DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-3724



April 23, 1996

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

REMEDIAL ACTION COMPLETION REPORT, FORMER J & A TRUCK REPAIR (AKA SMILO CHEMICAL), 500 KIRKHAM STREET, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) received the Remedial Action Completion Report, dated February 12, 1996, prepared by Jonas & Associates, SOMA Corporation and Performance Excavators, Inc. on behalf of Caltrans. The report, received by DTSC on March 19, 1996, documents the activities that were taken to remediate the former J & A Truck Repair Site. The report was reviewed and DTSC's comments are enclosed. All comments must be satisfactorily addressed before DTSC can approve the report.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Site Mitigation Branch

Barbara JColl

Enclosure

cc: See next page

Mr. Ace Forsen April 23, 1996 Page Two

cc: Mr. Sum Arigala Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering P.O. Box 23660 Oakland, California 94623-0660

Ms. Kathleen Leigh Caltrans Cypress Construction Office 1545 Willow Street Oakland, California 94607

Mr. Frank Cannizzaro
Caltrans
Cypress Construction Office
1121 7th Street
Oakland, California 94607

J&A TRUCK REPAIR COMMENTS ON THE REMEDIAL ACTION COMPLETION REPORT

The Department has completed review of the five volume Remedial Action Completion Report dated February 12, 1996 and submitted March 19, 1996. In general, the report does not provide sufficient documentation of the activities conducted. This is further discussed below.

GENERAL COMMENTS

- 1. Remedial Action Completion Reports must be certified, signed and stamped by a registered engineer who oversaw the remedial activities.
- 2. A more detailed description of the following activities must be included:
 - o handling of the excavated soil. The procedures used for handling the excavated soils and loading it into the trucks must be discussed. The procedures used to decontaminate the trucks and to prevent contamination of the trucks (e.g., use of liners) should also be discussed.
 - transportation of the excavated soil. The report indicates that 4,700 cubic yards of soils were transported by truck to ECDC in Utah. The manifests submitted with the report indicate that the excavated soils were sent by rail car. The transportation routes for the trucks must be included. Please discuss whether manifests were required for transportation of the excavated soils to the rail car loading location.
 - o storage of excavated soil. The soil was excavated on November 13 through November 16, 1995. The manifests indicate that the soil was put in rail cars on November 16, 1995, November 20, 1995 and December 2, 1995. Please indicate the location and procedures for storing the excavated soil.
 - o health and safety procedures implemented. This should include a discussion of the personal and perimeter air monitoring conducted and the personal protective equipment used. The air monitoring results should also be provided.
 - o traffic control measures implemented.
 - site restoration activities.

- 3. As the initial groundwater samples collected, indicated that the Site has impacted groundwater, a discussion of how the groundwater will be addressed should be included.
- 4. As industrial PRGs were established for this Site, please indicate how industrial use of the facility will be maintained (e.g., land use restrictions).

SPECIFIC COMMENTS

- 1. Pages 16 and 17, Section 1.5.
 - o It would be useful to discuss the depth of excavation;
 - o the location and depth of the sample collected from the west side of the excavation pit should be included on one of the figures.
 - o the lead level in the groundwater appeared to be well above drinking water standards. Please clarify whether the sample was filtered or unfiltered.
- Page 20, Section 2.2. Please clarify the rationale for collecting samples from the northern portion of the site at a depth of six feet.
- 3. Page 21, Section 2.2.3, Paragraph 1.
 - o The rationale for the six foot depth of excavation should be presented.
 - o Please indicate whether the excavation further excavated the area along the west wall of the excavation previously conducted to remove the underground tank. Alternatively, the sample results from the underground tank confirmation sampling should be included in the confirmation sampling results.
- 4. Page 22, bullet 2.
 - Please indicate the location of the air monitoring station. Please also discuss the frequency of sampling and analyzing the air at this station.
 - o Please indicate whether sampling for chemicals other than particulates was conducted.
 - o Please indicate whether the water truck was used.
- 5. Page 23, Section 3.1, Paragraph 1.
 - Please indicate what precautions were taken for workers conducting the sampling inside the excavation.

o Please indicate how duplicate samples were collected.
6. Page 28, Section 4.2.1. Please discuss the results of the duplicate sampling and draw appropriate conclusions regarding the results.
7. Pages 28 and 29, Section 4.2.2. All three of the equipment rinsate samples detected chemicals. Therefore, please also discuss the following:
o when each of the rinsate samples were collected.
o the source of the purified water used to conduct the distilled water rinse.

- distilled water rinse.

 Rationale is provided for the presence of some of the
- Rationale is provided for the presence of some of the compounds detected in the equipment blanks. However, this rationale does not account for the presence of all the contaminants nor for levels of the contaminants detected. Please clarify whether it is also possible that the results indicate faulty decontamination procedures.
- The discussion should include levels in the same units. Within this section, there is a tendency to discuss the levels detected in the equipment blanks in units of mg/l and levels contained in typical water in units of ug/l. This could lead to inappropriate comparisons. Please revise this discussion as indicated.
- 8. Page 34, Section 5.5, bullet 1. Please delete. Total threshold limit concentrations or TTLCs are not health-based criteria. Therefore, this is an inappropriate comparison.
- 9. Table 4-1. Please clarify the purpose of this table. This table takes the chemicals detected and provides an average concentration and compares this average concentration with PRGs. In many cases, the average concentrations are above the applicable PRGs or PRGs are not provided.
- 10. Please clarify the discrepancies between the maximum concentrations listed in Table 4-1 and those in Table 5-1. For example, the maximum concentration of benzene is given as 26 mg/kg in Table 4-1 and 20 mg/kg in Table 5-1. Please also check to see whether this alters any of the 95th percent upper confidence limits of the mean calculations and subsequently, the risk calculations.
- 11. Appendix III. The chain-of-custody forms were missing and must be included. The rationale for submission of certain groups of

samples late should have been included in the text. Please also clarify how only the samples for TPH-gasoline with BTEX analysis from the November 14, 1995 sampling event could have been received by the laboratory one day late when only one soil sample was collected for the range of analyses performed.

DEPARTMENT OF TOXE SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-3724



January 17, 1996

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

UNDERGROUND TANK CLOSURE REPORT, FORMER J&A TRUCK REPAIR SITE (AKA SMILO CHEMICAL), 500 KIRKHAM STREET, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) received Caltrans'letter, dated January 11, 1996 containing the Addendum to the underground tank removal report prepared by Jonas and Associates. The Addendum describes how excavated soils were stockpiled, tested, characterized and disposed, and contains copies of the Uniform Hazardous Waste Manifests that accompanied each shipment. DTSC has reviewed the Addendum and has no further comments regarding this report.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Site Mitigation Branch

cc: See next page

Mr. Ace Forsen January 17, 1996 Page Two

Mr. Sum Arigala
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering P.O. Box 23660 Oakland, California 94623-0660

Ms. Kathleen Leiga Caltrans Cypress Construction Office 1545 Willow Street Oakland, California 94607

Mr. Frank Cannizzaro
Caltrans
Cypress Construction Office
1121 7th Street
Oakland, California 94607

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-3724



December 27, 1995

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

UNDERGROUND STORAGE TANK CLOSURE REPORT, FORMER J & A TRUCK REPAIR SITE, 500 KIRKHAM STREET, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) received the above mentioned report prepared by Jonas & Associates Inc. on behalf of Caltrans. The report describes the removal of a 1100 -gallon underground tank and subsequent soil and groundwater sampling. DTSC has reviewed the plan and requests that the rationale for disposing the stockpiled soil as a Class I RCRA hazardous waste be included in the report. This discussion should include the RCRA waste code and/or Toxicity Characteristic Leaching Potential (TCLP) results. In addition, state the final disposal location of the soil as ECDC does not have a RCRA disposal facility in Oakland. Finally, include a copy of the hazardous waste manifest(s) that accompanied the shipment.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief Site Mitigation Branch

Barbara & Cosh

cc: See next page

Mr. Ace Forsen December 27, 1995 Page Two

cc: Mr. Sum Arigala
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering P.O. Box 23660 Oakland, California 94623-0660

Ms. Kathleen Leiga Caltrans Cypress Construction Office 1545 Willow Street Oakland, California 94007 Susan- could you check w/ Coolie on this. Deptel not closed, also Z'# 788 refund. is this wast?

12/4/95 - Jam 1 don't know whatelee to check. I have closely the site 8/30/95 & submitted the worksheet to closelie. See attached copy. Sucon

Previous Next Quit Edit Save Add new Delete Reset

the medical contract of the state of the sta

Site #: 3546 StID#: 2265 LookUp-PAYOR #:611 Site1st: 3813, 3546, Site Name: J & A Truck Repair Jonas & Assoc. 3545, 1284, Address: 500 Kirkham St Address: 2815 Mitchell Dr #209 City: Walnut Creek CA Zip: 94598 City: Oakland Zip: 94607 Contact: Mr Mark Jonas Contact: Phone #: 510-933-5360 Phone #: 286-0670 Code: Unauthorized Release? (y/n) Receipt #'s: 759246, 759246 Date Site Complete: Type List: Payor Links: 611-a T.R

PROJ# DATE: RCPT#: CHECK #: \$AMOUNT R,I,M #TANKS COMPLETE INSP 3546A 08/08/95 759246 5765 603.00 R 2 08/30/95 CL 3546A 08/08/95 08/30/95 CL

and the state of t

LOP - RECORD CHANGE REQUEST FORM

printed: 11/30/95

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

Insp: SH

AGENCY # : 10000 StID : 2265

SOURCE OF FUNDS: F

SUBSTANCE: 12034

SITE NAME: J & A Truck Repair

LOC:

DATE REPORTED: 08/30/95 DATE CONFIRMED: 08/30/95

CITY/ZIP : Oakland

ADDRESS : 500 Kirkham St 94607

MULTIPLE RPs : N

SITE STATUS -----

RP SEARCH: S

CASE TYPE: S CONTRACT STATUS: 2 PRIOR CODE: 2B4 EMERGENCY RESP:

DATE COMPLETED: 08/31/95

PRELIMINARY ASMNT: U DATE UNDERWAY:
REM INVESTIGATION: DATE UNDERWAY: REM INVESTIGATION: DATE UNDERWAY:
REMEDIAL ACTION: DATE UNDERWAY:
POST REMED ACT MON: DATE UNDERWAY:

DATE COMPLETED: DATE COMPLETED: DATE COMPLETED:

DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 LUFT FIELD MANUAL CONSID: 2HSCA

DATE ENFORCEMENT ACTION TAKEN: 08/31/95

CASE CLOSED:

DATE CASE CLOSED:

DATE EXCAVATION STARTED : 00/30/95 REMEDIAL ACTIONS TAKEN. ED-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Mr. Joel Howie

COMPANY NAME: Caltrans Environmental Engr.

ADDRESS: P O Box 23660

CITY/STATE: Oakland, California 94623-0660

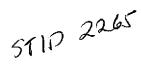
INSPECTOR VERIFICATION:				
NAME	SIGNATURE	DATE		
Name/Address Changes Only	DATA ENTRY INPUT:	Case Progress Changes		
ANNPGMSLOP	DATE	LOP DATE		

	"				
	UNDERGROUND STORAGE TANK UNAUTHO		D RELEASE (LE	AK) / CONTAMINATI	ON SITE REPORT
	HAS STATE OFFICE OF EMERGENCY SERVING REPORT BEEN FILED? YES X NO YES X		FOR LOCAL AGENCY THEREBY CERTIFY THAT DISTRIBUTION SHOWN C	USE ONLY I HAVE DISTRIBUTED THIS INFORM THE INSTRUCTION SHEET ON T	MATION ACCORDING TO THE
l	CASE #		SIGNED	27772 31371327131	DATE
BY	NAME OF INDIVIDUAL FILING REPORT Frank Cannizzoro	(510	* - 3 CO G G G G G G G G G G G G G G G G G G	SIGNATURE)	h 3 64
REPORTED	REPRESENTING X OWNER/OPERATOR REGIONAL E LOCAL AGENCY OTHER	BOARD	Caltrans	NAME for Frank Ca	mmirraro?
	1121 7th Street, Oakland, CA 94607		сіту	,	STATE ZIP
RESPONSIBLE PARTY	Former J&A Truck Repair UNK	NOWN	Caltrans, Fra	ank Cannizzoro	PHONE (510)286-0670
RESP P	500 Kirkham Street, Oakland, CA 94607 STACET	7 als	CITY		cland, CA 94607
NOIL	Former J&A Truck Repair		OPERATOR Caltrans/Form	ner J&A Truck	PHONE (510) 286-0670
SITE LOCATION	500 Kirkham Street, Oakland, CA 9460 STREET)7	CITY	Alame	eda COUNTY ZIP
	5th Street LOCAL AGENCY AGENCY NAME				
IMPLEMENTING AGENCIES	Alameda County Health Care Services		Ms. Susan Hu	1go	(510)567-6780
	(1) NA	AME			PHONE ()
SUBSTANCES INVOLVED	Petroleum Hydrocarbons				QUANTITY LOST (GALLONS) X UNKNOWN
ENT	DATE DISCOVERED HOW DISCOVERED	INVE	NTORY CONTROL	SUBSURFACE MONITORING	UNKNOWN NUISANCE CONDITIONS
TEM	M M O D 9 Y 5 Y TANK TEST	TAN	REMOVAL X	OTHER Site Assess	ment
DISCOVERY/ABA	M D D Y Y DINKNOWN HAS DISCHARGE BEEN STOPPED ?	**		TS X CLOSE TANK & REMOVE	REPAIR PIPING
	SOURCE OF DISCHARGE	y 5 y	REPLACE TANK	OTHER	
SOURCE	UTHER LEAK		ERFILL RROSION X	RUPTURE/FAILURE UNKNOWN	SPILL OTHER
CASE	CHECK ONE ONLY UNDETERMINED X SOIL ONLY X GROUNDWAT	TER [DRINKING WATER -	(CHECK ONLY IF WATER WELLS	HAVE ACTUALLY BEEN AFFECTED)
CURRENT	CHECK ONE ONLY NO ACTION TAKEN PRELIMINARY SITE ASSES LEAK BEING CONFIRMED PRELIMINARY SITE ASSES REMEDIATION PLAN CASE CLOSED (CLEANUP	SSMENT	UNDERWAY	POLLUTION CHAR POST CLEANUP INDER	IONITORING IN PROGRESS
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S) ISEE BACK FOR DETALS) CAP SITE (CD) CONTAINMENT BARRIER (CB) VACUUM EXTRACT (VE) CHECK APPROPRIATE & DISPO EXCAVATE & DISPO EXCAVATE & TREAT NO ACTION REQUIR	T (ET) RED (NA)	PUMP & TREATMENT	EAT GROUNDWATER (GT)	ENHANCED BIO DEGRADATION (IT) REPLACE SUPPLY (RS) VENT SOIL (VS)
COMMENTS					

