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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 94-007
NPDES NO. CA0029980

WASTE DISCHARGE REQUIREMENTS FOR:

CALTRANS - CYPRESS RECONSTRUCTION
ALAMEDA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. The California Department of Transportation (CALTRANS) hereinafter called the discharger, by application dated October 1, 1993, has applied for issuance of waste discharge requirements under the National Pollutant Discharge Elimination System (NPDES).
2. The primary purpose of the proposed I-880/Cypress project is to restore continuity and capacity to the interstate and regional network that was lost when the I-880 link between 18th and 34th streets in Oakland was destroyed by the Loma Prieta earthquake. The eight lane Cypress Freeway structure was a connecting link in the local, regional and interstate transportation network. The project would alleviate severe congestion at the I-580/980 and I-80/I-580/I-880 interchanges, as well as ease local circulation on city streets.
3. The project corridor limits lie within the area bounded by Route I-80 at Powell street in Emeryville and by Route I-80 at Powell Street in Emeryville in the south. Most of the corridor passes through Southern Pacific's West Oakland Yard, requiring extensive relocation of their rail lines. Several hazardous waste investigations have been conducted by the discharger and by property owners during the Right-of-Way acquisition process for the freeway. The discharger has acquired and is in the process of acquiring a total of 27 potentially and known polluted sites either partially or fully for the freeway reconstruction. Very limited data were obtained at the sites investigated.
4. Cursory subsurface investigations initiated in 1992 and 1993 of the soil and groundwater at these sites along the freeway corridor indicate pollution in both soil and groundwater throughout the proposed project area. The complete distribution and extent of pollutants reported are beyond the scope of these investigations. However, based on limited information the pollutants detected in soil and groundwater include: Petroleum Hydrocarbons as gasoline and diesel, non-speciated hydrocarbons, aromatic volatile organics, chlorinated volatile organics, semi-volatile organics, polynuclear aromatic hydrocarbons, pesticides and heavy metals.

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5. This Order applies to several anticipated discharge points for extracted groundwater to be implemented by the discharger. Approximately three hundred footings will be excavated for the freeway structure in the cities of Oakland and Emeryville. Most of the excavations for the construction of the freeway will need to be dewatered for the work to proceed due to shallow groundwater conditions along the freeway corridor. This will necessitate an estimated discharge volume of approximately 100,000 gallons of water per day based on estimated average soil permeabilities and groundwater elevations. The groundwater from these excavations will be pumped into holding tanks. The water in the holding tanks will be stored to allow for settling of suspended solids. No other treatment method for dissolved pollutants, or pollutants that will not be effected by settling, is currently proposed.
6. The following description outlines seven potential discharge points for the project designated contracts A to G. Actual discharge points will be determined during construction but will be limited to the following locations. Extracted groundwater for contract A will be directed to the storm sewer drain at third and Magnolia Streets, at storm sewer juncture at Third street between Chestnut and Filbert Streets, at the juncture of Market Street and Fifth Street, or at the intersection at First and Market Streets. From these discharge points the water will flow south-west where it will discharge to the Oakland Inner Harbor in Central San Francisco Bay.

For Contract B, the entire storm sewer system will be utilized as defined by the area bounded to the northwest by Cedar Street the northeast as Shorey Street, the southwest as Seventh Street and the southeast as Wood Street. Groundwater discharged into the storm sewers contained in this area will flow northwest into the Oakland Outer harbor in Central San Francisco Bay.

For Contracts C, D, and F the groundwater will be discharged to the storm sewer system junctures along West Grand Avenue beginning at the at the intersection of West Grand Avenue and the Oakland Army Base and terminating at the intersection of West Grand Avenue, Maritime and Wake Streets. Discharged groundwater will flow northwest to the Oakland Outer Harbor.

For Contract E the groundwater will be discharged into the aforementioned storm sewer system for C, D, and F or into the storm system along Burma Road between the East Bay Municipal Utilities District Building to the northeast and the Oakland Army Base property to the south, discharging into the Oakland Outer Harbor.

For Contract G the groundwater will be discharged to the storm sewer system between the Distributuion Structure and Powell Street discharging into the Emeryville Crescent Marsh.

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7. Based upon the criteria in Board Resolution No. 88-160 and on information submitted by the discharger, the Board finds that extracted groundwater reclamation, re-use, or discharge to POTW are feasible, contingent upon pollutant levels set forth by the Board, and county or state health services agencies (See: Provision C).
8. The Basin Plan contains water quality objectives for Central San Francisco Bay and the Emeryville Crescent Marsh.
9. The existing and potential beneficial uses of Central San Francisco Bay and the Emeryville Crescent Marsh include:
 - Fresh water recharge
 - Warm fresh water habitat
 - Contact and non-contact water recreation
 - Wildlife habitat
 - Preservation of rare and endangered species
 - Estuarine habitat
 - Industrial process supply
 - Fish spawning and migration
 - Industrial service supply
 - Shellfishing
 - Navigation
 - Ocean commercial and sport fishing
10. The Basin Plan prohibits discharge of "all conservative toxic and deleterious substances, above those levels which can be achieved by a program acceptable to the Board, to waters of the Basin." The discharger's ground water extraction and treatment systems and associated operation, maintenance, and monitoring plans constitute an acceptable control program for minimizing the discharge of toxicants to waters of the State.
11. Effluent limitations of this Order are based on the Clean Water Act, Basin Plan, State and U.S. Environmental Protection Agency (EPA) plans and policies, and best engineering and geologic judgement. EPA Region IX draft guidance "NPDES Permit Limitations for Discharge of Contaminated Groundwater: Guidance Document" was also considered in the determination of effluent limits.
12. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.

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13. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.

IT IS HEREBY ORDERED that the discharger, its agents, successors, and assigns in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. EFFLUENT LIMITATIONS

1. The effluent, at the discharge point to the storm drain, shall not contain constituents in excess of the limits contained in Table 1:

Table 1

<u>Constituent</u>	<u>Instantaneous Maximum (µg/l)</u>
a. <u>Purgeable Halocarbons</u>	
trichloroethylene (TCE)	5.0
tetrachloroethylene (PCE)	5.0
1,1,1-trichloroethane (TCA)	5.0
1,1-dichloroethane (1,1,-DCA)	5.0
1,1-dichloroethylene (1,1-DCE)	5.0
cis + trans-1,2-dichloroethylene	5.0
1,2-dichloroethane (1,2-DCA)	5.0
Trichloroflouromethane (Freon-11)	5.0
1,1,2-trichloro-	
1,2,2-triflouoroethane (Freon 113)	5.0
chloroethene (vinyl chloride)	5.0
Any other chlorinated volatile organic compound (as identified by EPA method 601 or 624)	5.0
b. <u>Purgeable Aromatics</u>	
Benzene	5.0
Toluene	5.0
Ethylbenzene	5.0
Total Xylenes	5.0
 Volatile Organic compounds (per	 5.0

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constituent, as identified by EPA method 624 or EPA methods 601 and 602)

c.	<u>Total Petroleum Hydrocarbons</u> (as identified by modified EPA method 8015)	50.0
d.	<u>Polynuclear Aromatic Hydrocarbons</u> (defined as the sum of acenaphthylene, anthracene, 1,2-benzanthracene, 3,4-benzoflouranthene, benzo[k]fluoranthene, 1,12-benzoperylene, benzo[a]pyrene, chrysene, dibenzo[ah]anthracene, flourene, indeno[1,2,3-cd]pyrene, phenanthrene, and pyrene)	15.0
e.	<u>Ethylene Dibromide</u> (as identified by method 504)	5.0
f.	<u>Base/neutral, Acid and Pesticide Compounds</u> (per constituent, as identified by method 625)	5.0
g.	<u>Inorganics</u>	
	arsenic	20.0
	cadmium	10.0
	chromium (VI)	11.0
	copper	20.0
	cyanide	20.0
	lead	5.6
	mercury	1.0
	nickel	7.1
	selenium	5.0
	silver	2.3
	zinc	58.0

2. The flow of the discharge shall be limited to the treated groundwaters removed from the uppermost shallow water bearing zone.

3. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.

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4. In any representative set of samples, the discharges shall meet the following limit of quality:

Toxicity: The survival of test fishes in 96-hour static bioassays of the undiluted effluent as discharged shall be a three sample moving median of 90% survival, and a 90 percentile value of not less than 70% survival in a single sample. The bioassays shall be performed according to protocols approved by the U.S. EPA or the State Water Resources Control Board or published by the American Society for Testing and Materials or American Public Health Association. Two fish species will be tested concurrently. These shall be the most sensitive two species determined from a single concurrent screening of three using two of the following three test fish species in parallel tests. The test fish shall be rainbow trout, fathead minnow, or three-spine stickleback.

The compliance monitoring may be carried out with one, most sensitive fish species if both of the following conditions are met:

- the discharger can document that the acute toxicity limitation, as described above, has not been exceeded during the previous three years, or that acute toxicity has been observed in only one of two fish species, and
- a single screening using all three fish species confirms the documented pattern.

B. RECEIVING WATER LIMITATIONS

1. The discharge of wastes shall not cause the following conditions to exist in waters of the State at any place:
- a. floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. bottom deposits or aquatic growths;
 - c. alteration of temperature or apparent color beyond present natural background levels;
 - d. visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of

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these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentrations.

2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
 - a. pH: The pH shall not be depressed below 6.5 nor raised above 8.5, nor caused to vary from normal ambient pH levels by more than 0.5 units.
 - b. Dissolved oxygen: 5.0 mg/l minimum. The median dissolved oxygen concentration for any three consecutive months shall not be less than 80% of the dissolved oxygen content at saturation. When natural factors cause lesser concentration(s) than specified above, the discharge shall not cause further reduction in the concentration of dissolved oxygen.
 - c. Un-ionized ammonia (as N):

0.025 mg/l annual mean
0.4 mg/l maximum
3. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. WATER RE-USE LIMITATIONS

1. A water re-use plan must be approved by the Executive Officer.
2. All water shall meet all effluent limitations in effect.
3. A report must be sent on a quarterly basis indicating the number of gallons used and locations used.

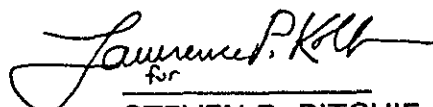
D. PROVISIONS

1. The discharger shall comply with all sections of this order immediately upon adoption by the Board and upon starting any discharge.

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2. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
3. The discharger shall notify the Board if any activity has occurred or will occur which would result in the discharge, on a frequent or routine basis, of any toxic pollutant which is not limited by this Order.
4. Any discharge to a location other than the discharge point(s) specified in this Order will require a modification to this Order.
5. The discharger shall send as-built drawings of the remediation system(s).
6. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated December 1986 and modified January 1987, except items A.10, B.2, B.3, C.8 and C.11.
7. This Order expires January 19, 1999. The discharger must file a report of waste discharge in accordance with Title 23, Division 3, Chapter 9 of the California Code of Regulations no later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
8. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on January 18, 1994.


for

STEVEN R. RITCHIE
Executive Officer

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**Attachments: Self-Monitoring Program
 Discharge Location Map**



STATE OF CALIFORNIA
 REGIONAL WATER QUALITY CONTROL BOARD
 SAN FRANCISCO BAY REGION

DISCHARGE LOCATION MAP
 BY CONTRACT

DRAWN BY:	DATE:	DRWG NO. 1
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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

SELF-MONITORING PROGRAM

FOR:

**CALTRANS
CYPRESS RECONSTRUCTION PROJECT
OAKLAND/EMERYVILLE, ALAMEDA COUNTY**

NPDES NO. CA0029980

ORDER NO. 94-007

CONSISTS OF:

PART A Dated December 1986 and modified January 1987

PART B ADOPTED JANUARY 19, 1994

PART B
CALTRANS
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OAKLAND/EMERYVILLE, ALAMEDA COUNTY

I. DESCRIPTION OF SAMPLING STATIONS

A map with locations of treatment and discharge shall be included in each Self Monitoring Plan report. Following twenty days of settlement in the influent tank, and after decanting into the effluent tank, a representative groundwater sample shall be collected to determine compliance with discharge limits.

A. EFFLUENT TANK (T)

<u>Station</u>	<u>Description</u>
T-1...T-n	A composite sample will be taken from each tank . This sample will consist of four grab samples collected from the surface, 3 feet below the water surface, 6 feet below the water surface, and 9 feet below the water surface. These samples shall be taken to a state certified laboratory for compositing (four into one) and analysis.

II. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis is provided in the attached Table A.

III. MODIFICATIONS TO PART A, DATED DECEMBER 1986 AND MODIFIED JANUARY 1987

All items of Self-Monitoring Program Part A, dated December 1986 and as modified January 1987 shall be complied with except for the following:

- A. Additions to Part A: Section G.4.d.5: "Results from each required analysis and observation shall be submitted as laboratory originated data summary sheets in the quarterly self-monitoring reports. All chromatographic peaks for purgeable halocarbons and/or volatile organics shall be identified and quantified for all effluent samples. If previously unquantified peaks are identified in any effluent sample, then these peaks shall be confirmed based on analyses using chemical standards necessary to achieve proper identification and quantification. Results shall also be submitted for any additional analyses performed by the**

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discharger at the specific request of the Board for parameters for which effluent limits have been established and provided to the discharger by the Board."

B. Deletions from Part A: Sections D.2.b., D.2.g., D.3.b., E.1.e.1, E.1.f., E.2.b., E.3., E.4., E.5., F.2.b., G.2., G.4.b., and G.4.f.

C. Modifications to Part A: For the following, the discharger shall comply with the Sections as changed and reported herein:

1. Section D.1. is changed to read:

"Samples of influent shall be collected according to the schedule in Part B and shall not include any plant recirculation or other sidestream wastes. Deviation from this must be approved by the Executive Officer."

2. Section D.2.a. is changed to read:

"Samples of effluent and receiving waters shall be collected at times coincident with influent sampling unless otherwise stipulated. The Regional Board or Executive Officer may approve an alternative sampling plan if it is demonstrated that expected operating conditions warrant a deviation from the standard sampling plan."

3. Section D.2.d. is changed to read:

"If two consecutive samples of any one constituent or parameter monitored on a weekly or monthly basis in a 30-day period exceed the effluent limit or are otherwise out of compliance, or if the required sampling frequency is once per month or less (quarterly, annually or other) and the sample or parameter exceeds the limit or is otherwise out of compliance, the discharger shall implement procedure(s) acceptable to or approved by the Board's Executive Officer, on a case by case basis."

4. Section D.2.e. is changed to read:

"If any instantaneous maximum limit is exceeded, within 24 hours of receiving the analytical results indicating the violation, a confirmation sample shall be taken and analyzed with 24 hour turn-around time. If the instantaneous maximum is violated in the second sample, the discharge shall notify Regional Board staff

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immediately. The Executive Officer may order the discharge to be terminated, on a case-by-case basis."

5. In Section F.1., the phrase "(at the waste treatment plant)" is changed to read, "(to Regional Board or U.S. Environmental Protection Agency staff for inspection)."

6. Section F.2.a. is changed to read:

"Record flows from totalizing meters every two weeks and calculate average daily flow for each month."

7. Section F.2.b. is changed to read:

"Establish flows per minute and estimate flow in gallons per day."

