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



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:

ignat in

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 non-detectable 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

"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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approval of the 1/2/91 workplan.

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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.

(3)

"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 landifll 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 have be submitted maryor regarding Sank kyrlanement of a submitted (so day). The first august we survived to be submitted (so day) after receipt Jeanylestenthe as ker then # 22 (page 4) in the approved claims (kc 3/13/90).

In the approved claims we condition wrether & approved the workplan

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 requirements 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

PORTER COLOGNE WATER QUALITY CONTROL 46 ACT. (Jan 1989)

disposal systems which utilize subsurface disposal, and possible combinations of individual disposal systems, community collection and disposal systems which utilize subsurface disposal, and conventional treatment systems.

13284. The state board may adopt guidelines, regulations, or policies necessary to implement the provisions of this article.

# CHAPTER 5. ENFORCEMENT AND IMPLEMENTATION

# Article 1. Administrative Enforcement and Remedies by Regional Boards

13300. Whenever a regional board finds that a discharge of waste is taking place or threatening to take place that violates or will violate requirements prescribed by the regional board, or the state board, or that the waste collection, treatment, or disposal facilities of a discharger are approaching capacity, the board may require the discharger to submit for approval of the board, with such modifications as it may deem necessary, a detailed time schedule of specific actions the discharger shall take in order to correct or prevent a violation of requirements.

(Added by Stats. 1969, Ch. 482; amended by Stats. 1970, Ch. 918;

amended by Stats. 1971, Ch. 1288.)

13301. When a regional board finds that a discharge of waste is taking place or threatening to take place in violation of requirements or discharge prohibitions prescribed by the regional board or the state board, the board may issue an order to cease and desist and direct that those persons not complying with the requirements or discharge prohibitions (a) comply forthwith, (b) comply in accordance with a time schedule set by the board, or (c) in the event of a threatened violation, take appropriate remedial or preventive action. In the event of an existing or threatened violation of waste discharge requirements in the operation of a community sewer system, cease and desist orders may restrict or prohibit the volume, type, or concentration of waste that might be added to such system by dischargers who did not discharge into the system prior to the issuance of the cease and desist order. Cease and desist orders may be issued directly by a board, after notice and hearing, or in accordance with the procedure set forth in Section 13302.

(Added by Stats. 1969, Ch. 482; amended by Stats. 1970, Ch. 918;

amended by Stats. 1971, Ch. 1288.)

13301.1. The regional board shall render to persons against whom a cease and desist order is issued pursuant to Section 13301 all possible assistance in making available current information on successful and economical water quality control programs, as such information is developed by the state board pursuant to Section 13167, and information and assistance in applying for federal and state funds necessary to comply with the cease and desist order.

(Added by Stats. 1970, Ch. 1464.)

13302. (a) Hearings for consideration of issuance of a cease and desist order may be conducted by hearing panels designated by the regional board, each panel to consist of three or more members of the board as it may specify. A member of the board may serve on more than one panel.

(b) Due notice of the hearing shall be given to all affected persons. After the hearing, the panel shall report its proposed decision and order to the regional board and shall supply a copy to all parties who appeared at the hearing and requested a copy. Members of the panel are not disqualified from sitting as members of the board in deciding the matter. The board, after making such independent review of the record and taking such additional evidence as may be necessary, may adopt, with or without revision, the proposed decision and order of the panel.

13303. Cease and desist orders of the board shall become effective and final upon issuance thereof. Copies shall be served forthwith by personal service or by registered mail upon the person being charged with the violation of the requirements and upon other affected persons who appeared at the hearing and requested a copy.

(Added by Stats. 1969, Ch. 482; amended by Stats. 1972, Ch. 813.)