	UNDERGROUND STORAGE TANK UNAUTHORIZE	D RELEASE (LE	AK) / CONTAMINATIO	ON SITE REPORT
EME	REPORT BEEN FILED 7	FOR LOCAL AGENCY	USE ONLY I: HAVE DISTRIBUTED THIS INFOR	NATION ACCORDING TO THE
REP	YES NO YES NO	 2000000 k. 00000000000000000000000000000	IN THE INSTRUCTION SHEET ON TH	- Michael Barrior, Barrio Guarra Succession and Linguis, Assault Anni Anni Anni Anni Anni Anni Anni Ann
1	1 1 1 1 4 0 9 7 5	SIGNED		DATE
	NAME OF INDIVIDUAL FILING REPORT PHONE		SIGNATURE	7- :
) BY		286-0670	17 10 . det	+
REPORTED	REPRESENTING CWNER/OPERATOR REGIONAL BOARD LOCAL AGENCY OTHER	COMPANY OR AGENCY Caltrans	NAME TO TOUR FOR	den & A. C.
1 -	ADDRESS	<u> </u>		
	1121 7th Street, Oakhand, CA 94607	СПУ		STATE ZIP
IBLE	NAME CALIBRAS - CALIBRASS FORMER J&A Truck Repair UNKNOWN	CONTACT PERSON	mir Canadanasa	PHONE (510) 286-8670
RESPONSIBLE PARTY			ank Canalssoro	1
RES	ADDRESS 500 Kirkhen Street, Ockland, CA 94607 ale STREET	CITY		STATE 71P
<u> </u>	FACILITY NAME (IF APPLICABLE) FORMER JEA Truck Repair	OPERATOR CALETON / POE	ner J&A Truck	PHINE 286-0670
SITE LOCATION	500 Kirkham Street, Onkland, CA 94607		Alam	da
31	STREET CROSS STREET	спу		COUNTY ZIP
"	5th Street			
ÿ	LOCAL AGENCY AGENCY NAME	CONTACT PERSON		PHONE
MENTI	Alameda County Health Care Services	Ms. Susan B	180	(510)567-6780
IMPLEMENTING AGENCIES	REGIONAL BOARD			PHONE
-	(1) NAME			QUANTITY LOST (GALLONS)
SUBSTANCES	Patroloum Hydrocarbons			UNKNOWN
SUBSTA	(2)			UNKNOWN
-	DATE DISCOVERED HOW DISCOVERED INVI	ENTORY CONTROL	3 SUBSURFACE MONITORING	NUISANCE CONDITIONS
ABATEMENT	M M D D 9 S TANK TEST TAN	K REMOVAL	OTHER Site Access	ment
	DATE DISCHARGE BEGAN	│ <u>₩</u>	P DISCHARGE (CHECK ALL THAT	· —
DISCOVERY/	M M D D Y Y HAS DISCHARGE BEEN STOPPED ?	REPAIR TANK	CLOSE TANK & REMOVE	
OSC	X YES NO IF YES, DATE ON SU 3 DO S 5	REPLACE TANK	OTHER	
Ŋ,	SOURCE OF DISCHARGE			
SOURCE	TANK LEAK UNKNOWN ON	VERFILL	RUPTURE/FAILURE	SPILL OTHER
└		ORROSION] UNKNOWN	
CASE	UNDETERMINED SOIL ONLY GROUNDWATER	DRINKING WATER	- (CHECK ONLY IF WATER WELLS	HAVE ACTUALLY BEEN AFFECTED)
	CHECK ONE ONLY			
CURRENT	NO ACTION TAKEN PRELIMINARY SITE ASSESSMENT LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT		POLLUTION CHA	RACTERIZATION MONITORING IN PROGRESS
3∞	REMEDIATION PLAN CASE CLOSED (CLEANUP COMPI		4	
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) (SEE BACK FOR DETAILS) (SEE BACK FOR DETAILS)	D) REMOVE	REE PRODUCT (FP)	ENHANCED BIO DEGRADATION (IT)
REMEDIAL	CAP SITE (CD) EXCAVATE & TREAT (ET)		REAT GROUNDWATER (GT)	REPLACE SUPPLY (RS)
E S	CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (N/		NT AT HOOKUP (HU)	VENT SOIL (VS) > '
-				
ENTS			$\sum_{i=1}^{N_{i+1}} \sum_{j=1}^{N_{i+1}} (1-i)^{j} \sum_{i=1}^{N_{i+1}} (1-i)^{j} \sum_{j=1}^{N_{i+1}} (1-i)^{j} \sum_{j=1}^{N$	
COMMENTS				•
ľ	· · · · · · · · · · · · · · · · · · ·			

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-3724





November 9, 1995

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

REMEDIAL DESIGN AND IMPLEMENTATION PLAN, J&A TRUCK REPAIR (AKA SMILO CHEMICAL), 500 KIRKHAM STREET, CONTRACT "A", CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) received the Addendum to the Remedial Design and Implementation Plan (RDIP) prepared by Jonas & Associates Inc. on behalf of Caltrans. The Addendum adequately addresses the concerns contained in DTSC's letter dated October 20, 1995; therefore, the RDIP is approved and remediation activities may commence.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Site Mitigation Branch

cc: See next page

Mr. Ace Forsen November 9, 1995 Page Two



95 NOV 14 PH 2: 46

cc:

Mr. Sum Arigala Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering P.O. Box 23660 Oakland, California 94623-0660

Ms. Kathleen Leiga Caltrans Cypress Construction Office 1545 Willow Street Oakland, California 94607

Mr. Frank Cannizzaro
Caltrans
Cypress Construction Office
1121 7th Street, 2nd Floor
Oakland, California 94607

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-3724



October 20, 1995.

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

COMMENTS TO REMEDIAL DESIGN AND IMPLEMENTATION PLAN (RDIP), J&A TRUCK REPAIR (AKA SMILO CHEMICAL) SITE, 500 KIRKHAM STREET, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) has received the above mentioned plan prepared by Jonas & Associates, Inc. on behalf of Caltrans. In general, the plan is well written and contains most of the elements required in a RDIP. After review of the document, DTSC has the following comments to the plan and site specific health and safety plan:

Remedial Design and Implementation Plan

- 1. State whether the underground storage tank located at the site will be excavated prior to or during soil excavation. If the tank will be removed during the soil excavation, then the general process that will be used to remove the tanks should be included, along with the name of the regulatory agency that will oversee the removal.
- 2. Page 1, Introduction: Reference to the Remedial Action Plan (RAP) should be included in the introduction. The introduction should include a list of all remedial alternatives considered in the RAP, a summary of the selected alternative and the rational for its selection.
- 3. Page 13, Section 2.1, Work Performed Prior to Excavation Activities: This section states that underground utility lines will be marked and identified by Caltrans. The methods that Caltrans will be using to identify and mark the areas need to be included in this section or as an appendix to the report.
- 4. Page 14, Section 2.4, Waste Containment: Identify the location of the waste containment area on site or include the criteria that will be used to locate the site.
- 5. Page 18, first paragraph: Identify who will be responsible for backfilling the site after

Mr. Ace Forsen October 20, 1995 Page Two

excavation is completed.

- 6. Page 18, Section 3.3.1, Wastewater: State the name of the "other contractor" who will be responsible for treating the wastewater. In addition, describe when the change in possession of the wastewater will be made and the procedures that will be used to make this change.
- 7. Figure APV-1: Change the ECDC Landfill location from California to Utah.

Health and Safety Plan

- 8. Page 4, Section 1.5, Health and Safety Plan Availability: Add that the HASP will be available on-site.
- 9. Page 18, Section 7.3.9, Weather and Heat Stress: DTSC strongly urges, at a minimum, adherence to the heat stress monitoring protocols and work/rest regimens outlined in the Heat Stress section of the American Conference of Governmental Industrial Hygienist (ACGIH) Threshold Limit Value (TLV) booklet for Chemical Substances and Physical Agents (1994-1995). The heat stress section of the HASP does not specify a work/rest cycle or the type, frequency, and associated action levels for metabolic monitoring (i.e. pulse or body temperature measurements).

If you have any questions regarding these comments, please call Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Sactore Y Cot

Site Mitigation Branch

cc:

See next page

Mr. Ace Forsen October 20, 1995 Page Three

cc:

Mr. Sum Arigala Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering P.O. Box 23660 Oakland, California 94623-0660

Ms. Kathleen Leiga Caltrans Cypress Construction Office 1545 Willow Street Oakland, California 94607



9/6/95		
STATE OF COMPLETE THIS FORM F ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED BA OR FACILITY NAME Cypress Freeway/Former: J&A Truck Repair	CALIFORNIA RCES CONTROL BOARD YOU BEACH FACILITY/SITE	IM A
W PERMIT 3 RENEWAL PERMIT ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT	5 CHANGE OF INFORMATION 6 TEMPORARY SITE CLOSURE	7 PERMANENTLY CLOSED SITE
I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLE	ETED)	
Cypress Freeway/Former:J&A Truck Repair ADDRESS	NEAREST CROSS STREET	Truck Repair
500 Kirkham Street	5th Street STATE ZIP CODE	OUT OF ONE - WITH ADDA CODE
Oakland	CA 94607	SITE PHONE # WITH AREA CODE
J BOX TO INDIVIDUAL PARTNERSHIP	DISTRICTS* or office which operates the UST <u>Caltrans</u>	
TYPE OF BUSINESS 1 GAS STATION 2 DISTRIBUTOR 3 FARM 4 PROCESSOR X 5 OTHER	FINDIAN OF TANKS AT SITE RESERVATION OR TRUST LANDS	
EMERGENCY CONTACT PERSON (PRIMARY)	EMERGENCY CONTACT PERS	
DAYS: NAME (LAST, FIRST) Caltrans Attn. Ray Pang NIGHTS: NAME (LAST, FIRST) PHONE # WITH AREA CODE PHONE # WITH AREA CODE	DAYS: NAME (LAST, FIRST) Caltrans Attn. Kate Le NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST)	and the second second	FROME & INTITIONER SACE
II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)	CARE OF ADDRESS INFORMATION	
Caltrans Attn. Ray Pang MALING OR STREET ADDRESS		
MAILING OR STREET ADDRESS 1121 7th Street	✓ box to indicate ☐ INDIVIDUAL ☐ CORPORATION ☐ PARTNERSHIP ☐	LOCAL-AGENCY X STATE-AGENCY COUNTY-AGENCY FEDERAL-AGENCY
CITY NAME Oakland	STATE ZIP CODE CA 94607	PHONE # WITH AREA CODE (510) 286-5281
III. TANK OWNER INFORMATION - (MUST BE COMPLETED)	VIII.	(337)
NAME OF OWNER	CARE OF ADDRESS INFORMATION	
Caltrans Attn. Ray Pang Mailing OR STREET ADDRESS		
MAILING OR STREET ADDRESS 1121 7th Street	CORPORATION PARTNERSHIP	LOCAL-AGENCY STATE-AGENCY COUNTY-AGENCY FEDERAL-AGENCY
CITY NAME	STATE ZIP CODE	PHONE # WITH AREA CODE (501) 286-5281
Oakland IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUI	<u> </u>	
TY (TK) HQ 440 32 06 2 V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE CO		·
✓ box to Indicate	2 GUARANTEE 3 INSURA	
VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification		
CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOT	······································	L. H. X
THIS FORM HAS BEEN COMPLETED UNDER DENALTY OF PERJURY, A	ND TO THE BEST OF MY KNOWLEDGE, IS	STRUE AND CORRECT
''.'/////	ERS TITLE DA	ATE MONTH/DAY/YEAR
LOCAL AGENCY USE ONLY		8/30/95
COUNTY # JURISDICTION	# FACILITY	TY#
LOCATION CODE - OPTIONAL CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL	΄.

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



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMATION 7 PERMANENTLY CLOSED ON SITTED ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLOSURE X 8 TANK REMOVED
DBA OR FACILITY NAME WHERE TANK IS INSTALLED: CYPRESS FREEWAY/FORMER J&A TRUCK REPAIR
I. TANK DESCRIPTION COMPLETE ALL ITEMS SPECIFY IF UNKNOWN
A. OWNER'S TANK I, D. #
C. DATE INSTALLED (MO/DAY/YEAR) UNKNOWN D. TANK CAPACITY IN GALLONS: - 2000 GALLONS
II. TANK CONTENTS IF A-1 ISMARKED, COMPLETE ITEM C.
A. X 1 MOTOR VEHICLE FUEL 4 OIL B. C. 1a REGULAR UNLEADED 4 GASAHOL 7 METHANOL 2 PETROLEUM 80 EMPTY 1 PRODUCT 1b PREMIUM UNLEADED 4 GASAHOL 7 METHANOL 2 WASTE 2 LEADED 99 OTHER (DESCRIBE IN ITEM D. BELOW D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED GASOLINE (TYPE UNKNOWN) C.A.S.#:
III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E
A. TYPE OF
B. TANK
C. INTERIOR LINING 1 RUBBER LINED 2 ALKYD LINING 3 EPOXY LINING 4 PHENOLIC LINING LINING 5 GLASS LINING 6 UNLINED X 95 UNKNOWN 99 OTHER IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES NO
D. CORROSION 1 POLYETHYLENE WRAP 2 COATING 3 VINYL WRAP 4 FIBERGLASS REINFORCED PLASTIC PROTECTION 5 CATHODIC PROTECTION 91 NONE 95 UNKNOWN 99 OTHER
E. SPILL AND OVERFILL SPILL CONTAINMENT INSTALLED (YEAR) OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR)
IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE
A. SYSTEM TYPE A U 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 99 OTHER
B. CONSTRUCTION A U 1 SINGLE WALL A U 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND A U 1 BARE STEEL A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE CORROSION A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL W COATING A U 8 100% METHANOL COMPATIBLE W/FRP PROTECTION A U 9 GALVANIZED STEEL A U 10 CATHODIC PROTECTION A U 99 OTHER
D. LEAK DETECTION 1 AUTOMATIC LINE LEAK DETECTOR 2 LINE TIGHTNESS TESTING 3 INTERSTITUL MONITORING 99 OTHER UNKNOWN
V. TANK LEAK DETECTION
1 VISUAL CHECK 2 INVENTORY RECONCILIATION 3 VADOZE MONITORING 4 AUTOMATIC TANK GAUGING 5 GROUND WATER MONITORING 6 TANK TESTING 7 INTERSTITIAL MONITORING 91 NONE X 95 UNKNOWN 99 OTHER
VI. TANK CLOSURE INFORMATION
1. ESTIMATED DATE LAST USED (MO/DAY/YR) 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING 400 GALLONS 3. WAS TANK FILLED WITH INERT MATERIAL? YES X NO
THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PENJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT
APPLICANTS NAME (PRINTED & SIGNATURE) CALTRANS CALTRANS DATE 8/30/95
LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW
STATE I.D.# COUNTY # JURISDICTION # FACILITY # TANK #
PERMIT NUMBER PERMIT APPROVED BY/DATE PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

norma, lane transfer to LOB. Thanks, Susan:

5TID 2265

4MS 8.31.95

8/30/95 DATE:

Local Oversight Program TO

SUSAN FROM:

Transfer of Elligible Oversight Case

Site name: Farmer J&A Truck Kenair
Address: 500 KIRKHAM ST. City OAKLAND Zip 94607
Closure plan attached? (Y) N DepRef remaining \$
DepRef Project #STID #(if any) 2265
Number of Tanks: / removed? (Y) N Date of removal 8/30/95
Leak Report filed? Y N Date of Discovery
Samples received? Y N Contamination:
Petroleum Y N Types: Avgas Jet <u>leaded unleaded</u> Diesel fuel oil waste oil kerosene solvents
Monitoring wells on site Monitoring schedule? Y N
LUFT category 1 2 3 * H S C A R W G O
Briefly describe the following:
Preliminary Assessment
Remedial Action
Post Remedial Action Monitoring
Enforcement Action

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION DEPOSIT / REFUND ACCOUNT SHEET

printed08/08/95

SITE INFORMATION

J & A Truck Repair 500 Kirkham St

Oakland

94607

Site Contact:

Owner Contact:

Owner Phone :

Site Phone : 286-0670

StID: 2265 Site#: 3546 PROJECT#: 3546A PROJECT TYPE:*** R *** INSP: Susan Hugo

INSP: Susan Hugo ACCT. SHEET PG #:

PROPERTY OWNER INFORMATION

* Billing adjustment forms needed when site is in our UST program.

