, and iD Number)	No.	Type	13. Total Quantity	14. Unit Wt (Vot	Wast
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	RESIDUE GASOLINE TANK		1.4			I		A/Other
\mathbf{h}	NON-RCRA HAZARDOUS WASTE	SOLID		01011	TIP	016101010	9 9 3	
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Ti	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 15. Special Handling Instructions and Additional in JOB #5106	nd 4,000 gal. Tanks iner	ted with dry	JOB SITE	•. 01 •	RCO STATI	01 d	
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11 11 11 11 11 11 11 11 11 11 11 11 11	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 16. Special Handling Instructions and Additional in JOB #5106 APPROPRIATE PROTECTIVE CL. 16. GENERATOR'S CERTIFICATION: 1 hereby d and are classified, packed, marked, and label national government regulations. 16. GENERATOR'S CERTIFICATION: 1 hereby d and are classified, packed, marked, and label national government regulations. 16. GENERATOR'S CERTIFICATION: 1 hereby d and are classified, packed, marked, and label national government regulations. 17. Transporter to human health and generation and select the best waste manage Printed/Typed Name	And 4,000 gal. Tanks iner Information ACTHINS AND RI Declare that the contents whed, and are in all respect to the environment; OR, if estimate the practicab d the environment; OR, if estimate the the tax is ave	ESPIRATOR s of this consignment are cts in proper condition to acce to reduce the volument, of a math of treatment, f a math of treatment, f and small quantity g ailable to me and that y Signature	JOB SITE	a. 01 c. S: Aj 1. A curately c y highwa	RCO STATIS 260 Park 1 Lameda, C: described above t by according to ap	b 01 d 0N, \$21 Street aliforn by proper ship pilcable interr o degree hav to me which in rt to minimize Mon 10	12 is pping name national re determ minimize my was th Da 11 21 12 11 21 12
11 11 11 11 11 11 11 11 11 11 11 11 11	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 16. Special Handling Instructions and Additional in JOB #5106 APPROPRIATE PROTECTIVE CLI 18. GENERATOR'S CERTIFICATION: I hereby d and are classified, packed, marked, and label national government regulations. If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health and generation and select the best waste manage Printed/Typed Name DOMINOD WILLIAMS 8. Transporter 2 Acknowledgement of Receipt of	And 4,000 gal. Tanks iner Information ACTHINS AND RI Declare that the contents whed, and are in all respect to the environment; OR, if estimate the practicab d the environment; OR, if estimate the the tax is ave	ESPIRATOR s of this consignment are cts in proper condition for acce to reduce the volume ble method of treatment, allable forme and that'y sillable forme and that'y Signature	JOB SITE	a. 01 c. S: Aj 1. A curately c y highwa	RCO STATIS 260 Park 1 Lameda, C: described above t by according to ap	b 01 d 0N, \$21 Street aliforn by proper ship pilcable interr degree hav to me which in rt to minimize Mon 10	12 in pping namational re determinimize my was th De 71 21 71 21
11 11 11 17 17 17 17 18 Pri	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 16. Special Handling Instructions and Additional in JOB #5106 APPROPRIATE PROTECTIVE CLI 18. GENERATOR'S CERTIFICATION: I hereby d and are classified, packed, marked, and label national government regulations. If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health and generation and select the best waste manage Printed/Typed Name DOMINOD WILLIAMS 8. Transporter 2 Acknowledgement of Receipt of	And 4,000 gal. Tanks iner Information ACTHINS AND RI Declare that the contents whed, and are in all respect to the environment; OR, if estimate the practicab d the environment; OR, if estimate the the tax is ave	ted with dry ESPIRATOR s of this consignment are cts in proper condition for acce to reduce the volume ble method of treatment, allable forme and that'y sillable forme and that'y Signature	JOB SITE	a. 01 c. S: Aj 1. A curately c y highwa	RCO STATIS 260 Park 1 Lameda, C: described above t by according to ap	b 01 d 0N, \$21 Street aliforn by proper ship pilcable interr o degree hav to me which in rt to minimize Mon 10	12 is pping name national re determ minimize my was th Da 11 21 12 11 21 12
11 11 11 11 11 11 11 11 11 11 11 11 11	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 16. Special Handling Instructions and Additional in FOB #5106 APPROPRIATE PROTECTIVE CLI 18. GENERATOR'S CERTIFICATION: I hereby d and are classified, packed, marked, and label national government regulations. If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health and generation and select the best waste manage Printed/Typed Name DOMINCO WILLIAWS B. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name DOMINCO WILLIAWS B. Transporter 2 Acknowledgement of Receipt of Printed/Typed Name	And 4,000 gal. Tanks iner Information ACTHING AND RI Declare that the contents whed, and are in all respect to the environment; OR, if sement method that is ave A A A A A A A A A A A A A A A A A A A	ESPIRATOR s of this consignment are cts in proper condition for acce to reduce the volument, f I ame snall quantity g allable to me and that y Signature *Signature Signature	JOB SITE	a. 01 c.: S: Al 1: A curately c y highwa of waste lisposal c ve made	RCO STATIS 260 Park 1 1ameda, C: described above to by according to ap e generated to the currently available o a good faith effor	b 01 d 0N, \$21 Street aliforn by proper ship pilcable interr o degree hav to me which in rt to minimize Mon 10	12 is poping near national re determ minimize my was nih Da 71 21 mh Da 71 21
11 11 11 11 11 11 11 11 11 11 11 11 11	PUMPED OUT 6,000 gallon a last containing gasoline. ice for transport. 16. Special Handling Instructions and Additional in JOB #5106 APPROPRIATE PROTECTIVE CL and are classified, packed, marked, and label national government regulations. If I am a large quantity generator, I certify that to be economically practicable and that I have present and future threat to human health and generation and select the best waste manage Printed/Typed Name DOMINOD WILLIAWS 8. Transporter 2 Acknowledgement of Receipt of Trinted/Typed Name 9. Discrepancy indication Space	And 4,000 gal. Tanks iner Information ACTHINS AND RU declare that the contents Mediated the practicab d the environment; OR, if esselected the practicab d the environment; OR, if essent method that is ave A final erials Materials Materials elipt of hazardous meterial	ESPIRATOR s of this consignment are cts in proper condition for acce to reduce the volument, f I ame snall quantity g allable to me and that y Signature *Signature Signature	JOB SITE	a. 01 c.: S: Al 1: A curately c y highwa of waste lisposal c ve made	RCO STATIS 260 Park 1 1ameda, C: described above to by according to ap e generated to the currently available o a good faith effor	b 01 d 0N, \$21 Street aliforn by proper ship pilcable interr o degree hav to me which in rt to minimize Mon 10	12 is pping namational re deterr my was num

DILLARD TRUCKING, INC. P.O. BOX 218	•	C	PAGE: 01		2112
BYRON CI (415) 634-6850	a 94514	ECEIVED	DATE: 03,		
ARCO PRODUCTS P.O. BOX 5811		FAR 20 1991 K.A. CHRISTIE	INVOICE NO: 00; Account no: 00(
SAN MATEO	CA 94402	mone	FROM: ARC	1/08 ARCO STATI 0 2112/ALAMEDA WOOD SANITARY L BULK SOIL	
DATE FREIGHT BILL WEIGHT TAG	TRK MANIFEST #	DESCRIPTION	UNITS	RATE	AMOUNT
03/14/91 13312 -00 91368			5.000 Hrs	65.6900	328.45 -

SUBTOTL TRANSPORT SUBTOTL

;

ACCT COST CENTER FAC. # TYPE **SUPI** JA3A 2112 21 Approved: K A. Christie

5.000 Hrs

1.000 Lds

328.45

328.45

WORK ALTHORIZED PRIOR TO VI/91 THIS WAS REMAINING SOIL FOR OLD PRODUCT LING EXCANATION

PLEASE PAY THIS AMOUNT

	DILLARD TRUCKING, INC Routei Box 73	•	•		PAGE	: 01		
6	YRON	CA	94514		ÛATE	: 01/21	/91	
				RECEIVE				
	ARCO PRODUCTS P.O. BOX 5811			K.A. CHRISTIE	ACCOUNT NO			
	SAN MATEO		CA 94402		FROM To	: ARCO 2	85 BLANKET 07 1112/Alameda Ittonwillow K soil	7-045
ATE I	FREIGHT BILL WEIGHT T	AG	TRK MANIFEST #	DESCRIPTION	UNITS		RATE	AMOUNT
01/15/91 1	3224 -00 198681		NON HAZ 3604		23.420 1	'ns	40.0000	936.80
	SUBTOTL TRANSPO Subtotl	DRT			23.420 T 1.000 L	ns ds		936.80 936.80

1

ACCIT COST CENTER FAIL # TYPE **3491 J232 212 21** Approved: <u>Mark Christie</u> K. A. Christie

KAC AUTHORIZED GOTTLER READ TO HIRE DILLARD BUT DILLARD SONT MUT INVOICE TO SAVE COSTS.

PLEASE PAY THIS AMOUNT

	•	9		RECEIVED
DILLARD TRUCKING, INC. ROUTE1 BOX 73			PAGE: 01	DEC 31 1990
BYRON C	CA 94514			K.A. CHRISTIE
			DATE: 12/27	//90
			INVOICE NO: 00465	,
ARCO PRODUCTS			ACCOUNT NO: 00001	
P.O. BOX 5811 San Mateo	CA 94402		FROM: ARCO/	UTTONWILLOW
ATE FREIGHT BILL WEIGHT TAG	G TRK MANIFEST #	DESCRIPTION	UNITS	RATE ANOUNT
1/18/90 10199 -00 187785	NON HAZ 3220		🗸 24.720 Ths	40.0000 988.80
2/18/90 12385 -00 187779	NON HAZ 3218		24.610 Ths	40.0000 984.40
12/18/90 12923 -00 187786 12/18/90 12928 -00 187787	NON HAZ 3213		./ 24.750 Ins	40.0000 990.00
12/18/90 12928 -00 187787 12/18/90 13047 -00 187774	NON HAZ 3216 13 Non haz 3208		24.830 Ths	40.0000 993.20
12/18/90 13210 -00 187771	NON HAZ 3214		23.970 Ins	40.0000 958.80
12/18/90 13568 -00 187783	NON HAZ 3219		22.630 Ins 24.720 Ins	40.0000 905.20
12/18/90 13781 -00 187776	NON HAZ 3207		24.720 Ins 23.370 Ins	40.0000 988.80
12/19/90 13800 -00 187777	NON HAZ 3209		24.900 Ths	40.0000 934.80 40.0000 996.00
12/. 14026 -00 187773	NON HAZ 3210		23.840 Ths	40.0000 953.60
12/18/90 14143 -00 187784	NON HAZ 3212		24.920 Ths	40.0000 996.80
12/18/90 14881 -00 187781	NON HAZ 3211		23.550 Ins	40.0000 942.00
12/18/90 14906 -00 187775	NON HAZ 3215		23.920 Ins	40.0000 956.80
12/18/90 3204 -00 187782	NON HAZ 3217		24.930 Tas	40.0000 997.20
12/18/90 LOADER -00 ADL CHG		LOADER AND OPERATOR		800.00
12/19/90 13057 -00 187819	13 NON HAZ 3222		23.600 Tns	40.0000 944.00
12/19/90 STANDBY 187819	NON HAZ 3222		1.50 Hrs	50.0000 75.00
12/19/90 13211 -00 187820	NON HAZ 3223		22.910 Ins	40.0000 916.40
12/19/90 STANDBY 187820	NON HAZ 3223		1.50 Hrs	50.0000 75.00
SUBTOTL TRANSPORT	Ţ		386.170 Ths	15,446.80
SUBTOTL			16.000 Lds	16,396.80

		and the second state of the se	And the second	
ΛΟΟΥ	COST CENTER	FAC. #	TYPE	
8491	7232	2112	<u>a</u> (
Approved:	H. A. Christ	cie 2/	15-19,	
		•) ISSUARC	<u>c</u> 5
of	Home's To	MANAB	SHEPP,	

PLEASE PAY THIS AMOUNT 16,396.80

DILLARD TRUCKING, INC. ROUTE1 BOX 73 PAGE: 01

BYRON

CA 94514

RECEIVED NON 3 3 .1852 KA GUERETIE

DATE: 11/23/90

INVOICE NO: 00390

ACCOUNT NO: 00001

ARCO PRODUCTS P.O. BOX 5811 SAN MATEO

CA 94402

on con

JOB#: 0001/23 BLANKET #07-045 FROM: ARCO, PARK/ENSANEL TO: REDWOOD LANDFILL COMDTY: BS-BULK SOIL

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL ()F LAD	DESCRIPTION	UNITS		RATE	AMOUNT
10/17/90	11810	73269					4.000	Hrs	63.0000	252.00-
10/17/90	11810-8 ADL	CHG			BRIDGE	TOLL				8.25
10/17/90	14109	73317		73264			8.000	Hrs	63.0000	504.00-
10/17/90	14109-B ADL	CHG			8RIDGE	TOLL				13.00-
10/17/90	15078	73319		73265			8.250	Hrs	63.0000	519.75-
10/17/90	15078-8 ADL	снб			BRIDGE	TOLL				6.50-
11/14/90	13689	77098		77060			7.000	Hrs	63.0000	441.00-
1/14/90	13689-8 ADL	CHG		-	BRIDGE	TOLL				16.50
11/14/90	14133	77096		77061	:		71500	Hrs	63.0000	472.50
1/14/90	14555	77099		77069	٤.		- 7.000	Hrs	63.0000	441.00-
/90	14555-8 ADL	CH6	<u>.</u> '		BRIDGE	TOLL			-	16.50-
		ANSPORT					41.750	Hrs		2,630.25
	SUBTOTL						11.000	Lds		2,691.00

TYPE FAC. # COST CENTER ACCT 2112 Z/ gyqi232 12/3/90 Approved: K. A. Christie

2,691.00

DILLARD TRUCKING, INC. **ROUTE1 80X 73**

> ARCO PRODUCTS P.O. BOX 5811 SAN NATED

BYRON

PAGE: 01

CA 94514

CA 94402

DATE: 10/17/90

007 00 1000

INVOICE NO: 00276

ACCOUNT NO: 00001

10.000 Lds 125

PLEASE PAY THIS AMOUNT

JOB#: 0001/12 STATION #2112 FRON: ARCO/ALAMEDA #2112 TO: GSX/BUTTONWILLOW COMDTY: 85-BULK SOIL

2112

9,674.60

9,674.60

DATE	FREIGHT BILL	WEIGHT TAG	TRK	BILL OF L	D DESCRIPTION	UNITS	RATE	ANOUNT
		DESC: NON HA	ZARDOUS	2849			***************	
09/24/90	10946	184897				-23.590	Ins 40.0000	943.60
		DESC: NON HA	ZARDOUS 2	2851				/10.00
09/24/90	12120	184902				- 24.190	Ins 40.0000	967.60 -
· _		DESC: NON HAT	ZARDOUS 2	2845				
09/24/90	- 12335	184860	1997 - 1997 -	: -		- 23.960	Tns 40.0000	958.40 -
09/24/90	STANDBY	184860	•		_	0.500		25.00 -
		DESC: NON HAZ	ZARDOUS 2	2848			••••••	24.44
09/24/90	12367	184890	•	: .		- 24.910	ins 40.0000	996.40
	-	DESC: NON HAZ	ARDOUS 2	843	· · · ·		-	/////
0>4/90	14400	184859		•	· · ·	23.130	ins 40.0000	925.20 -
09/24/90	STANDBY	184859					irs 50.0000	75.00 -
		DESC: NON HAZ	ARDOUS 2	846				,
09/24/90	14478	184861				~ 23.930 1	ns 40.0000	957.20 -
09/24/90	-	DESC: NON HAZ	ARDOUS 2	842				
09/24/90	15111	184858				- 25.340	ns 40.0000	1,013.60 -
V7/24/3V	STANDBY	184858		-		0.500 H		25.00
09/24/90	15050	DESC: NON HAZ	ARDOUS 2	847				27,77
V7/24/7U	15352	184895				- 21.750 T	ns 40.0000	870.00 -
		DESC: NON HAZ	ARDOUS 28	844				••••••
9/24/90	15490	184862				- 24.310 T	ns 40.0000	972.40 -
	· ••••	DESC: NON HAZA	IRDOUS 28	350				7
9/24/90	3985	184896				23.630 Ti	ns 40.0000	945.20 -
	SUBTOTL TR	ANSPORT				200 740 T		
	CUDTATI					238.740 Ti	15 🖵	9,549.60

SUBTOTL TRANSPORT SUBTOTL

ACCT COST CENTER FAC. # TYPE CAPITALIZE \$ \$106,60 TO DEILLING & SOIL SAMPLING DURING TANK PLL AT # 2112 PAT \$1,568,00 TO 8491/J232/2112-21 = 11/17/90 Approved: Here K. m. Willsun

KAC-90-230

			-	— -	55# 2/12	
	DILLARD TRUCKING, INC ROUTE1 BOX 73		RECTUED	PAGE: 01		
	BYRON	CA 94514	0070-3190	DATE: 10/17/9	90	
			and the second sec	INVOICE NO: 00275	·	
	ARCO PRODUCTS			ACCOUNT NO: 00001		
P.O. BOX 5811 SAN NATEO		CA 94402		JOB#: 0001/17 FROM: ARCO/ALAMEDA TO: REDWOOD LANDFILL CONDTY: 8S-BULK SOIL		
DATE	FREIGHT BILL WEI	IGHT TAG TRK	BILL OF LAD DESCRIPTION	UNITS	RATE AMOUNT	
09/13/90 09/13/90	12332 12332-a adl chg	DESC: LOAD REFUSED AT DESC: LOAD REFUSED AT	BRIDGE TOLL	4.000 Hrs	63.0000 252.00 - 8.25-	
09/13/90	15486			4.250 Hrs	63.0000 267.75	
•• •	SUBTOTL TRANSPO Subtotl	ORT		8.250 Hrs 2.000 Lds	519.75 528.00	