13304. (a) Any person who has discharged or discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board clean up such waste or abate the effects thereof or, in the case of threatened pollution or nuisance, take other necessary remedial action. Upon failure of any person to comply with such cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring such person to comply therewith. In any such suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

(b) The regional board may expend available moneys to perform any cleanup, abatement, or remedial work required under the circumstances set forth in subdivision (a) which in its judgment is required by the magnitude of endeavor or urgency of prompt action needed to prevent substantial pollution, nuisance, or injury to any waters of the state. Such action may be taken in default of, or in addition to, remedial work by the waste discharger or other persons, and regardless of whether injunctive relief is being sought. The regional board may perform the work itself, or by or in cooperation with any other governmental agency, and may use rented tools or equipment, either with operators furnished or unoperated. Notwithstanding any other provisions of law, the regional board may enter into oral contracts for such work, and the contracts, whether written or oral, may include provisions for equipment rental and in addition the furnishing of labor and materials necessary to accomplish the work. Such contracts shall be exempt from approval by the Department of General Services pursuant to the provisions of Section 14780 of the Government

Code.

#### **EXPLANATION OF ARCO 2112**

#### REMEDIATION SCHEDULE

#### (1) Soil Investigation

Completion of the soil investigation will depend on results of the current on-site investigation. It is assumed that soil contamination is confined onsite and has been delineated by already completed work for which a report is currently pending.

#### (2) Additional Ground-water Investigation

An off-site ground-water investigation will be required into the adjacent property to the southwest of the site, and into the public right-of-way in Park Street. It is assumed that three additional ground-water monitoring wells will be required for delineation of off-site ground-water contamination. A work plan will be prepared and submitted to the Alameda County Health Care Services Agency. It is assumed that this work plan will be approved within one month of submittal and that upon completion of the proposed work, no further ground-water investigation will be necessary.

This off-site investigation will require obtaining encroachment permits from the City of Alameda and a right-of-entry from the adjacent property owner. Because Park Street is also State Highway 61, Cal-Trans encroachment permits may also be required. It is assumed that these permits will require four months to obtain.

Field work, data evaluation, and reporting of the additional ground-water investigation will take two months after receipt of all necessary permits.

#### (3) Remediation System Design (Ground-Water)

After ground-water contamination has been delineated, a ground-water remediation system will be designed. It will include location and design of extraction wells and treatment equipment, process flow diagrams, and equipment enclosure specifications. An aquifer test has been performed and data will be included in system design.

It is assumed that ground-water remediation will be required on-site only and that the additional ground-water investigation will not indicate that off-site ground-water remediation is required. A Remedial Action Plan (RAP) will be prepared detailing the design of the on-site system. It is assumed that the RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal. The schedule assumes no revisions will be required due to agency review.

# (4) System Permitting (Groundwater)

The following permits are required for installation of a ground-water system at this site:

<u>Discharge</u> - The East Bay Municipal Utility District (EBMUD) will accept the discharge of treated groundwater into the sanitary sewer system provided it does not exceed 25,000 gallons per day. It is assumed that the permit can be applied for and issued within 90 days.

Bay Area Quality Management District (BAAQMD) - If an oil/water separator is part of the system design, a BAAQMD permit is required. It is assumed that the permit can be applied for and issued within 90 days.

<u>City of Alameda Planning Department</u> - The planning department must review and approve the equipment enclosure.

<u>City of Alameda Building Department</u> - After planning department approval, the building department must issue permits for electrical, plumbing, and enclosure structural work. This is an administrative process which should not require modification to current proposals.

Planning and building department approvals should be received within 120 days.

It is assumed that no revisions to design will be required for permitting.

#### (5) Equipment Procurement (Ground-water)

An equipment list will be provided to ARCO by GeoStrategies Inc., the project consultant to order selected equipment directly from the vendors. It is assumed that agencies will approve the equipment specified and that vendors can provide delivery within six weeks.

#### (6) System Construction and Startup (Ground-water)

System construction is contingent upon receipt of all necessary permits. Scheduled construction time assumes no delays due to weather, unusual contractor difficulties, unforeseen onsite conditions, utility company scheduling, or owner/dealer requirements.