PAYOR INFORMATION

Jonas & Assoc.

2815 Mitchell Dr #209

CÄ 94598 #611

REPORT: WrkShtA (Admin)

Walnut Creek CA 94598
Payor Contact: Mr Mark Jonas
Payor Phone : 510-933-5360

Money Hours Spent/ Spent/ Time Hour Depstd Balance Depositd Balance In Out Action Taken Date _____ Rcpt# 759246 +6.69 \$603.00 \$603.00 \$603.00 @ \$90/hour Deposit of 08/08/95 \$513.00 Admin. Charge: 1 hour 08/08/95 UPON COMPLETION OF PROJECT State Forms A,B & C ATTACH: Billing Adjustment* PROJ COMPLETED BY : DATE SENT TO BILLING: DATE OF COMPLETION Rev. 5/95 REFUND AMOUNT: TOTAL COST OF PROJECT:

white -env.health yellow -facility pink -files

Title:

Signature:

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy. Sulte 250 Alameda, CA 94502-6577 (510) 567-6700

		Ho	zardous Materials Inspection Form	.111
			Site Site V.S.A. 4. 1 Y. Today 2.	, . a
****		***************************************	"Site Site Name JEA Juck Kyan Today of 3	975
l.A	BUSINESS PLANS (Title 19) 1. immediate Reporting 2. Bus. Plan Stds.	2703 25503(b)	Site Address 500 Kirkham St.	
	3. RR Cars > 30 days 4. Inventory information 5. Inventory Complete 6. Emergency Response	25503.7 25504(a) 2730 25504(b)	city Oakland zip 94607 Phone	
	7. Training 8. Deficiency 9. Modification	25504(c) 25505(d) 25505(b)	MAX AMT stored > 500 lbs, 55 gal., 200 cft.?	
.B	ACUTELY HAZ. MATLS		inspection Categories:I. Haz. Mat/Waste GENERATOR/TRANSPORTERII. Business Plans, Acute Hazardous Materials	
	10. Registration Form Filed 11. Form Complete 12, RMPP Contents 13. Implement Sch. Regid? (Y/N)	25533(o) 25533(b) 25534(c)	Manifest # 95-208686	
	14. OffSite Conseq. Assess. 15. Probable Risk Assessment	25524(c) 25534(d)	Callf. Administration Code (CAC) or the Health & Safety Code (HS&C)	
	16. Persons Responsible 17. Certification 18. Exemption Request? (Y/N) 19. Trade Secret Requested?	25534(g) 25534(f) 25536(b) 25538	Comments: Heft - fank's transporter	
111.	UNDERGROUND TANKS (Title	23)	gasoline	
Ē	1. Permit Application 2, Pipeline Leak Detection	25284 (H&S)	02=11/2 LEL=7.5%	
Genera	3. Records Maintenance 4. Release Report 5. Closure Plans	25292 (H&S) 2712 2651 2670	Cakland Fire Dyt not available requi	<u>stul</u>
	6. Method 1) Monthly Test		ACDEH TO onlise removal for their dy	<u> </u>
	Daily Vadose Semi-annual gnowater		(for contra gone).	
	One time soils 3) Daily Vadose One time soils		Jank waying justing	
<u> </u>	Annual tank test 4) Monthly Gnawater		Groundwaler present in the Lican allow	
	One itme sols 5) Daily inventory Annual tank testing		Then / floating product gelsen.	
X O	Cont pipe leak det Vadase/gndwater man.		Jone previously had groduer your	<u>~()</u>
lonitaring for Existing	 bally inventory Annual tank testing Contiple teak det 		pumped out aglof 400 gal.	
Ē O V	7) Weekly Tank Gauge Annual tank tsting			
	8) Annual Tank Testing Daily inventory 9) Other		I say Songle collected one from lo	nes
	7. Precis Tank Test		and of the took at the sur water	
	Date:8, Inventory Rec.	2644	interface. Formerdwater range	
	9. Soil Testing . 10, Ground Water,	2646 2647	callated.	
Tank	11.Monitor Plan 12.Access. Secure	2632 2634		
New To	13.Plans Submit Date: 14. As Buit	2711	Stockpiled soil must be character	34
	Date:	2635	you disposal.	
87	6/88		l '	
	-		_ luansfir to LOP II,	111
	Contact:	Komen	na Jonas ",	

Inspector:





These closure/removel plans have been received and found to to acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicated by his Department are to assure compliance with State and local lang, the project proposed herein is now released for issuance of any required building parmits for construction/destructions Ore copy of the accepted plans must be on the job and avail-

Telephone: (510) 271-4320

Oakland, CA 94621

Underground Storage Tank Closure Permit Application

ACCEPTED

Alameda County Division of Hazardous Materials

80 Swan Way, Suite 200,

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

1

1131 HARBOR BAY PARKWAY R-250

Any changes or alterations of these plans and sindiffications must be an expeditional to the fire and Belicing Inspections Department to determine if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following CA 94502 able to all contractors and crefismen involved with the remoral.

Removal of Tank(s) and Piping

Final Inspection

Sampling

required inspections: *

Issuance of a) permit to operate, b) permanent site closura. is dependent on compliance with accepted plans and all ap-

*THERE IS A FINANCIAL PENALTY FOR plicable laws and regulations.

NOT OBTAINING THESE INSPECTIONS Contact Specialist; KON WLOKE

こぞりん

UNDERGROUND TANK CLOSURE PLAN Complete according to attached instructions

1.	Business Name _	Barney Smilo (Subl	eased to J&A Truck	Repair)	
	Business Owner	J&A Truck Repair			
2.	Site Address	500 Kirkham Street			<u> </u>
	City	Oakland, CA	Zip <u>94607</u>	_ Phone	<u> </u>
3.	Mailing Address	B			
	City	~~.	Zip	Phone (510)) 286–0670
4.	Land OwnerCal	trans - Ray Pang			
	Address 1121 7t	h Street, Oakland	city, State	A	Zip <u>94607</u>
5.	Generator name	under which tank	will be manife	sted Caltran	s C
					····
	EPA [.D. No. ur	nder which tank w	ill be manifest	edCAL00012	3236
* 6	2 Fare Extense	nder which tank w	hy at the	eite al al	think.
rev	12/90		£1		

6.	Contractor Performance Excavators Inc.
	Address 3060 Kerner Blvd., Suite A
	City San Rafael, CA 94901 Phone (415) 257-4640
	License Type A-Haz ID# 667433 9/2 3/31/97
7.	Consultant Jonas & Associates Inc.
	Address 2815 Mitchell Drive, Suite 209
	City Walnut Creek, CA 94598 Phone (510) 933-5360
8.	Contact Person for Investigation
	Name Mark Warner Title Project Manager
	Phone (415) 257-4640
9.	Number of tanks being closed under this plan
	Length of piping being removed under this plan Unknown
	Total number of tanks at facility
LO.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled ** as hazardous waste
	a) Product/Residual Sludge/Rinsate Transporter
	Name <u>H&H Environmental</u> EPA I.D. No. <u>CAD004771168</u>
	Hauler License No. 0334 License Exp. Date 1/31/96
	Address Terry A. Francois Blvd.
	City San Francisco State CA Zip 94107-2106
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name PRC EPA I.D. No. CADO83166728
	Address 13331 N. Highway 33
	City Patterson State CA Zip 95363

	c) Tank ar	d Piping Transporter		
	Name	H&H Environmental	EPA I.D.	No. CAD000471168
	Haule	r License No. 0334	License I	Exp. Date 1/31/96
	Addre	Terry A. Francois	3l∀d.	<u> </u>
	City	San Francisco	State CA	Zip <u>95363</u>
	d) Tank a	nd Piping Disposal S	ite	
	Name	H&H Environmental	EPA I.D.	No. CAD00471168
	Addre	ess Terry A. Francois B	L v d.	
	City	San Francisco	State CA	Zip 95363
11.	Experience	ed Sample Collector		
	Name Mark	Jonas, Ellis Ishaya		
	Company _	Jonas & Associates Inc.		- <u></u> -
	Address _	2815 Mitchell Drive, Su	ite 209	
	city	Walnut Creek Stat	e <u>CA</u> Zip <u>94598</u>	Phone (510) 933-5360
12.	Laboratory	•		
	Name Chr	omaLab, Inc.		
	Address _	1220 Quarry Lane		
	City	Pleasanton	State CA	Zip 94566-4756
	State Cer	tification No. 1094		
13.	Have tanks	or pipes leaked in	the past? Yes []) No [UNKNOWN
	If yes, de	escribe.		
				· · · · · · · · · · · · · · · · · · ·

14. Describe methods to be used for rendering tank inert

Inert each tank with 1.5 pounds of solid carbon dioxide (dry ice) for each 100

gallons of the tank volume.

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

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

15. Tank History and Sampling Information

Tank		Material to		
Capacity	Use History (see instructions	be sampled (tank contents,) soil, ground- water, etc.)	Location and Depth of Samples	
2,000	Diesel	Soi1	beneath the tank at a maximum of two feet below the native soil/backfil interface.	
		peraind water mist be sampled of present.		
One soil	fample much	the called		

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

Excavated/Stockpiled Soil

Stockpiled Soil

Volume
(Estimated)

Sampling Plan

Frankling

Attackpiled for must be Character 34

Character 34

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

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

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

Contamina Sought	Sample Prepa	EPA, DHS, or Other EPA, DHS, or Sample Preparation Other Analysis Method Number		Method Detection Limit	
TPH G TPH D BTEX	GCFID 5030 GCFID 3550 5030	8015 8015 8020	1.0 PPM 1.0 PPM 5.0 PPB	3	

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity

19. Submit Plot Plan (See Instructions)

1.3

- 20. Enclose Deposit (See Instructions)
- 21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
- 22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

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

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

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

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

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

Signature of Contracto	r
Name (please/type)	MARK WARNER
Signature	Mu
Date 8-1-95	
Signature of Site Owner	r or Operator
Name (please type)	Caltrans - Ray Pang
Signature Ran	Plung
Date 8-1-95	<i></i>

HEALTH AND SAFETY PLAN

ADDENDUM A

Underground Storage Tank Removal

CONTRACT NUMBER: 04-192204
CYPRESS FREEWAY RE-ALIGNMENT, CONTRACT A
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION
OAKLAND, CALIFORNIA

PERFORMANCE EXCAVATORS, INC.
3060 KEFNER BOULEVARD, SUITE A
SAN RAFAEL, CALIFORNIA 94901
(415) 457-8506

ing kingga <mark>Baratan panggalah at at ing Binangga Baratan panggalah at at ing</mark>

Zazinia kisaka Indolo.

Andrike Kara

Table of Contents

1.0 INTRODUCTION	**********
1.1 DESCRIPTION OF SITE	
1.1.1 Container Freight Property	
1.1.2 J&A Truck Repair Property	
1.2 SITE CONDITIONS	
1.2.1 Container Freight	
1.2.2 J&A Truck Repair	
1.3 KISK ASSESSMENT	
1.4 PATHWAYS FOR HAZARDOUS SUBSTANCE DISPERSION	
1.5 HEALTH AND SAFETY PLAN AVAILABILITY	
2.0 ORGANIZATIONAL STRUCTURE	
2.1 CERTIFIED SUPERVISOR	4
2.2 SITE SAFETY OFFICER	4
2.3 QUALIFIED PERSON	
2.4 MISCELLANEOUS PERSONNEL	4
2.5 EMPLOYEE SAFETY RESPONSIBILITY	4
2.6 LOGS, REPORTS, AND RECORDKEEPING	
3.0 Work Activities	
4.0 PERSONNEL TRAINING REQUIREMENTS	
4.1 HAZARDOUS WASTE SITE TRAINING	
5.0 MEDICAL SURVEILLANCE PROGRAM	,
5.1 FREQUENCY OF MEDICAL EXAMINATIONS AND CONSULTATIONS	
5.2 CONTENT OF MEDICAL EXAMINATIONS OR CONSULTATIONS	
5.3 Examination by a Physician and Costs	
5.4 INFORMATION PROVIDED TO THE PHYSICIAN	
5.5 PHYSICIAN'S WRITTEN OPINION	
5.6 MEDICAL SURVEILLANCE RECORDKEEPING	
6.0 SITE SAFETY MEETINGS	10
6.1 DOCUMENTATION OF SITE SAFETY MEETINGS	10
7.0 SITE CHARACTERIZATION AND HAZARD EVALUATION	10
7.1 Preliminary Evaluation and Hazard Identification	.1
7.2 CHEMICAL HAZARDS	
7.3 PHYSICAL HAZARDS	

7.3.1 Fire and Explosion Hazards	1:
7.3.2 Tripping, Slipping, and Falling Hazards	. 12
7.3.3 Head, Eye, and Back Injuries	12
7.3.4 Falling Objects	13
7.3.5 Heavy Equipment and Traffic	13
7.3.6 Electrical Hazards	
7.3.7 Noise	14
7.4 SITE TOPOGRAPHY AND ACCESSIBILITY BY AIR AND ROADS	
8.0 SITE CONTROL PROGRAM	14
8.1 SITE WORK ZONES	14
8.1.1 Exclusion Zone	15
8.1.2 Contamination Reduction Zone	15
8.1.3 Support Zone	7.5
8.2 ACCESS CONTROLS DURING REMOVAL OPERATIONS	15
8.3 BUDDY SYSTEM	16
9.0 PERSONAL PROTECTIVE EQUIPMENT	16
9.1 PPE SELECTION AND ACTION LEVELS	1 <i>6</i>
9.2 PPE LIMITATIONS	17
9.3 PPE WORK MISSION DURATION	18
9.4 PPE MAINTENANCE AND STORAGE	18
9.5 PPE TRAINING AND PROPER FITTING.	18
9.6 PPE DONNING AND DOFFING PROCEDURES	18
9.7 PPE INSPECTION PROCEDURES	18
9.8 EVALUATION OF THE EFFECTIVENESS OF THE PPE PROGRAM	
10.0 RESPIRATORY PROTECTION PROGRAM	19
10.1 RESPIRATOR CARTRIDGES	
10.2 CARTRIDGE CHANGES	19
10.3 RESPIRATOR INSPECTION, CLEANING AND STORAGE	19
10.4 RESPIRATOR USE WITH FACIAL HAIR	19
10.5 RESPIRATOR USE WITH CORRECTIVE LENSES	
10.6 RESPIRATOR USE WITH CONTACT LENSES	
10.7 MEDICAL CERTIFICATION FOR RESPIRATOR USE	
10.8 RESPIRATOR LIMITATIONS	
11.0 MONITORING	
11.1 EMPLOYEE AIR MONITORING	20
11.2 TYPES OF MONITORING EQUIPMENT, LOCATIONS, AND FREQUENCIES	21
11.3 TRAINING REQUIREMENTS OF MONITORING PERSONNEL.	
11.4 DOCUMENTATION OF MONITORING	
12.0 INFORMATIONAL PROGRAMS	21
13.0 MATERIAL HANDLING	22