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ACOT	COST CONTRA	1.42.7	TYPE
8491	1232	2112	21
Approved:	K. A. Christi	e[117/90

PLEASE PAY THIS AMOUNT

DILLARD TRUCKING, INC. ROUTE1 BOX 73

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PAGE: 01

5#2112

BYRON CA 94514 DATE: 10/17/90 . - -INVOICE NO: 00277 001 01 1050 ACCOUNT NO: 00001 ARCO PRODUCTS for state? P.O. BOX 5811 SAN NATED CA 94402 JOB#: 0001/17 STATION 2112 FROM: ARCO/ALAMEDA TO: REDWOOD LANDFILL CONDTY: 85-BULK SOIL

DATE	FREIGHT BIL	.L	WEIGHT TAG	TRK	BILL C	IF LAD	DESCRIPTION	UNITS		RATE	AMOUNT
9/27/90	12654		70723		70760			7.250	Hrs	63.0000	456.75 -
)9/27/90	12654-A	ADL	CHG			8RIDGE	TOLL				16.50 -
9/27/90	14547		70745		70698			6.100	Hrs	63.0000	384.30 -
9/27/90	14547-A	ADL.	CHG			8R IDGE	TOLL				16.50
9/27/90	15114		70742		70684			- 6.250	Hrs	63.0000	393.75 -
9/27/90	15114-A	ADL	CHG .			BRIDGE	TOLL		-		16.50 -
9/27/90	15163		70748	• ,	70717			- 7.000	Hrs	63.0000	441.00 -
9/27/90	15163- <u>A</u>	ADL	CHG			BRIDGE	TOLL	.	•		16.50 -
9/27/90	15179-	-	70757		70715			~ 7.000	Hrs	63.0000	441.00 -
r 7/90	15179-A	ADL	CHG			8RIDGE	TOLL			-	16.50 -
/90	15377		70763		70725		· ·	- 7.250	Hrs	63.0000	456.75 -
0/05/90	14252		71807		71762			- 8.500	Hrs	63.0000	535.50 -
0/05/90	14252-A	ADL (CHG			BRIDGE	TOLL				13.00-
0/05/90	15045		71808		71763			- 8.250	Hrs	63.0000	519.75 -
0/05/90	15045-A	ADL (BRIDGE	TOLL				13.00-
)/05/90	15353		71770		71800			- 7.750	Hrs	63.0000	488.25 -
	SUBTOTL	TRA	NSPORT		-			65.350	Hrs		ت - 4 <u>,117.05</u>
	SUBTOTL							18.000	Lds		4,225.55

COST CENTER FAC. #-ACCT TYPE 2112 7232 21 8491 11/17/90 Approved: K. A. Christia

4,225.55

		-			
	DIRARD TRUCKING, ROUTE1 BOX 73	INC.		PAGE: 01	
6	BYRON	CA 94514			
				DATE: 08/31/90	
				INVOICE NO: 00187	
	ARCO PRODUC P.O. BOX 58			ACCOUNT NO: 00001	
	SAN MATEO	CA 94402		JOB#: 0001/08 ARCO STATIO FROM: ARCO/ALAMEDA TO: REDWOOD SANITARY LA COMOTY: 85-BULK SOIL	
DATE	FREIGHT BILL	WEIGHT TAG TRK	BILL OF LAD DESCRIPTION	UNITS RATE	AMOUNT
AD /AD /AA	10011	DESC: ARCO STATIO			
08/08/90	10841 —	64403 >> 21 DESC: ARCO STATION	64352 34 #2112	7.000 Hrs - 59.5500	416.85 -
8/08/90	12191		64373 ×	6.750 Hrs 59.5500	401.96
8/08/90		CHG	BRIDGE TOLL - 2 # \$8.25 ~		16.50
		DESC: ARCO STATION			10.50
08/08/90	12505	64404	64351	7.000 Hrs - 59.5500	416.85 -
8/08/90	12505A ADL	CHG	BRIDGE TOLL - 2 8 \$6.50		13.00
0 /00 /00	***	DESC: ARCO STATION			
8/08/90	12627	64394 Desc: Arco station	64361 #2112	8.000 Hrs 59.5500	476.40 -
L ./90	14177	64387	64337	6.500 Hrs 7 - 59.5500	387.08 🦳
8/08/90		СНЕ	BRIDGE TOLL-2 # \$8.25	61300 HIS - 37.3300	16.50
		DESC: ARCO STATION			*****
8/08/90	14367	64338	64386	6.750 Hrs - 59.5500	401.96
		DESC: ARCO STATION	#2112		
8/08/90	14455	64382	10110	5.750 Hr s - 59.5500	342.41 -
8/08/90	14527	DESC: ARCO STATION 64407	64366	6.500 Hrs - 59.5500	107 A0 -
	14027	DESC: ARCO STATION		6.500 Hrs - 59.5500	387.08 -
8/08/90	14751	64379		6.500 Hrs 59.5500	387.08 -
		DESC: ARCO STATION	12 112		
8/08/90	9174	64392	64353	8.000 Hrs 59.5500	476.40 -
8/08/90	9174A ADL		BRIDGE TOLL - 2 8 \$8.25 -		16.50
a /Aa /AA	0100	DESC: ARCO STATION			···· ·· ·
8/08/90 8/08/90	9189 9189A ADL	63493 CNC	64354 BRIDGE TOLL - 2 ● \$8,25 ~	8.000 Hrs - 59.5500	476.40
v/ vu/ 7V	7107N NUL	DESC: ARCO STATION	-		16.50
8/09/90	12382	64527		4.000 Hrs - 59.5500	238.20
		DESC: ARCO STATION	-	41000 III 9 J3,J300	479.2V

DILLARD TRUCKING, INC. ROUTE1 BOX 73

> ARCO PRODUCTS P.O. BOX 5811

SAN HATEO

SYRON

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4

CA 94514

CA 94402

DATE: 08/31/90

PAGE: 02

INVOICE NO: 00187

ACCOUNT NO: 00001

JOB#: 0001/08 ARCO STATION #2112 FROM: ARCO/ALAMEDA TO: REDWOOD SANITARY LAN COMDTY: 85-BULK SOIL

DATE	FREIGHT BILL		WEIGHT TAG	TRK	BILL	OF LA	D DESC	RIPTION	UNITS		RATE	AHOUNT
08/09/90	12628		64529							Hrs		253.09 -
			DESC: ARCO									
08/09/90	14176				64492				7.500	Hrs	59.5500	446.63 -
08/09/90	14176A	NDL	CHG			BRI	DGE TOLL	- 2 🛢 \$8.25-	~			16.50 -
			DESC: ARCO									-
08/09/90	14221		64501		64555	5			7.000	Hrs	59.5500	416.85 -
08/09/90	14221A	NOL	CHG			BRI	DGE TOLL	- 2 # \$6.50-	-			13.00
			DESC: ARCO									
08/09/90	14368				64498)			8.000	Hrs	59.5500	476.40
			DESC: ARCO	STATION	#2112							
0 /90	14528		64516						4.250	Hrs	59.5500	253.09
			DESC: ARCO	STATION	#2112			-				
08/09/90	14535		64506						4.000	Hrs	59.5500	238.20
			DESC: ARCO									
08/09/90	14918				64500				8,000	Hrs	59.5500	476.40
8/09/90	14918A A	ÐL	CHG			BRII	GE TOLL	- 2 🕈 \$6.50				13.00
			DESC: ARCO	STATION	#2112							
08/09/90	9190	_	64519						4.000	Hrs	59.5500	238.20 🦯
8/09/90		_				BRI	GE TOLL	- 1 🛛 \$8.25 -				8.25
			DESC: ARCO	STATION	#2112							
8/09/90	9866		64520 CHG						, 5.250	Hrs	59.5500	312.64 -
8/09/90	9866A A	0L	CH6			8RIC	GE TOLL-	1 4 \$6.50				6.50
OBTOIL FI	RI: 7,920.17		NTL: 0.0	O STBY	: (0.00	ADC:	136.25 \$0	0.00	TAX:	0.00 T	TAL: 8,056.42
1088: 00	01/11 DESC:		DESC: MANIFI			CO/ALA	MEDA	TO: 65X/	BUTTONNILLON	CO	NDTY: 85-8ULI	SOIL
8/15/90	10193		183192						24.480	Tas	40.0000	979.20 -
0/15/90	STANDBY		183192						0.750	=	50.0000	37.50
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* DILLARD TRUCKING, INC. ROUTE1 BOX 73

> ARCO PRODUCTS P.O. BOX 5811 SAN MATEO

8YRON

15

CA 94514

CA 94402

DATE: 08/31/90

AGE: 03

INVOICE NO: 00187

ACCOUNT NO: 00001

JOBS: 0001/08 ARCO STATION \$2112 FROM: ARCO/ALANEDA TO: REDWOOD SANITARY LAN COMDTY: 85-BULK SOIL

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ACCT COST CENTER FAC. # TYPE 8491 2112 21 9-17-90 Approved: K. A. Christie

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ENVIRONMENTAL SERVICES	BAKERSFIELD, CA 93309 Telephone: 805-835-5800	RECEIVE	: D
	FEDERAL ID NUMBER: 57-0	891472 JAN 25 1991 K.A. CHRISTIE	Page 001
	880120	_	34
ATTN: ACCOUN ARCO PRODUCTS P.O.BOX 5811	IS PAYABLE 5 COMP	ARCO SS#2112	
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ACCT	COST CENTER	FAC. #	TYPE
हत्त्रा	1232	2112	21
Approved:	<u>K. A. Christ</u>	ie	2/4/91

* NOTE: SERVICES RENDERED 1/15/91

Please Remit To:	LAIDLAW ENV. SVCS (LOKERN), INC LOKERN	
	P.O. BCX 100026	
	FASADENA, CA 91189-2025	TOTAL DUE (0) 1405.20

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	F	EDERAL ID NUMBER: 57-4	0891472		Page 001
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	IATEO, CA	94402	ALAMEDA SALES: 3	CA John Beale	
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187776	23.370	DISPOSAL SOLIDS		60.0000	1402.20
187774	23.970	MANIFEST # 3207 DISPOSAL SOLIDS	WASTE CODE:	60.0000	1438.20
187777	24.900	MANIFEST # 3208 DISPOSAL SOLIDS	WASTE CODE:	60.0000	1494.00
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187781	23.550	MANIFESI # 3210 DISPOSAL SOLIDS MANIFEST # 3211	WASTE CODE:	60.0000	1413.00
187784	24.920	DISPOSAL SOLIDS MANIFEST # 3212	WASTE CODE:	60.0000	1495.20
187786	24.750	DISPOSAL SOLIDS MANIFEST # 3213	WASTE CODE:	60.0000	1485.00
187771	22.630	DISPOSAL SOLIDS MANIFEST # 3214	WASTE CODE: WASTE CODE:	60.0000	1357.80
187775	23.920	DISPOSAL SOLIDS MANIFEST # 3215	WASIE CODE:	60.0000	1435.20
187787	24.830	DISPOSAL SOLIDS MANIFEST # 3216	WASTE CODE:	60.0000	1489.80
187782	24.930	DISPOSAL SOLIDS MANIFEST # 3217	WASTE CODE:	60.0000	1495.80
187779	24.610	DISPOSAL SOLIDS MANIFEST # 3218	WASTE CODE:	60.0000	1476.60
187783	24.720	DISPOSAL SOLIDS MANIFEST # 3219	WASTE CODE:	60.0000	1483.20
187785	24.720	DISPOSAL SOLIDS MANIFEST # 3220	WASTE CODE:	60.0000	1483.20
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Please Remit To: LAIDLAW ENV: SVCS (LOKERN), INC LOKERN ** CONTINUED ON ** ** PAGE: 002 ** P.O. BOX 100026 3 C N D D N N

Suite 130 Bakerstiekt, CA 93309 (805) 835-5801

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KERSFIELD, CA 93309 lephone: 805-835-5800

FEDERAL ID NUMBER: 57-0891472

THE VICE NO.

Page 002

	880120	34
1	ATTN: ACCOUNTS PAYABLE ARCO PRODUCTS COMP	ARCO SS#2112
	P.O.BOX 5811 SAN MATEO, CA 94402	ALAMEDA, CA Sales: John Beale
ì	DAN MAILU, CA JAAVZ	

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ACCT	COST CENTER	FAC. #	ТҮРЕ
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<i>,</i>	MICH		25/90
Approved:	K. A. Chris	itie	

NOTE: SERVICES RENDERED 12/18/90

Please Remit To:	LAIDLAW ENV. SVCS (LOKERN), INC LOKERN		
1	LOVERN		
	P.O. BOX 100026		00070
	PASADENA, CA 91189-0025	TOTAL DUE	\$ 20379.4

LAIDLAW Environmental 5500 Ming Avenue Suite 130 Bekersteit au	LOKERN LAIDLAW 5500 MING BAKERSFIEL Telephone:	AVE, SUÌ D, CA 9	3309	INC.		1801221017
Bakersfield, CA 93309 (RN5) 835-5801	FEDERAL ID	NUMBER:	57-089147		UEC 31 1990	Page 001
ATTN: ACCOUN ARCO PRODUCT P.O.BOX 5811		880.	120	ARCO	SS#2112	34
SAN MATEO, CA	A 94402		•		IEDA, CA IS: JOHN BEALE	

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187820	22.910	DISPOSAL MANIFEST	SOLIDS			60.0000 G1216		1374.50
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ACOT	COST CENTER	F/.C. #	TYPE
3491	1232	2112	21
Approved:	K. A. Christ		2/15/91
No MON AUTHO	HO TO MANA RIZOD IN '9	60.00	, work

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HOTE: SERVICES RENDERED 12/19/90

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											<u> </u>		



PWI GSX SERVICES (PW) INC. 5500 MING AVE. SUITE 130 BAKERSFIELD, CA 93309 Telephone: 805/835-5801

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	0/27/90	1800927027	÷
	DATE	INVOICE NO.	
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	UCT 0 2 1990		
472	K.A. CHRISTIE	Page 001	
ARCO			

FEDERAL ID NUMBER: 57-08914

ATTN: ACCOUNTS PAYABLE ARCO PRODUCTS COMP F.O.BOX 5811	ARCO 34
SAN MATEO, CA 94402	ALAMEDA, CA Sales: John Beale

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184862 24	4.310 - DISPOSAL MANIFEST	L SOLIDS	WASTE COD	60.0000	1458.60
124860 23	3.960 / DISPOSAL	L SOLIDS	WASTE COD	60.0000	1437.60
184861 23	MANIFEST 3.930 / DISPOSAL	L SOLIDS	WASTE COD	60.0000	1435.80
184895 23	MANIFEST 1.750/DISPOSAL	SOLIDS	WASTE COD	60.0000	1305.00
184890 24	MANIFEST 4.910 DISPOSAL	SOLIDS	WASTE COD	60.0000	1494.60
184897 23	ANIFEST 3.590 DISPOSAL	SOLIDS	WASTE COD	60.0000	1415.40
184896 23	MANIFEST 3.630 DISPOSAL	SOLIDS	WASTE COD	60.0000	1417.80
184902 24	MANIFEST 1.190 DISPOSAL	SOLIDS	WASTE COD	E: G1216 60.0000	1451.40
	MANIFEST	' # 2851	WASTE COD		

DISFOSAL GROUP SUBTOTAL

\$ 14324.40

238.74 TONS & 6000 = 14, 324.40

Please Remit To:

PWI GSX SERVICES (PW) INC. P.O. BOX 100026 PASADENA. <u>CA 91189</u> aarc

GSX	PWI GSX SERVICES (PW) 5500 MING AVE. SU	UITE 130	03/27/90 DATE	1800927027 INVOICE NO.	
	BAKERSFIELD, CA Telephone: 805/83	35-5801	4 - 14 ²		
	FEDERAL ID NUMBER	4 57-0891472			
	~~~	_		Page 002	
ATTN: ACCOUN ARCO PRODUCT: P.O.BOX 5811	S COMP	ARCO			
SAN MATEO, CA	A 94402	ALAMEI Sales	DA, CA : John Beale	, ,	
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Non-Hazar	dous Solid:	477480.00 LBS	238.74	TON	

ACCT COST CENTER CAPITALIZE # 7,500 TO BURING TANK PULL AT *	FAC. # SOL DISI 2112	TYPE Posal
CAPITALIZE \$ 6,824.40 TO	ORILING	PIELOR TO
Approved:K. A. Christia		0/8/90

NOTE: SERVICES RENDERED 9/24/90

Please	Remit	To:	PWI
			GSX SERVICES (PW) INC.
			P.O. BOX 100026
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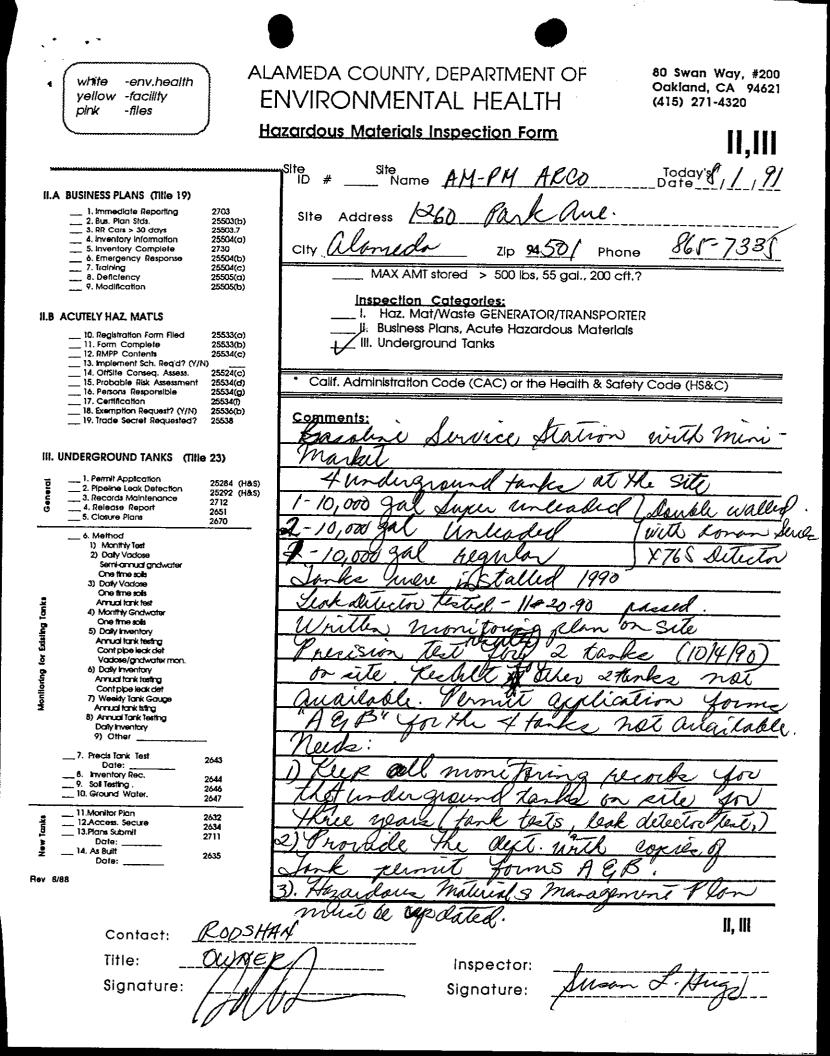
# RECEIVED

AUG 10 1990 K.A. CHRISTIE

RUP IVED ocr 1 1 isso SAN FRANCISCO REGION

543-4835	DATE: OUR INVOIC JOB NO.: CUSTOMER'S CUSTOMER'S	P.O. NO.:	AUGUST 7, 1 0890-037 5073 RM110439 KAC-90-17(	
AND NIGHT: 54	ARCO PRODUCTS COMPANY P.O. BOX 5811 SAN MATEO, CALIFORNIA 94402			
DAV	FURNISHED VACUUM TRUCK AND OPERATO AND DISPOSE OF SAME.	or to pump	OUT OIL AND	WATER,
A 94107 •		ATION #211 RK STREET , CALIFORN		
CHINA BASIN, SAN FRANCISCO, CA	VAC. TRUCK & OPERATOR (4.5 HOU DISPOSAL OF OIL AND WATER (560 DISPOSAL OF FUEL (240 GALS. @ SOLIDS SURCHARGE (8 GALS. @ 3. LAB ANALYSIS BRIDGE TOLLS	GALS. @ . 1.50)	)) \$ 30)	292.50 168.00 360.00 28.00 200.00 10.00
SIN, SAN	TOTAL INV	OICE	\$ 1,	058.50
IINA BA:	OK to Aug: RE Mile . Arc # 5014 Extra?	0/8/90		
<b>9</b> 220 CH	enu,?	BALAN BALAN	MONTH CARRYIN SE ON REMAINING CE AFTER JJ DAYS ERCENTAGE RATE 10	
L	RACI COST CENTER FAC. # T RAGI J232 2112 3	YPE PULL	ant of cont	TAMINATES
	Approved: K. A. Christie			

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х — <b>(</b> )		
ameda County - Department of Environmen	tal Health – Hazardous Materials Division	
80 Swan Way, *200 Oakland	, CA 94621 (415) 271-4320	
BILLING ADJUS	STMENT FORM	
Pam Affected Billin		
11	[] GeneratorH	
8/1/91	[] AB2185 L M UGT T G1043	
5tID# :		
1	Phone:	
Name : ARCO STATION # (	02/12	
ress: 1260 Park St.	Alameda 94501	
ed Changes : Carol Ra-hill p	or state charges New Inst	
ed Changes : Carel Ra-hill p (5 1990 · also only has	re 446T now.	
U U	Initials:	
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·. • •	
• •	ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION
·	80 SWAN WAY, ROOM 200 OAKLAND, CA 94621 #415/271-4320
	NOT A GENERATOR
	FACILITY QUESTIONNAIRE
	ERAL INFORMATION
1.	Establishment Name: <u>AM-PM APCO</u>
2.	Site Address: 1260 PARK AVE.
	city ALAMEDA zip 44501
3.	Mailing Address (if different):
	city ALAMEDA Zip 94601
4.	Contact Person: <u>RooSHAN</u> Phone: <u>9657335</u>
5.	Owner Name: _ ROOSHAW Owner Phone: 548444
	Name of Previous Owner:
7.	Date you assumed business:
8.	Std. Industrial Classification 9. Type of Business: (SIC) <u>5574</u> <u>- CASSollance</u>
10.	Number of Employees: 11. EPA ID #:
PER	MITS Check if you have permits from any of the following:
<u>L</u> 12.	<u>ocal Agencies</u> [] Local Sewer District (industrial waste discharges)
13.	Name of District ['] City or Local Fire Dept. (Underground tanks, storage) Name of City or Dept
14.	Type of Permit Alameda County Dept. of Health (Underground tanks)
15. 16.	[] S.F. Regional Water Quality Management District
17.	ALIFORNIA Department of Health Services: [] Treatment, Storage, Disposal Facility [] Hazardous Waste Hauler <u>County Use Only</u>
7 <b>0</b> •	[] Mazdradds Wabet 110100 # Site ID []1 Entry []2

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Alameda County, HazMat Generator Questionnaire

Site ID No: ____*

#### **OTHER**

Please check if the following applies at your facility:

- 19. [ ] Acutely hazardous materials are handled (Attachment 1)
- 20. [1] More than 500 lbs, 55 gal. or 200 cu. ft. of hazardous materials are handled (per year?) (See attachment 2)
- 21. [] Hazardous materials are contained in underground tanks or sumps.
- 22. You have submitted a business plan to the Alameda County Division of Hazardous Materials under California Health & Safety Code, Chapter 6.95.
- 23. Which of the following categories of hazardous materials are handled at your facility: [ Toxic [] Corrosive [L] Flammable [] Reactive

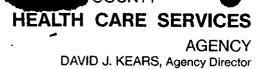
# 24. LIST OF CHEMICALS HANDLED

Please list the County Inventory Numbers (CIN) or Chemical Abstract Service (CAS) numbers of any of the hazardous chemicals that you handle. CIN numbers have been assigned to the more commonly used hazardous chemicals. If CAS numbers are used, please precede each number with an asterisk (*).

GASOLINE	
	· · · · · · · · · · · · · · · · · · ·
	·
	· · · · · · · · · · · · · · · · · · ·
CERTIFICATION I hereby certify that the information o	on this form is, to the best of
my knowledge, true and complete.	ROSHAN Typed or Printed Name
26. <u>OUNER</u>	Typed or Printed Name 8/1 /9/
26. <u>() u/( )</u> Title	Date

Department of Environmental Health Hazardous Materials Division

Please return completed form to:





August 3, 1991

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

Ms. Elaine Lavine Arco Products Company Suite 218 2000 Alameda de las Pulgas San Mateo, California 94403

RE: Underground Storage Tank Inspection at ARCO Facility # 2112 1260 Park Street, Alameda, California 94501

Dear Ms. Lavine:

On August 1, 1991, the above referenced station was inspected by the Alameda County Department of Environmental Health, Hazardous Materials Division for compliance with Title 23 of the California Code of Regulations, and Chapter 6.7 of the California Health and Safety Code. The following list of violations were identified:

- * As-built drawings of the facility indicating the actual location and orientation of the four underground storage tanks and appurtenant piping systems have not been submitted to this office since the installation of the tanks on August, 1990. Records in our file showed that a letter from this office dated April 23, 1990 which was sent to Mr. Kyle Christy stated that tank and piping as-builts must be submitted within 30 days upon completion of tank installation.
- * Records of the initial precision test performed on the four underground tanks at the facility are incomplete. Only two precision test results were available on site.
- * Underground storage tank permit applications submitted to this office were either incorrect or incomplete. As stated in the letter from this office dated April 23, 1990 which was addressed to Mr. Kyle Christy, the four blank application "Part B" forms must be completed for each underground tank and re-submitted to this department. Our office have not received these "Part B" forms.
- * Records of leak detector repair showed that the alarm system experienced at least four times being in the alarm mode since the installation of the underground tanks on August, 1990. Mr. Rooshan explained that this situation is due to water run off which collects at the sump. This office is concerned that these false alarms are not actual unauthorized releases.

Ms. Elaine Lavine August 3, 1991 Page 2 of 2

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Please submit a **Plan of Correction** to this department within 15 days of the date of this letter or by **August 18, 1991** to resolve the violations noted above.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely, Susan L. Hugo

Susan L. Hugo ^V Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health Mark Thompson, Alameda County District Attorney's Office Javad Rooshan, Dealer (1260 Park Street, Alameda, CA 94501) √files

## ALAMEDA COUNTY

#### HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director

August 3, 1991

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

Mr. Chuck Carmel Arco Products Company 2000 Alameda de las Pulgas Suite 218 San Mateo, California 94403

AGENCY

RE: Investigation of Subsurface and Groundwater Contamination at ARCO Facility # 2112 - 1260 Park St. Alameda, CA 94501

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the soil and groundwater contamination from underground storage tanks at the referenced site. We are in receipt of the following reports:

Limited Environmental Site Assessment (February 20, 1990)
prepared by Applied Geosystems
Tank Replacement Observation Report (November 7, 1990)
prepared by GeoStrategies, Inc.
Workplan (January 2, 1991) prepared by GeoStrategies, Inc.
Trench Excavation/Soil Aeration Report (May 3, 1991)
prepared by GeoStrategies, Inc.

Through telephone conversation between Mr. Kyle Christy and a representative from this office on February 14, 1991, it was discussed that ARCO planned to remediate the remaining contaminated soil through in-situ soil vapor extraction rather than through soil excavation, treatment and disposal. Mr. Christy stated that the January 2, 1991 Workplan was a preliminary work plan and would be revised depending on the additional soil contamination data that would be obtained when the remaining piping from the former underground storage tanks was removed. We were advised by Mr. Christy that ARCO would contact this office concerning on whether or not there would be a revision in the January 2, 1991 Work Plan. It is still unclear at this time if all the pipings associated with the former underground storage tanks have been removed. This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised.

The Alameda County District Attorney has informed this office, ARCO represents we have delayed responding to your January 2, 1991 proposal. Actually we have been waiting to hear from ARCO. Nevertheless, we have reviwed the proposal and note the following areas of concern to this department which must be addressed: Mr. Chuck Carmel August 3, 1991 Page 2 of 4

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  - Monitoring wells must be screened to intercept any free floating product. All monitoring wells must be sampled monthly for free product and analyzed for TPH gasoline, TPH diesel, BTXE, and oil and grease by a State certified laboratory for the first three months following well installation. After three months of consecutive sampling, sampling may be conducted as needed for remediation purposes but must occur at least quarterly. Before each

Mr. Chuck Carmel August 3, 1991 Page 3 of 4

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  - c) determination of aquifer characteristic and capture zone of the extraction system.
- Permit requirements from other regulatory agencies which are applicable to the proposed remediation system must be followed.
- * Reports documenting implementation of the workplan must contain:
  - 1. Actions that have occurred since the last report
  - 2. Water level records
  - 3. Clear records of field observations
  - 4. Chain of custody forms
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  - 13. Copies of TSDF to Generator manifests for any hazardous wastes hauled off site.

Mr. Chuck Carmel August 3, 1991 Page 4 of 4

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Please be aware that any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely, Susan L. Hugo

Susan L. Hugo Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health Lester Feldman, San Francisco Bay RWQCB Howard Hatayama, State Department of Health Services Keith Bullock, Gettler-Ryan Inc. Mark Thompson, Alameda County District Attorney's Office Viles

### ALAMEDA COUNTY

# **"HEALTH CARE SERVICES**



DAVID J. KEARS, Agency Director

August 3, 1991

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

Mr. Chuck Carmel Arco Products Company 2000 Alameda de las Pulgas Suite 218 San Mateo, California 94403

AGENCY

RE: Investigation of Subsurface and Groundwater Contamination at ARCO Facility # 2112 - 1260 Park St. Alameda, CA 94501

Dear Mr. Carmel:

The Alameda County Department of Environmental Health, Hazardous Materials Division has reviewed the files concerning the soil and groundwater contamination from underground storage tanks at the referenced site. We are in receipt of the following reports:

Limited Environmental Site Assessment (February 20, 1990) prepared by Applied Geosystems

Tank Replacement Observation Report (November 7, 1990) prepared by GeoStrategies, Inc.

Workplan (January 2, 1991) prepared by GeoStrategies, Inc. Trench Excavation/Soil Aeration Report (May 3, 1991) prepared by GeoStrategies, Inc.

Through telephone conversation between Mr. Kyle Christy and a representative from this office on February 14, 1991, it was discussed that ARCO planned to remediate the remaining contaminated soil through in-situ soil vapor extraction rather than through soil excavation, treatment and disposal. Mr. Christy stated that the January 2, 1991 Workplan was a preliminary work plan and would be revised depending on the additional soil contamination data that would be obtained when the remaining piping from the former underground storage tanks was removed. We were advised by Mr. Christy that ARCO would contact this office concerning on whether or not there would be a revision in the January 2, 1991 Work Plan. It is still unclear at this time if all the pipings associated with the former underground storage tanks have been removed. This office was never informed subsequent to February 14, 1991 as to whether or not the workplan was to be revised.

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Mr. Chuck Carmel August 3, 1991 Page 3 of 4

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Mr. Chuck Carmel August 3, 1991 Page 4 of 4

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Please be aware that any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely, Susan L. Hugo

Susan L. Hugo Hazardous Materials Specialist