#### (7) System Operation and Maintenance (Ground-water)

The estimate of system operation time assumes that ground-water cleanup levels can be achieved in 5 years. Actual operation period cannot be predicted and will depend on the accuracy of assumptions made during modeling and design, fluctuation in ground-water levels, unforeseen variations in site hydrogeology and chemistry, and ability to meet regulatory cleanup levels.

Regulatory approval of system shut down will be required.

#### (8) Performance Evaluation (Ground-water)

A performance evaluation will be performed after 90 days of system operation to evaluate the hydrodynamic effects of the system. Among the parameters evaluated will be actual versus anticipated zones of capture, effects of ground-water extraction of chemical concentrations in groundwater, and contaminant levels in effluent discharge. Modifications of the system and/or addition of extraction wells may be required.

The schedule assumes the system will perform as designed and no modifications will be required.

### (9) Remediation System Design (Soil)

After soil contamination has been delineated, a soil remediation system will be designed. It will include location and design of wells and treatment equipment, process flow diagrams and enclosure specifications. A soil vapor extraction pilot test has been performed. These data will be incorporated into system design.

It is assumed that soil remediation will be required onsite only and that results of the pending soil investigation will not indicate that off-site soil remediation is required. A RAP will be prepared detailing the design of the on-site system. It is assumed that the RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal. The schedule assumes that no design revisions will be required as a result of agency review.

#### (10) System Permitting (Soil)

The following permits are required for installation of a soil treatment system:

<u>BAAOMD</u> - Approval of soil vapor extraction equipment is required by the BAAQMD. An authority to construct has already been obtained for installation of an internal combustion engine. The decision whether to use this method of treatment has not been made at this time.

<u>City of Alameda Planning Department</u> - The planning department must review and approve the equipment enclosure.

<u>City of Alameda Building Department</u> - After planning department approval, the building department must approve all electrical, plumbing, and enclosure structural work.

Planning and building department approvals should be received with 120 days.

It is assumed that no revisions to the initial design will be required for permitting.

# (11) Equipment Procurement (Soil)

An equipment list will be provided to ARCO by GeoStrategies Inc., the project consultant. ARCO will order the equipment directly from the vendors. It is assumed that agencies will approve the equipment specified and that vendors can provide delivery within eight weeks.

# (12) System Construction and Startup (Soil)

System construction is contingent on receipt of all necessary permits. Construction time assumes no delays due to weather, contractor difficulties, unforeseen onsite conditions, utility company scheduling, or owner/dealer requirements.

#### (13) System Operation and Maintenance (Soil)

The estimate of system operation time assumes that soil cleanup levels can be achieved in 1 year. Actual operation period will depend on the accuracy of assumptions made during modeling and design, unforeseen variations in site geology and chemistry, and ability to meet regulatory cleanup levels.

Regulatory approval of system shut down will be required.

#### (14) Verification Soil Borings

After the soil remediation system has been shutdown, borings will be drilled and soil samples will be collected and analyzed to verify that soil contamination has been attenuated to meet regulatory cleanup levels.

The schedule assumes that these borings will verify that soil remediation has been achieved and no further system operation will be required.