13.1 DRUMS AND CONTAINERS	22
14.0 DECONTAMINATION PROCEDURES	
14.1 PERSONNEL DECONTAMINATION PROCEDURES	
14.2 EQUIPMENT DECONTAMINATION PROCEDURES	23
14.3 LOCATION AND LAYOUT OF DECONTAMINATION FACILITIES	24
14.4 EMPLOYEE WASH FACILITIES	24
14.5 STORAGE AND DISPOSAL OF DECONTAMINATION WATER	25 2F
15.0 EMERGENCY RESPONSE PLAN	
15.1 EMERGENCY PROCEDURES	
15.2 SITE COMMUNICATIONS AND ALERTING MEANS FOR EMERGENCIES	⊅: ⊃⊑
15.3 PLACES OF REFUGE	20
15.4 IDENTIFICATION OF NEAREST MEDICAL ASSISTANCE	26
15.5 STATUS AND CAPABILITIES OF EMERGENCY RESPONSE PROVIDERS	20 26
15.6 Pre-emergency Planning	76
15.7 Personnel Roles, Lines of Authority, and Communication	2 <i>6</i>
15.8 EMERGENCY RECOGNITION AND PREVENTION	27
15.9 SITE SECURITY AND CONTROL	27
15.10 DECONTAMINATION OF INJURED WORKERS	27
15.11 ACCIDENT REPORTING AND FOLLOW-UP	27
16.0 SPILL CONTAINMENT	27
17.0 SANITATION AT TEMPORARY WORKPLACES	28
17.1 POTABLE WATER	28
17.2 Non Potable Water	28
17.3 TOILET FACILITIES	28
18.0 SITE ILLUMINATION	
19.0 CONFINED SPACE ENTRY	29
19.1 DEFINITIONS OF CONFINED SPACES	20
19.2 PERMIT-REQUIRED CONFINED SPACES	30
19.2.1 Permit System	30
19.4 ENTRY SUPERVISOR	30
19.5 RESCUE SERVICES	30
19.6 LOCKOUT/TAGOUT PROCEDURES	30
19.7 ATMOSPHERIC TESTING OF CONFINED SPACES	31
19.7.1 List of Equipment	31
19.7.2 Testing for Explosive Atmosphere	31
19.7.3 LEL Monitor Preparation	31
19.7.4 LEL Monitor Operation	31
19.7.5 Testing for Oxygen Deficiency	32
19.7.6 Testing for Toxic Airborne Contaminants	32

Health and Safety Plan Addendum A - UST Removal Contract Num Department of Transportation Cypress Freewa	
19.8 VENTILATION	32
19.9 EXTRACTION AND RESCUE EQUIPMENT	·····32
20.0 HOT WORK PERMITS	
21.0 SITE EXCAVATIONS	33
22.0 SAFETY INSPECTIONS	
Figures	
Figure 1 - Personnel Decontamination Layout	24
Figure 2 - Equipment Decontamination Layout	24
Tables	
Table 1 - Airborne Dust Concentrations at Which PEL Could Be Excee	ded3
Table 2 - Summary of Chemical Contaminants	11
Table 3 - Initial Level C PPE Requirements	16
Table 4 - Level D PPE Requirements	17
Table 5 - Employee Monitoring Requirements	21
Table 6 - Perimeter Monitoring Requirements	21
Table 7 - Minimum Illumination Intensities in Foot-Candles	20

1.0 Introduction

This Tank Removal Plan was developed for Performance Excavators, Inc. by Rothwell Consulting Group (RCG). This plan pertains to site remediation operations performed for the prime contractor, MCM Construction, Inc., by Performance Excavators in contaminated areas of the Cypress Freeway Re-alignment Project, Section B, located in the City of Oakland, County of Alameda.

This Plan establishes the policies and procedures that protect the workers and the general public from potential health and safety hazards posed at this site. All contaminated soil removal activities will be conducted in a manner that minimizes the probability of injury, illness, property damage, or damage to the environment and will be performed in accordance with Performance Excavators' Injury and Illness Prevention Program. This Plan is prepared in accordance with and in reference to the following regulations and guidelines:

- United States Department of Labor, OSHA standards, specifically:
 - Title 29 CFR Part 1910.120 Hazardous Waste Site Operations and Emergency.
 - Title 29 CFR Part 1926 Health and Safety Regulations for Construction
- · California Occupational Health and Safety Regulations, specifically:
 - Title 8 CCR §5192 Hazardous Waste Site Operations and Emergency Response
 - Title 8 CCR §5094 Hazard Communication
 - Title 8 CCR §5095-5100 Hearing Conservation
 - Title 8 CCR Chapter 4, Subchapter 4 Construction Safety Orders
 - Title 8 CCR §3203 Injury and Illness Prevention Program
- United States Environmental Protection Agency's Standard Operating Safety Guides, July 1988.
- NIOSH/OSHA/USCG/EPA Occupational Health and Safety Guidance Manual for Hazardous Waste Activities, October 1985.
- Performance Excavators' Injury and Illness Prevention Program

Since site conditions are subject to change and unforeseen conditions may arise, amendments or additions may need to be made to this Plan during the course of work. Modifications to this plan can only be made by the Contractor with the assistance of Performance Excavators' Certified Industrial Hygienist.

1.1 Description of Site

Container Freight and J&A Trucking comprise two of the four contaminated areas requiring remediation. Both are located within close proximity to each other on Union Street, 5th Street, and Kirkham Street, respectively, in Oakland, California.



1.1.1 Container Freight Property

There is an abandoned 2000 gallon underground diesel tank on the property located at door No. 12 in front of the building. The tank has dimensions 4 feet in diameter by 9 feet long. The bottom of the tank is 8 feet below ground surface. The site could be contaminated from potential leaks or spills from tank use.

1.1.2 J&A Truck Repair Property

There is a 2000 gallon underground storage tank with dimensions 4 feet in diameter by 9 feet long. The bottom of the tank is 8 feet below ground surface. The site could be contaminated from potential leaks or spills from tank use.

1.2 Site Conditions

1.2.1 Container Freight

Soil

Concentrations of TPH-D were not detected in soil borings at the site; thus, the RWQCB would not classify materials as a hazardous waste (greater than 1,000 mg/kg). However, benzene was found in the area of contamination (at 360 ppm.) High concentrations of petroleum hydrocarbons could be found during tank removal activities.

Groundwater

TPH-D was not detected above laboratory limits in groundwater at Container Freight sampling location CTF/H-1.

1.2.2 J&A Truck Repair

Soil

An elevated concentration of lead was detected in the soil sample JA/A-1 at 1 foot. The measured lead value was in excess of ten times the STLC of 5.0 mg/L. Upon resubmittal for testing by the WET method, sample JA/A-1 at 1 foot was found to contain lead less than the STLC. No metals were found in excess of the TTLC. Petroleum hydrocarbons were also found at the site. High concentrations of petroleum hydrocarbons could be found during tank removal activities.

Risk Assessment

Contaminants found during the site investigation pose a potential health threat to employees working on the site during remedial activities. Theoretical airborne concentrations of total dust required to generate levels of aerosols exceeding their respective permissible exposure limits (and action levels) are shown below in Table 1.

Table 1 - Airborne Dust Concentrations at Which Permissible Exposure Limits Could Be Exceeded

Based on the type of operations, hazardous levels of airborne petroleum hydrocarbon vapors are possible during the course of work. However, theoretical airborne concentrations of petroleum hydrocarbons are difficult to calculate due to variables such as temperature, humidity, wind speed and direction, and employees' proximity to the contamination. Because of these variables, air monitoring will be performed in areas where petroleum contamination have been identified or is suspected. Proper personal protective equipment shall be worn during tank removal operations.

1.4 Pathways for Hazardous Substance Dispersion

Hazardous substances may have been and could possibly be dispersed from the source by air or groundwater. Further dispersion by air shall be controlled using dust control measures, work zones, and perimeter fencing.

1.5 Health and Safety Plan Availability

This written Health and Safety Plan shall be made available to any contractor or subcontractor or their representative who will be involved with the hazardous waste operation; to employees; to employee designated representatives; to Division representatives, and to personnel of other federal, state, or local agencies with regulatory authority over the site.

2.0 Organizational Structure

The organizational structure part of this Health and Safety Plan establishes the specific chain of command and specifies the overall responsibilities of supervisors and employees. The organizational structure shall be reviewed and updated as necessary to reflect the current status of site operations. The following are the key supervisory personnel:

2.1 Certified Supervisor

certified supervisor for hazar responsibility and authority to d materials.	is named as the general supervisor (or dous substance removal work). He has the direct all operations involving hazardous waste and
2.2 - Site Safety Officer	
has the responsibility and author	is named as the Site Safety Officer. He rity to develop and implement the site health and
safety plan and verify compliance	e . √

2.3 Qualified Person

has the responsibility and authority to implement the site health and safety plan and verify compliance. He is also responsible for operations defined as hazardous substance removal work. He is responsible for scheduling and overseeing any air sampling, calibration of sampling equipment, and for evaluation of soil or other contaminated materials sampling results.

2.4 Miscellaneous Personnel

All other personnel needed for hazardous waste site operations and emergency response and their general functions and responsibilities shall be determined and named on as as-needed basis. These personnel shall be briefed on the special hazards of the site and shall sign the signature page of this plan.

2.5 Employee Safety Responsibility

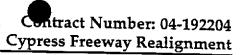
Although the employer is responsible for providing a safe and healthful workplace, each employee is responsible for his/her own safety, as well as the safety of those around him/her. The employee shall use all equipment in a safe and responsible manner, and as directed by supervisory personnel.

2.6 Logs, Reports, and Recordkeeping

Recordkeeping is a crucial component of any effective health and safety program. Site safety records shall therefore be updated daily. The following logs, reports, and records shall be maintained on site:

- Site safety meetings
- Employee training records site specific and visitors
- Daily safety inspection logs

Health and Safety Plax Addendum A - UST Removal Contract Number: 04-192204 Department of Transportation



- Weekly safety reports
- Health and safety plan signature page
- Employee and visitor sign-in sheets
- Ambient and personal air monitoring results
- OSHA 200 log

3.0 Work Activities

The work will involve the following:

- · Preparing the site for tank removal operations including placement of fencing, signs, and work zones;
- Securing the necessary permits and notifying the required regulatory agencies;
- Pumping the underground storage tanks of any remaining liquids;
- · Testing the interior of the tanks for explosive potential and inerting with dry ice, if necessary;
- Excavating of soils from around and above the tanks;
- Field screening of excavated soils using a PID;
- Hauling and placement of the excavated soils at the staging area;
- Sampling and laboratory analysis of the staged soils to classify for re-use or disposal; and
- Performing confirmation sampling of the excavation.

4.0 Personnel Training Requirements

All employees working on site during the removal of underground storage tanks and the associated contaminated soils who may be exposed to hazardous substances, health hazards, or safety hazards, and their supervisors and management responsible for the site shall receive training meeting the requirements of this section before they are permitted to engage in hazardous waste operations that could expose them to hazardous substances, safety, or health hazards. They shall also receive annual refresher training as specified in this section. Employees shall not be permitted to participate in or supervise field activities until they have been trained to a level required by their job function and responsibility.

4.1 Hazardous Waste Site Training

For all hazardous waste operations taking place in exclusion zones during hazardous substance removal, personnel working at or visiting the site shall have received the following training in accordance with Title 8 CCR 5192.

General site workers (such as equipment operators, general laborers, and supervisory personnel) engaged in hazardous substance removal or other activities which expose or potentially expose workers to hazardous substances and health hazards shall receive a minimum of 40 hours of instruction off the site, and a minimum of three days actual field experience under the direct supervision of a trained and experienced supervisor.

Workers on site only occasionally for a specific limited task (such as, but not limited to, groundwater monitoring, land surveying, or geophysical surveying) and who are unlikely to be exposed over Permissible Exposure Limits and published exposure levels shall receive a minimum of 24 hours of instruction off the site, and the minimum of one day actual field experience under the direct supervision of a trained, experienced supervisor.

On-site management and supervisors directly responsible for, or who supervise employees engaged in, hazardous waste operations shall receive 40 hours initial training, and three days of supervised field experience and at least eight additional hours of specialized hazardous waste operations management training at the time of job assignment on such topics as, but not limited to, the employer's health and safety program and the associated employee training program, personal protective equipment program, spill containment program, and health hazard monitoring procedure and techniques.

4.1.1 Hazardous Waste Site Training Elements

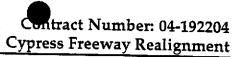
The hazardous waste site training shall thoroughly cover the following:

- Names of personnel and alternates responsible for site health and safety
- · Engineering controls and work practices by which the employee can minimize risks for hazards
- Medical surveillance requirements, including recognition of symptoms and signs which might indicate overexposure to hazards

• The biological, chemical, radiological and physical hazards present on the site and their respective properties

- The potential routes of exposure to chemicals, the possible toxic effects, the IDLH and Permissible Exposure Limit values of chemical hazards, and the level of personal exposure which can be anticipated, acute and chronic effects of toxic
- Heat and/or cold stress prevention, treatment, and monitoring
- · Personal cleanliness and restrictions on eating, drinking, and smoking on the job
- The availability of on-site potable water and toilet facilities
- Applicable provisions of the OSHA standards and the Injury and Illness Prevention Program
- Permit-required confined space entry procedures
- Spill containment program
- The functions, capabilities, limitations, use, and maintenance of monitoring equipment
- The use, care, and disposal of the specific PPE selected for this work. The PPE shall be available for hands-on familiarity and practice donning, as needed.

Health and Safety Plak Addendum A - UST Removal Contract Number: 04-192204 Department of Transportation



- Handling of medical emergencies including the locations of telephones and numbers for ambulance service, and hospital locations.
- The decontamination procedures
- The emergency contingency procedures
- The fire and accident response procedures
- Basic operational safety, emphasizing the hazards expected on the site
- Employee rights and responsibilities under OSHA
- Site-specific, task-specific activity hazard analysis.

4.2 Qualifications for Trainers

Trainers shall be qualified to instruct employees about the subject matter that is being presented in training. Such trainers shall have satisfactorily completed a training program for teaching the subjects they are expected to teach, or they shall have the academic credentials and instructional experience necessary for teaching the subjects. Instructors shall demonstrate competent instructional skills and knowledge of the applicable subject matter.

4.3 Training Certification

Employees and supervisors that have received and successfully completed the training and field experience shall be certified by their instructor or the head instructor and trained supervisor as having successfully completed the necessary training. A written certificate shall be given to each person so certified. Any person who has not been so certified or who does not meet these training requirements shall be prohibited from engaging in operations where exposures to hazardous substances are possible.

4.4 Refresher Training

Employees, managers and supervisors specified in section 4.1 shall receive eight hours of refresher training annually on the items specified in subsection 4.1.1, any critique of incidents that have occurred in the past year that can serve as training examples of related work, and other relevant topics.

Medical Surveillance Program

The medical surveillance program shall be instituted for the following employees:

- Any employee who is or may be exposed to hazardous substances or health hazards at or above the Permissible Exposure Limits or, if there is no Permissible Exposure Limit above the published exposure levels for these substances, without regard to the use of respirators, for 30 days or more a year.
- Any employee who wears a respirator during any part of a day for a period of 30 days or more in a year, or as required by 8 CCR 5144.