8. Quarterly written reports required in Section G.4 shall be filed quarterly by the thirtieth day of the following month.

9. Section G.4.e is changed to read:

"Summary tabulations of the data shall include, for each constituent, total number of analyses, maximum, minimum, and average values for each period. Total flow data shall also be included. This information shall be prepared in a format similar to EPA Form 3320-1. This information shall be submitted only to the Board:

Executive Officer
California Regional Water Quality Control Board
2101 Webster Street, Suite 500
Oakland, CA 94612

10. The Annual Report required in Section G.5. shall be submitted by January 30 of each year in place of the quarterly report due on the same day.

IV. MISCELLANEOUS REPORTING

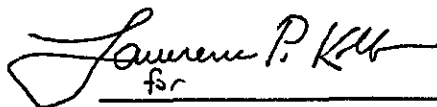
If any chemicals or additives are proposed to be used in the operation and/or maintenance of the ground water extraction/treatment system, the discharger shall obtain the Executive Officer's concurrence prior to use. The details

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concerning such approved use shall be reported in the next periodic report submitted to the Board.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 92-135.
2. Was adopted by the Board on January 19, 1994.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer or the Board.


for

STEVEN R. RITCHIE
Executive Officer

Attachments: Table A

TABLE A
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	T-1...T-n
Type of Sample	G,C,DI
Flow Rate (mgd)	-
Bioassay 96-hr % survival (flow-through or static)	V
Ammonia Nitrogen (mg/l & kg/day)	B
Turbidity (NTU's)	
pH (units)	B
Dissolved Oxygen (mg/l and % saturation)	B
Temperature (°C)	B
Standard Observations	-
Arsenic (mg/l)	B
Cadmium (mg/l)	B
Chromium (hexavalent) (mg/l)	B
Copper (mg/l)	B
Cyanide (mg/l)	B
Lead (mg/l)	B
Mercury (mg/l)	B
Nickel (mg/l)	B
Selenium (mg/l)	B
Silver (mg/l)	B
Zinc (mg/l)	B
TPH w/ EPA Modified Method 8015	B
PNAs w/EPA Method 610	B
EDB w/EPA Method 504	B
Semi-Volatile w/EPA Method 625 Base/Neutral, Acid and Pesticide	B
Volatile Organics w/ EPA 601 and 602 or 624*	B

LEGEND FOR TABLE A

TYPES OF SAMPLES

G = grab sample
C = composite
Cont. = continuous sampling
DI = depth integrated sample
BS = bottom sediment sample
O = observation
- = none required

TYPES OF STATIONS

I = intake or influent stations
E = effluent sampling stations
D = discharge point sampling stations
C = receiving water sample stations
T = tank
B = bottom sediment station
G = groundwater station

FREQUENCY OF SAMPLING

H = once each hour
D = once each day
W = once each week
M = once each month

Y = once each year

B = once each batch (tank)
V = varies; total ammonia nitrogen shall be analyzed and unionized ammonia calculated whenever fish bioassay test results fail to meet the specified percent survival

2/W = 2 days per week
5/W = 5 days per week
2/M = 2 days per month
2/y = once in March and once in September
Q = quarterly, once in March, June, September, and December

W/M = weekly for first three months after startup of operations and reduced to monthly thereafter

W/Y = weekly for first three months after startup of operations and reduced to annually thereafter

M/Y = monthly for first six months after startup of operations and reduced to annually thereafter

2D = every 2 days
2W = every 2 weeks
3M = every 3 months
Cont = continuous

Q/Y = quarterly for first year after permit reissuance, reduced to annually thereafter

W/Q = weekly for first three months after startup of operations and reduced to quarterly thereafter

M/Q = monthly for first three months after permit reissuance and reduced to quarterly thereafter

* When water samples are tested by EPA Method 624, it is not necessary to test the samples by EPA Methods 601 and 602.

SELF-MONITORING PROGRAM
PART A

A. GENERAL

Basis

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383 and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16 and the Environmental Protection Agency's Discharge Monitoring Report (Form 3320-1).

Purpose

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the 40 CFR 136 or other methods approved and specified by the Executive Officer of this Regional Board. (See Appendix E, attached)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS) or a laboratory waived by the Executive Officer from obtaining a certification for these analyses by the DOHS. The director of the laboratory whose name appears on the certification or his/her laboratory supervisor who is directly responsible for analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his or her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

9. A 6-month median means a moving median of daily values for any 180 day period in which daily values represent flow-weighted average concentrations within a daily or 24-hour period. For intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred.

D. SPECIFICATIONS FOR SAMPLING AND ANALYSES

The discharger is required to perform sampling and analyses according to the schedule in Part B in accordance with the following conditions:

1. Influent

- a. Samples of influent shall be collected on varying days selected at random and shall not include any plant recirculation or other sidestream wastes. Deviation from this must be approved by the Executive Officer.

2. Effluent

- a. Samples of effluent shall be collected on days coincident with influent composite sampling unless otherwise stipulated. At least one sampling event/day shall be taken during major unit operation shutdown or startup. The Board or Executive Officer may approve an alternative sampling plan if it is demonstrated to the Board's satisfaction that expected operating conditions for the facility warrant a deviation from the standard sampling plan.
- b. Grab samples of effluent shall be collected during periods of maximum peak flows and shall coincide with effluent sample days.
- c. Fish bioassay samples shall be collected on days coincident with effluent sampling.
- 1) Bioassay sample should be collected after chlorination, if chlorination is part of the treatment process. Bioassay test should be performed on dechlorinated samples. Dechlorination may be performed at the laboratory before testing.
- 2) Total ammonia nitrogen shall be analyzed and un-ionized ammonia calculated whenever fish bioassay test results fail to meet the specified percent survival.
- d. If two consecutive samples of a constituent monitored on a weekly or monthly basis in a 30 day period exceed the effluent limit for any parameter, (or if the required sampling frequency is once per month and the monthly sample exceeds the limit), the sampling frequency shall be increased to daily until the additional sampling shows that the most recent three (3) days are in compliance.

e. Hydrographic condition:

- 1) Time and height of corrected high and low tides (corrected to nearest NOAA location for the sampling date and time of sample and collection).
- 2) Depth of water columns and sampling depths.

f. Weather condition:

- 1) Air temperatures.
- 2) Wind - direction and estimated velocity.
- 3) Precipitation - total precipitation during the previous five days and on the day of observation.

2. Wastewater Effluent

- a. Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.
- b. Odor: presence or absence, characterization, source, distance of travel.

3. Beach and Shoreline

- a. Material of waste origin: presence or absence, description of material, estimated size of affected area, and source.
- b. Beneficial use: estimated number of people sunbathing, swimming, waterskiing, surfing, etc.

4. Land Retention or Disposal Area

This applies both to liquid and solid wastes confined or unconfined.

- a. For each impoundment determine amount of the freeboard at lowest point of dikes confining liquid wastes.
- b. Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch and volume of flow (gpm, etc.))
- c. Odor: presence or absence, characterization, source, and distance of travel.
- d. Estimated number of waterfowl and other water-associated birds in the disposal area and vicinity.

G. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

If any hazardous substance is discharged in or on any waters of the state, or discharged and deposited where it is, or probably will be discharged in or on any waters of the state, the discharger shall report such a discharge to this Regional Board, at (415) 464-1255 on weekdays during office hours from 8 a.m. to 5 p.m., and to the Office of Emergency Services at (800) 852-7550 during non-office hours. A written report shall be filed with the Regional Board within five (5) working days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. duration of incident,
- d. cause of spilling,
- e. Spill Prevention, Control, and Countermeasure Plan (SPCC) in effect, if any,
- f. estimated size of affected area,
- g. nature of effects (i.e., fish kill, discoloration of receiving water, etc.),
- h. corrective measures that have been taken or planned, and a schedule of these activities, and
- i. persons/agencies notified.