#### (15) Verification Monitoring

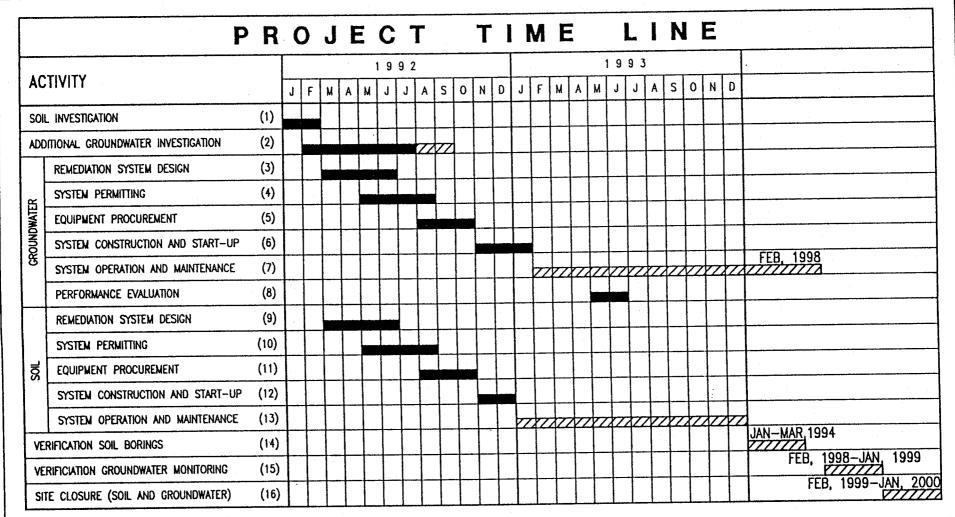
After ground-water contamination levels have been reduced to meet cleanup goals, with agency approval, the ground-water treatment system will be shut down. A minimum of one year of monitoring and sampling (i.e. four quarters) is required to verify cleanup.

The schedule assumes that ground-water monitoring and sampling will demonstrate that ground-water remediation has been achieved and that no further system operation will be required.

#### (16) Site Closure

Based on results of verification borings and monitoring, site closure will be applied for. Concurrence by the State Water Resources Control Board is required to obtain site closure.

The schedule assumes that the Board will review and approve a site closure plan within one year of submittal.



# **LEGEND**

(X) FOR NOTES AND ASSUMPTIONS REFER TO PLATES 2, 3 AND 4

PROBABLE SCHEDULE

ESTIMATED SCHEDULE



GeoStrategies Inc.

REMEDIATION IMPLEMENTATION SCHEDULE ARCO Servcie Station #2112

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JOB NUMBER 7920-RTL REVIEWED BY

DATE 1/92 REVISED DATE

PLATE

- (1) Soil Investigation
  - Soil contamination is onsite only and has been delineated by already completed work
- (2) Additional Ground-water Investigation
  - Ground-water investigation will be required off-site in Park Boulevard and on the adjacent property west of the ARCO site

- A work plan will be prepared for the installation of three additional ground-water monitoring wells.

- The work plan will be approved by Alameda County Health Care Services Agency within one month of submittal

- Ground-water contamination will be delineated after completion of the activities proposed in the work plan

- Encroachment and right-of-entry permits can be obtained in four months

- Field work, data evaluation, and reporting can be completed two months after receipt of necessary permits
- (3) Remediation System Design (Ground-water)

- Ground-water remediation will only be required onsite

A Remediation 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 Care Services Agency within one month of

submittal

- No revisions will be required following agency review
- (4) 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

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7920-RTL

GeoStrategies Inc.

REMEDIATION IMPLEMENTATION ASSUMPTIONS ARCO Servcie Station #2112 1260 Park Street Alameda, California

DATE 1/92 REVISED DATE

- (5) Equipment Procurement (Ground-water)
  - No equipment modification due to agency/permitting requirements
  - Equipment available from manufacturers stock within six weeks
- (6) System Construction and Startup (Ground-water)
  - No delays from utility companies
  - No special dealer/property owner requirements
  - No unusual contractor delays
  - No unforeseen on-site conditions
  - No weather delays
- (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 onsite
  - A RAP will be prepared detailing the design of the onsite soil remediation system
  - The RAP will be approved by the Alameda County Health Care Services Agency within one month of submittal
  - No revisions will be required following agency review
- (10) System Permitting (Soil)
  - No modifications to design required for permitting
  - BAAQMD approval within 120 days (if current authority to construct not used)
  - Building/Planning department approval within 120 days



GeoStrategies Inc.