 Employees exhibiting symptoms due to possible overexposure involving hazardous substances or health hazards from an emergency response or hazardous waste operation.

5.1 Frequency of Medical Examinations and Consultations

Medical examinations and consultations shall also be made available by the employer to each employee covered under Section 5.0 on the following schedules:

Prior to assignment.

- · At least once every twelve months for each employee covered, unless the attending physician believes a longer interval (not greater than biennially) is appropriate.
- · At termination of employment or reassignment to an area where the employee would not be covered if the employee has not had an examination within the
- · As soon as possible, upon notification by an employee either that the employee has developed signs or symptoms indicating possible overexposure to hazardous substances or health hazards or that the employee has been injured or exposed above the Permissible Exposure Limits or published exposure levels in an emergency situation.
- At more frequent times, if the examining physician determines that an increased frequency of examination is medically necessary.

For employees who may have been injured, received a health impairment, developed signs or symptoms which may have resulted from exposure to hazardous substances resulting from an emergency incident, or who have been exposed during an emergency incident to hazardous substances at concentrations above the Permissible Exposure Limits or the published exposure levels without the necessary personal protective equipment being used shall undergo a medical examination:

- As soon as possible following the emergency incident or development of signs or symptoms;
- At additional times, if the examining physician determines that follow-up examinations or consultations are medically necessary.

5.2 Content of Medical Examinations or Consultations

The content of initial medical examinations shall contain, at a minimum, the following:

1. Complete medical and occupational history;

- 2. General physical examination including an evaluation of all major organ systems;
- 3. Pulmonary function testing including FVC and FEV₁;

- Urinalysis for heavy metals;
- 5. Serum lead; and
- Serum ZPP.

Examination by a Physician and Costs

All medical examinations and procedures shall be performed by or under the supervision of a licensed physician certified in occupational medicine by the American Board of Preventative Medicine, and shall be provided without cost to the employee, without loss of pay, and at a reasonable time and place.

5.4 Information Provided to the Physician

The employer shall provide one copy of this standard and its appendices to the attending physician, and in addition, the following for each employee:

- A description of each employee's duties as they relate to the employee's exposures.
- Each employee's exposure levels or anticipated exposure levels.
- A description of any PPE used or to be used by each employee.
- Information from previous medical examinations of each employee which is not readily available to the examining physician.
- Information required by 8 CCR 5144 for each employee.

5.5 Physician's Written Opinion

The written opinion obtained by the employer shall not reveal specific findings or diagnoses unrelated to occupational exposures. The physician shall provide the results of the medical examination and tests to the employee if requested. The employer shall obtain and furnish the employee with a copy of a written opinion from the examining physician containing the following:

- The physician's opinion as to whether the employee has any detected medical conditions which would place the employee at increased risk of material impairment of the employee's health from work in hazardous waste operations or emergency response, or from respirator use.
- The physician's recommended limitations upon the employee's assigned work.
- A statement that the employee has been informed by the physician of the results of the medical examination and any medical conditions which require further examination or treatment.

5.6 Medical Surveillance Recordkeeping

An accurate record of the medical surveillance shall be retained. This record shall be retained for the period specified and meet the criteria of 8 CCR 3204. The record shall include at least the following information:

The name and social security number of the employee.

- · Physician's written opinions, recommended limitations, and results of examinations and tests.
- Any employee medical complaints related to exposure to hazardous substances.
- · A copy of the information provided to the examining physician by the employer, with the exception of the standard and its appendices.

6.0 Site Safety Meetings

Tailgate safety meetings shall be held prior to the start of work and weekly thereafter. Topics to be discussed shall include health and safety hazards associated with the day's activities and any safety-related issues from the previous week's work.

Pre-entry briefings shall be held prior to initiating any site activity in contaminated areas, and at such other times as necessary to ensure that employees are apprised of the site health and safety plan and that this plan is being followed. For operations defined as hazardous substance removal work, a pre-job health and safety conference shall be held before the start of actual work. The conference shall include representatives of the owner or contracting agency, the contractor, the employer, employees, and employee representatives; and shall include a discussion of the employer's health and safety program and the means, methods, devices, processes, practices, conditions, or operations which the employer intends to use in providing a safe and healthy place of employment.

Visitors who are find it necessary to enter the Exclusion Zone or the Contamination Reduction Zone must receive a short orientation covering the relevant safety information contained in this plan.

6.1 Documentation of Site Safety Meetings

A detailed record of each safety meeting and health and safety conference shall be made on the Safety Meeting Form in Appendix G of the original Health and Safety Plan. Visitor training shall also be recorded on this form.

7.0 Site Characterization and Hazard Evaluation

The site has been previously characterized to identify any environmental contaminant and evaluate their human health risks. This information has been evaluated by Rothwell Consulting Group to determine the appropriate health and safety control procedures needed to protect employees from the identified hazards during tank removal activities.

7.1 Preliminary Evaluation and Hazard Identification

A preliminary evaluation of a site's characteristics has been performed by a Certified Industrial Hygienist to aid in the selection of appropriate employee protection methods prior to site entry. After the start of work, a more detailed evaluation of the site's specific characteristics shall be performed by the qualified person, under the direct supervision of a Certified Industrial Hygienist, to further identify existing site hazards and to further aid in the selection of the appropriate engineering controls and personal protective equipment for the tasks to be performed. All suspected conditions that may pose inhalation or skin absorption hazards that are immediately dangerous to life or health (IDLH) or other conditions that may cause death or serious harm have been identified during the preliminary site investigation and evaluated during the contamination investigation.

7.2 Chemical Hazards

The chemical listed in Table 2 may be encountered during tank removal operations.

Compound	Cal/OSHA Permissible Exposure Limit	Route of Exposure ^{tr}	
Petroleum hydrocarbons (as diesel)	None established	Inhalation Absorption	Several types of petroleum hydrocarbons exist. All have a characteristic petroleum odor and may produce acute narcosis at high levels and can cause defatting dermatitis.

Table 2 - Summary of Chemical Contaminants

- + Permissible Exposure Limit = Permissible Exposure Limit as an 8-hour time-weighted average.
 - STEL = Short-Term Exposure Limit as a 15-minute time-weighted average.
 - C = Ceiling Limit which shall never be exceeded at any time.
- the This indicates the most likely route of occupational exposure. While ingestion can be a route of exposure in nearly every instance, it is unlikely in the occupational setting when using effective decontamination procedures and good work practices.

7.3 Physical Hazards

Performance Excavators has developed standard operating procedures to minimize physical hazards. All personnel, contractors, and subcontractors shall become familiar with the field activities. Hard hats and safety shoes are required in all areas of the site. The following are physical hazards which may be present at the site:

7.3.1 Fire and Explosion Hazards

Tank pulling operations pose the risks of fire and explosion. Excavations have a tendency to trap heavy petroleum vapors and allow combustible vapors to All excavations in petroleum contaminated areas shall be tested frequently using a combustible gas indicator that reads in percent of the lower explosive limit. Whenever combustible gas levels exceed 10% of the lower explosive limit, all personnel and equipment shall move upwind away from the excavation until vapor concentrations have dissipated to a safe level.

All tanks shall be tested using a combustible gas indicator prior to extraction. If combustible gas levels exceed 10% of the lower explosive limit within the tank, the tank shall be inerted with dry ice until vapor concentrations within the tank have dissipated to a safe level.

7.3.2 Tripping, Slipping, and Falling Hazards

Personnel will be reminded daily to maintain sure footing on all surfaces. Use of safety harnesses will be required for any personnel working six or more feet above any surface, including on manlifts. Use of hand rails when climbing stairs will be enforced, and handrails will remain secure until the support structure itself is removed and lowered to ground level.

Work surfaces of unknown or suspect integrity will be strengthened or overlain with a work platform capable of supporting all personnel and equipment in use in that area.

In order to minimize tripping hazards caused by construction debris, material will be removed daily from the work areas and stockpiled in appropriate designated storage areas. This "house cleaning" effort will be enforced by the Site Safety Officer at the end of each day.

7.3.3 Head, Eye, and Back Injuries

As minimum requirements, hard hats will be donned prior to performing any site activities. This will prevent minor injuries caused by bumping one's head while working around and under construction equipment. Personnel will be trained in and required to use proper lifting techniques when lifting heavy objects.

7.3.4 Falling Objects

7

All tasks can be accomplished without any object free-falling to the ground. All equipment and material will be slowly lowered to the ground using a crane or skip bucket. No personnel shall work under this equipment at any time. Also, the Site Safety Officer will ensure that an adequate area is clear of personnel while the equipment is in operation.

7.3.5 Heavy Equipment and Traffic

The use of heavy equipment on site presents the greatest potential for injury to personnel. In order to minimize these hazards, designated routes will be established for mobilization through the facility and specific traffic patterns will be established. All trucks will use spotters for backing procedures. All personnel working along roadsides are required to wear orange safety vests.

Personnel needing to approach heavy equipment during operation will observe the following protocols:

- Make eye contact with the operator.
- 2. Signal the operator to cease heavy equipment activity.
- 3. Approach the equipment and inform the operator of intentions.

Only qualified personnel, as determined by the Site Superintendent, will operate heavy equipment. Those crew members directly involved with spotting for the operator will be the only personnel allowed within the operating radius of the heavy equipment. All other personnel will remain a safe distance away from these operations. Vehicles will yield to all bikes, pedestrians, and railroad crossings.

Equipment that is in safe working order will only be used. To maintain this policy, all equipment brought onto the project site will be inspected for structural integrity, smooth operational performance, and proper functioning of all critical safety devices in accordance with the manufacturer's specifications. This inspection will be performed by a qualified equipment operator and Site Safety Officer. Equipment not conforming to the operational and safety requirements during this inspection will not be put into service until all necessary repairs are made to the satisfaction of the inspection group. Only qualified operators familiar with the equipment will be permitted to operate equipment.

7.3.6 Electrical Hazards

In order to prevent accidents caused by electric shock, the Site Safety Officer will inspect all electrical connections on a daily basis. He will shut down and lock out any equipment which is found to have frayed wiring or loose connections until a qualified electrician can be contacted and repairs effected. Electrical equipment will be de-energized and tested by an electrician before any electrical work is done. All equipment will be properly grounded prior to and during all work. Underground Service Alert will be notified at least two (2) working days prior to excavation in any area.

In addition, ground fault circuit interrupters (GFCIs) will be installed whenever possible in each circuit between the power source and tool, unless the presence of a potentially explosive atmosphere precludes this procedure. In the event that generators are used to supply power, these generators will be equipped with GFCIs.

7.3.7 Noise

When noise levels may exceed a time weighted average (TWA) of 85 dBA (decibels, A-weighted scale), hearing protection will be required by all exposed employees. Additionally, sound level monitoring will be conducted on-site. All Performance Excavators personnel undergo annual audiograms and will be restricted from high noise exposure should a standard threshold shift be detected. The Hearing Conservation Program is in compliance with both the California and Federal Hearing Conservation Standards.

7.4 Site Topography and Accessibility by Air and Roads

The sites are located in an urban, semi-industrial areas. Topography consists of flat terrain covered with concrete, asphalt, and some vegetation. The sites are readily accessible by adjacent city streets.

8.0 Site Control Program

Appropriate site control procedures shall be implemented to control employee exposure to hazardous substances before clean-up work begins and during removal operations. The site control program may be modified as necessary as new information becomes available.

8.1 Site Work Zones

To prevent migration of contamination caused by personnel or equipment, work areas and personal protective equipment are clearly specified prior to beginning operations. Designated work areas or zones shall be established and delineated, as suggested by the Occupational Health and Safety Guidance Manual for Hazardous Waste Site Activities. Each contaminated work area will be divided into three zones: an Exclusion Zone (EZ), a Contamination Reduction Zone (CRZ), and a Support Zone (SZ).

8.1.1 Exclusion Zone

The Exclusion Zone will consist of areas where inhalation, oral contact, or dermal contact with contaminants is considered to be possible. It is anticipated that the Exclusion Zone will encompass the immediate confines of the excavation area with a 10 foot buffer zone from the edge of the excavation to the Exclusion Zone boundary, if practical. The size and configuration of this area will vary with wind direction, type of operations being conducted, and perimeter air monitoring results. The Exclusion Zone boundary will be clearly and conspicuously marked using boundary tape or safety fencing and signs. The signs will specify that only trained and authorized personnel are allowed to enter. Authorization to be obtained from the foreman/site supervisor. A single entry and exit point will be established through the Contamination Reduction Zone. Entry shall be limited to essential personnel or pre-approved visitors.

8.1.2 Contamination Reduction Zone

The Contamination Reduction Zone will be established between the Exclusion Zone and support zone. In this area, personnel will begin the sequential decontamination process required to exit the exclusion zone. To prevent off-site migration of contamination and to facilitate personnel accountability, all personnel will enter and exit the exclusion zone through the Contamination Reduction Zone.

All waste materials generated in the Contamination Reduction Zone shall be collected and effectively contained through the use of drums, bags, plastic sheeting, and/or tanks. All waste materials shall be labeled as such and properly disposed of according to their hazard classifications.

8.1.3 Support Zone

The Support Zone will consist of a clearly marked area where the office, break areas, and changing facilities are located. Smoking, drinking, and eating will be allowed only in designated areas. Sanitation facilities (toilets, drinking and washing water) are provided in the Support Zone.

Access Controls During Removal Operations

Physical boundaries shall be established around each work zone using safety fencing and/or barricade tape during hazardous material removal operations as specified in Section 8.2. Supervisors shall instruct all workers and visitors on the limits of the restricted areas. No one shall be allowed to enter a restricted area without the required protective equipment for that area. The Site Safety Officer shall ensure compliance with all restricted area entry and exit procedures. A decontamination point shall be designated for personnel to exit from the contaminated area and enter into the clean area where they may rest and drink fluids. Visitors should check in immediately upon arrival. Only authorized visitors will be allowed access to the contaminated areas. Each visitor will be required to provide and wear the necessary protective equipment during visits and shall be escorted by supervisory personnel while on site. All visitors, subcontractors and other personnel will be required to sign a safety plan acknowledgment sheet to certify that they have read and will comply with the site Health and Safety Plan. Failure to comply with this site entry procedure will result in expulsion from the site.

Buddy System

The buddy system shall be used at all times at the site. Employees shall be organized into work groups in such a manner that each employee of the work group is designated to be observed by at least one other employee in the work group. The purpose of the buddy system is to provide quick assistance to employees in the event of an emergency.

Personal Protective Equipment

Personal protective equipment (PPE) has been selected which will protect employees from the hazards and potential hazards they are likely to encounter as identified during the site characterization and analysis. The level of protection provided by PPE selection shall be increased when additional information on site conditions shows that increased protection is necessary to reduce employee exposures below established Permissible Exposure Limits and published exposure levels for hazardous substances and health hazards.

PPE Selection and Action Levels

Initial PPE requirements shall be EPA Level D as outlined in Table 3 at all locations in the designated exclusion zones. If photoionization detector levels are seen exceeding 5 ppm in the breathing zones of employees, PPE shall be upgraded to the level shown in Table 4. Also, if a previously unidentified material is discovered during work operations, PPE shall be modified as necessary and at the determination of the Certified Industrial Hygienist.