2. Reports of Plant Bypass, Treatment Unit Bypass and Permit Violation

In the event the discharger violates or threatens to violate the conditions of the waste discharge requirements and prohibitions or intends to permit a plant bypass or treatment unit bypass due to:

- a. Maintenance work, power failures, or breakdown of waste treatment equipment, or
- b. accidents caused by human error or negligence, or
- c. other causes, such as acts of nature,

The discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within 5 working days of the telephone notification. The written report shall include time, date, duration and estimated volume of waste bypassed, method used in estimating volume and person notified of the incident. The report shall include

The letter shall contain the following certification:

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared following the example shown in APPENDIX A (attached). The discharger will prepare the format using those parameters and requirement limits for influent, effluent and receiving water constituents specified in the permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, detection limit and station, signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

- 1) If the permittee monitors any pollutant more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Self-Monitoring Report.
- 2) Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- 3) The report shall also identify a table identifying by method number the analytical procedures used for analyses. Any special methods shall be identified and should have prior approval of the Board's Executive Officer.
- 4) Lab results shall be copied and submitted as an appendix to the regular report.

FILE OR ENVELOPE No. of

PER NO. [Removal] No. of

OWNER East Bay Service Road Tent
Address SFO Bridge Toll Plaza
Oakland 94607 Phone

Contractor [Business Truck Equip]
Address P.O. Box 732
Red Bluff, CA Phone

OTHER (Specify) Steve Russell (Contractor)
Address 510-231-7116 or 415-
Phone 474-6409

CONTACT FOR INVESTIGATION

PLAN REVIEW

By Date

No. Plans Rec'd

Plans Approved

Layout Made

Rejected

Applicant Notified

Plans Returned

Permit Issued

CONSTRUCTION PROGRESS ACCEPTANCE

Pre-Plaster/drywall

Pre-Final

Final

By Date

Pre-Concrete/Gunite

Pre-Plaster

Final

Septic Tank

Absorption Field

Absorption Bed

House Sewer

Septic Tank

Absorption Field

Absorption Bed

By Date

Pre-Covering

Final

U.G. TANKS

2 binders go with this site

LOP 4901

LOP

XR Allen Bradar 286-5636 (CT)

Date	By	REMARKS
7/12/94	SH	Review UGT removal application (for copy)
7/18/94	SH	Review final copy, approved permit

REMARKS

RB #01-1990

LOCATION 4901

Vicinity Map

725660

\$48300

6/23/97 7/14/94

Closed proj 2560A - transferred request to project 2560B

This site currently is not on a dep/ref system Caltrans is being billed/invoiced for work performed to arrears

to Smith for work - see balance 4/24/96 → 8/25/96

RO-051

STATE OF CALIFORNIA, TRANSPORTATION AGENCY
DEPARTMENT OF TRANSPORTATION
DIST 04 CONSTRUCTION FIELD OFFICE
SFOBB Toll Plaza Administrative Bldg.
Oakland, CA 94608
Ph. (510) 286-6777
Fax: (415) 286-6774

PETE WILSON, Governor

August 30, 1996

04-043434
04-ALA-80-1.0/1.3
Seismic Retrofit

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Attention: Dale Klettke, CHMM
Hazardous Material Specialist

Letter #158

Subject: **Oversight fee.**

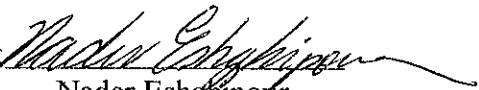
Dear Mr. Klettke,

Attached please find a check for \$792.00 for oversight fees invoiced by your office. It is my understanding that the total oversight fees from your office will be \$1,800.00. Please forward an invoice for the remaining amount.

If I can be of further assistance, please contact me at 286-6775.

Sincerely,

JOE BROWNE
District Director

By: 
Nader Eshghipour
Resident Engineer

cc: J. Pandher, A. Baradar, Caltrans
File Cat. 5.6, 49.36

DEPARTMENT OF TRANSPORTATION
DIST 04 CONSTRUCTION FIELD OFFICE
SFOBB Toll Plaza Administrative Bldg.
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Nader Eshghipour
Resident Engineer

cc: J. Pandher, A. Baradar, Caltrans
File Cat. 5.6, 49.36

white - lab
 yellow - insp. file
 pink - fac. file

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DIVISION OF HAZARDOUS MATERIALS
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621
 (415) 271-4320

Lab # 96-056

LABORATORY SERVICE REQUEST

SITENAME EAST BAY BRIDGE RETROFITTING PROJECT

SEND ANALYTICAL REPORT TO ABOVE OR:

ADDRESS _____

ACHCSA

SAMPLE SUBMITTED TO: DARCY WONG

DATE SUBMITTED 8/1/96

ATTN: DALE KLETTE

SEND INVOICE TO: N/A

RUSH = ABOUT 1 WEEK TURNAROUND
 ROUTINE = ABOUT 2 WEEKS TURN-AROUND

SAMPLE NO.	DATE/TIME COLLECTED	TYPE OF MATERIAL (WATER, SOIL OR MATRIX)	VOLUME/WEIGHT	FIELD OBSERVATION	ANALYSIS REQUESTED
CT-1	8/1/96/12:45PM	WATER	125ML	DISCHARGE POINT	Cu, Zn, Ni, Cd, Pb, Cr
CT-2	12:50PM	↓	↓	DISCHARGE POINT	↓
CT-3	12:55PM	↓	↓	POND # 1	↓
CT-4	1:00PM	↓	↓	POND # 2	↓
CT-5	1:00PM	↓	↓	POND # 3	↓

Chain of Custody:

1. Dale Klette Signature HMS Title 8/1/96 Inclusive Dates
2. Darcy Wong Signature Supr. Chemist Title 8/1/96 Inclusive Dates
3. _____ Signature _____ Title _____ Inclusive Dates

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

400 P STREET, 4TH FLOOR
P.O. BOX 806
SACRAMENTO, CA 95812-0806



ENVIRONMENTAL
PROTECTION

96 JUL -8 PM 2:28

(916) 322-0349

VARIANCE

Pursuant to Section 25143, Chapter 6.5, Division 20 of the Health and Safety Code (HSC), the California Department of Toxic Substances Control (DTSC) grants a variance to the applicant below for wastes considered hazardous solely because of their contaminant concentrations and as further specified herein:

1) Identifying information:

OWNER/OPERATOR

Joe Browne, District Director
State of California
Department of Transportation (Caltrans), District 4
111 W. Grand Avenue
Oakland, California 94623-0660

2) TYPE OF VARIANCE: Manifest, Transportation, Storage and Disposal

New Revoke/
Reissue Previous Variance #: _____

3) DATE ISSUED: June 7, 1995 EXPIRATION DATE: June 7, 2000

4) Other Applicable Statutes and Regulations. The hazardous waste that is the subject of this variance is fully regulated under HSC, Section 25100, et seq. and Title 22 of the California Code of Regulations Division 4 except as specifically identified in Section II of this variance.

This variance may be modified or revoked at any time by DTSC pursuant to HSC Section 25143(d).

DTSC hereby grants a variance solely from the requirements specified herein in accordance with all terms and conditions specified herein.

Watson Gin, Chief
Permitting Division
Hazardous Waste Management Program



I. FINDINGS/DETERMINATIONS

1.1 DTSC has determined that the variance applicant meets the requirements set forth in HSC Section 25143 for a variance from specific regulatory requirements as outlined in section II of this variance. The specific findings and determinations made by DTSC are as follows:

1.1.1 Caltrans intends to excavate, stockpile, transport, bury and cover large volumes of soil associated with safety and congestion relief highway construction projects throughout the State. Much of this soil is contaminated with lead, primarily due to historic emissions from automobile exhausts. In the more urbanized highway corridors, the uppermost two feet have been found to be a hazardous waste. However, DTSC has prepared a risk assessment that shows that soil contaminated with low concentrations of lead can be managed in a way that presents no significant risk to human health and the environment.