REMEDIATION IMPLEMENTATION ASSUMPTIONS ARCO Servcie Station #2112 1260 Park Street Alameda, California

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JOB NUMBER 7920-RTL

REVIEWED/BY

REVISED DATE

- Equipment Procurement (Soil) (11)
  - No special equipment modification due to agency/permitting requirements
  - Available from manufacturer stock within eight weeks
- System Construction and Startup (Soil) (12)
  - No delays from utility companies
  - No special dealer/property owner requirements
  - No unusual contractor delays
  - No unforeseen on-site conditions
  - No weather delays
- System Operation and Maintenance (Soil) (13)
  - One year operation of system to meet cleanup levels
  - Regulatory approval of system shutdown after one year
- Verification Soil Borings (14)
  - Borings demonstrate soil cleanup has been achieved no further system operation
- Verification Monitoring (15)
  - One year (four quarters) of monitoring water-levels and sampling
  - Sampling demonstrates ground-water cleanup has been achieved no further system operation
- Site Closure (16)
  - Agency approval based on results of verification borings, monitoring and sampling

GeoStrategies Inc.

REMEDIATION IMPLEMENTATION ASSUMPTIONS ARCO Servcie Station #2112 1260 Park Street Alameda, California

DATE

REVISED DATE

7920-RTL

1/92

Contact: Bettler-Kyan-John Wonfal (783-7500)

Keith Blallock harre Summary of History #2112 1260 Park St. alameda used to have 6 parks ( w/ interior permit 9/6/88 Super 19728 gel Reg # 1 4000 7 9/8/86 pression UL# 1 6000 gal Reg # 2 4000 tested tight. UL# 2 6000 gal Pelkel87- tested tight. Telko 187 - total tight W#2 6000 gal House Jome 4 & Submitted? (Conjules 5 wed's (9/6/88) 5/22/89 - Tested to go & Busness Per revisco? Ketter fr. aco to Led Genew - re: sail samples Brusiantet June 8, 1987 test result fr. unell oil tank remonal. (d) Osbrutt puns anatic report (May 19, 1987) - 430 pm TPH diesel & 2,400 ppm histor ail. ULK Yelled by areo 2400 ppm HC, over stransled to 410 ppm. Contaminated soil moned to dump site. 12/2/89 Letter for arco. notifying tanks failed (11-20-59) submitted, SU leaked Letter fr. Vacifie End. Exp. submitting ULR to dept, ULR form dated report 12/2// failed tark tet of 11.20-89 (Super UL.) Letter for ares natifying los tarke lines retisted, repaired preplaced? retaited 1/10/40 tight (Super UL.) to convenation of the Hedrick (Berghauser Egs) closure to be - Limited Environmental site assessment 2/20/90 report by AGS, contamination upto 21,000 pen

First Guester 1990 Summary Report 21,000 pm TPHG) from sail bourge - prapare work plan - licheate Soil & ground Has contaminations. dueller & magnitude of ground wales gradient. 7-26-90 5 UGI'S famoued 10,000 gal \$-6000 gal Uny strong He odors. Sixing will be removed later per KC note: 4 Thw UGIS installed not in former tankarea. 8/90 Pying along puny island removed & saughter. Contamination up to 5,800 year TAH &) Soul escanabe down to «10 pgm TPHG, al 89 pym & 4,600 ppm That a remain beneath congry foundation 9/90 third quarter summary report submilled Stockpiled rail parated on sile I ying parallel to anciral removeda sanged. 10/25/90 -Sail sangle taken har odor, no & canalis done after sample was callected. 11/7/20 -Kexot submitted by Seostrategie - Jack Obernation Replacement Oberitation work done before 9/90, Kenamin & product ripery on the north side of the side will be remorably soil somple plille collectes (1/20 lineal ft)
ACHCS with be notified.
(page 2)

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Work plan will be issued to assess 45 time of soil & ground the contamination at six & wil design appropriate remediation Sylan To mitigate unscarated saile beneath site. Destrate que submitted noch plan propor 3 vara got naction welke 95 GMWS Considerations (for KC)

1-3-91

1-2-91

Submitted UST Leak Sitelydale Remedial plan submitted (1-2-91) addat contaminated soil will be remediated in-situ.