CC: Rafat A. Shahid, Asst. Agency Director, Environmental Health Lester Feldman, San Francisco Bay RWQCB Howard Hatayama, State Department of Health Services Keith Bullock, Gettler-Ryan Inc. Mark Thompson, Alameda County District Attorney's Office Files ALAMEDA COUNTY

### HEALTH CARE SERVICES



AGENCY DAVID J. KEARS, Agency Director

August 3, 1991

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

Ms. Elaine Lavine Arco Products Company Suite 218 2000 Alameda de las Pulgas San Mateo, California 94403

RE: Underground Storage Tank Inspection at ARCO Facility # 2112 1260 Park Street, Alameda, California 94501

Dear Ms. Lavine:

On August 1, 1991, the above referenced station was inspected by the Alameda County Department of Environmental Health, Hazardous Materials Division for compliance with Title 23 of the California Code of Regulations, and Chapter 6.7 of the California Health and Safety Code. The following list of violations were identified:

- * As-built drawings of the facility indicating the actual location and orientation of the four underground storage tanks and appurtenant piping systems have not been submitted to this office since the installation of the tanks on August, 1990. Records in our file showed that a letter from this office dated April 23, 1990 which was sent to Mr. Kyle Christy stated that tank and piping as-builts must be submitted within 30 days upon completion of tank installation.
- * Records of the initial precision test performed on the four underground tanks at the facility are incomplete. Only two precision test results were available on site.
- * Underground storage tank permit applications submitted to this office were either incorrect or incomplete. As stated in the letter from this office dated April 23, 1990 which was addressed to Mr. Kyle Christy, the four blank application "Part B" forms must be completed for each underground tank and re-submitted to this department. Our office have not received these "Part B" forms.
- * Records of leak detector repair showed that the alarm system experienced at least four times being in the alarm mode since the installation of the underground tanks on August, 1990. Mr. Rooshan explained that this situation is due to water run off which collects at the sump. This office is concerned that these false alarms are not actual unauthorized releases.

Ms. Elaine Lavine August 3, 1991 Page 2 of 2

Please submit a **Plan of Correction** to this department within 15 days of the date of this letter or by **August 18, 1991** to resolve the violations noted above.

Should you have any questions about this letter, please contact me at (415) 271-4320.

Sincerely,

Susan L. Hugo Susan L. Hugo

Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health Mark Thompson, Alameda County District Attorney's Office Javad Rooshan, Dealer (1260 Park Street, Alameda, CA 94501) files 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.

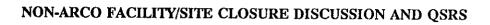
ARCO is planning a subsequent comprehensive QSR submittal for ARCO sites on October 15, 1991. Please do not hesitate to contact us with any questions regarding this submittal.

Sincerely,

Pari Struatters

Kyle A. Christie Environmental Engineer

Attachments: Non-ARCO Facility/Site Closure Discussion and QSRs ARCO Facility 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 2112 1260 Park Street Alameda, California 94501

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 the month of June, 1991.

### Status of Previous Month's Activities:

* May 3, 1991: GeoStrategies Inc. Trench Excavation/Soil Acration Report was issued.

* May 20, 1991: Keith Bullock (Gettler-Ryan Inc.) called Alameda County Health Agency to speak with Katherine Chesick at the Department of Environmental Health regarding the Work Plan issued on Jan. 2, 1991. At this time, the report had not been reviewed and due to personnel changes she was no longer in charge of this site and did not know who was overseeing it.

### Anticipated Work to be Performed in the Next Month:

* June 18, 1991: Keith Bullock (Gettler-Ryan Inc.) spoke with Mr. Lowell Miller to get the January 2, 1991 GSI Work Plan approved. He said he would find out who was overseeing the site and call Gettler-Ryan Inc. back.

* Gettler-Ryan Inc. will start work upon approval of the Work Plan by the Alameda County Health Agency.

Please call if you have any questions concerning this letter.

Sincerely,

3 E 15

Keith Bullock

KB/elm

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**III. UNDERGROUND TANKS** 1. Permit Application

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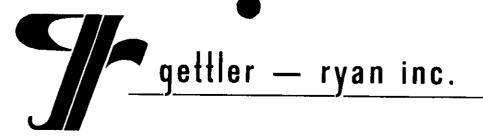
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# ALAMEDA COUNTY, DEPARTMENT OF

80 Swan Way, #200 Oakland, CA 94621

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KB/elm

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### <u>REPORT</u>

Limited Environmental Site Assessment Tank Replacement Report

Work Plan /

February 20, 1990	A
November 7, 1990	G
January 2, 1991	G

<u>DATE</u>

CONSULTANT

Applied GeoSystems GeoStrategies Inc.

_ ....

GeoStrategies Inc.

**ARCO Products Compan** 

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



April 19, 1991

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

> SUBJECT: ARCO Facility #2112 1260 Park Street Alameda, CA 94501

Dear Mr. Howell:

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

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

Sincerely,

Elaine J. Lavine Environmental Compliance Administrator

enc.

91 APR 22 AM 10: 53

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT					
EMERGENCY HAS STATE OFFICE OF EMERGENCY SERV REPORT BEEN FILED ? X YES REPORT DATE (MM-DD-YY) CASE #		FOR LOCAL AGENCY U INEREBY CERTIFY TH HAVE REPORTED THIS 2010D/ OF THE HEALTH	SE ONLY VI AM A DESIGNATED INFORMATION TO LOC TAND SAPETY CODE:	GOVERNMENTEN JAL OPPICIALS PUI	
04/19/91 16425		Malleron SIGNED	e Neque	<u>k</u>	V LATE
NAME OF INDIVIDUAL FILING REPORT Elaine Lavine REPRESENTING XOWNERVOPERATOR PEGIONAL B CLOCAL AGENCY OTHER ADDRESS P.O. Box 5811		5)-571-2482 COMPANY OR AGENCY	SIGNATURE Clair NAME Oducts Company	in J. X	P avin
ADDRESS P.O. Box 5811 STREET		San Mateo CITY	· · · · · · · · · · · · · · · · · · ·	CA	94402
ARCO Products Company □UNKNOWN		CONTACT PERSON Elaine J. Lavine	;	STATE PHONE (415)-57	 71-2482
	pt.	San Mateo CITY		CA state	94402 ZP
FACILITY NAME (F APPLICABLE) ARCO FACILITY 02112		OPERATOR JAVAD ROOSH	AN	PHONE (415)-80	55-7335
ARCO FACILITY 02112 ADDRESS 1260 PARK STREET STREET CROSS STREET	f				94501 ZP
CROSS STREET ENCINAL/PARK ST				COUNT	
LOCAL AGENCY AGENCY NAME ALAMEDA COUNTY PUBLIC HEALTH PEGIONAL BOARD SAN FRANCISCO BAY REGION	·····	CONTACT PERSON ED HOWELL	SENIOR SP	PHONE (415)-27	1-4320
	STEVE LUQUI	IRE	PHONE (415)-46	4-1255	
	NAME			QUANTITY LOST	
				QUANTITY LOST	(GALLONS)
DATE DISCOVERED (MM-DD-YY) HOW DISCOVERED [ 04/11/1991 TANK TEST			SUBSURFACE MONITO		
Date discharge began (MM-DD-YY)       Method used to stop discharge (Check all that Apply)         04/11/1991       UNKNOWN         Has discharge been stopped ?       Remove contents         Repair tank       Repair piping         Charge been stopped ?       Charge procedure					
X yes       NO       If yes, date       04/11/1991       X other       broken hose         SOURCE OF DISCHARGE       CAUSE(S)         TANK LEAK       UNKNOWN       OVERFILL       X RUPTURE/FAILURE [ 08'5]         PPING LEAK       X other       CORROSION       UNKNOWN			SPILL OTHER		
CHECK ONE ONLY       PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED       POLLUTION CHARACTERIZATION         Image: Section Constrained       PRELIMINARY SITE ASSESSMENT UNDERWAY       POST CLEANUP MONITORING IN PROGRESS         Image: Section Constrained       PRELIMINARY SITE ASSESSMENT UNDERWAY       POST CLEANUP MONITORING IN PROGRESS         Image: Section Constrained       PRELIMINARY SITE ASSESSMENT UNDERWAY       POST CLEANUP MONITORING IN PROGRESS         Image: Section Constrained       Image: Section Constrained       PRELIMINARY SITE ASSESSMENT UNDERWAY       POST CLEANUP MONITORING IN PROGRESS         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       POST CLEANUP MONITORING IN PROGRESS         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       Image: Section Constrained         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       Image: Section Constrained         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       Image: Section Constrained         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       Image: Section Constrained         Image: Section Constrained       Image: Section Constrained       Image: Section Constrained       Image: Section Constrained         Image: Section Consection Constra					
CHECK APPROPRIATE ACTION(S) EVACUATE AND DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT) CAP SITE (CD) EVACUATE AND TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA) TREATMENT AT HOOKUP (HU) VENT SUPPLY (VS) VACUUM EXTRACT (VE) OTHER (OT)					PLY (RS)
CALLED B/R MAINTENANCE TO MAKE REPAIRS. ALSO SHUT OFF SAFETY VALVE UNDER PUMP. HOSE REPAIRED. ALAMEDA COUNTY HEALTH DEPARTMENT AND OES HAVE BEEN NOTIFIED.					
					· · · · · · · · · · · · · · · · · · ·

	Date of Last		Current
SITE UPDATE	Review/Update	2: 1/3/91	Date: <u>4/8/91</u>
SITE IDENTIFICATION			
Jame: <u>Arco Products</u>	Company #2112		Case No
ddress: <u>1260</u>	<u> </u>	et	
Street Numbe	er	Street	
<u>Alameda</u>	<u></u>		94501
County: Alameda County	City	Cuhatan	Zip Code
Jocal Agency: Depart	tment of Environ	Substan mental Health	ce:_yasoline
egional Board: San F	rancisco Bay Reg	ion	ce: <u>gasoline</u>
			<u> </u>
EAD STAFF PERSON			
ASE TYPE			······
Undetermined	Soil Only _	Groundwate	rDrinking Water
TATUS (Date indicates	s when case move	ed into status)	- · · · · · · · · · · · · · · · · · · ·
No Action	Taken		
	( Confirmed		Date
Prelim. Sit	te Assessment Wo	rkplan Submitte	ed Date
	y Site Assessmen	it Underway	Date
	Characterization		Date
Remediation			Date
	ction Underway lial Action Monit	oning	Date
	red to Regional		Date
	red to Dept. of		Date
Case Close	d	nearen bervices	Date Date
EMEDIAL ACTIONS.3-4	anor extraction	wells 4 around	vater monitoring wells,
nd 1 recovery well ar	ce proposed.	werrs, 4 ground	valer monitoring wells,
OMMENTS:A tank repla Larter of 1990. Conta	minated soil was	aerated on site	e and/or shipped to
ne appropriate dispos	al site. Addition	al contaminated	soil will be
emediated in-situ. A page submitted Tanuary	remediai plan ha	s been proposed	in a report that
as submitted January aronological listing c	of reports issued	l for this site.	acnea page for a
ESPONSIBLE PARTY IDE	ENTIFICATION (on	ly if newly dis	covered or changed)
			- · ·
ontact:		Phone	()
dress:			
Street Num	ber		Street

REPORT	DATE	<u>CONSULTANT</u>
Limited Environmental Site Assessment	February 20, 1990	Applied GeoSystems
Tank Replacement Report	November 7, 1990	GeoStrategies Inc.
Work Plan	January 2, 1991	GeoStrategies Inc.

	UNDERGROUND STORAGE TANK UNAUTHORIZ	ED RELEASE (LEAK) / CONTAMINAT	ION SITE REPORT
EM	ERGENCY HAS STATE OFFICE OF EMERGENCY SERVICES	FOR LOCAL AGENCY USE ONLY	
REP		1HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFO DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON	HMATION ACCORDING TO THE THE BACK PAGE OF THIS FORI
Ū,	a $a$ $b$ $a$ $6$ $a$ $9$ $+$ $1$ $+$	Katherine, Chenck	2/6/21
	NAME OF INDIVIDUAL FILING REPORT	NE SIGNATURE	DATE
DΒY	Representing OWNER/OPERator DEGIONAL ROADD	5)271-4520 Talkering (	enck
ЕРОЯТЕР ВУ		Alameda Carata Ha Mat	Dunne
H	ADDRESS 80 Sum (a), Ren 200	and the start of the start	Division
	- Swart or g STREET	CONTACT PERSON	A 746 Z
NSIBLE TY	ARCO Produced Co. UNKNOWN	Kulo Churt -	PHONE
RESPONSIBLE PARTY	ADDRESS	S. 1.t.	
α,	FACILITY NAME (IF APPLICABLE)	City Taled	A 9440
ž	ARCO Station # 2112	OPERATOR	PHONE ( )
SITE LOCATION	ADDRESS	<u>A)</u>	17 1 01-
נעב רכ	CROSS STREET	Alameda A	lameda 945
S	Encinal Avenue		
IJ.	LOCAL AGENCY AGENCY NAME	CONTACT PERSON	PHONE
IMPLEMENTING AGENCIES	Maneria wuru nar har Iv.	Katherine Chenck	(415)271-43
MPLEM	La D ULIOCO	Lanta Fill	PHONE
		noster retaman	QUANTITY LOST (GALLONS)
SUBSTANCES INVOLVED	(tasoline		UNKN
SUBS	(2)		· · · · · · · · · · · · · · · · · · ·
۲	DATE DISCOVERED HOW DISCOVERED INV		
VTEME	O M ZM ZDOD 910 TANK TEST TAN	IK REMOVAL OTHER Borings	
Y/ABA		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT	
DISCOVERY/ABATEMEN	HAS DISCHARGE BEEN STOPPED ?	REMOVE CONTENTS CLOSE TANK & REMOVE	
DISC	YES IN NO IFYES, DATE ON 7 N Rol 6 0 9 VD.		
SE SE		/ERFILL RUPTURE/FAILURE DRROSION UNKNOWN	_ SPILL OTHER
SOURCE/ CAUSE	CHECK ONE ONLY		
			HAVE ACTUALLY REEN AFEE
		DRINKING WATER - (CHECK ONLY IF WATER WELLS	
CASE	CHECK ONE ONLY		
CASE	CHECK ONE ONLY  CHECK ONE ONLY  NO ACTION TAKEN  CHECK DEING CONFIRMED  PRELIMINARY SITE ASSESSMENT  CHECK BEING CONFIRMED  PRELIMINARY SITE ASSESSMENT	I WORKPLAN SUBMITTED POLLUTION CHAI	
CASE	CHECK ONE ONLY  CHECK ONE ONLY  NO ACTION TAKEN  CLEAK BEING CONFIRMED  REMEDIATION PLAN  CASE CLOSED (CLEANUP COMPL	I WORKPLAN SUBMITTED POLLUTION CHAI	RACTERIZATION IONITORING IN PROGRESS
STATUS TYPE	CHECK ONE ONLY ON ACTION TAKEN CLEAK BEING CONFIRMED REMEDIATION PLAN CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETALB) CHECK APPROPRIATE ACTION(S)	I WORKPLAN SUBMITTED POLLUTION CHAR UNDERWAY POST CLEANUP M ETED OR UNNECESSARY CLEANUP UNDER REMOVE FREE PRODUCT (FP)	RACTERIZATION MONITORING IN PROGRESS WAY
STATUS TYPE	CHECK ONE ONLY ON ACTION TAKEN CLEAK BEING CONFIRMED CLEAK BEING CONFIRMED REMEDIATION PLAN CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CAP SITE (CD) EXCAVATE & TREAT (ET)	I WORKPLAN SUBMITTED  I UNDERWAY  ETED OR UNNECESSARY)  REMOVE FREE PRODUCT (FP)  PUMP & TREAT GROUNDWATER (GT)	RACTERIZATION IONITORING IN PROGRESS IWAY ENHANCED BIO DEGRADATIC REPLACE SUPPLY (RS)