1.1.2 The lead-contaminated soils will be placed only in Caltrans rights-of-way. Based on concentration levels, the wastes will be covered with a minimum thickness of one (1) foot of clean soil or asphalt cover and always be two (2) feet above the highest groundwater elevation. Caltrans will assure that proper health and safety procedures will be followed for workers. This includes any persons engaged in maintenance work in areas where the waste has been buried and covered.

1.2 DTSC finds and requires that the hazardous waste excavated, stockpiled, transported, buried and covered is a non-RCRA hazardous waste, and that the hazardous waste management activity is insignificant as a potential hazard to human health and safety and the environment.

II. PROVISIONS SUBJECT TO VARIANCE

2.1 DTSC, subject to all terms and conditions herein waives the following requirements for the following specific hazardous waste management requirements of Title 22, California Code of Regulations, sections 66264.250 through 66264.259, 22 CCR 66268.1 through 66268.9, 22 CCR 66262.20, 22 CCR 66262.30 through 66262.34, 22 CCR 66262.40 through 66262.42, 22 CCR 66263.10 through 66263.18 and 22 CCR 66263.20 through 66263.23 for the generation, transportation, storage and land disposal of hazardous waste provided all other requirements of this variance are complied with at Caltrans construction projects in Caltrans District 4.

III. SPECIFICATIONS OF THE CONDITIONS, LIMITATIONS, OR OTHER REQUIREMENTS

3.1 The owner/operator shall be subject to the following conditions (based on the attached October 6, 1994 memorandum):

a) Caltrans shall manage all lead-contaminated soil with contaminant concentrations such that it is considered a hazardous waste as described in HSC 25117 and 22 CCR Chapter 11 as hazardous waste unless the contaminant concentrations and management practices meet the following conditions:

1. Soils containing 500 ^{ppb} ug/l extractible lead or less (based on a modified waste extraction test using deionized water as the extractant) and 1575 mg/kg or less total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of two (2) feet above the maximum water table elevation and covered with at least one (1) foot of clean soil.

2. Soils containing more than 500 ug/l and less than 50 mg/l extractible lead (based on a modified waste extraction test using deionized water as the extractant) or more than 1575 mg/kg total lead but less than 4150 mg/kg total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of two (2) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

3. Contaminated soils with a pH < 5.0 shall only be used as fill material under the paved portion of the roadway.

If the waste meets the above criteria, it is discussed as "lead-contaminated soil(s)" in this variance.

b) Caltrans will implement appropriate health and safety procedures to protect its employees and the public, and to prevent or minimize exposure to potentially hazardous substances. A project-specific health and safety plan must be prepared and implemented. The plan must contain elements of a site safety plan listed in Title 8, California Code of Regulations, Section 5192 (b)(4)(B) or found in the Occupational Safety and Health Guidance Manual published by NIOSH, OSHA, and USEPA. The monitoring and exposure standards must be based on Construction Standards CCR 1532.1.

- c) All lead-contaminated soils that cannot be buried and covered within a Caltrans project shall be managed as a hazardous waste.
- d) Lead-contaminated soil will not be moved outside the specified corridor boundaries (see r).
- e) The lead-contaminated soils shall not be buried in areas where they will be in contact with groundwater, surface water, or plants.
- f) Lead-contaminated soils shall be buried and covered only in locations that are protected from erosion and storm water run-on and run-off.
- g) The lead-contaminated soils shall be buried and covered in manner that will prevent accidental or deliberate breach of the asphalt, concrete, and/or cover soil.
- h) The presence of lead-contaminated soil will be incorporated into the projects' as-built drawings. The as-built drawings shall be annotated with the location, concentration, and volume of lead-contaminated soils. The as-built drawings shall also state the depth of the cover. These as-built drawings shall be retained by Caltrans until their rights-of-way or property ownership are relinquished.
- i) Caltrans shall ensure that no other wastes, other than the lead-contaminated soils, are placed in the burial areas.
- j) Lead-contaminated soils shall not be buried within ten (10) feet of culverts or locations subject to frequent worker exposure.
- k) Excavated lead-contaminated soils not placed into the designated area (fill area, roadbed area) by the end of the working day shall be stockpiled and covered with sheets of polyethylene or at least one foot of clean soil. The lead-contaminated soils shall be protected from surface water run-on until buried and covered to prevent potential migration of contamination due to storm water or wind dispersal. The stockpile covers shall be inspected at least once a week and within 24 hours after rainstorms.
- l) Caltrans shall ensure that all stockpiling of lead-contaminated soils remains within the specified corridor. Stockpiling of lead-contaminated soil outside the area of contamination is in direct violation of land disposal restrictions and is prohibited.

m) Caltrans shall conduct confirmatory sampling of any stockpile area after removal of the lead-contaminated soil to ensure that contamination has not been left behind or has not migrated from the stockpiled material to the surrounding soils. Caltrans shall ensure that test results are kept with Caltrans project records located at the pertinent District office or a subsequent permanent location and are available to DTSC upon request.

n) Caltrans shall stockpile lead-contaminated soil only on high ground (i.e. no sump areas or low points) which will not be affected by surface water run-on or run-off.

o) Caltrans shall not stockpile soil in an environmentally sensitive area.

p) Caltrans shall ensure that run-off which has come into contact with stockpiled lead-contaminated soils will not flow to storm drains, inlets, or waters of the state.

q) Caltrans may move lead-contaminated soil from one Caltrans project to another Caltrans project as long as the lead-contaminated soil remains within the Caltrans designated corridor. Caltrans shall record this movement of lead-contaminated soil by using a bill of lading. The bill of lading must contain 1) US DOT description including shipping name, hazard class and id number, 2) handling codes, 3) quantity of material, 4) volume of material and, 5) any specific handling instructions. The bill of lading shall be referenced in and kept on file with the project as-built drawings. During transportation on the traveled way lead-contaminated soil must be kept covered.

r) For each specific corridor where this variance is to be implemented, all of the following information will be submitted in writing to DTSC at least five (5) days before construction begins:

1. a plan drawing designating the limits of the corridor where lead-contaminated soils will be excavated, stockpiled, buried and covered;
2. a list of the Caltrans projects that the corridor encompasses;
3. a list of Caltrans contractors for each project that will be conducting any phase of work affected by this variance;
4. duration of corridor construction;
5. location where sampling and analytical data used to make lead concentration level determinations are kept (e.g. a particular Caltrans project file);
6. name of project resident engineer;

7. location where Caltrans and contractor health and safety records are kept;
8. location of project specifications (including drawing page number) for soil excavation, transportation, stockpile, burial and placement of cover material;
9. location of project drawings (including drawing page number) for soil excavation, burial and placement of cover in plan and cross section (For example, "The project plans are located at the resident engineer's office located at 5th and Normandy Streets, City of Los Angeles, . See pages xxxxx of contract xxxx");
10. if a Caltrans project within the corridor is added, changed or deleted, Caltrans must update the information provided to DTSC five (5) days before construction begins; and
11. Type of environmental document for each project, date of adoption and where the document is available for review.

s) Changes in location of lead-contaminated soil placement, quantities or protection measures (field changes) will be noted in the resident engineer's project log within five (5) days of the field change.

t) Caltrans shall ensure that field changes are in compliance with the requirements of this variance.

u) If areas covered by the terms of this variance are sold, relinquished or abandoned (including roadways), all future property owners shall be notified in writing in advance by Caltrans of the requirements of this variance. A copy of such a notice shall be sent to DTSC and contain the corridor location and project. Future property owners will be subject to the same requirements as Caltrans. DTSC retains the right to revise, suspend or revoke this variance pursuant to HSC 25143 upon a change of ownership or at any other time.

v) For the purposes of informing the public about instances where the variance is implemented, Caltrans shall:

1. Maintain current fact sheets at all Caltrans resident engineer and appropriate District offices. Caltrans shall make the fact sheets available to anyone expressing an interest in variance-related work.
2. Maintain a binder(s) containing copies of all reports submitted to DTSC (see paragraph 3.1 (r) above) at each appropriate District office. Caltrans shall ensure that the binders are readily accessible to the public.