2-6-91

KC filed ULK-C for 5 UGTremoul A 7/26/90.

2-14-91

Ke consusationed Kyle Christie . remediation options, wants the sail Vapor extraction & understood area need to regorderly define Natically Intrallyoted I the soil aniamization before selling-in the system. Kyle to contact settler Kyan & set-up semoval of remaining UGT piping. for Kyle, the work flow submitted goods was a pretiminary owderling would probably revised to reflece contamination data oftomed when the vest of the former piping come our. Kyle said hed have Chuck Cormel call KC to Tell her what (roge3)

what to do with the Jan 2 work plan.

3/5/91 Pipe Acavation & removal Consessed by to)
sampling excavated soil 40 behanted
off ait after sampling of analysis.

5/3/91 French Excavation Sail Sumpling Keprit included sail aeration completely 9/90-7/428/90

+/19/91 ULR Filed - proben Hore on 4/11/91

8/1191

Questions: Konsonal of winstrail 5/87, 2, 400 kgen mater oil in sail mener docume ted, manifere for fanke? how was the sail manifested? no wells installed? Needs: On brill plans for new tanks not submitted as pequated by KC littles (grid 23, 1990), Part pg UGI

(rogy)

8/6/91 1260 Park anc. Alomeda

Rantino ministoring plan & contingency
yelon for release has been submitted on
Mark 11,1991

Lywilled to Mark 8/7/91

(Mark Thompson) ARCO quastione about sites 7-9-91 I NOV Dealere - and lake to be rent copies (mail said it's a reasonable regults) \* Talked to Ed (7-11-91) said I should white a ce and y copies of inspection report 40 me so I could Bond them to aco regenentative (once a whom the meny & weeke or once a month). 1260 Park St. alameda-1) May 1987 - Walt ail tack removed . Consamiration of stooppor motor oil, WHEN & HOW did we Hearn of contamination? 2) 11/89 - Pank leaked, failed precision Test. WHEN 8 How did me kun of leak. 3) from violation list- old signing was not removed. was the boxes of that old piping was not removed 4) arco submitted workplan 1/4/91, have me responded to this? 909 Rhebell drive Livernoue. Contract /dealer site There are only 5 or 4 site that are only progress of dealer since ares toldhe?

Aco classico weth notalled 1991

report will be fortheoming by fruth?

5131 Shattuck Oskland 1) Have quoterday cummarcie been zubnitted 2) supposition left ing.

Disussion with mark Thompson 7-15-91 SH 899 Kincoln ave. Livermore Sil Wulan letter of 5/31/91 ask guestions. When til Mistarie guknows menered & what development Lane occurred? @ 131 W. macarthen Blud. Calland, Before answering the gustions see summary. a) We say approval to submit a phore recovery system was made, put its unclear whithe proposal, any workplane were submilled. Clarify this partb) anything new in our statement "Country has bella provided no information or a Third quarter 1990 proposed remedial action plan has builty been unplemented: C) Have yoursed or approved & or what do you thinked 5/15/91 workplan to in 8tall pumpe. Dish of 5/15/91 workflow for assessment & feasibility. e) areo saye it contacted the agency to defin if it could defer taking from 1987-1988 9 and said country agreed three Ted Gerow. are said 2/88 To 10/89 taking occurred but Something was said to Ed Howell 10/90 & Something &

was resaid 1/90, any info on these?

6407 Jelegraph, Oakland 94689

1) 2 workplane submitted 5/15/91

Sheralquestione as to the workplane, howare the workplane, are they approved, what's the status?

7-18-91

(Mark's Thompson) arcs Site questions

additional Questions:

I 1260 Park auc. almeda

1. In the violation Summary - are the tanks

germitted? Gwhen?

2. New correspondence fr. arcs "a product sheen whe could not be measured was identified at this sile. On such, citerin free product bailing is not applicable". a workplan submitted to the agency Jue product & proude data from which where not responded to workplan. Igency not responded

until new July 3, 1991.