STATUS TYPE	CHECK ONE ONLY ON ACTION TAKEN CLEAK BEING CONFIRMED CLEAK BEING CONFIRMED REMEDIATION PLAN CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CAP SITE (CD) EXCAVATE & TREAT (ET)	I WORKPLAN SUBMITTED     POLLUTION CHAI       I UNDERWAY     POST CLEANUP M       LETED OR UNNECESSARY)     CLEANUP UNDER       )     REMOVE FREE PRODUCT (FP)       PUMP & TREAT GROUNDWATER (GT)	RACTERIZATION MONITORING IN PROGRESS IWAY ENHANCED BIO DEGRADATIO
ACTION STATUS TYPE	CHECK ONE ONLY ON ACTION TAKEN PRELIMINARY SITE ASSESSMENT CLEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT CASE CLOSED (CLEANUP COMPL CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CAP SITE (CD) CAP SITE (CD) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA VACUUM EXTRACT (VE) OTHER (OT)	TWORKPLAN SUBMITTED POLLUTION CHAR TUNDERWAY POST CLEANUP INDER ETED OR UNNECESSARY CLEANUP UNDER REMOVE FREE PRODUCT (FP) PUMP & TREAT GROUNDWATER (GT) TREATMENT AT HOOKUP (HU)	RACTERIZATION IONITORING IN PROGRESS WAY ENHANCED BIO DEGRADATIC REPLACE SUPPLY (RS) VENT SOIL (VS)
ACTION STATUS TYPE	CHECK ONE ONLY ON ACTION TAKEN PRELIMINARY SITE ASSESSMENT CLEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT CASE CLOSED (CLEANUP COMPL CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CAP SITE (CD) CAP SITE (CD) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA VACUUM EXTRACT (VE) OTHER (OT)	TWORKPLAN SUBMITTED POLLUTION CHAR TUNDERWAY POST CLEANUP INDER ETED OR UNNECESSARY CLEANUP UNDER REMOVE FREE PRODUCT (FP) PUMP & TREAT GROUNDWATER (GT) TREATMENT AT HOOKUP (HU)	RACTERIZATION IONITORING IN PROGRESS WAY ENHANCED BIO DEGRADATIC REPLACE SUPPLY (RS) VENT SOIL (VS)
COMMENTS REMEDIAL CURRENT CASE SOURCE/ ACTION STATUS TYPE CAUSE	CHECK ONE ONLY ON ACTION TAKEN PRELIMINARY SITE ASSESSMENT CLEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT CASE CLOSED (CLEANUP COMPL CASE CLOSED (CLEANUP COMPL CHECK APPROPRIATE ACTION(S) (SEE BACK FORDETALS) CAP SITE (CD) CAP SITE (CD) CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA VACUUM EXTRACT (VE) OTHER (OT)	I WORKPLAN SUBMITTED       POLLUTION CHAIN         I UNDERWAY       POST CLEANUP IN         I ETED OR UNNECESSARY)       CLEANUP UNDER         I REMOVE FREE PRODUCT (FP)       PUMP & TREAT GROUNDWATER (GT)         PUMP & TREAT GROUNDWATER (GT)       TREATMENT AT HOOKUP (HU)         Pppm       found in the Soil found	RACTERIZATION IONITORING IN PROGRESS WAY ENHANCED BIO DEGRADATIC REPLACE SUPPLY (RS) VENT SOIL (VS)

#### 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 Realth 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.

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

### ASE 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.

Fost 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 944212, Sacramento, CA 94244-2120
- 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.

f	UNDERGROUND STORAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINATION SITE REPORT
REI	HAS STATE OFFICE OF EMERGENCY SERVICES YES NO YES YOU NO YES NO	FOR LOCAL AGENCY USE ONLY THEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM TRANSPORT
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT PHONE Katherine Hesick (4/4) REPRESENTING OWNER/OPERATOR REGIONAL BOARD	SIZI11-4320 Jate Cherck
	ADDRESS 80 Swan Way street	Alamoda County Hay. Mat. Division Oakland CA 94621
RESPONSIBLE	ARCO Productor Co. UNKNOWN ADDRESS PO R. SSH	CONTACT PERSON Kyle Christie () San Maten (A 9440)
	ADDRESS	OPERATOR PHONE ()
SITE LOCATION	1260 Park JSTREET CROSS STREET Encinal Avenue	Alamedia Alamedia 9450/
MPLEMENTING AGENCIES	LOCAL AGENCY Alamentos Countin Hay Mat. Div. REGIONAL BOARD	CONTACT PERSON Katherurk Chenick (415)271-4320 PHONE
SUBSTANCES IN INVOLVED		Lester Telaman (415)464-125 QUANTITY LOST (GALLONS)
		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
	HAS DISCHARGE BEEN STOPPED ?	HEMOVE CONTENTS     CLOSE TANK & REMOVE     REPAIR TANK     CLOSE TANK & FILL IN PLACE     CHANGE PROCEDURE     REPLACE TANK     OTHER
SOURCE/ CAUSE		RFILL RUPTURE/FAILURE SPILL
CASE	CHECK ONE ONLY UNDETERMINED SOIL ONLY GROUNDWATER CHECK ONE ONLY	DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED
CURRENT STATUS	NO ACTION TAKEN     PRELIMINARY SITE ASSESSMENT N       LEAK BEING CONFIRMED     PRELIMINARY SITE ASSESSMENT N       REMEDIATION PLAN     CASE CLOSED (CLEANUP COMPLEX)	JNDERWAY POST CLEANUP MONITORING IN PROGRESS
5 ″	CHECK APPROPRIATE ACTION(S) (SEE BACK (OR DETALS) CAP SITE (CD) • EXCAVATE & DISPOSE (ED) EXCAVATE & TREAT (ET)	REMOVE FREE PRODUCT (FP)     ENHANCED BIO DEGRADATION (IT     PUMP & TREAT GROUNDWATER (GT)     REPLACE SUPPLY (RS)
	CONTAINMENT BARRIER (CB)  CONTAINMENT BARRIER (CB)  VACUUM EXTRACT (VE)  OTHER (OT)	TREATMENT AT HOOKUP (HU) VENT SOIL (VS)

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#### TNSTRUCTIONS

#### EMERGENCY

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#### LOCAL AGENCY ONLY -

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#### REPORTED BY.

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

### RESPONSIBLE PARTY

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#### 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.

#### ASE 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.

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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. Broposal 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

<u>REMEDIAL ACTION</u> 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 Fermitting Agency
- 2. State Water Resources Control Board, Division of Clean Water Programs, Underground Storage Tank Program, P.O. Box 944212, Sacramento, CA 94244-2120
- 3. Regional Water Quality Control Board
- Local Health Officer and County Board of Supervisors or their designee to receive Proposition 65 notifications.
- 5. Owner/responsible party.

UST LEAK	Date of Last	Current
SITE UPDATE	Review / Update	Date1/3/91
SITE IDENTIFICATION	N	
Name Arco P	roduct Company #2112	Case No.
Address1260		
Siresi Nun	nber	Street
<u>Alamed</u>	a	94501
County Alamed		zip coo. Substance <u>gasoline</u>
Local Agency	Department of Environmental Health	
	North Coast	
LEAD STAFF PERSON		·
CASE TYPE		
Undetermined	Soil Only Ground	water Drinking Water
STATUS (Date indicat	es when case moved into status)	
No Action T		
Leak Being	Confirmed	Date
Prelim. Site	Assessment Workplan Submitted	Date
Preliminary	Site Assessment Underway	Date
	aracterization	Date
Remediation		Date
	ction Underway	Date
	ial Action Monitoring	Date
	ed to Regional Board	Date
	ed to Dept. of Health Services	Date
Case Closed	j	Date
REMEDIAL 3-vapor ACTIONS	extraction wells and 1 groundwater	recovery well as proposed.
1990. approp	replacement project was completed Contaminated soil was aerated on si riate disposal site. Additional cor ated in-situ.	ite and/or shipped to the
A reme 2, 199	dial plan has been proposed in a re 1.	port that was submitted January
Please issued	refer to the attached page for a c for this site.	hronological listing of reports
ESPONSIBLE PARTY	IDENTIFICATION (Only if newly discovered or	changed)
ame		
ontact		Phone ()
ddsasa	· · · · · · · · · · · · · · · · · · ·	- · · - \/
ddress		
Street Nu	muer	Street
	City State	ZIP Code

### <u>REPORT</u>

<u>DATE</u>

# <u>CONSULTANT</u>

Limited Environmental Site Assessment

Tank Replacement Report

Work Plan

February 20, 1990	Applied GeoSystems
November 7, 1990	GeoStrategies Inc.
January 2, 1991	GeoStrategies Inc.

UST LEAK Date of Last SITE UPDATE Review / Update	Current Date 1/3/91
SITE UPDATE Review / Update	Dote 1/3/91
	Date
SITE IDENTIFICATION	
Name Arco Product Company #2112	Case No.
Address Park Street	
	· · · · · · · · · · · · · · · · · · ·
Alameda	94501
Спу	ZIP Code
County <u>Alameda County</u>	Substance <u>gasoline</u>
Local Agency <u>Department of Environmental Health</u>	
Regional Board North Coast	
LEAD STAFF PERSON	
Undetermined Soil Only Groundwate	er 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 Case Referred to Regional Board	Date
Case Referred to Dept. of Health Services	Date
Case Closed	Date
	Date
REMEDIAL 3-vapor extraction wells and 1 groundwater rec ACTIONS	covery well as proposed.
COMMENTS A tank replacement project was completed dur	ing the fourth quarter of
1990. Contaminated soil was aerated on site appropriate disposal site. Additional contam remediated in-situ.	and/or shipped to the
A remedial plan has been proposed in a repor 2, 1991.	t that was submitted January
Please refer to the attached page for a chronissued for this site.	nological listing of reports
RESPONSIBLE PARTY IDENTIFICATION (Only if newly discovered or char	pged)
	ngeu)
Pi	hone ()
ddress	
Street Number Str	reet
City State	ZIP Code

# <u>REPORT</u>

<u>DATE</u>

### CONSULTANT

Limited Environmental Site Assessment

Tank Replacement Report

Work Plan

February 20, 1990	Applied GeoSystems
November 7, 1990	GeoStrategies Inc.
January 2, 1991	GeoStrategies Inc.

AGS 19011-1

SUMMARY REPORT Third Quarter 1990

ARCO Service Station 2112 1260 Park Street/Encinal Avenue Alameda, California Alameda County

### BACKGROUND

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

- January 22 and 29, 1990 Applied GeoSystems performed a Limited Environmental Site Assessment, including drilling six soil borings to depths ranging from 11-1/2 to 13 feet, with the exception of B-1, which was drilled to 25 feet (Plate 1). Soil samples were collected from B-1 for soils engineering purposes. This assessment was performed prior to future tank replacement activities at the site. Ground water was encountered in the borings at the site at 12 feet. (Applied GeoSystems Report 69048-1, dated February 20, 1990). Report submitted to RWQCB and ACHA.
- o March 12, 1990 Limited Environmental Site Assessment report submitted to RWQCB and ACHA.
- August 1990 Gettler-Ryan removed five underground gasoline-storage tanks from the site and excavated the majority of hydrocarbon-impacted soil near the pump island and beneath the former tanks. Stockpiled soil is presently being aerated onsite. Four 10,000-gallon tanks installed at site.

### SOIL CONDITIONS

No change from last quarter. See Applied GeoSystems Limited Environmental Site Assessment Report 69048-1, dated February 20, 1990, for laboratory results of soil samples collected at the site.

# QUARTERLY GROUND-WATER MONITORING

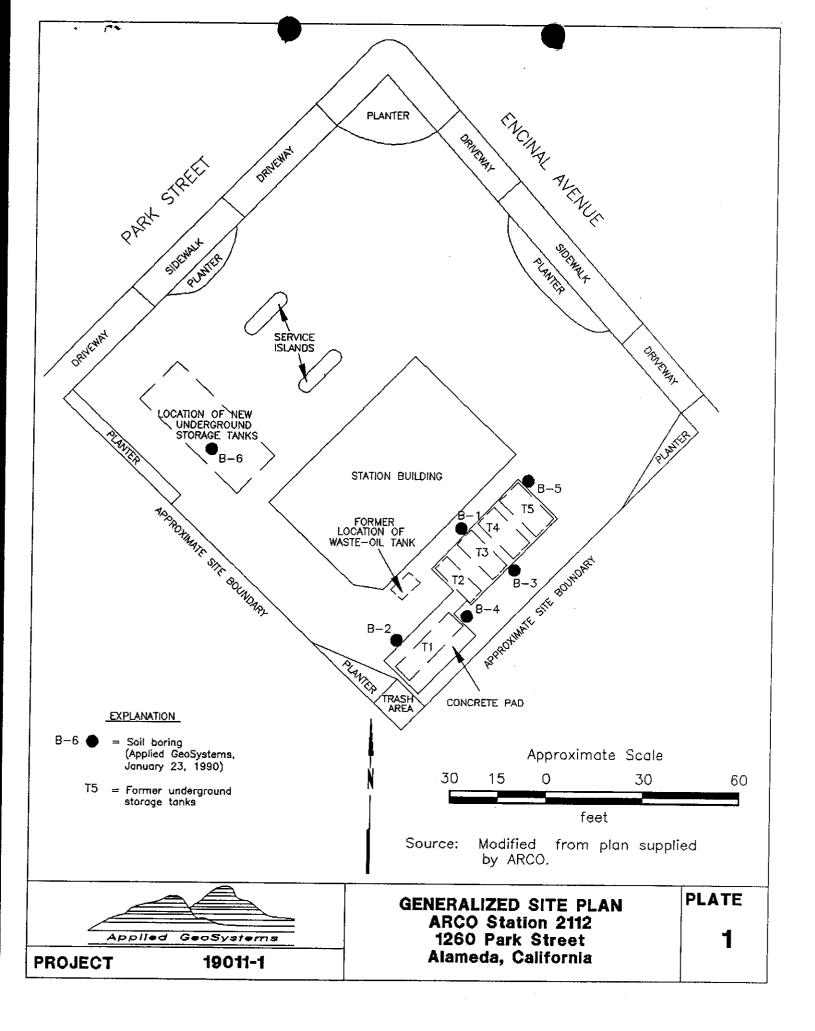
No monitoring wells onsite.

### STATUS SUMMARY: REMEDIATION

Hydrocarbon-impacted soil from the former underground storage tank pit was removed and is being aerated onsite. Options for further soil remediation will be considered in the future.

# ANTICIPATED WORK FOR NEXT QUARTER

o Prepare report summarizing results of tank removal at the site.



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ALAMEDA COUNTY

Site Brief for AB-2185 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
1	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		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
1794/IA1469	-	2223 Great Ave.	580 07/28/89 C
779/HL7119	Arco Station #00608	17601 Hesperian Blvd.	580 08/14/89 C

Report Total : 26

C=Current/Part2 M=Current/Part1 B=ready for Billing A=ready for Billing Status Codes:

Arco Stati

P=awaiting busPla I=Inactive

6211 Show Doub the

HAZARDOUS MATERIALS Site Brief for UNDERGROUND TANKS for the City of Alameda

ALAMEDA COUNTY

as of 12/28/90 pg 1

Status         Name of Site         Site Address         #Tanks         FERNITS:           BillID	UTID/			p	og I
BillID       1260 Park St.       5 1:09/06/88         761043       Alameda, CA 94501       F:-0-         784 C Arco Station #02035       1001 San Pablo Ave.       4 1:09/06/88         761043       Albany, CA 94706       F:-0-         658 C Arco Station #04977 AM/PM       2770 Castro Valley RDV.       3 1:09/06/88         761043       Castro Valley RDV.       3 1:09/06/88         761043       Castro Valley RDV.       3 1:09/06/88         761043       Castro Valley RDV.       4 1:09/06/88         761043       Castro Valley RDV.       4 1:09/06/88         761043       Dublin, CA 94568       F:-0-         761043       Dublin, CA 94568       F:-0-         761043       Dublin, CA 94568       F:-0-         761043       Hayward, CA 94501       F:-0-         700 C Arco Station #05387       20200 Hesperian Blvd.       100/06/88         712120       Hayward, CA 94550       F:-0-         7121120       Livermore, CA 94550       F:-0-         71200       Asymard, CA 94550       F:-0-         712120       Kong's Arco       2032 E 12th St.       0 1:0-         700 C Arco Station #02185       9800 E 14th St.       0 1:0-         71003       Oakland, CA		Name of Site	Site Address	#Tanka	DEDWING .
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$\frac{1}{742311}$ $309$ Bluebell Dr. $31:-0 -0-$ C Arco Station #00771 $B99$ Rincon Ave. $F:-0 198$ R Wong's Arco $2032$ E 12th St. $01:-0 761043$ $Livermore , CA 94550$ $F:-0 198$ R Wong's Arco $2032$ E 12th St. $01:-0 761043$ $CA 94606$ $F:-0 -0-$ C Arco Station #02185 $0akland , CA 94606$ $F:-0 761043$ $0akland , CA 94603$ $F:-0 1130$ C Freeway Arco $2740 - 98th$ Ave. $41:09/06/88$ $761043$ $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #02169 $889$ W. Grand Ave. $51:09/06/88$ $761043$ $0akland , CA 94617$ $F:-0 -0-$ C Arco Station #04494 $0akland , CA 94612$ $F:-0 -0-$ C Arco Station #04494 $0akland , CA 94612$ $F:-0 -0-$ C Arco Station #04931 $731$ W. MacArthur Blvd. $31:02/05/88$ $761043$ $0akland , CA 94619$ $F:-0 -0-$ C Arco Station #0276 $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #0276 $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #02107 $3310$ Park Blvd. $31:09/06/88$ $761043$ $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #02107 $0310$ Park Blvd. $31:09/06/88$ $761043$ $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #06128 $0akland , CA 94605$ $F:-0 -0-$ C Arco Station #06148 $0akland , CA 94605$ $F:-0 761043$ $0akland , CA 94605$ <			Havward CA 94541		