3. As additional projects are identified:
 - (a) Notify the public via a display advertisement in a newspaper of general circulation in that area.
 - (b) Update and distribute the fact sheet to DTSC's mailing list and repository locations.
4. Notify the City of Cerritos whenever lead-contaminated soil is utilized by Caltrans within the City limits. The notification must include the location of buried lead-contaminated soil.

w) Caltrans implementation of this variance shall comply with all applicable state policies for water quality control, water quality control plans, waste discharge requirements (including stormwater permits), and others issued by the State Water Resources Control Board or a California Regional Water Quality Control Board.

x) This variance is only applicable to soil considered hazardous because of lead contamination. The variance is not applicable to any other hazardous waste.

y) Lead-contaminated soil may only be buried in areas that access is controlled by a fence or where lead-contaminated soil is covered and contained by a pavement structure.

z) Dust containing lead-contaminated soil must be controlled. Water or dust palliative may be applied to control dust. If visible dust migration occurs, all excavation, stockpile and truck loading and burying must be stopped. The granting of this variance confers Caltrans no relief from compliance with the laws and regulations or requirements from any local air district or the California Air Resources Board.

aa) Sampling and analysis is required to show the lead-contaminated soil meets the variance criteria specified in a). All sampling and analysis must be done according to USEPA SW-846.

3.2 All correspondence shall be directed to the following DTSC office:

Watson Gin, Chief
Permitting Division
400 P Street, 4th Floor
PO Box 806
Sacramento, CA 95812-0806

IV. DISCLAIMER

4.1 The issuance of this variance does not relieve Caltrans of the responsibility for compliance with Division 20, Chapter 6.5, HSC or the regulations adopted thereunder, or any other laws and regulations other than those specifically identified in section II of this variance and subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with other federal, state or local requirements other than specifically provided herein.

4.2 The issuance of this variance does not release Caltrans from any liability associated with the handling of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

V. VARIANCE REVOCATION

5.1 This variance is subject to review at the discretion of DTSC and may be revoked by DTSC at any time pursuant to Health and Safety Code section 25143.

VI. CEQA DETERMINATION

6.1 Negative Declaration adopted on June 7, 1995.

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
SONOMA		
Son - 1	Petaluma Valley Ford Road to Mendocino County Line	Construct turnouts
Son - 1	Miller Creek	Repair slip
Son - 1	Sebastopol Laguna De Santa Rosa Br. to Eland Road	Widen
Son - 12	Santa Rosa Brush Creek Road	Realign
Son - 12	Melita Road to Sonora Creek Bridge	Widen
Son - 12	Santa Rosa Melita Road to Oakmont Drive	Widen
Son - 12	Santa Rosa Oakmont Drive to Sonoma Creek	Widen and channelize
Son - 12	Sonoma Creek to Libby Avenue	Rehab., widen, channelize
Son - 12	Aqua Caliente at Depot Rd., Mountain Ave., Keaton Ave.	Modify intersection and install signals
Son - 101	Petaluma Rainier Ave.	Construct interchange and lanes
Son - 101	Rohnert Park Exp. Redwood Dr. to Commerce Blvd.	Widen, construct on-ramp, modify signals
Son - 101	Rohnert Park Wilfred Ave. to Santa Rosa Avenue	Widen, HOV lanes, reconstruct interchange
Son - 101	Santa Rosa Wilfred Ave. to Route 12	HOV lanes
Son - 101	Santa Rosa Hearn Ave. to Route 12	HOV lanes
Son - 101	Mark West Spring, River Road	Widen ramp, install signals
Son - 101	Fulton Road to Shiloh Road	Install barrier
Son - 101	Healdsburg Russian River Bridge	Replace bridge
Son - 116	Sebastopol Occidental Rd. to Hurlbut Ave.	Widen
Son - 116	Sebastopol Old Gravenstein Hwy.	Widen
Son - 116	Stony Point Road	Widen, signalize, realign
Son - 121	Schellville Rte. 37 to Tolay Creek Bridge	Roadway reconstruction
Son - 128	Napa 128 Macaama Creek Bridge to Napa County Line	Roadway rehabilitation

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
ALAMEDA		
Ala- 61	In Oakland, near Airport Access Road to Hegenberger Road	Construct undercrossing; modify 2 intersections
Ala- 80	Near Ashby Ave. to just south of University Ave.	Soundwall (east side)
Ala- 80	From Ashby Ave. to the north city limits of Berkeley	Add lanes; interchange improvements
Ala- 80	I-80/ I-580/ Buchanan St. interchange	Add HOV lane
Ala- 80	Near Gilman St. undercrossing to Alameda/ Contra Costa Co. line and	HOV lane, bike path, reconstruct interchange
Ala- 580	from 80/ 580 separation to south of Alameda/ Contra Costa Co. line	" " "
CC- 80	" " "	" " "
Ala- 80	From 0.6 mile south of the Contra Costa Co. line to the Co. line	Soundwall
Ala- 84	Near Livermore, from 0.8 - 1.9 mile east of Rte.680	Modify curve and widening
Ala- 84	From Isabel Ave. to Airway Blvd.	Construct 2-lane highway
Ala- 84	From North Mines Road to Southfront Road	Relocate Southfront Road intersection
Ala- 92	San Mateo- Hayward Bridge and east approach	Widen to 6 lanes
Ala- 92	From Clawiter Road to just west of the toll plaza	Widen median, add barrier
Ala- 92	From just east of the toll plaza to Calaroga Ave. overcrossing	Install median barrier
Ala- 92	From Hesperian Blvd. to Santa Clara Street	Soundwalls along portions
Ala- 205	Near Tracy, from 580/205 to old US 50 overcrossing	Widen 4 lane to 6 lane
Ala- 238	At the Route 680/238 Separation	Construct bus pullout and ped access
Ala- 238	From Decoto Road to Industrial Parkway	Widen from 4-6 lanes
Ala- 238	From Industrial Parkway to Harder Road	Construct new 4 lane road
Ala- 580	At North Greenville Road interchange	Modify interchange
Ala- 580	At Route 580 and First Street interchange	Modify interchange
Ala- 580	At North Livermore Ave. interchange	Improve interchange

[Note: Identified are the project locations where Caltrans may reuse soils containing low levels of lead. See the February 1995 Calif. Department of Toxic Substances Control-Caltrans Variance Fact Sheet. Contact Carol Northrup- (510) 540-3928.]