Table 3 - Level D PPE Requirements

Location	Tasks	EPA Level	Equipment Required
Exclusion Zones	All tasks involving contact with contaminated materials.	D	 Hard hat Tyvek coveralls Rubber overboots Nitrile gloves Cotton inner gloves Orange safety vests

Contamination Reduction Zone	All tasks.	D	 Hard hat Tyvek coveralls Rubber overboots Nitrile gloves Cotton inner gloves Orange safety vests
Support Zone	All tasks.	D	Hard hatOrange safety vests

Table 4 - Level C PPE Requirements

Location	Tasks	EPA Level	Equipment Required
Exclusion Zones	All tasks.	C	 Half-mask air purifying respirator equipped with HEPA/organic vapor combination cartridges Hard hat Tyvek coveralls Rubber overboots Nitrile gloves Cotton inner gloves Orange safety vests
Contamination Reduction Zone	All tasks.	D	 Hard hat Tyvek coveralls Rubber overboots Nitrile gloves Cotton inner gloves Orange safety vests
Support Zone	All tasks.	D	Hard hat Orange safety vests

9.2 PPE Limitations

The PPE selected for use at the site provides limited protection against chemical Tyvek protective clothing must not be worn in areas where contaminants. splashing of hazardous liquids on the skin is possible. In addition, Tyvek clothing must not be worn by persons performing hot work such as welding, brazing, and metal cutting.

Half mask air-purifying respirators, as specified in the Table 3, must not be worn in an oxygen deficient atmosphere or where concentrations exceed the capabilities of the respirator cartridge. Also, respirator cartridges must conform to the chemical hazards present at the site. Always read the respirator cartridge prior to use to ensure that it is the correct type.

9.3 PPE Work Mission Duration

Disposable protective clothing is to be disposed of after each use. Disposable protective clothing must be replaced upon re-entry into the Exclusion Zone, or if the suit becomes damaged or saturated during use. Repairs to small rips may be made to protective clothing using duct tape.

9.4 PPE Maintenance and Storage

All PPE, including overboots and gloves, shall be maintained in good condition. Any PPE found to be torn, cut, punctures, or otherwise damaged shall be dispose of immediately. After use and decontamination, respirators shall be stored overnight in a closed container. The following day, the closed container shall be transported to the PPE donning area for reuse.

9.5 PPE Training and Proper Fitting

All personnel shall be thoroughly trained in the proper use and limitations of the equipment they are assigned to wear. Annual qualitative respirator fit tests are required of all personnel wearing negative pressure respirators. Qualitative fit tests will utilize isoamyl acetate or irritant smoke. Fit tests must incorporate the make and size of respirator to be used. Additionally, a positive and negative fit test shall be conducted each time a respirator is donned.

9.6 PPE Donning and Doffing Procedures

All PPE shall be donned prior to entering the Exclusion Zone. PPE shall be donned with the assistance of a "buddy" to verify that equipment is worn properly. All PPE shall be worn in accordance with the manufacturer's recommendations. At no time shall a person remove the designated PPE while in the designated work zones. Disposable PPE shall only be removed in the Contamination Reduction Zone upon exiting the Exclusion Zone. Personnel shall utilize seating (during decontamination and doffing procedures) to prevent tripping and falling.

9.7 PPE Inspection Procedures

PPE shall be inspected by employees prior to donning. Boots, gloves, and disposable clothing found to be defective shall not be worn and shall be disposed of. Defective respirators, safety glasses, and hard hats shall be reported to the Site Safety Officer.

9.8 Evaluation of the Effectiveness of the PPE Program

Periodic inspections and observations of personnel using PPE shall be made by the Site Safety Officer to ensure that the PPE Program elements are being followed.

10.0 Respiratory Protection Program

This respiratory protection program provides the minimum requirements for respiratory protection whenever Level C or higher levels of personal protection are required.

10.1 Respirator Cartridges

The crew members working in an EPA Level C ensemble shall wear half-mask air purifying respirators equipped with HEPA/organic vapor cartridges, depending on site conditions. HEPA/organic vapor cartridges hold approval for dust, mists, fumes, asbestos, and radionuclides, as well as organic vapors at concentrations less that 1,000 ppm.

10.2 Cartridge Changes

All cartridges will be changed a minimum of once daily. However, increased airborne concentrations and breathing rates may necessitate more frequent changes. Changes will occur when personnel begin to experience increased breathing resistance, notice any unusual odor inside the respirator, or experience excessive heat generation in the cartridges. All cartridge changes will take place in the CRZ after decontamination of the exterior part of the PPE ensemble.

10.3 Respirator Inspection, Cleaning and Storage

Respirators shall be maintained by the employee to whom they are assigned. respirators and associated equipment shall be inspected and cleaned, as necessary, prior to use. Respirators shall be decontaminated, cleaned, and disinfected by the user during each decontamination episode. Harsh detergents or solvents must not be used to clean respirators. Cleaned respirators must be thoroughly dried before Respirators will be checked periodically by the Site Safety Officer. Respirators shall be stored in a clean, dry container and out of direct sunlight. Respirators must also be stored in such a way that the facepiece is not misshapen.

10.4 Respirator Use with Facial Hair

No personnel with facial hair which interferes with the respirator's sealing surface shall be permitted to wear a respirator.

10.5 Respirator Use With Corrective Lenses

Full-face respirator use is not anticipated at the site. However, normal eyeglasses cannot be worn under full-face respirators because the temple bars interfere with the respirator's sealing surfaces. For workers requiring corrective lenses who also must

Health and Safety Plan-Addendum A - UST Removal Contract Number: 04-192204 Department of Transportation

Cypress Freeway Realignment

don full-face respiratory protection, special spectacles designed for use with respirators will be provided.

10.6 Respirator Use With Contact Lenses

Contact lenses shall not be worn with any type of respirator.

10.7 Medical Certification for Respirator Use

Only workers who have been certified by a physician as being physically capable of respirator usage will be issued a respirator.

10.8 Respirator Limitations

The respirators specified for this site have their limitations. Respiratory protection specified in Table 3 may not be worn in atmospheres immediately dangerous to life or health (IDLH), or in oxygen deficient atmospheres. They may not be worn in concentrations which exceed ten times the Permissible Exposure Limit of any airborne contaminant. HEPA/organic vapor cartridges may not be worn in organic vapor concentrations exceeding 1000 ppm.

11.0 Monitoring

Air monitoring shall be performed to quantify airborne levels of hazardous substances in order to determine the appropriate level of employee protection needed on site, and to evaluate engineering controls and work practices. Monitoring shall be performed continuously where airborne concentrations of hazardous substances are anticipated to be the highest, as determined by the Certified Industrial Hygienist. Perimeter monitoring shall also be conducted upwind and downwind of each tank removal.

11.1 Employee Air Monitoring

Tank removal excavations have a tendency to trap heavy petroleum vapors and allow combustible vapors to accumulate. Employee exposures shall be quantified using a PID held in the breathing zones. All excavations in petroleum contaminated areas shall be tested frequently using a combustible gas indicator that reads in percent of the lower explosive limit. Whenever combustible gas levels exceed 10% of the lower explosive limit, all personnel and equipment shall move upwind away from the excavation until vapor concentrations have dissipated to a safe level.

All tanks shall be tested using a combustible gas indicator prior to extraction. If combustible gas levels exceed 10% of the lower explosive limit within the tank, the tank shall be inerted with dry ice until vapor concentrations within the tank have dissipated to a safe level.

11.2 Types of Monitoring Equipment, Locations, and Frequencies

Table 5 - Employee Monitoring Requirements

Type	Frequency and Location	Calibration Schedule
Petroleum Hydrocarbons Photoionization detector.	Continuously in the EZs during excavation.	Once per day.

Table 6 - Work Area Monitoring Requirements

Туре-	Frequency and Location	Calibration Schedule
Flammable vapors LEL/Oxygen meter	Continuously in the work areas during excavation.	Once per day.
<u>Petroleum Hydrocarbons</u> Photoionization detector.	Continuously in the work areas during excavation.	Once per day.

11.3 Training Requirements of Monitoring Personnel

11.4 Documentation of Monitoring

Records of monitoring results shall be maintained at the site. Records shall include the date, time, contaminants or hazards monitored, person conducting monitoring, calibration date and method, operations and location of monitoring, and results. An air monitoring data sheet shall be completed for each sample.

12.0 Informational Programs

The contractor shall inform employees, contractors, and subcontractors (or their representatives) actually engaged in hazardous waste operations shall be informed of the nature, level, and degree of exposure likely as a result of participation in such hazardous waste operations. Any information concerning the chemical, physical, and toxicological properties of each substance known or expected to be present on site that is available to the employer and relevant to the duties an employee is expected to perform shall be made available to the affected employees prior to the commencement of their work activities.

The company's Injury and Illness Prevention and Hazard Communication Programs shall be available in the job trailer. Employees, contractors, and subcontractors shall also be informed and shall share information on chemical

hazards at the site, as required by the Hazard Communication standard. MSDS for all hazardous materials used on site shall be made readily available to site Employees, contractors, and subcontractors working outside of the operations part of a site shall only be notified of chemical hazards as required by the Hazard Communication standard.

13.0 Material Handling

Hazardous substances and contaminated soils, liquids, and other residues shall be handled, transported, labeled, and disposed of in accordance with this section.

13.1 Drums and Containers

If unlabeled drums and containers are encountered, they shall be considered to contain hazardous substances, work shall stop, and the Engineer shall be notified of the discovery.

Drums and containers used during the clean-up shall meet the appropriate U.S. Department of Transportation (DOT), OSHA, and EPA regulations for the wastes that they contain. When practical, drums and containers shall be inspected and their integrity shall be assured prior to being moved. Drums or containers that cannot be inspected before being moved because of storage conditions (i.e., buried beneath the earth, stacked behind other drums, stacked several tiers high in a pile, etc.) shall be moved to an accessible location and inspected prior to further handling.

Site operations shall be organized to minimize the amount of drum or container movement. Prior to movement of drums or containers, all employees exposed to the transfer operation shall be warned of the potential hazards associated with the contents of the drums or containers. Drums and containers that cannot be moved without rupture, leakage, or spillage shall be emptied into a sound container using a device classified for the material being transferred. Drums and containers under pressure, as evidenced by bulging or swelling, shall not be moved until such time as the cause for excess pressure is determined and appropriate containment procedures have been implemented to protect employees from explosive relief of the drum.

13.2 Shipping and Transport of Drums and Containers

Drums and containers shall be identified and classified prior to packaging for shipment. Drum or container staging areas shall be kept to the minimum number necessary to safely identify and classify materials and prepare them for transport. Staging areas shall be provided with adequate access and egress routes.

14.0 Decontamination Procedures

All employees leaving the exclusion zone shall be appropriately decontaminated; all contaminated clothing and equipment leaving a contaminated area shall be appropriately disposed of or decontaminated.

Decontamination procedures shall be monitored by the Site Safety Officer to determine their effectiveness. When such procedures are found to be ineffective, appropriate steps shall be taken to correct any deficiencies.

14.1 Personnel Decontamination Procedures

Upon exiting the Exclusion Zone, personnel shall remove all visible contamination from their PPE using soap, water, and brushes. Personnel shall use the following decontamination procedure:

Step 1: Hardhat removal

Step 2: Boot, glove, and coverall wash

Step 3: Boot, glove, and coverall rinse

Step 4: Tape removal

Step 5: Overboot removal

Step 6: Suit removal

Step 7: Outer glove removal

Step 8: Respirator removal (optional)

Step 9: Respirator cartridge removal (optional)

Step 10: Cotton inner glove removal

Step 11: Wash hands, face.

All disposable protective clothing shall be removed during decontamination and shall be disposed of in a lidded container lined with a labeled drum liner. All waste generated at the site shall be disposed of according to the hazard classification of the debris.

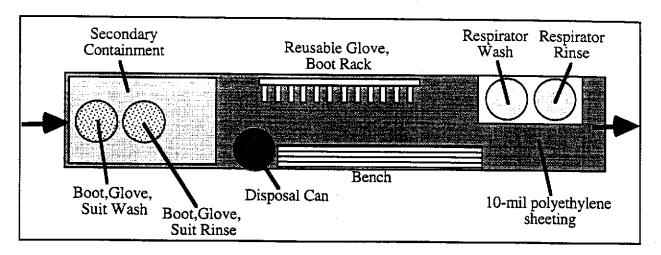


Figure 1 - Personnel Decontamination Layout

14.2 Equipment Decontamination Procedures

Upon exit from the Exclusion Zone, personnel shall drive equipment onto the decontamination pad in the Contamination Reduction Zone and remove all visible contamination from their equipment using soap, water, and brushes. The tracks and tires of equipment shall be scraped to remove the gross contamination before driving onto the decontamination pad. Water from the decontamination pad will be collected in a sump and transferred to a larger storage tank or pumped and properly disposed of when full.

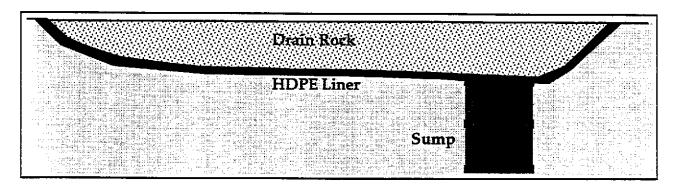


Figure 2 - Equipment Decontamination Layout

14.3 Location and Layout of Decontamination Facilities

Employee decontamination shall be performed at the southwest corners of each Exclusion Zone, adjacent to the Support Zone. This location will minimize the

exposure of uncontaminated employees, areas, and equipment to contaminated employees or equipment. The decontamination facility shall be arranged in such a way that personnel and equipment must exit the Exclusion Zone only through the CRZ. Equipment decontamination facilities shall be established at locations within the staging areas.

14.4 Employee Wash Facilities

After employee exit the Contamination Reduction Zone (where they have decontaminated and removed their PPE), they shall proceed to a wash facility to wash hands and face prior to eating, drinking, smoking, or leaving the site. Disposable towels shall be provided for drying.

14.5 Storage and Disposal of Decontamination Water

All water used for decontamination shall be contained and stored in storage tanks. All decontamination water shall be sampled for the contaminants of concern so that a proper disposal plan can be devised.

15.0 Emergency Response Plan

This emergency response plan explains how to handle anticipated emergencies prior to the commencement of hazardous waste operations.

15.1 Emergency Procedures

Employees may respond to low danger emergencies, such as administration of first aid, fighting small fires (with fire extinguishers), and clean-ups of small chemical spills (of less than 55 gallons or 500 pounds). All employees shall evacuate from the danger area when an emergency not listed above occurs, and shall not assist in handling the emergency.

Should outside medical or other emergency assistance be required, personnel shall notify the job trailer of the nature of the emergency and a call shall be to 9-1-1.

If the injury or illness appears to be minor, the affected person appears to be minor, the person may be driven to the emergency room of Brookside Hospital.

15.2 Site Communications and Alerting Means for Emergencies

Temporary radio and telephone communications are be established at the job trailer and at the site. Emergency alerts shall be made using two-way radios from the job trailer to the site, or vice versa. Personnel working on the site shall be alerted by air horns using the following alerts:

3 short blasts in sequence	Exit the work area
1 long blast	All clear

15.3 Places of Refuge

All personnel, when alerted during emergencies, shall exit the Exclusion Zone through the Contamination Reduction Zone and muster in the Support Zone. Personnel are to remain in the staging area and await further instructions.