T42311Livermore , CA 94550 $F:-0-$ -0- C Arco Station #00771899 Rincon Ave.5 I:09/06/88T61043Livermore , CA 94550 $F:-0-$ 198 R Wong's Arco2032 E 12th St.0 I:-0-T61026Oakland , CA 94606 $F:-0-$ *-0- C Arco Station #021859800 E 14th St.4 I:09/06/88T61043Oakland , CA 94603 $F:-0-$ T61043Oakland , CA 94605 $F:-0-$ -0- C Arco Station #02169889 W. Grand Ave.5 I:09/06/88T61043Oakland , CA 94607 $F:-0-$ -0- C Arco Station #02169889 W. Grand Ave.5 I:09/06/88T61043Oakland , CA 94607 $F:-0-$ -0- C Arco Station #04494566 Hegenberger Rd.3 I:02/05/88T61043Oakland , CA 94612 $F:-0-$ -0- C Arco Station #04931731 W. MacArthur Blvd.4 I:09/06/88T61043Oakland , CA 94619 $F:-0-$ -0- C Arco Station #00276I0600 MacArthur Blvd.3 I:09/06/88T61043Oakland , CA 94605 $F:-0-$ -0- C Arco Station #021073310 Park Blvd.3 I:09/06/88T61043Oakland , CA 94605 $F:-0-$ -0- C Arco Station #021073310 Park Blvd.3 I:09/06/88T61043Oakland , CA 94605 $F:-0-$ -0- C Arco Station #061485131 Shattuck Ave.3 I:09/06/88T61043Oakland , CA 94609 $F:-0-$ -0- C Arco Station #061485131 Shattuck Ave.3 I:09/06/88T61043Oakland , CA 94609 $F:-0-$ -0- C Arco		Springtown Arco	909 Bluebell Dr		
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1130 C Freeway Arco $2740 - 98th$ Ave. $4$ I:10/13/87TA1036Oakland , CA 94605F:-0- $-0 -$ C Arco Station #02169889 W. Grand Ave.5 I:09/06/88T61043Oakland , CA 94607F:-0- $-0 -$ Oakland , CA 94607F:-0- $-0 -$ Oakland , CA 94612F:-0- $-0 -$ Oakland , CA 94621F:-0- $-0 -$ Oakland , CA 94621F:-0- $-0 -$ Oakland , CA 94621F:-0- $-0 -$ Oakland , CA 94619F:-0- $-0 -$ C Arco Station #04931731 W. MacArthur Blvd.4 I:09/06/88T61043Oakland , CA 94619F:-0- $-0 -$ C Arco Station #00276I0600 MacArthur Blvd.3 I:09/06/88T61043Oakland , CA 94605F:-0- $-0 -$ C Arco Station #00276I0600 MacArthur Blvd.3 I:09/06/88T61043Oakland , CA 94605F:-0- $-0 -$ C Arco Station #021073310 Park Blvd.3 I:09/06/88T61043Oakland , CA 94602F:-0- $-0 -$ C Arco Station #06026235 Seminary Ave.3 I:09/06/88T61043Oakland , CA 94605F:-0- $-0 -$ C Arco Station #061485131 Shattuck Ave.3 I:09/06/88T61043Oakland , CA 94609F:-0- $-0 -$ C Arco Station #0602Ga25 Seminary Ave.3 I:09/06/88T61043Oakland , CA 94605F:-0- $-0 -$ C Arco Station #061485131 Shattuck Ave.3 I:09/06/88T61043Oakland , CA 94609F:-0- $-0 -$ San Leandro , CA 94509 <t< td=""><td></td><td>moo beaction #02100</td><td></td><td></td><td></td></t<>		moo beaction #02100			
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-0-       C Arco Station #00276       10600 MacArthur Blvd.       3 I:09/06/88         T61043       Oakland , CA 94605       F:-0-         851 C Mountain Blvd. Arco       2844 Mountain Blvd.       4 I:04/14/88         T41043       Oakland , CA 94602       F:-0-         -0-       C Arco Station #02107       3310 Park Blvd.       3 I:09/06/88         T61043       Oakland , CA 94602       F:-0-         -0-       C Arco Station #06002       6235 Seminary Ave.       4 I:09/06/88         T61043       Oakland , CA 94605       F:-0-         -0-       C Arco Station #06048       5131 Shattuck Ave.       3 I:09/06/88         T61043       Oakland , CA 94609       F:-0-         -0-       C Arco Station #00374       Oakland , CA 94609       F:-0-         -0-       F Freedom Arco       15101 Freedom Ave.       3 I:09/06/88         T61043       Oakland , CA 94609       F:-0-         -0-       F Freedom Arco       15101 Freedom Ave.       3 I:09/06/88         -0-       F Freedom Arco       15101 Freedom Ave.       3 I:-0-         -0-       San Leandro , CA 94578       F:-0-         1794 C Tharco       2222 Grant Ave.       I :t08/16/88         T91053       San Lorenzo , CA 94580					
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-0-       C Arco Station #06002       6235 Seminary Ave.       4 I:09/06/88         T61043       Oakland , CA 94605       F:-0-         -0-       C Arco Station #06148       5131 Shattuck Ave.       3 I:09/06/88         T61043       Oakland , CA 94609       F:-0-         -0-       C Arco Station #00374       6407 Telegraph Ave.       3 I:09/06/88         -0-       C Arco Station #00374       6407 Telegraph Ave.       3 I:09/06/88         -0-       F Freedom Arco       15101 Freedom Ave.       3 I:-0-         -0-       San Leandro , CA 94509       F:-0-         1794 C Tharco       2222 Grant Ave.       1 1:08/16/88         T8:053       San Lorenzo , CA 94580       F:-0-         779 C Arco Station #00608       17601 Hesperian Blvd.       4 I:09/06/88         T6:043       San Lorenzo , CA 94580       F:-0-		The second for the second			
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1794 C Tharco       2222 Grant Ave.       1 1:08/16/88         T81053       San Lorenzo, CA 94580       F:-0-         779 C Arco Station #00608       17601 Hesperian Blvd.       4 I:09/06/88         T61043       San Lorenzo, CA 94580       F:-0-	-0-		San Leandre ON 04570		
T291053       San Lorenzo, CA 94580       F:-0-         779 C Arco Station #00608       17601 Hesperian Blvd.       4 I:09/06/88         T61043       San Lorenzo, CA 94580       F:-0-		Tharco	2222 Grant Avia		
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AGS 19011-1

SUMMARY REPORT First Quarter 1990

ARCO Service Station No. 2112 1260 Park Street/Encinal Avenue Alameda, California Alameda County

### BACKGROUND

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

 January 22 and 29, 1990 - Applied GeoSystems performed a Limited Environmental Site Assessment, including drilling six soil borings to depths ranging from 11-1/2 to 13 feet, with the exception of B-1, which was drilled to 25 feet (Plate 1). Soil samples were collected from B-1 for soils engineering purposes. Soil samples were collected from the borings for laboratory analysis of hydrocarbons. This assessment was performed prior to future tank replacement activities at the site. Ground water was encountered in the borings at the site at 12 feet. (Applied GeoSystems Report 69048-1, dated February 20, 1990).

### SOIL CONDITIONS

Analysis of soil samples collected from the soil borings on January 22 and 29, 1990, drilled in the area of the gasoline-storage tanks, indicated concentrations of total petroleum hydrocarbons as gasoline (TPHg) up to 21,000 parts per million (ppm) and concentrations of benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) up to 210, 1,100, 320, and 2,600 ppm, respectively (Table 1).

### **QUARTERLY GROUND-WATER MONITORING**

No monitoring wells onsite.

### **STATUS SUMMARY: REMEDIATION**

No remediation taking place at present time. Options for soil remediation will be considered in the future.

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### ANTICIPATED WORK FOR THE NEXT QUARTER

- o ARCO plans to replace the underground storage tanks during 1990.
- An assessment to evaluate the extent hydrocarbons in soil adjacent to the tanks will be performed during tank replacement activities at the site.
- o Prepare a Work Plan to evaluate the extent of hydrocarbons in soil and potential hydrocarbons in first-encountered ground water beneath the site, and direction and magnitude of the ground-water gradient.

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TABLE 1         RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES         ARCO Station 2112         1260 Park Street         Alameda, California							
Sample				••••	·····		
Number	TPHg	B	Т	E	X		
S-6-B1	12	0.16	0.34	0.14	1.3		
S-10-B1	1,700	15	72	22	180		
S-6-B2	<2.0	< 0.050	< 0.050	< 0.050	< 0.050		
S-11-B2	570	3.9	13	11	82		
S-6-B3	<2.0	0.097	< 0.050	< 0.050	0.20		
S-11-B3	10,000	47	350	120	940		
S-6-B4	<2.0	0.063	0.096	< 0.050	0.20		
S-11-B4	21,000	210	1,100	320	2,600		
S-6-B5	3.7	< 0.050	0.081	< 0.050	0.18		
S-11-B5	5,400	8.8	27	66	160		
S-5.5-B6	<2.0	< 0.050	< 0.050	< 0.050	< 0.050		
S-10-B6	<2.0	< 0.050	< 0.050	< 0.050	< 0.050		

Results in milligrams per kilogram or parts per million

TPHg = Total petroleum hydrocarbons as gasoline

B = benzene E = ethylbenzene T = toluene X = total xylene isomers < = indicates less than the reported limit Sample identification:

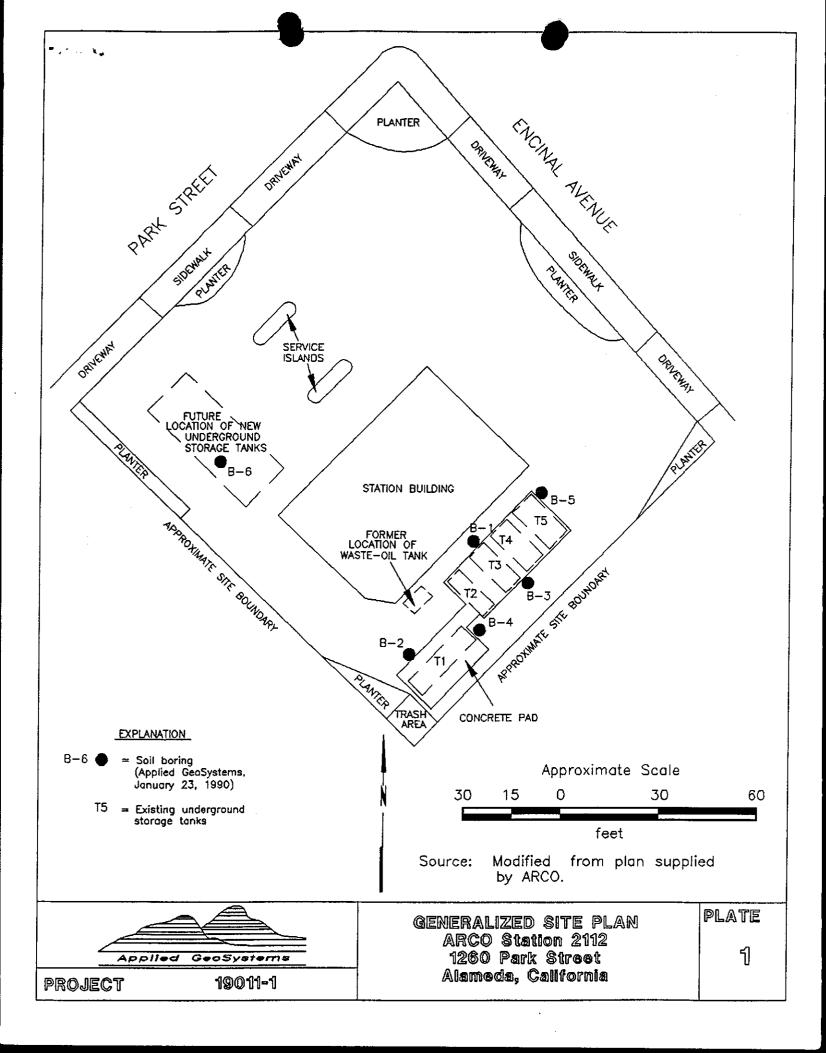
S-10-B6

L

| L— Boring number

— Approximate sample depth in feet

- Soil sample



# QUARTERLY SUMMARY REPORT Alameda County January 1990

ARCO Service Station No. 2112 1260 Park Street/Encinal Avenue Alameda, California

# Brief History

- May 14, 1987, a waste-oil tank was removed from the site by Crosby and Overton Environmental, Inc. The former location of the tank is shown on Plate P-1. Two soil samples were collected from the soil beneath the waste-oil tank. Results of soil analyses by Anatec Laboratories, Inc., (letters dated May 19, 1987 and May 27, 1987) are presented in Table 1.
- May 21, 1987, additional contaminated soil was removed from the excavation and was hauled to a Class I landfill. One soil sample was collected at a depth of 6 feet at the bottom of the excavation, and laboratory results of the soil sample indicated no detectable levels of total extractable hydrocarbons as motor oil (Table 1). The excavation was backfilled with clean sand.

# Work Performed - Fourth Quarter 1989

- November 14, 1989, mailed copies of file information on behalf of ARCO to Mr. Ariu Levi of the Alameda County Health Agency, as requested by Mr. Levi.

# Future Work

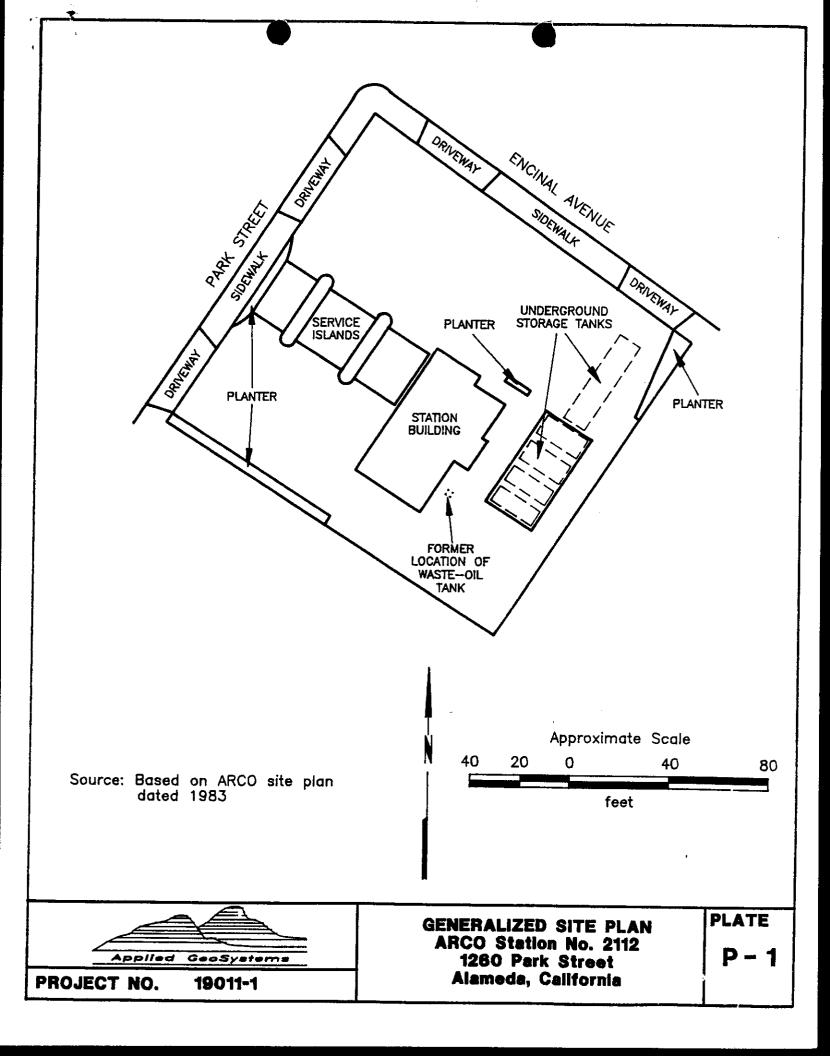
- ARCO plans no further work at this site at this time, as indicated in a telephone conversation with Mr. Gerow of the Alameda County Department of Health Services and Brown and Caldwell, on September 28, 1987.

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# TABLE 1RESULTS OF CHEMICAL ANALYSESON SOIL SAMPLESARCO Service Station No. 21121260 Park Street/Encinal AvenueAlameda, California

Sample Number	Date Sampled	TEH (as diesel fuel)	TEH (as motor oil)
9310-1 (bottom of tank)	5/14/87	430	2,400
9310-2 (west side of tank)	5/15/87	< 10	<10
9347-1 (6-foot depth)	5/21/87	NA	<10



<u> </u>					12/27	<u>۲</u>
	UNDERGROUND STORAGE TAN	NK UNAUTHORIZI	ED RELEASE (LEA	K) / CONTAMINATIO		
REPO	Imagency     Has state office of e REPORT BEEN FILED ?       YES     YES       DRT DATE     CASE #       I     2 MI       2 MI     2 O       1 D     8 VI       9 VI	MERGENCY SERVICES	FOR LOCAL AGENCY US I HEREBY CERTIFY THAT REPORTED THIS INFORM THE HEALTH AND SAFTY CO BUSIED	AM & DESIGNATED GOVERNIA ATION TO LOCAL OFFICIALS PLODE		
	NAME OF INDIVIDUAL FILING REPORT	PHON	-	SIGNATURE As agent	t for ARCO	2
REPORTED BY	Alice Scheufler REPRESENTING X OWNER/OPERATOR LOCAL AGENCY OTHER ADDRESS	REGIONAL BOARD		ronmetnal Group,	, Inc.	<u>e</u>
ESPONSIBLE PARTY	ARCO Petroleum Products		CONTACT PERSON Elain Lavine		state zip PHONE (415)571-2482	
Ϋ́	P.O. Box 5811 San Mateo, FACILITY NAME (IF APPLICABLE)	, CA		94402	PHONE	
ğ	ARCO Service Station No. 2	2112	Javad Roosha	1	(415) 865-7335	
SITE LOCATION	ADDRESS 1260 Park Steret CROSS STREET		Alameda, _{crry}		Alameda 9450	
S	Encinal		MERCIAL INDUSTRIAL	RURAL TYPE OF BUSINE	SS [] RETAIL FUEL STAT	ION
MPLEMENTING AGENCIES	LOCAL AGENCY Alameda County Public Heal Hazardous Materials Sectio REGIONAL BOARD	YNAME Lth Dn	CONTACT PERSON Ed Howell		рноме (415)271-4320 рноме	
	San Francisco Bay Region (1) Gasoline	NAME	Don Dalke		(415) 464-1255 QUANTITY LOST (GALLONS)	
SUBSTANCES	(2)				XX UNKNO	
DISCOVERY/ABATEMENT	1 M 2M 2 D OD 8 Y 9 Y XX DATE DISCHARGE BEGAN		METHOD USED TO STOP D REMOVE CONTEN REPAIR TANK	SUBSURFACE MONITORING OTHER SCHARGE (CHECK ALL THAT AF TS REPLACE TANK REPAIR PIPING		DNS
SOURCE/CAUSE	SOURCE OF DISCHARGE TANKS       XX     TANK LEAK     UNKNOWN       PIPING LEAK     AGE       OTHER     Image: Constraint of the second	ONLY/CAPACITY GAL.	MATERIAL FIBERGLASS STEEL OTHER			JRE
SASE TYPE		GROUNDWATER				
CURRENT C	CHECK ON'E ONLY				COMPLETED OR UNNECESSAR	HY)
REMEDIAL		AILS) EXCAVATE & DISPOSE (ED) EXCAVATE & TREAT (ET) NO ACTION REQUIRED (NA)			NHANCED BIO DEGRADATION EPLACE SUPPLY (RS)	(IT)
COMMENTS	Tank test was performed 11 was apparent. Tank was sh Quality Control Board and 1	utdown and cle	written report ean up is in pr	was received a ogress. Region	low level leak	

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#### **EXCURBICITIONS**

### FMERGENCY

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 (CES) at 2800 Meadowview Road, Sectamento, CA 95832. Copies of the CES report form may be obtained at your Jecal underground storace tank permitting agency. Indicate whether the CES report has been filed as of the date of this reduct.

#### LOCAL AGENCY GNUY

To avoid dublicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here <u>does not</u> 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.

#### PECONNELS DAGIN

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#### SITE LOCATION

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

#### IMPLEMENTING ASENDIES

Enter names of the light grency and Regional Mater Quality Control Board icyalvad.

#### SUBSTANCES INVOLVED

Enter the name and quantity lost of the mazandous 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.

DISCULPY/ADDETENENT Provide Information regarcing the discovery and abatement of the leak.

#### SOURCE/CAUSE

Incheste secretal of leax. Provide details on tankinge; capacity and material if known. Check pox(es) indication cause of leak.

CASE TYPE Thermake the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if book soil on groups water have been affected, case type will be "Groups Water". Which is a start of the set of the set was a start of the set of t fimily that the offected 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 chappe upon further investigation.

#### AURRENT 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 5011.

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 ACTICS

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

Cap Site - install barizontal impermeable layer to reduce rainfall Infairention.

Contaisment Barrier - install vertical dike to block horizontal movement of contactness.

Excavate and Dispose - remove contaminated soil and dispose in approved 55 0