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
Ala- 580	From Airway Blvd. interchange to Portola Ave. interchange	Construct new interchange
Ala- 580	At El Charro Road interchange	Modify interchange
Ala- 580	Route 580/680 interchange	Construct southbound 680 to eastbound 580 connector
Ala- 580	" . . .	Reconstruct southbound 580 to eastbound 680 connector
Ala- 580	From Santa Rita Road overcrossing to Tassajara Creek Bridge	Widening
Ala- 580	In Rancho Palomares	Construct undercrossing
Ala- 580	From Park Blvd. to Lakeshore Ave.	Soundwalls
Ala- 580	At Distribution Structure	Widen bridge
Ala- 680	Near Washington Blvd. overcrossing	Construct service road
Ala- 680	At Route 680 southbound offramp with Washington Blvd.	Modify roadway; install signals
Ala- 680	At the Mission Grade weigh station	Upgrade weigh station
Ala- 680	At the Bernal Ave. interchange	Park and Ride facility
Ala- 880	From Route 237 in Santa Clara Co. to Route 262 in Alameda Co.	Widen to 8 lanes and modify Mission Blvd. interchange
Ala- 880	From Santa Clara Co. line to Mission Blvd.	Widen from 6 to 8 lanes for HOV
Ala- 880	At Stevenson Blvd. interchange	Reconstruct interchange
Ala- 880	From Route 262 to the Alvarado-Niles interchange	Widen 6-8 lanes for HOV
Ala- 880	Fremont Blvd. interchange	Reconstruct interchange
Ala- 880	In Fremont near existing truck scale station	Install high speed weigh station bypass system
Ala- 880	At the Mowry Ave. interchange	Reconstruct interchange
Ala- 880	From Mowry Ave. to Alvarado-Niles Road	Widen 6-8 lanes for HOV

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
Ala- 880	At the Thornton Ave. interchange	Reconstruct interchange
Ala- 880	Between Mowry Ave. and Decoto Road	Widen 6-8 lanes for HOV
Ala- 880	From Decoto Road to Alvarado-Niles Road	Widening
Ala- 880	At Alvarado/Fremont Blvd. interchange	Modify interchange
Ala- 880	At the Alvarado-Niles Road interchange	Modify interchange
Ala- 880	At the Route 880/92 interchange	Modify interchange
Ala- 880	Around the 98th Ave. interchange	Reconstruct interchange, add aux. lanes and soundwalls
Ala- 880	Near Hegenberger Road	Soundwalls
Ala- 880	Hegenberger Road interchange	Modify interchange
Ala- 880	At 16th Ave. overcrossing	Retrofit/ replace structure
Ala- 880	At 5th and 6th Street viaduct	Seismic retrofit
Ala- 880	Mandela Parkway extension- 32nd St. to Hollis Street	Extend city street
CONTRA COSTA		
CC- 4	From Route 80/Route 4 interchange to Cummings Skyway/Route 4 interchange	Upgrade highway, construct interchange
CC- 4	From around Franklin Equipment undercrossing to Grayson Creek Bridge	Install 3-beam median barrier
CC- 4	From near Port Chicago highway interchange to east of Baily Road undercrossing	BART extension
CC- 4	From east of Bailey Road to east of Railroad Ave.	Widen freeway
CC- 4	From near Standard Oil Ave. undercrossing to just east of Somersville Road	Modify offramps
CC- 4	Cavallo Road to Hillcrest Ave.	Widen and modify interchange
CC- 24	Camino Pablo-Brookwood Road interchange	Widen eastbound offramp
CC- 24	From Camino Pablo to Stevens Street	Construct bike path
CC- 24	At Deer Hill Road	Interchange modification

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
CC- 80	Central Ave. to MacDonald Ave	Widen
CC- 80	From Alameda Co. line to east of Route 4	Create wetland, soundwalls
CC- 80	Cutting Blvd.	Construct westbound onramp
CC- 80	From MacDonald Ave. to east of San Pablo Dam Road	Widen lanes, shoulders, soundwalls
CC- 80	East of San Pablo Dam Road to east of Hilltop Drive	Add HOV lanes
CC- 80	East of San Pablo Dam Road to east of El Portal Drive	Soundwalls and landscape
CC- 80	Around Pinole Valley Road	Widen lands, soundwalls
CC- 80	Pinole Valley Road to Route 80/4 separation	Add HOV lanes
CC- 80	Willow Ave. undercrossing	Widen
CC- 242	Between I-680 and Route 4	Inside widening
CC- 242	Grant Street to Olivera Road	Soundwalls
CC- 242	From Concord Ave. to Grant Street	Modify interchange, auxiliary lanes
CC- 242	From Concord Ave. to Olivera Road	Soundwalls
CC- 680	Bollinger Road interchange	Park and Ride lot
CC- 680	Sycamore Valley Road interchange	Park and Ride lot
CC- 680	Stone Valley Road undercrossing	Modify ramps
CC- 680	Rudgear Road	Modify interchange
CC- 680	From Rudgear Road to Ygnacio Valley Road	Construct bike path
CC- 680	From Rudgear Road to Monument Blvd.	Construct bike path
CC- 680	From south Main Street to Geary Road; I-680/Route 24 interchange	Reconstruct 680/24 interchange and local interchanges
CC- 680	Oakvale Road to Ygnacio Valley Road	Relocate offramp
CC- 680	Monument Blvd. to Willow Pass; Route 242 from Route 680	Widen, modify interchange
CC- 680	From Route 242 to Marina Vista Drive	Construct HOV lanes
CC- 680	Benecia-Martinez Bridge- Marina Vista interchange	Construct interchange; approach

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
CC- 680	Benecia-Martinez Bridge toll plaza	Improvements
NAPA		
Nap- 12	East of Route 29	Construct left turn lane
Nap- 29	Trancas Street	Construct interchange
Nap- 29	Oakville Road to Mee Lane	Widen
Nap- 121	From Inola Ave. to Silverado Trail	Widen; channelization
Nap- 121	Soscol Ave. to Trancas Street	Widen and reconstruct
SAN MATEO		
SM - 1	Second Street at Montara to Linda Mar Blvd.	Grade; surface; and drainage
SM - 1	San Pedro Ave. to Linda Mar Blvd.	Construct roadway
SM - 82	At Whipple Ave.	Rail grade separation
SM - 82	At Ralston Ave.	Rail grade separation
SM - 82	Arroyo Dr. to Hickey Blvd.; Millbrae Ave. to Rte 380; Rte82 to 101	BART extension
SM - 82	Hickey Blvd. to Mission Road	New road and retaining wall
SM - 84	Old La Honda Road	Repair detour
SM - 84	Dumbarton Bridge approach and west connection	Widen road
SM - 92	Route 1 to proposed Foothill Blvd.	Widen
SM - 92	Pilarcitos Creek to Route 35	Safety improvements
SM - 92	Route 35 to Route 280	Safety improvements
SM - 101	University Ave. overcrossing	Modify and widen interchange
SM - 101	Willow Road interchange	Reconstruct
SM - 101	Laurel Ave.	Soundwall and median repair
SM - 101	Route 101/ Marsh Road interchange	Modify
SM - 101	Brittan Ave.	Construct southbound ramps
SM - 101	Harbor Blvd. southbound ramp	Soundwall
SM - 101	Ralston Ave. interchange	Modify

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
SM - 101	From Route 92 to east 3rd Ave.	Widen; soundwalls
SM - 101	Kehoe Ave. to 3rd Ave.	Soundwalls
SM - 101	3rd Ave. overcrossing	Widen and modify
SM - 101	Broadway interchange	Reconstruct
SM - 280	Hillcrest Blvd. to Larkspur Drive	Soundwall on east side
SM - 280	Eastmoor Ave. offramp to Sullivan Blvd. (southbound)	Reconstruct and widen
SANTA CLARA		
Scl - F5937	Between Route 280 and 237	Construct commuter lanes
Scl - 17	Old Santa Cruz Highway to Montevina-Alma Bridge Road	Construct overcrossing
Scl - 17	Campbell at Mozart Avenue	Construct pedestrian overcrossing
Scl - 82	Lawrence Exp. at El Camino Real Overcrossing	Widen pedestrian overcrossing
Scl - 85	The Dalles to Terra Bella Ave.	Soundwalls
Scl - 85	North of Route 237 to Route 101	Construct additional lanes
Scl - 87	Coleman to north of Mission Street	Construct interchange
Scl - 87	Julian Street to Route 101	Widen and construct interchange
Scl - 87	North of Mission Street to North of 87/I-880 separation	Widen, construct overcrossing
Scl - 87	North of 87/I-880 separation to north of Skyport Drive	Widen and construct interchange
Scl - 101	Bailey Avenue	Construct interchange
Scl - 101	San Jose at Bernal Road	Widen on-ramp
Scl - 101	Tenant Ave. to Silver Creek	Soundwalls
Scl - 101	San Jose at Taylor St./Mabury Rd. south of Junction Rte. 880	Construct interchange
Scl - 101	Various locations from Guadalupe River to Moffett Blvd.	Widening