15.4 Identification of Nearest Medical Assistance

Summit Medical Center 350 Hawthorne Avenue Oakland, CA 94609 (510) 655-4000

In an emergency, call 911

The Hospital Location Map and Emergency Telephone Numbers are found in Appendix C. They shall be posted at the site and at all phones in the main office trailer.

15.5 Status and Capabilities of Emergency Response Providers

Local emergency responders (fire department, medical providers and transporters) are on full time alert and have the capabilities to respond to any anticipated site emergency.

15.6 Pre-emergency Planning

The types of emergencies anticipated include personal injuries, fire, and small chemical spills. An OSHA-approved first aid kit shall be made available at the site. Also, two employees trained and currently certified in first aid and CPR shall be on site at all times. A charged and inspected fire extinguisher shall be available on each piece of equipment. Spill containment equipment will be made available if hazardous materials are stored on site.

15.7 Personnel Roles, Lines of Authority, and Communication

The Site Safety Officer shall act as the incident commander during an emergency response. He shall coordinate and direct emergency response procedures to all site personnel. An emergency shall be communicated to all persons on site by radio and/or verbal communications.

15.8 Emergency Recognition and Prevention

All site personnel shall be trained to recognize when an emergency situation has arisen and shall know how to notify the Site Safety Officer of the incident. Site personnel shall use safe work practices to minimize the potential for an incident. Regular safety meeting shall be held to identify and communicate problem areas at the site.

15.9 Site Security and Control

During an emergency situation, all personnel are responsible for assuring the public's safety and shall keep all bystanders and unauthorized personnel from entering the site. All no time shall personnel give statements regarding an emergency to persons not associated with emergency response or management.

15.10 Decontamination of Injured Workers

Due to the relatively low levels of contamination at the site, decontamination procedures for injured workers may be limited to removal of outer coveralls and boots so long as such action will not aggravate the injury. If the injury is minor, and does not require immediate medical attention, workers may decontaminate as usual.

15.11 Accident Reporting and Follow-Up

All incident scenes shall be preserved so that a thorough incident investigation may be performed. All causes of the incident shall be investigated and the findings presented to site personnel to prevent future incidents.

16.0 Spill Containment

It is not anticipated that large volumes of hazardous materials will be stored on site. However, if large volumes of hazardous or potentially-hazardous liquids are stored on site, adequate secondary containment shall be provided around the storage area. In addition, spill containment equipment (absorbent socks, clay, and shovels, and a salvage drum) shall be kept at the site to respond to small spills of hazardous liquids or solids. Should a spill occur, immediate steps to contain the spill must be taken. Such steps include shutting of valves, closing doors or vents, protecting sanitary sewers and surface waters, or shutting off pumps. At no time shall a spill be contained if such action presents a hazard. The Site Safety Officer must then be notified of the situation so that he may direct the clean-up.

17.0 Sanitation at Temporary Workplaces

17.1 Potable Water

An adequate supply of potable water shall be provided on the site. Portable containers used to dispense drinking water shall be capable of being tightly closed and equipped with a tap, and shall be otherwise designed, constructed, and serviced so that sanitary conditions are maintained. Water shall not be dipped from containers. Any container used to store, dispense, or distribute drinking water shall be clearly marked as to the nature of its contents and not used for any other purpose.

Where single service cups (to be used but once) are supplied, both a sanitary container for the unused cups and a receptacle for disposing of the used cups shall be provided.

17.2 Non Potable Water

Outlets for non potable water, such as water for equipment decontamination, dust control, or firefighting purposes, shall be identified to indicate clearly that the water is unsafe and is not to be used for drinking, washing, or cooking purposes. There shall be no cross-connection, open or potential, between a system furnishing potable water and a system furnishing non potable water.

17.3 Toilet Facilities

A minimum of one separate toilet facility shall be provided for each 20 employees or fraction thereof of each sex. Such facilities may include both toilets and urinals provided that the number of toilets shall not be less than one half of the minimum required number of facilities. EXCEPTION: Where there are less than 5 employees, separate toilet facilities for each sex are not required provided the toilet facilities can be locked from the inside and contain at least one toilet. Under temporary field conditions, provisions shall be made to assure that at least one toilet facility is available.

If the site is not provided with a sanitary sewer, it shall be provided with one of the following toilet facilities unless prohibited by local codes:

- Chemical toilets
- Recirculating toilets
- Combustion toilets
- Flush toilets

Doors entering toilet facilities shall be provided with entrance locks controlled from inside the facility. Toilet facilities shall be kept clean, maintained in good working order, and provided with an adequate supply of toilet paper.

Washing facilities shall be on site for washing of hands and face following decontamination procedures. Such facilities shall be in near proximity to the CRZ.

18.0 Site Illumination

Table 7 - Minimum Illumination Intensities in Foot-Candles

Foot Candles	Area or Operations		
5	General site areas.		
3	Excavation and waste areas, accessways, active storage areas, loading platforms, refueling, and field maintenance areas.		
5	Indoors: Warehouses, corridors, hallways, and exitways.		
5	Tunnels, shafts, and general underground work areas. (EXCEPTION: Minimum of 10 foot- candles is required at tunnel and shaft heading during drilling, mucking, and scaling. Mine Health and Safety Administration approved cap lights shall be acceptable for use in the tunnel heading.)		
10	General shops (e.g., mechanical and electrical equipment rooms, active storerooms, barracks or living quarters, locker or dwelling rooms, dining areas, and indoor toilets and workrooms.)		
30	First aid stations, infirmaries, and offices.		

19.0 Confined Space Entry

In any confined space, dangerous air contaminants cannot always be prevented from accumulating or be removed by natural ventilation. Whenever an employee works in this type of environment, the chance always exists that an oxygen-deficient, explosive, or toxic atmosphere may be present upon entry or develop while working or even as a result of work being performed in the space.

Since all confined spaces represent a potential hazard, special precautionary measures must be implemented to protect the workers. This program outlines the precautionary measures necessary for each entry into a confined space during hazardous material removal operations. With thorough training, quality equipment, clear thinking, and responsible actions, the employee who enters the confined space should exit alive and unharmed.

19.1 Definitions of Confined Spaces

A confined space as a space that is:

- Large enough and so configured that an employee can bodily enter and perform
- Has limited or restricted means of entry or exit
- Is not designed for human occupancy

19.2 Permit-required Confined Spaces

An area is considered a permit-required confined space if it presents or has the potential to contain hazards related to atmospheric conditions, engulfment, configuration or any other recognized serious hazard. If excavations or bridge interiors have any of these potential hazards, they shall be considered confined spaces.

The Site Safety Officer shall conduct evaluations of the workplace and determine if there are any permit-required confined spaces. He/she then shall inform workers through signs or other means and prevent unauthorized entry.

19.2.1 Permit System

The Site Safety Officer shall act as entry supervisor. The entry supervisor must authorize entry, prepare and sign written permits, order corrective measures and cancel permits when work is completed. A permit is found in Appendix E.

19.4 Entry Supervisor

The entry supervisor must know the hazards of confined spaces, verify that all tests have been conducted and procedures and equipment are in place. The entry supervisor shall terminate entry and cancel permits and verify that rescue service are available. He/she is also responsible for removing unauthorized workers who enter confined spaces and determine that acceptable conditions continue.

19.5 Rescue Services

The fire department shall be called whenever a confined space entry is performed. They shall be notified of the location and nature of the entry so that they can provide prompt assistance, if needed.

19.6 Lockout/Tagout Procedures

Any equipment (electrical or mechanical) that is capable of being reenergized remotely or dissipating potential energy must have all switches, valves, etc. capable of doing so physically disconnected or locked out prior to commencement of work.

The steps of a lockout/tagout procedure include:

- Inform the operator and all area personnel of work to be performed.
- Lockout device is attached, with tag, to switch, valve, or other actuator.
- All involved personnel attach separate locks to lockout device and pocket keys.
- · All locks and therefore lockout device remain in place until work is complete and all personnel are clear of hazard.

· Lockout device is removed and operator and area personnel are informed of work completion.

19.7 Atmospheric Testing of Confined Spaces

19.7.1 List of Equipment

- Photoionization detector equipped with a 10.6 eV lamp if a toxic environment is possible..
- Catalytic hot wire combustible gas indicator that reads in percent of the lower explosive limit and oxygen combination meter that reads in percent oxygen if flammability and/or oxygen deficiency are possible.
- Ten foot non-sparking pole
- Tygon tubing

19.7.2 Testing for Explosive Atmosphere

Explosivity should always be the first test due to the immediate danger of explosion whether or not personnel actually enter the space. A hot wire combustible gas indicator should be used.

Warning

- The catalytic hot wire LEL does not detect many hazardous gases.
- Leaded gasoline and chlorinated solvents can poison the meter very quickly 2. causing malfunction.
- The LEL does not detect explosive dust atmospheres.
- Nearby electrical equipment may cause erratic readings.

19.7.3 LEL Monitor Preparation

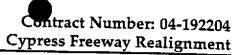
- The meter should be calibrated within 5 days of use.
- Start and check the meter according to manufacturer's instruction.
- Warm up and zero the meter in a clean area.
- Test the meter with a known positive source (such as an unlit butane lighter).
- Zero the meter at 5%. This allows the operator to see negative reactions which may indicate unexpected gases.

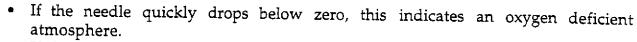
19.7.4 LEL Monitor Operation

It is best to provide a pole and a tube to collect the sample from a distance. The retention time for the tubing should be considered. Sample in an imaginary diamond very slowly.

If the needle goes to 100% and then drops to zero, the UEL has been exceeded.

Health and Safety Plan-Addendum A - UST Removal Contract Number: 04-192204 Department of Transportation





· If the needle deflects upscale and then comes back down to zero, this any be

caused by a gas that is heavier than air.

• If there is a constant upscale erratic deflection of the needle, there may be high levels of chlorinated solvents and some heavier inert gases.

- If more than 100% of the LEL, this is very dangerous and must be made explosive before it is safe to enter.
- If 100% of the LEL, it is immediately explosive and must be made ventilated before it is safe to enter.
- If more than 10% of the LEL, it is illegal to enter according to OSHA regulations and must be ventilated.
- If less than 10% of the LEL, it is legal to enter but may still be toxic.

19.7.5 Testing for Oxygen Deficiency

Monitoring for oxygen deficiency should be performed in the same manner as for explosivity.

- If oxygen concentration is less than 19.5%, it is oxygen deficient and illegal to enter according to OSHA regulations and must be ventilated.
- If oxygen concentration is more than 23.5%, it is oxygen enriched and illegal to enter according to OSHA regulations and must be ventilated.

19.7.6 Testing for Toxic Airborne Contaminants

If a toxic atmosphere is suspected, testing should be conducted for the contaminant(s) suspected and compared with their permissible exposure limits. Testing is most easily done using a photoionization detector.

19.8 Ventilation

Exhaust ventilation may be used to draw or push dense gases and vapors from bottom of space, allowing fresh air to replace them. The source of ventilating air must be uncontaminated. Consider destination of exhausted gases/vapors before beginning ventilation.

19.9 Extraction and Rescue Equipment

A rescue harness is to be worn at all times during entry into confined spaces with recognized hazards and limited and limited access or egress. A tripod shall be available for overhead rescue. Observer shall be in constant communication with entry personnel. The entry procedure shall be aborted at the first indication of difficulty.

20.0 Hot Work Permits

No hot work, including welding, torch cutting, and brazing shall take place without first acquiring a hot work permit from the Site Safety Officer. A copy of the hot work permit is in Appendix E.

21.0 Site Excavations

Site excavations created during initial site preparation or during hazardous waste operations shall be shored or sloped as appropriate to prevent accidental collapse in accordance with 8 CCR, Chapter 4, Subchapter 4, Article 6.

22.0 Safety Inspections

Inspections shall be conducted by the Site Safety Officer or, in the absence of that individual, another individual who is knowledgeable in occupational health and safety, acting on behalf of the employer as necessary to determine the effectiveness of the site health and safety plan. Any deficiencies in the effectiveness of the site health and safety plan shall be corrected by the employer. A record of the safety inspection are maintained in Appendix F.

1	acord, ceki	IFICAGE OF I	NSUHAN	JE ting	08/15/95
	oducer ltemann, Ord & Smi	+-b	CONFERS NO RIGH	TS UPON THE CE	NATTER OF INFORMATION ONLY AND RTIFICATE HOLDER. THIS CERTIFICATE ER THE COVERAGE AFFORDED BY THE
Р.	O. Box 4409			OMPANIES AI	FORDING COVERAGE
Pe	taluma CA 94955-44	09	COMPANY A Cali	fornia Co	mp & Fire
		_	LETTER		
INS	URED		COMPANY B		
Pe.	rformance		COMPANY C		
	cavators, Inc. 60 Kerner Blvd.	-	COMPANY		
	n Rafael CA 94901		LETTER D		
			COMPANY E		
CO	VERAGES		LETTER		
	THIS IS TO CERTIFY THAT THE POLIC INDICATED, NOTWITHSTANDING AN CERTIFICATE MAY BE ISSUED OR MA EXCLUSIONS AND CONDITIONS OF S	CIES OF INSURANCE LISTED BELO Y REQUIREMENT, TERM OR CONDI AY PERTAIN, THE INSURANCE AFFO BUCH POLICIES, LIMITS SHOWN M	W HAVE BEEN ISSUED TION OF ANY CONTRAC ORDED BY THE POLICIE AY HAVE BEEN PEDUCI	TO THE INSURED NA OT OR OTHER DOCUL OS DESCRIBED HERE ED BY PAID GLAIMS.	MED ABOVE FOR THE POLICY PERIOD MENT WITH RESPECT TO WHICH THIS IN IS SUBJECT TO ALL THE TERMS,
co	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE	POLICY EXPIRATION	LIMITS
TR	GENERAL LIABILITY		DATE (MM/DD/YY)	DATE (MM/DD/YY)	GENERAL AGGREGATE \$
	COMMERCIAL GENERAL LIABILITY				PRODUCTS-COMP/OP AGG. \$
	CLAIMS MADE OCCUR.				PERSONAL & ADV. INJURY \$
	OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE \$
					FIRE DAMAGE (Any one fire) \$
					MED.EXP. (Any one person) \$
	AUTOMOBILE LIABILITY				COMBINED SINGLE
!	ANY AUTO		ĺ		LIMIT \$
	ALL OWNED AUTOS				BODILY INJURY
	SCHEDULED AUTOS				(Per person) \$
	HIRED AUTOS				BODILY INJURY
	NON-OWNED AUTOS GARAGE LIABILITY				(Per accident) \$
					PROPERTY DAMAGE \$
	EXCESS LIABILITY				EACH OCCURRENCE \$
	UMBRELLA FORM OTHER THAN UMBRELLA FORM				AGGREGATE \$
A	WORKER'S COMPENSATION	w958123672	08/01/95	08/01/96	STATUTORY LIMITS
ļ	AND				EACH ACCIDENT \$ 1,000,000
i	EMPLOYERS' LIABILITY				DISEASE-POLICY LIMIT \$ 1,000,000
┡	OTHER				DISEASE-EACH EMPLOYEE \$ 1,000,000
Ì	- Cities				
DE	SCRIPTION OF OPERATIONS/LOCATIONS/VI	 EHICLES/SPECIAL ITEMS			
	b: Cypress "A" Oak		nam Street	& 1285 Fi	fth Street
Ca	ncellation: Except	for ten days for	or non-paym	ent of pre	emium.
Ci	ERTIFICATE HOLDER		CANCELLATION		
			80		BED POLICIES BE CANCELLED BEFORE THE
ļ	-, , , ,	7.1	9/8		SUING COMPANY WILL ENDEAVOR TO
	Alameda Cour		**		E TO THE CERTIFICATE HOLDER NAMED TO THE OTICE SHALL IMPOSE NO OBLIGATION OR
Agency, Div. of Environ. Dept. of Envir. Health		or Environ.	W		OMPANY, ITS AGENTS OR REPRESENTATIVES.
	Dept. OI Env	Wy Prkwy 2Fl			
	Alameda CA 9		AUTHORIZED REPRES	ENTATIVE	
Jan 14			Leener	11 casonor	7
A	CORD 25-S (7/90)				©ACORD CORPORATION 1990

₽.3

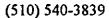
ALAMEDA COUNTY BALARDOUS MATERIALS DIVISION Declaration of fits Assount Refund Recipiest CITE CARE FILLS OF PER SING

The property owner will use this form to designate someone other than him- or her- self to receive any refund the at the empletion of all deposit/refund projects at the site listed below. In the absence of this form, the property owner will receive any refund. Only one person at any one time may be designated to receive any refund.