Excavate and Treat - remove contaminated soil and treat (includes spreacing on land farming).

Remove Free Pycouct - remove floating product from water table.

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

Enhanced Stodegradation - use of any available technology to promote Dacterial decomposition of contaminants.

Replace Supply - provide alternative water supply to affected "3725 PS.

Treatment at dookup - install water treatment devices at each ewelling or other place of use.

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

COMMENTS - Use this space to eleborate on any aspects of the incident. STEARINGE - Sign the form is the space provided.

If the form is completed by the tank owner on his agent, retain the last copy and forward the remaining copies in tact to your local tank permitting acency for distribution.

- 1. Original Local Tank Permitting Agency
- 2. State Water Resources Control Board. Division of Water Quality. Inderground Tark Program, F. G. Box 100, Sacramento, CA 95801
- 3. Regional Water Quality Control Soard
- 4. County Board of Supervisors or designee to receive Proposition 55 notifications.
- 5. Gween/nesponsible party.





# 89 DEC 27 AM 10: 27

December 22, 1989 Project No. 330-03.01

Mr. Ed Howell, Senior Specialist Alameda County Public Health Service Hazardous Materials Section 80 Swan Way, Suite 200 Oakland, CA 94621

Subject:

ARCO Station #2112 1260 Park Street Alameda, CA 94501

Dear Mr. Howell:

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

If you have any questions or comments regarding this matter, please do not hesitate to call Mrs. Elaine Lavine of ARCO at (415) 571-2482.

Sincerely,

PACIFIC ENVIRONMENTAL GROUP, INC.

Alice Scheufler

enclosure

c: SWRCB, Sacramento RWQCB, Oakland

App	lied GeoSystems 3315 Almaden Expressway, Suite 34, San Jose NA 25016 (408) 264-7723
• FREM	
<del>**************</del>	
	November 14, 1989 1114alev
Alameda ( 80 Swan W Oakland, (	Materials Specialist County Health Agency Vay, Room 200 California 94621
Subject:	File Information on ARCO Station No. 2112, 1260 Park Street, Alameda, California.
Mr. Levi:	
As you requ Products C	uested on November 11, 1989, and as authorized by Mr. Kyle Christie of ARCO ompany (ARCO), enclosed are copies of records on file with ARCO regarding site. This information includes:
As you requ Products C	ompany (ARCO), enclosed are copies of records on file with ARCO regarding
As you requ Products C the subject	ompany (ARCO), enclosed are copies of records on file with ARCO regarding site. This information includes: laboratory reports (Anatec Laboratories Inc., of Santa Rosa, California) and chain of custody records (Environmental Management, Inc. of Long Beach,
As you requ Products C the subject o	ompany (ARCO), enclosed are copies of records on file with ARCO regarding site. This information includes: laboratory reports (Anatec Laboratories Inc., of Santa Rosa, California) and chain of custody records (Environmental Management, Inc. of Long Beach, California), for three soil samples collected at the site in May 1987, a letter, dated June 8, 1987, from Ms. Ellen Cianciaruli of ARCO to Mr. Ted
As you requ Products C the subject o o	<ul> <li>ompany (ARCO), enclosed are copies of records on file with ARCO regarding site. This information includes:</li> <li>laboratory reports (Anatec Laboratories Inc., of Santa Rosa, California) and chain of custody records (Environmental Management, Inc. of Long Beach, California), for three soil samples collected at the site in May 1987,</li> <li>a letter, dated June 8, 1987, from Ms. Ellen Cianciaruli of ARCO to Mr. Ted Gerow of the Alameda County Health Agency, and</li> <li>a "record of telephone conversation", dated September 28, 1987, reporting a telephone conversation between S. Hetznecker of Brown and Caldwell, of Walnut Creek, California, and Mr. Gerow of the Alameda County Health</li> </ul>

50 :1111 05 VOX 68

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- 10 ^{- 2} -					12/27
	UNDERGROUND STORAGE TANK UN	AUTHORIZE	D RELEASE (LEAK) / CON	TAMINATIO	N SITE REPORT
EMI	REGENCY HAS STATE OFFICE OF EMERGENC REPORT BEEN FILED ?		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIC	NATED GOVERNME	INT EMPLOYEE AND THAT I HA
		s 🔀 NO	REPORTED THIS INFORMATION TO LO THE HEALTH AND SAFTY CODE	cal officials pu	RSUANT TO SECTION 25180.7 (
	$ 2_{M}   2_{D}   1_{D}    8_{V}    9_{V} $		SIGNED		
'		PHONE		As agent	Eor ARCO
à	Alice Scheufler	( 40		a) f	MADY CO
REPORTED BY		EGIONAL BOARD	COMPANY OR AGENCY NAME		
Ĩ.	LOCAL AGENCY OTHER		Pacific Enrironmetr	nal Group,	Inc.
	1601 Civic Center Drive, Suite	202, San	ta Clara, CA 95050	)	
	NAME		CONTACT PERSON	S	rate zip PHONE
NSIB NYSIB	ARCO Petroleum Products		Elain Lavine		( 419 571-2482
RESPONSIBLE PARTY	ADDRESS P.O. Box 5811 San Mateo;	ĊĂ	94402		
Ľ.	FACILITY NAME (IF APPLICABLE)		СПY 94404 OPERATOR	; ;;	PHONE
R R	ARCO Service Station No. 2112		Javad Rooshan		(419 865-7335
SITE LOCATION	ADDRESS				
9	1250 Park Steret		Alameda, crry		Mameda 94501
ι Ω	•		MERCIAL [] INDUSTRIAL [] RURAL		SS RETAIL FUEL STATION
g					PHONE
CIES	Alameda CountryPublic Health Hazardous Materials Section		Ed Howell		(419) 271-4320
MPLEMENTING AGENCIES	REGIONAL BOARD				PHONE
	San Francisco Bay Region	NAME	Don Dalke		(415) 464-1255
ŝ	Gasoline	MAME		u u	
SUBSTANCES INVOLVED	(2)	<u>_</u>			
EMENT			NTORY CONTROL SUBSURFAC	EMONITORING	
	1 M 2M 2 D OD 8 Y 9 Y LXX TANK TES DATE DISCHARGE BEGAN		METHOD USED TO STOP DISCHARGE (C	HECK ALL THAT API	PLY)
ERY		NOWN		REPLACE TANK	CLOSE TANK
DISCOVERY/ABA	HAS DISCHARGE BEEN STOPPED ?			REPAIR PIPING	
	XX YES NO IF YES, DATE 1 _M 2 _M 2 _D ( SOURCE OF DISCHARGE TANKS ONLY/CAP	فيستعد ومقوو ويجرب والمحاد		CAUSE(S)	
SOURCE/CAUSE		GAL,	FIBERGLASS		
URCE		YRS	STEEL		ON XX UNKNOWN
		VN		SPILL	
CASE			DRINKING WATER - (CHECK ONLY I	E WATER WELLS HA	
	CHECK ON'E ONLY				TEROTORICT DECKATEOTED
CURRENT STATUS	SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT	OF PROBLEM)		ED OFF (CLEANUP C	COMPLETED OR UNNECESSARY)
S ∾		ING IN PROGRESS	NO FUNDS AVAILABLE TO PROCE	ED EVALU	ATING CLEANUP ALTERNATIVES
₹z	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)	E& DISPOSE (ED)		», П. ЕМ	IHANCED BIO DEGRADATION (IT)
REMEDIAL ACTION		8 TREAT (ET)	PUMP & TREAT GROUNDWA		PLACE SUPPLY (RS)
æ -	TREATMENT AT HOOKUP (HU) NO ACTIO	NREQUIRED (NA)	THER (OT) Still in	vestigati	ing
6	Tank test was performed 11/2098	9. When			
ΙĔ					
	was abbarenc. Taux was anncoom	n and cle	an up i <b>s</b> in procress	. Region=	1 Water
COMMENTS	was apparent. Tank was bautdow Quality Control Board and Local		and the second		l Water

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HSC 05 (4/87)

## DESTRUCTIONS.

MERGENCY Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazawdous Material Incident deport should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Secremento, CA 93832, Copies of the DES report forth may be obtained at your local underground storage tank permitting agency. Indicate whether the CES report has been filed as of the date of this report.

#### LOCAL AGENCY ONLY .

To svoid dublicate notification subsquat to Health and Safety Code Section 25180.7. a designated government employee should sign and date the form in this block. A signature here does not mean that the less has been determined to bose 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. Indicase which party you mechanic and encylde consenv or seency name.

#### STODANCIR/E DAUTY

eresenentare eresisten Enformations forball orbits rescue construct resister, and edderses of the parky optimistics for a subject of the sets rescue construction of the construction of the same a ganger i

## SITE LOCATION

Enter information recention the cash facility and surrounding area. He a minimum, you must provide the facility same and full address.

#### INDERNERTING AGENCIES.

Antor memory of the local ecency and Regional Seven Okelity Control Board involved.

#### CESTANDES DEVELYED

Enter the name and quantity last of the parametric substance involved. Four is provided for information on two substances if appropriates. If more than two substances larked. Hist the two of most concern for clearur.

#### OUSDOYERY/ABA/ERENT

rowlde information recarding the discovery and appierunt of the leek.

Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) andicating cause of leak.

Incluste 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". Institute "Prinking Pater" only if one or more municipal or domestic water weis have actually been affected. A "Ground Water" designation does mot imply that the affected water cannot be, or is not, used for dricking water, but poly that water wells have not yet been affected. It is uncerstood that case type may change upon further investigation.

## 0.0005311 53.4708

indicate the category which best describes the current status of the case. Check one how only. The response should be rolative 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, is opposed to that if <5091 -

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 Include which ections have been used to cleanup or remediate the leek. Secondotions of gatfoos follows

Cap Site - install conizontal impermeable layer to reduce rainfall THEILERATION.

Contaionant Samian - testali vortical tike to alock norizontal novement of contail 5268.

Excentre and Disponely remove containingted soil and dispose in approved

Sile. Sile. Ficewale and Trast - runows contarinated still act tracks (includes spreading on Test farming) remove Pras Prosact - resume ficesting another from water

Pump and Treat Groundweton - genuerally employed to remove dissolved. CONLARG BARCS -

Sphanced Bindeproduction - use of any svailente tearnology to prototo Budtersuit geomoustiction of computinants -

Replace Supply - provide elteroutive water subpay to effected 23711222

Theadaens at Hookko - fostall water treatment devices at each dwelling of attent place of user.

Re Action Relying) - incluent is timer, meduining ma-Furtental aution

 $\underline{\rm COMMENTG}$  - ise this space to elaborate on any aspects of the incident. Stabling - Sign the form in the space provided

MISTER STICK

If the form is completed by the tank number on his egent, recall the last copy and forward the remaining copies is tast to your loas' task carmitting agency for distribution.

1. Original - Local Tank Permitting Agency

2. Buste Water Resources Control Soard, Division of Water Quality, Underground Tank Program, P. U. Boy 100, Sacremento, IA 95301

3. Resident Vater Quality Control Board

6. County Bourd of Supervisors on designee to receive Proposition 65 antifications.

5. Swherznesponsible conty.

# FUELLEAK CASE RECORD

7/2

REVIEW DATE: 813187 SITE NAME: ARCO STREET NO.: 1260 STREET: Pork CITY: Arameda COUNTY:01 PRIORITY:03 RANK: --SUBSTANCE/PRIMARY: 12035 SUBSTANCE/SECONDARY: --CASE TYPE: A STATUS: X

SOIL AFFECTED: Y MAXIMUM SOIL CONCENTRATION (ppm): 2400 MAXIMUM RESIDUAL SOIL CONCENTRATION (ppm): 240 4 10 SOIL STATUS: X DEPTH TO GROUNDWATER: 4 GROUNDWATER AFFECTED: 4 MAXIMUM GROUNDWATER IMPACT: 4 GROUNDWATER STATUS: 7 DRINKING WATER AFFECTED: 6 DRINKING WATER STATUS: 7 REMEDIAL ACTION: ED DATE OF LAST CORR.: 6 130187

Comment=

mop NFA proposed

r		7/9/87		452
	UNDERGROUND STORAGE TAN JNAUTHORIZ	ED RELEASE (LEA		SITE REPORT
	YES X NO REPORT BEEN FILEDI YES X NO	STATE TANK ID		1
	PORT DATE LOCAL CASE #	REGIONAL BOARD CASE	* USEPAD	1987 805
	TAME OF INDIVIDUAL FILING REPORT PHONE	387-2476	E BUAL MA COMB	munch
TED	REPRESENTING DCAL AGENCY OTHER	COMPANY OR AGENCY N	AME	
RPOR	ADDRESS	N MOTEO	ROLEUM PRO	
- <u>-</u>	STREET	CITY CONTACT PERSON	CA - STAT I PHON	
RESPONSI-			(	)
RE5 BLE		CITY	\$т	ATE ZIP
TION	ARCO AN/PM 55# 2112	PRESTIGE STS	NOWS, JLX. (4)	5)865-2291
OCAT	ADDRESS 1260 PARIO	BLAHEDA	/SLALL	
L E L	CROSS STREET TYPE OF AREA COMMERCIA			NTY ZIP
	LOCAL AGENCY AGENCY NAME	OTHER		
INTING CIES	ALSHEDS COUNTY HEALTH DEPT.	TED GERO	<u>العار</u> (41)	51874-6434
GENCI		•	(	)
I d WI	TSCD		(	\ \
NCE S ED K	CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME	WASTE OIL	QUAN	TITY LOST (GALLONS)
BSTA VOLV		MASSIE UN		K_UNKNOWN
25	DATE DISCOVERED HOW DISCOVERED INVEN	TORY CONTROL	SUBSURFACE MONITOR	
ENT	DATE DISCOVERED $7$ HOW DISCOVERED INVEN M = M = D = V = V ROUTINE MONITORING $5DATE DISCHARGE BEGAN$	REMOVAL DINUISAN	CE CONDITIONS	ÉR:
DISCOVERY ABATEMEN		REMOVE CONTENTS	DISCHARGE (CHECK ALL TI	1
<u>0</u> 8	HAS DISCHARGE BEEN STOPPEDT Wyes no if yes, date $O_{M} 5_{M} 1_{D} 4_{D} 8_{Y} 7_{Y}$		REPAIR PIPING CH	ANGE PROCEDURES
USE	SOURCE(S) OF DISCHARGE TANKS ONLY/CAP		GAL CAUSE(S)	CORROSION
SOURCE/CAUSE	PIPING LEAK MATERIAL	YRS. 🔀 UNKNOWN	RUPTURE/ FAIL	
SOUR	OVER SPECIFY OVER FILL OTHER	FIBERGLASS		OTHER
ED/	RESOURCES AFFECTED YES NO THREATENED		UPPLIES AFFECTED YES NO	THREAT- UN- # OF ENED KNOWN WELLS
SK	AIR (VAPOR)         Image: Constraint of the second se	WATER		
ES AF RISK	GROUNDWATER			
RESOURCES AT RIS	OTHER (SPECIFY)			
RES	GROUNDWATER BASIN NAME			
	UPON ROUTINE REMOVAL OF WASTE OIL TR	WIK, FIRST SET C	OF SOIL TEST RES	SULTS WERE
OMMENTS	2400 ppm Hydrocarbows. After Addition Results where Less Than 10 ppm Hydroc			
COMA	SOIL REMOVED to & DUMP SITE. SOIL REP	DORTS SENT TO (	DONTY ON JUNE	8,1987.
	COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY	CLEANUP WORK OR PLAN	INING HAS STARTED	HSC 05 (10/88)



- EU MAY 2 1 1987 Aas'd

435 Tesconi Circle • Santa Rosa. California 95401

707-520-7200

Dan Heath Crosby & Overton 8430 Amelia Street Oakland, CA 94621 May 19, 1987 ANATEC Log No. 9310 (1-2) Series No: 356/007 Client Ref: Job 694

•

Subject: Analysis of Two Soil Samples Referenced "ARCO, 1260 Park St., Alameda" Received May 15 on an ASAP Priority Basis

Dear Mr. Heath:

Analysis of the samples referenced above has been completed. This report is written to confirm results transmitted verbally on May 18, 1987.