I 6407 Telegraph are lakeland 94609

Interior fee product recovery backing ferromoraled temporarily. Sec. no fee product detected in the site well. Workplan submilled 5/18/91 to conduct further assessment & persibility teating To allow design of comprehensive remedial yelan. In plansone from agency as of 7/2/91. Encreash permitting for Medwerth. initiated 6/24/98 whaty of

Ill 1249 Dublin Blad.

Fair Baid discrepancion in daily reconciliation & he game SH the file.

Tred to check or look in to this usine either faire or SH.

10. 185. E. Stanley Bluch. Livermore,
Meports submitted to aging describing
lackement of findings on 4/16/41.

Further assessment workplane To determine
45 tot of ground water problem, contamination

Interior free product recovery failing temporarily temminated bec. I lack of free product in site wells on 2/19/41. Whorleglan submitted to agency # 5/19/91, who incl. further accurant of florible testing for fragence of monitoring interior program into finish remedial system. Ossensone workflor approved 5/31/9! Installation of 4 14 148 commenced on 6/28/91.

La this accurate? adequate?

JI T31 W. Machilan Bluch.

Some fronce recovery backing on going agrifus test done 4/4/91 you purposed materation fearibility intrinspreading systems & gather later for Obeign of Jonal remediation system. Workplan promitted for approved on Stablation of a straction pumpe & rate with on 5/15/91. No response from agency, from to date. In agrifus the jetform 4/4/81 no further accessing final groundwater remediation system. I as such the workplan submitted for agreement of fearibility testing was not recessary.

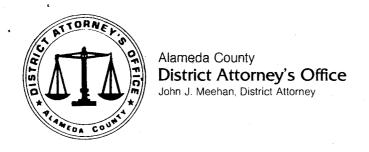
6/19/91 John Meck's Letter 4/16/91 FP (KC) H2112 1260 Park St. alameda - Submitte Waiting for agenoval of workplan Thought I wafer fitration wills & FP (LS) # 2035 1001 San Tablo aue. Albany - Submilled by 4/26/2, and natified (3/20/90) free product set. 2 service" ctaum FP (PE) #5387 20200 Hayerian Bled. Hayward 9454) ala Co letter (3/19/91) Jugarduco descorered. Workflan requested by april 30, 199 1. FP (PS) # 276 10600 Machithur Bland. Oakland Submitted workflam 6/27/91. FP (A) #362 Haryiand 29900 Mission Blud, Hayward Worksten cutmilled by 5/15/91 Letter high quarter by Gos monitoring Squarter & FP (SH) # 374 6407 Telegraph ane, Oakland Workplan submittedby 5/15/91 ye-SH

FP (LS)#601 4/2 Lewelling Blied. Sen Lewels
Workplan pubmitted by 5/15/91 Eft LS.

Taldendum to Juns
Work Plans FP (GW) #77/ 899 Rincon auc. Litermore Workslan to submit by 5/15/91 FP (B) #4494 566 Hegenberger, Fd., Oakbarel Workflow To Submit by 5/15/91 FP (GW) # 4931 731 W. Macarthur Blud, Calland

12 wells it site, 3 HWM'S WIFF. workplan to be anometric 5/15/91

FP (PE) # 608 1760/ Hesperin Blud. Supforenzo 7 GMUS by mid June



April 17, 1991

Gil Wistar
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Wistar:

Enclosed please find a 14-page letter from Mr. Meck. It concerns pending litigation to which this office is a party. That letter and its content is privileged and confidential and is the work product of the Alameda County District Attorney's Office. It is neither to be copied nor distributed. It is to remain within the possession of the Alameda County District Attorney's Office after your review.

After you have had an opportunity to review its content, please contact me so that we may discuss issues raised and so that we can arrange for the return to this office of our document.

Very truly yours,

JOHN J. MEEHAN District Attorney

By: Mark Thomson

Mark Thomson
Deputy District Attorney

JJM:MT:rf

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