SITE NUMBER/ADDRESS:	PROPERTY CHAIR
Site duter	
J&A Truck Repair	Caltrans
Company Name	Green's Matte
390 Eirkhan Street	LIZE FER Street
Threet Address	Querris Address
Oskisof, California 94607	Orkland, CA 94407
City Lie Code	Queen's City State 21st
SBIS Mitchell Drive, Buita	299
Welger Creek, Colifornia 9	P4598
City / Zip	
Raymond Pane	8/14/95
mity Diam Signature	Sets
Raymond Pang	
Property Owder Space	PERACTICAL OF ENVIRONMENTAL S THE TOTAL TO: LIST Exchange CA 94507.4577

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737





March 15, 1995

Mr. Ace Forsen, Chief
Project Development/Benicia-Martinez Bridge
Caltrans
111 Grand Avenue
P.O. Box 23660
Oakland, California 94623-0660

Dear Mr. Forsen:

SECOND DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT (PEA), J&A TRUCK REPAIR (AKA SMILO CHEMICAL), 500 KIRKHAM STREET, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (DTSC) has received the second draft of the PEA for J&A Truck Repair submitted by Environmental Solutions, Inc. on behalf of Caltrans. DTSC has reviewed the revisions to the document that were made in response to DTSC's January 27, 1995 comment letter. DTSC found that all comments were adequately responded to, and therefore is approving the PEA.

If you have any questions regarding this letter, please contact Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E. Chief Site Mitigation Branch

See next page

cc:

cc:

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

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Chris Wilson Caltrans Environmental Engineering 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Mr Jed A. Douglas Environmental Solutions, Inc. 1201 North McDowell Boulevard Petaluma, California 94954 PROTECTION.

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737

(510) 540-3724



January 27, 1995

Mr. Ace Forsen, Chief
Project Development/Benicia-Martinez Bridge
Caltrans
111 Grand Avenue
P.O. Box 23660
Oakland, California 94623-0660

Dear Mr. Forsen:

DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT (PEA), THIRD SITE GROUP, J&A TRUCK REPAIR (AKA SMILO CHEMICAL), 500 KIRKHAM, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (Department) has received the Draft PEA for J&A Truck Repair submitted by Environmental Solutions, Inc. on behalf of Caltrans on January 20, 1995. The PEA was generally well written and contained most of the required components contained in the Department's guidance document. The Department's comments are as follows:

- 1. Section 4.0, Apparent Problem: This section should contain a brief discussion explaining the reason groundwater was not considered an exposure pathway of concern, and the rationale for omitting environmental receptors.
- 2. Section 5.1.7, Potentially Affected Receptors Within a One Mile Radius: Businesses located within a one mile radius of the site should also be included in Table 3. In addition, this section refers to Table 5 rather than Table 3.
- 3. Section 6.1, Summary of Activities and Results From PEA Investigations, Item 2: There is a discrepancy in the number of wipe samples reported in this paragraph. Please revise and correct.
- 4. Section 10.2, Recommendations for Further Action: The Department requests that groundwater monitoring wells be installed to determine the extent of volatile organic compounds found in the central and eastern portion of the site. This section should also include the recommendation to decontaminate the interior of the warehouse prior to



Mr. Ace Forsen January 27, 1995 Page Two

demolition.

5. Table 3: This table should reference Figure 12 and not Figure 11.

If you have any questions regarding this letter, please contact Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief Site Mitigation Branch

cc: Mr. Sum Arigala
Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Chris Wilson
Caltrans
Environmental Engineering
111 Grand Avenue
P.O. Box 23660
Oakland, California 94623-0660

Mr Jed A. Douglas Environmental Solutions, Inc. 1201 North McDowell Boulevard Petaluma, California 94954

700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737

(510) 540-3724

5% SEP 33 AN 8: 10



September 28, 1994

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

cc:

See next page

REVISED ADDENDUM TO SOIL AND GROUNDWATER INVESTIGATION WORKPLAN, JEA TRUCK REPAIR, 500 KIRKHAM AVENUE, THIRD SITE GROUP, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (Department) has received the Revised Addendum to the J&A Truck Repair Investigation Workplan submitted by Environmental Solutions, Inc. on behalf of Caltrans. The Revised Addendum addressed all comments contained in the Department's letter dated September 13, 1994; therefore, the revised addendum is approved. If you have any questions regarding this letter, please contact Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Site Mitigation Branch

Barbara J Cook

Mr. Ace Forsen, Chief September 28, 1994 Page Two

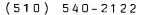
cc: Mr. Sum Arigala Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

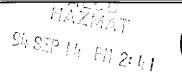
> Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Mr. Jed Douglas Environmental Solutions, Inc. 1201 North McDowell Boulevard Petaluma, California 94954

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737







September 13, 1994

Mr. Ace Forsen, Chief Project Development/Benicia-Martinez Bridge Caltrans 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

ADDENDUM AND RESPONSE TO COMMENTS TO SOIL AND GROUNDWATER INVESTIGATION WORKPLAN, THIRD SITE GROUP, J&A TRUCK REPAIR, CYPRESS RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (Department) has received the Addendum and response to comments to the Workplan for J&A Truck Repair located at 500 Kirkham Avenue, Oakland, submitted on behalf of Caltrans by Environmental Solutions, Inc. The Department has reviewed the responses provided by Caltrans and found them to adequately address the Department's August 28, 1994 comments. The Department has also reviewed the Workplan Addendum that describes sampling around the recently discovered underground storage tank (UST) and has the following comments:

- 1. Please provide a description of the area that will be surveyed and describe how the geophysical survey of the area will be conducted.
- 2. If possible, one of the soil borings around the UST should be placed near the location of the fill pipe.
- 3. Because the use of the UST prior to 1973 is unknown, soil and groundwater samples should be analyzed for total metals and VOCs, in addition to TPH-gasoline, TPH-diesel, BTEX, and oil and grease.



Mr. Ace Forsen September 13, 1994 Page Two

If you have any questions regarding this letter, please contact Lynn Nakashima of my staff at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief Site Mitigation Branch

Darbara J Cosz

cc: Mr. Sum Arigalia
Regional Water Quality Control Board
San Francisco Bay Region
2101 Wester Street, Suite 500

Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Mr. Joel Howie Caltrans Environmental Engineering 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Mr. Jed Douglas Environmental Solutions, Inc. 1201 North McDowell Boulevard Petaluma, California 94954

REGION 2 700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737 (510) 540-2122 94 AUG 31 6310: 47



August 29, 1994

Mr. Ace Forsen Chief, Project Development/Benicia-Martinez Bridge Caltrans 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

COMMENTS TO SOIL AND GROUNDWATER INVESTIGATION WORKPLAN, J&A
TRUCK REPAIR - THIRD SITE GROUP, OAKLAND, CYPRESS RECONSTRUCTION
PROJECT

The Department of Toxic Substances Control (Department) has received the revised workplan for J&A Truck Repair, former Smilo Chemical, located at 500 Kirkham Street in Oakland. The workplan submitted is approved by the Department contingent upon the following changes being made:

- 1. Section 3.2, Wipe Sampling Locations and Protocol should be amended to include that for chlorinated solvents and semi-volatiles, a glass fiber filter (37 mm) wetted with isopropanol or another organic solvent will be used. Paper filters moistened with deionized water will be used for metals and other analysis. In addition, the wipes should be pre-weighed (tared) in a laboratory so that units of concentration can be determined.
- 2. Section 3.3, Sampling Plan, should state whether groundwater samples will be filtered in the field or in the laboratory.
- 3. Table 2, Analytical Procedures needs to be amended to include that the maximum holding time for mercury is 28 days.



Mr. Ace Forsen August 29, 1994 Page Two

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief Site Mitigation Branch

cc: Mr. Joel Howie
Caltrans
Environmental Engineering
111 Grand Avenue
P.O. Box 23660
Oakland, California 94623-0660

Mr. Sum Arigala Regional Water Quality Control Board San Francisco Bay Region 2101 Webster Street, Suite 500 Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502

Ms. Cydney M. Miller Environmental Solutions, Inc. 1201 North McDowell Boulevard Petaluma, California 94954

700 HEINZ AVE., SUITE 200 BERKELEY, CA 94710-2737

(510) 540-3724

ALCO HAZMAT

94 JUN 23 PH 2: 42



June 17, 1994

Mr. Ace Forsen Chief, Project Development/Benicia-Martinez Bridge Caltrans 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Dear Mr. Forsen:

Mr

COMMENTS TO DRAFT SOIL AND GROUNDWATER INVESTIGATION WORKPLAN, J&A TRUCKING - THIRD SITE GROUP, CYPRESS FREEWAY RECONSTRUCTION PROJECT, OAKLAND

The Department of Toxic Substances Control (Department) has received the above mentioned workplan. Please find enclosed the Department's comments to the workplan. Due to the history of the site, the Department feels that additional sampling is warranted to confirm that the site was adequately remediated.

If you have any questions regarding this letter, please contact Lynn Nakashima at (510) 540-3839.

Sincerely,

Barbara J. Cook, P.E., Chief

Site Mitigation Branch

Enclosure

Ms. Diane Steinhauser Chief, Environmental Engineering Caltrans - District 4 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

> Mr. Joel Howie Caltrans - District 4 Environmental Engineering 111 Grand Avenue P.O. Box 23660 Oakland, California 94623-0660

Mr. Ace Forsen June 17, 1994 Page Two

cc: Mr. Rich Hiett
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Ms. Susan Hugo Alameda County Health Agency Department of Environmental Health 80 Swan Way, Room 350 Oakland, California 94621

Comments to Draft Soil and Groundwater Investigation Workplan J&A Trucking-Third Site Group Cypress Reconstruction Oakland

- 1. Page 1, Section 2.0, Site Description: This section needs to include a description of the current site operation and site features. A large building and storage area are mentioned, but the workplan does not state what the building is used for, what is kept in the storage area, or what activities are on-going.
- 2. Page 1, Section 2.1, Site History and Previous Work:
- a. This section needs to include a detailed description of the former Smilo Chemical facility. For example, three sumps and drum storage areas were located at the site but never mentioned as well as a dirt drainage line. In addition, it should be stated that both the Department and RWQCB conducted inspections at the site.
- b. Maps showing current and historic site features needs to be included in the workplan.
- 3. Page 3, Section 3.0, Scope of Work:
- a. Please provide the rationale for limiting the number of soil borings to eight and why only three groundwater samples will be collected. If sufficient groundwater can be collected from a boring, a groundwater sample should be collected and analyzed.
- b. Because Caltrans is proposing to use the warehouse for training purposes, the interior of the building should be sampled to ensure that no chemical residues remain. A wipe sampling procedure and plan should be proposed to test the interior walls, floor, ceiling, and ventilation ducts of the building.
- 4. Page 3, Section 3.1, Soil Boring Locations and Protocol:
- a. Because the map provided in Plate 2 is not to scale, it is difficult to determine the spacing of the borings. A map drawn to scale should replace Plate 2. The map should also identify the locations of the sumps, ditches, and former drum storage areas.
- b. Additional soil borings are needed along the former drainage ditch, in the east sump area, in the barrel sump area, near the location of the former dumpster, downgradient of the concrete sump and/or under the sump and at any piping locations (if any). Chemicals brought to the site were reportedly discharged at these locations.
- c. A description of the labels that will be placed on the drums containing decontamination rinse water and soil cuttings should be included. The labels should identify the composition and physical state of the material (e.g. soil cuttings, decontamination rinse water pending laboratory analysis), name of generator, contact person, address, and initial date of accumulation.
- 5. Page 4, Section 4.0, Sampling Plan:
- a. Sample containers used to collect VOCs should be pre-chilled using wet ice prior to sample collection to minimize volatilization.
 - b. This section needs to include a description of the sample numbering system that

will be used to identify samples.

- c. A description of the type of field documentation will be collected, and how it will be collected should be included in this section.
- d. The chain-of-custody procedures that will be used needs to be described in detail in this section, or in Section 3.5, Quality Assurance/Quality Control.
- 6. Page 4, Section 3.4, Analytical Program: This section references tables 2 and 3. This should be corrected to reference tables 1 and 2.
- 7. Table 1, Analytical Procedures: This table needs to identify the specific matrix the quantitation limits are established for. Groundwater quantitation limits should be set so that they can be compared to the RWQCB NPDES discharge requirements. In addition, the quantitation limit for hexavalent chromium should be lowered to meet the preliminary remediation goal of 0.68 ppm.
- 8. Table 2, Soil and Groundwater Analytical Program: The rationale for not analyzing all samples collected for the selected parameters is unclear. All 1-foot, 5-foot and 8-foot samples should be analyzed for VOCs (8240), Semi-Volatiles (8270). Four samples each from the surface sample, 1-foot, 5-foot and 8-foot samples should be analyzed for hexavalent chromium. And surface samples should be analyzed for Semi-Volatiles (8270).
- 9. Appendix B, Soil and Groundwater Sample Collection Procedures:
- a. The procedures described to cap soil sample tubes is inconsistent with that described in Section 3.2, Sampling Plan. Please correct this discrepancy.
- b. Sampling equipment used to collect soil and groundwater samples should be decontaminated using a final deionized water rinse, and not a tap water rinse.

470-27/2 51 12-4-84 1300 . Tom Peacock acresa Ed Howell aCHCSA re: Sinclo 300 Kierham Lt. has been dormant for over two years. Architects had drawn up plans for renovation of building Smilo samples taken 3-19-81 Heavy Molals were below action levels per title 22 66699 Perticides were found to be minimally above action levels. According to Howard Hatiyama not sufficient to require clean-up. 9410 in Cal Turans Easement Ed Refull will have Howard HaTayama To review The file and give an answer

Bob Marek
1. concerns with surface contamination getting into surface runoff:

2. concerns with contamination of ground water approx 5 feet ±

Concentrations do not justify further lesting,

Smilo - 465-8022 Nome - 731-3131

Warrents surface clean-up needont only.

.

.. . w we w

.