Samples were prepared for motor oil and diesel fuel analysis by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of samples was accompanied by similar treatment of a method blank and a fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil and diesel fuel were compared with system response to samples for purposes of qualitative and quantitative interpretation.

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Results of analyses are summarized below in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Susan Joy Project Chemist

Encl: Custody Record

Approved by:

Anderson, Director Greg

Analytical Laboratories

# TABLE 1. SUMMARIZED ANALYTICAL TESTING RESULTS

Parameter	Bottom of Tank 5-14-87 D. Liles (9310-1)	West Side of Tank 5-15-87 D. Liles (9310-2)
Extractable hydrocarbons as diesel fuel (mg/Kg) ^a	430 ppm	<10
Extractable hydrocarbons as motor oil (mg/Kg) ^b	2,400 ppm	<10

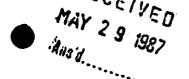
^aData are expressed in units of milligrams diesel fuel per liter sample, as-received basis. ^bData are expressed in units of milligrams motor oil per

liter sample, as-received basis.

1610 WEST 17th STREET <" Nule 9310 CHAIN OF CUSTODY RECORD DISPOSAL SITE PRODUCER _____HAULER LOCATION OF SAMPLING: OTHER: SHIPPER NAME: ARCO ____ Alameda ·K St. ADDRESS: 1260 TELEPHONE: (4/5) 633-0336 COLLECTOR'S NAME TURE TIME SAMPLES 1400 HOURS 1/2 5-14-8 DATE SAMPLED Kamova TYPE OF PROCESS PRODUCING WASTE Soil Samples Waste oil FIELD INFORMATION 2 below tank SAMPLE RECEIVER: 1. <u>Anatec, 435 Tesconi Circle, Santa Rosa (49540.</u> -NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE-3. CHAIN OF POSSESSION: at Kespone ITLE Suchers 5-15-5 INCLUS DATES 5-15-87 IGNATUPE COLLECTOR'S SAMPLE N FIGURE 2.0-3

EXAMPLE OF CHAIN OF CUSTODY RECORD





435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

5#2112

Dan Heath Crosby & Overton 8430 Amelia Street Oakland, CA 94621 May 27, 1987 ANATEC Log No. 9347 (-1) Series No: 356/008 Client Ref: Job **#** 694

Subject: ASAP Analysis of One Soil Sample Identified as "ARCO Station, 1260 Park, Alameda, CA" Received May 22, 1987.

Dear Mr. Heath:

Analysis of the sample referenced above has been completed. This report is written to confirm results transmitted verbally on May 26, 1987.

Sample delivery to the laboratory was conducted under chain-ofcustody. On receipt, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the sample and placed it in secured storage at 4 °C until analysis commenced.

The sample was prepared for extractable hydrocarbons measurement by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of the sample was accompanied by similar treatment of a method blank and a motor oil-fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil were compared with system response to the sample for purposes of qualitative and quantitative interpretation.

Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1984.



356/008. Log 9347

May 27, 1987

Results of analysis are summarized in Table 1. Attached is the custody document. Please feel welcome to contact us should you have questions regarding procedures or results.

2 -

Submitted by:

Approved by:

Greg Anderson, Director

Analytical Laboratories

Encl: Custody Record

Project Chemist

Susan Joy Graffin

Non ) Josef (Th

TABLE 1. SUMMARIZED RESULTS FOR "5/21/87 R CAMPBELL #2 FROM 6' DEPTH 1030" (ARCO STATION, 1260 PARK, ALAMEDA, CA) (ANATEC LAB NO. 9347-1)

Parameter

Results  $(mg/Kg)^{1}$ 

(Extractable) Petroleum Hydrocarbons, as motor oil <10

lData are milligrams motor oil per kilogram sample, as-received basis.



ENVIRONMENTAL MANAGEMENT, INC.

# CHAIN OF CUSTODY RECORD

LOCATION OF SAMPLING: PRODUCER HAULER DISPOSAL SITE STATION 1260 HARK, OTHER: SAMPLE ERTON SHIPPER NAME: DAKIMUd ADDRESS: 8 STATE NUMBER TELEPHONE: (45) 633-0336 . COLLECTOR'S NAME AMBACI SIGNATURE TIME SAMPLES 1030 HOURS DATE SAMPLED 5 TYPE OF PROCESS PRODUCING WASTE WASTE OIL TANK LEMOUA FIELD INFORMATION FLCAUATIEL 6 FEET G. anghingham SAMPLE RECEIVER: Bruce izap AND ADDRESS OF ORGANIZATION VING 3 CHAIN OF POSSESSION: 1. INCLUSIVE DATES TITLE 2. INCLUSIVE DATES TITLE GNATU 3. INCLUSIVE DATES SIGNATURE TITLE 9347 COLLECTOR'S SAMPLE NO. FIGURE 2.0-3

EXAMPLE OF CHAIN OF CUSTODY RECORD

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



Alameda County Health Department 470 27th Street Oakland, California 94612 Attn: Ted Gerow

June 8,1987

Re: SS#2112, 1260 Park Blvd., Alameda, Ca.

Dear Mr. Gerow,

Enclosed are soil sample test results from the abovementioned site. After removal of a waste oil tank, we obtained samples at the bottom of the excavation. All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand.

If you have any questions, please call.

incerely Cianciaruli

cc:K.Schultheis

RECORD OF TELEPHONE CONVERSATION DATE: 9-28-87 JOB: Individual Organization Telephone No. Brown & Caldwell FROM: 5. Hetenecker 937-9010 Alameda Co 874-6434 TO: MR. Gerow Dept. of Health Ser. SUBJECT: Arco Service Station 2112 1260 Park St. Alameda CA NOTES: According to information in the county file, specifically a letter dated June 14, 1987 from Ellen Cianiarula of Arco, Bays that the "dity" soil was excavated and removed, and analysis shows the hole was excavated to deanliness. Mr. Gerow says everything looks ok as far as the county goes. No further action at this point. His only quostion is : will the site remain a service station?

(continued on bac)

**ACTIONS REQUIRED:** 

# QUARTERLY SUMMARY REPORT Alameda County September 1989

# ARCO Service Station No. 2112 1260 Park Street/Encinal Avenue Alameda, California

Applied GeoSystems

# Brief History

- May 14, 1987, a waste-oil tank was removed from the site by Crosby and Overton Environmental, Inc. The former location of the tank is shown on Plate P-1. Two soil samples were collected from the soil beneath the waste-oil tank. Results of soil analyses by Anatec Laboratories, Inc., (letters dated May 19, 1987 and May 27, 1987) are presented in Table 1.
- May 21, 1987, additional contaminated soil was removed from the excavation and was hauled to a Class I landfill. One soil sample was collected at a depth of 6 feet at the bottom of the excavation, and laboratory results of the soil sample indicated no detectable levels of total extractable hydrocarbons as motor oil (Table 1). The excavation was backfilled with clean sand.

# Future Work

- ARCO plans no further work at this site at this time, as indicated in a telephone conversation with Mr. Gerow of the Alameda County Department of Health Services and Brown and Caldwell, on September 28, 1987.

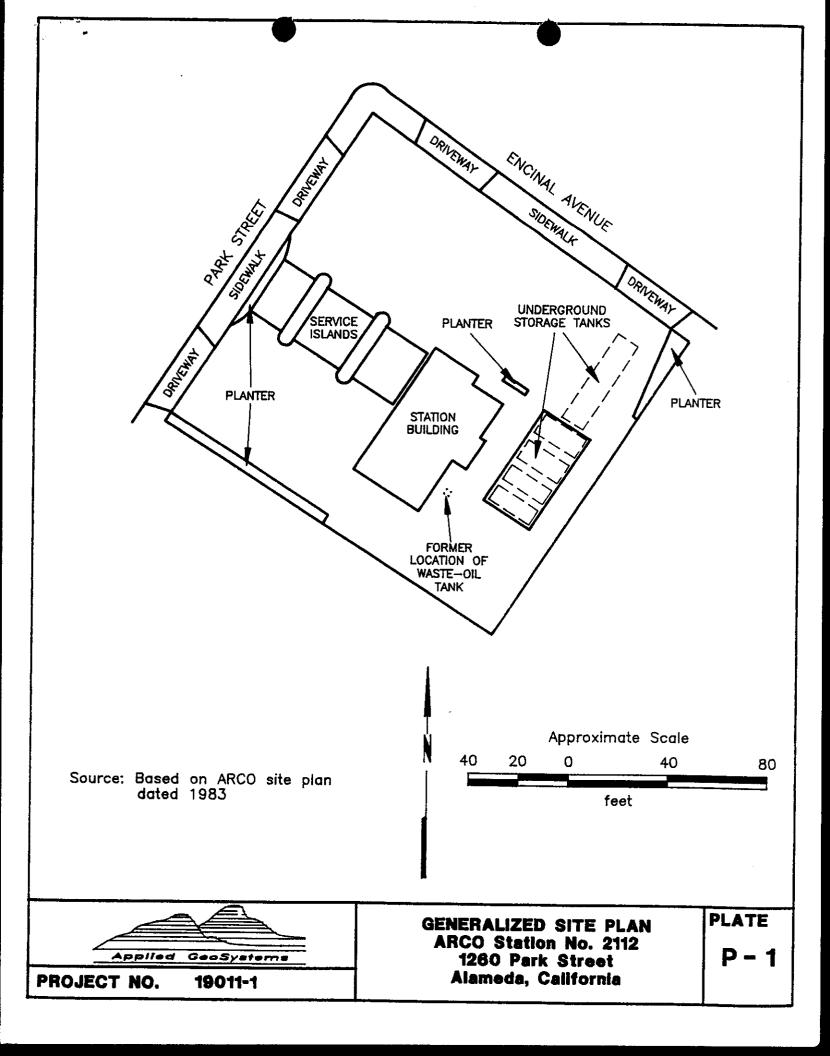
Quarterly Summary Report ARCO Station No. 2112, Alameda, California

September 1989 AGS 19011-1

# TABLE 1 RESULTS OF CHEMICAL ANALYSES ON SOIL SAMPLES ARCO Service Station No. 2112 1260 Park Street/Encinal Avenue Alameda, California

Sample Number	Date Sampled	TEH (as diesel fuel)	TEH (as motor oil)
9310-1 (bottom of tank)	5/14/87	430	2,400
9310-2 (west side of tank)	5/15/87	<10	<10
9347-1 (6-foot depth)	5/21/87	NA	<10

Results in milligrams/kilogram (mg/kg) = parts per million (ppm) TEH: Total extractable hydrocarbons NA: Not analyzed Sampled by Crosby and Overton Environmental Management, Inc.







QUARTERLY SUMMARY REPORT Alameda County July 1989

## ARCO Service Station No. 2112 1260 Park Street/Encinal Avenue Alameda, California

## Brief History

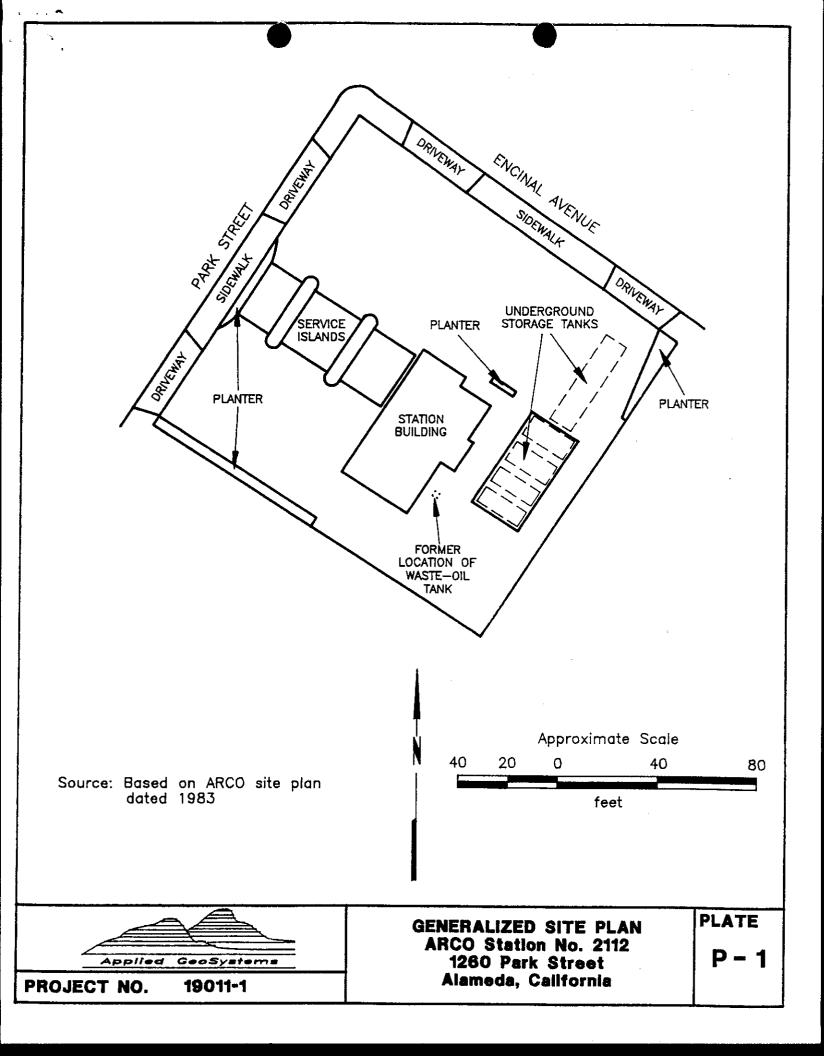
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(1ADYES ARCO Petroleum Protects Company 2000 Alameda de las Pulgas Mailing Address: Box 5811 San Mateo, California 94402 Telephone 415 571 2400 Alameda County Health Department June 8,1987 470 27th Street Oakland, California 94612 Attn: Ted Gerow Re: SS#2112, 1260 Park Blvd., Alameda, Ca.

Dear Mr. Gerow,

Enclosed are soil sample test results from the abovementioned site. After removal of a waste oil tank, we obtained samples at the bottom of the excavation. All soil removed has been hauled to a Class I dump site and the excavation backfilled with clean sand.

If you have any questions, please call.

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cc:K.Schultheis

マド時長井 JUN 101987

EMARCHMENTAL MEALTH ADMINISTRATION





435 Tesconi Circle

Santa Rosa, California 95401

707-526-7200

Dan Heath Crosby & Overton 8430 Amelia Street Oakland, CA 94621 May 27, 1987 ANATEC Log No. 9347 (-1) Series No: 356/008 Client Ref: Job # 694

Subject: ASAP Analysis of One Soil Sample Identified as "ARCO Station, 1260 Park, Alameda, CA" Received May 22, 1987.

Dear Mr. Heath:

Analysis of the sample referenced above has been completed. This report is written to confirm results transmitted verbally on May 26, 1987.

Sample delivery to the laboratory was conducted under chain-ofcustody. On receipt, sample custody was transferred to ANATEC sample control personnel who subsequently documented receipt and condition of the sample and placed it in secured storage at 4 °C until analysis commenced.

The sample was prepared for extractable hydrocarbons measurement by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of the sample was accompanied by similar treatment of a method blank and a motor oil-fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil were compared with system response to the sample for purposes of qualitative and quantitative interpretation.

Details of the analytical methodology are consistent with requirements specified in "Guidelines for Addressing Fuel Leaks," revised February, 1986, Regional Water Quality Control Board, San Francisco Bay Region; the preparation procedures used are described in detail in, "Sonication Extraction," Method 3550 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," U.S. EPA SW-846, 2nd edition, revised 1984.



356/008 Log 9347

May 27, 1987

Results of analysis are summarized in Table 1. Attached is the custody document. Please feel welcome to contact us should you have questions regarding procedures or results.

2 -

Submitted by:

Approved by:

Greg Anderson, Director

Analytical Laboratories

Encl: Custody Record

Joy UGr

Project Chemist

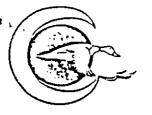
TABLE 1. SUMMARIZED RESULTS FOR "5/21/87 R CAMPBELL #2 FROM 6' DEPTH 1030" (ARCO STATION, 1260 PARK, ALAMEDA, CA) (ANATEC LAB NO. 9347-1)

Parameter

Results  $(mg/Kg)^{1}$ 

(Extractable) Petroleum Hydrocarbons, as motor oil <10

¹Data are milligrams motor oil per kilogram sample, as-received basis.



EVIRONMENTAL MANAGEMENT, INC.

1610 WEST 17th STREET LONG BEACH, CALIFORNIA 90813

# CHAIN OF CUSTODY RECORD

DISPOSAL SITE HAULER PRODUCER LOCATION OF SAMPLING: STATION 1260 PARK, ALAMEDA CH OTHER: ARCD Postel a EETON SHIPPER NAME:____ DAKIMUId ADDRESS: 84 CITY TELEPHONE: (45) 633-0336 COLLECTOR'S N AME 🖊 TIME SAMPLES 5/21/8 DATE SAMPLED REMOU TYPE OF PROCESS PRODUCING WASTE WASTE OFL FIELD INFORMATION ZONDARY SAMPLE FROM 6 FEET EXCAUATION SAMPLE RECEIVER: Bruce G. anglingham 3:300 ORGAN 31 CHAIN OF POSSESSION: INCLUSIVE DATES 1. TITLE INCLUSIVE DATES 2. TITLE INCLUSIVE DATES 3. TITLE SIGNATURE 9347 COLLECTOR'S SAMPLE NO. FIGURE 2.0-3

EXAMPLE OF CHAIN OF CUSTODY RECORD



Crosby & Overton

8430 Amelia Street Oakland, CA 94621

RECEIVED MAY 2 1 1987 Ans'd

707-526-7200

This

Santa Rosa, California 95,401

435 Tesconi Circle

Dan Heath

May 19, 1987 ANATEC Log No. 9310 (1-2) Series No: 356/007 Client Ref: Job 694

Analysis of Two Soil Samples Referenced "ARCO, 1260 Park St., Alameda" Received May 15 on an ASAP Priority Subject: Basis

Dear Mr. Heath:

Analysis of the samples referenced above has been completed. report is written to confirm results transmitted verbally on May 18, 1987.

Samples were prepared for motor oil and diesel fuel analysis by thorough mixing and subsequent extraction with methylene chloride; extraction, aided by sonication, was performed three successive times for each sample. Extracts were then combined, dried over sodium sulfate and concentrated in Kuderna-Danish apparatus. Extracts were then analyzed by capillary-column gas chromatography with flame ionization detection. Preparation and analysis of samples was accompanied by similar treatment of a method blank and a fortified sample. Response of the chromatographic system to calibration standards prepared with commercial motor oil and diesel fuel were compared with system response to samples for purposes of qualitative and quantitative interpretation.

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Research



356/007 Log 9310

2 -

May 19, 1987

Results of analyses are summarized below in Table 1. Please feel welcome to contact us should you have questions regarding procedures or results.

Submitted by:

Joy/Griffin Susan Project Chemist

Encl: Custody Record

Approved by:

Greg Anderson, Director Analytical Laboratories

TABLE 1. SUMMARIZED ANALYTICAL TESTING RESULTS

Parameter	Bottom of Tank 5-14-87 D. Liles (9310-1)	West Side of Tank 5-15-87 D. Liles (9310-2)
Extractable hydrocarbons as diesel fuel (mg/Kg) ^a	430 ppm	<10
Extractable hydrocarbons as motor oil (mg/Kg) ^b	2,400 ppm	<10

^aData are expressed in units of milligrams diesel fuel per liter sample, as-received basis. ^bData are expressed in units of milligrams motor oil per

liter sample, as-received basis.

17th STREET LONG BEACH, CALAFORNIA 90813 1610 V KINULEL OR 10 CHAIN OF CUSTODY RECORD PRODUCER _____ HAULER _____ DISPOSAL SITE LOCATION OF SAMPLING: last OTHER: U SAMPLE SHIPPER NAME: ARCO Alameda, Park St. ADDRESS: 1260 NUMBER TELEPHONE: (4/5) 633-0336 COLLECTOR'S NAME Cele IGNATURE TIME SAMPLES 1400 HOURS 1/2 DATE SAMPLED 5-14-87 K Removal TYPE OF PROCESS PRODUCING WASTE FIELD INFORMATION 2 Soil Samples Waste oil below tank 1. Anatec, 435 Tesconi Circle, Santa Rosa, CA 95401 -NAME AND ADDRESS OF ORGANIZATION RECEIVING SAMPLE-SAMPLE RECEIVER: 2. 31 CHAIN OF POSSESSION: Hational Course Systems Decarica hole Can an 5-15-87 INCLUSIVE DATES husar 5-15-87 INCLUSIVE DATES En ar Bud croe Un constitute COLLECTOR'S SAMPLE NO._ FIGURE 2.0-3

EXAMPLE OF CHAIN OF CUSTODY RECORD