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
Scl - 101	Route 101/Lawrence Exp. interchange	Modify interchange and widen overcrossing
Scl - 101	Mountain View from Moffett Blvd. to Old Middlefield Road	Modify ramps and lanes
Scl - 101	From Moffett Blvd. to San Mateo County line	HOV lanes
Scl - 101	Gilroy east . 9 miles	Widen interchange
Scl - 101	East Mountain View Overhead to 237/101 separation	Construct 4 lanes and interchange
Scl - 237	Great America Parkway to Sunnyvale Baylands Park	Construct bike lane
Scl - 237	Lafayette Street to North First Street	Construct bike lane and ramps
Scl - 237	West of Coyote Creek to Rte. 880, Rte. 880 at Rte. 237	Modify interchange
Scl - 237	Coyote Creek to Rte. 880, Rte. 880/237/I-7	Modify interchange
Scl - 280	Kelly Park, Coyote Park, 10th Street	Widen
Scl - 280	Lawrence Expressway	Widen on-ramp
Scl - 280	Page Mill Road	Widen
Scl - 680	Berryessa Road	Signal installation, ramp modifications
Scl - 680	San Jose, Berryessa Road to Ramish Drive	Soundwall
Scl - 680	Milpitas Jacklin Road	Modify off-ramp
Scl - 880	Stevens Creek Blvd. to Bascom Avenue	Widen roadway, soundwall
Scl - 880	Old Bayshore Blvd. to Rte. 237	Widen roadway, HOV lanes
Scl - 880	Milpitas along Tasman Dr. east of Rte. 880	Construct light rail viaduct
Scl - 880	In Milpitas around Rte. 237	Realign and widen roadway
Scl - 880	Milpitas and Fremont Ala 880 at Dixon Landing Road interchange	Construct/reconstruct overcrossing/interchange
SANTA CRUZ		
Scr - 1	Rio Del Mar Blvd.	Widen and signalize off-ramps
Scr - 1	Aptos Mar Vista Rive to Max Vista Drive	Soundwall

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
SONOMA		
Son - 1	Petaluma Valley Ford Road to Mendocino County Line	Construct turnouts
Son - 1	Miller Creek	Repair slip
Son - 1	Sebastopol Laguna De Santa Rosa Br. to Eland Road	Widen
Son - 12	Santa Rosa Brush Creek Road	Realign
Son - 12	Melita Road to Sonora Creek Bridge	Widen
Son - 12	Santa Rosa Melita Road to Oakmont Drive	Widen
Son - 12	Santa Rosa Oakmont Drive to Sonoma Creek	Widen and channelize
Son - 12	Sonoma Creek to Libby Avenue	Rehab., widen, channelize
Son - 12	Aqua Caliente at Depot Rd., Mountain Ave., Keaton Ave.	Modify intersection and install signals
Son - 101	Petaluma Rainier Ave.	Construct interchange and lanes
Son - 101	Rohnert Park Exp. Redwood Dr. to Commerce Blvd.	Widen, construct on-ramp, modify signals
Son - 101	Rohnert Park Wilfred Ave. to Santa Rosa Avenue	Widen, HOV lanes, reconstruct interchange
Son - 101	Santa Rosa Wilfred Ave. to Route 12	HOV lanes
Son - 101	Santa Rosa Hearn Ave. to Route 12	HOV lanes
Son - 101	Mark West Spring, River Road	Widen ramp, install signals
Son - 101	Fulton Road to Shiloh Road	Install barrier
Son - 101	Healdsburg Russian River Bridge	Replace bridge
Son - 116	Sebastopol Occidental Rd. to Hurlbut Ave.	Widen
Son - 116	Sebastopol Old Gravenstein Hwy.	Widen
Son - 116	Stony Point Road	Widen, signalize, realign
Son - 121	Schellville Rte. 37 to Tolay Creek Bridge	Roadway reconstruction
Son - 128	Napa 128 Macaama Creek Bridge to Napa County Line	Roadway rehabilitation

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
LOS ANGELES		
LA - 1	Oxnard, Pleasant Valley Road Interchange	Modify interchange
LA - 5	Rte 118 to Rte 14	Add HOV lanes
LA - 5	Orr and Day Road to Florence Avenue	Soundwall
LA - 5	Rte 134 to Rte 170	Add HOV lanes
LA - 10	Rte 605 to Puente Ave.	Add HOV lanes
LA - 10	Citrus to Rte 57	Add HOV lanes
LA - 10	Puente to Citrus	Add HOV lanes
LA - 10	Rte 57 to San Bernardino County Line	Add HOV lanes
LA - 14	Sand Canyon to Escondido	Add HOV lanes
LA - 30	Sunflower to Foothill Blvd.	Add HOV lanes
LA - 57	Orange County Line to Rte 60	Add HOV lanes
LA - 60	Rte 605 to Brea Canyon	Add HOV lanes
LA - 60	Brea Canyon to Rte 57	Add HOV lanes
LA - 60	Rte 57 to San Bernardino County Line	Add HOV lanes
LA - 101	Radford to Tujunga Wash	Soundwall
LA - 101	Reyes Adobe Road to Lindero Canyon Road	Soundwall
LA - 105	Nash Street to Douglas Street	On-ramp
LA - 113	Ventura County Line to Rte 5	Add HOV lanes
LA - 126	Ventura County Line to Rte 5	Widen to 4 lanes
LA - 126	Valencia Avenue to Bouquet Canyon Road	Widen to 4 lanes
LA - 134	Rte 2 to Rte 210	Add HOV lanes
LA - 170	101/34 to Rte 5	Add HOV lanes
LA - 405	Rte 710 to Rte 110	Add HOV lanes
LA - 405	Orange County Line to Rte 710	Add HOV lanes
LA - 405	Orange County Line to Rte 710	Add HOV lanes
LA - 605	Orange County Line to South Street	Add HOV lanes

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
RIVERSIDE		
Riv- 60	From the San Bernardino County Line to Redlands Blvd. in Moreno Valley	Add HOV lanes
Riv- 71	Chino Hills from the San Bernardino Line to Jct of RTE 91 near Corona	Relocate and widen to fwy
Riv- 74	Elsinor, Jct Rte 15 to Perris, Seventh Street	Widen from 2-4 lanes
Riv- 91	In Riverside from Magnolia Ave to Mary Street	Add HOV lanes
Riv- 215	Route 91 Interchange in Riverside to East Junction Rte 91 near Moreno Valley	Add HOV lanes/ construct 2 branch connectors
SAN BERNARDINO		
SBd- 10	From the LA County Line in Claremont to Junction of Rte 15 in Ontario	Add HOV lanes
SBd- 60	LA County Line in Pomona to Junction of Rte 15 in Ontario	Add HOV lanes
SBd- 71	LA County Line near Pomona to Riverside County Line in Chino Hills	Convert to 4 lane fwy with 2 HOV lanes
SBd- 215	Junction of Rte 10 in Colton to Junction Rte 30 in San Bernardino	Add HOV lanes

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
SAN DIEGO		
SD - 5	Border to Orange County	Add lanes and HOV lanes
SD - 8	San Diego County Line to W. Willows Road, Alpine	Add lanes
SD - 15	San Diego Junction 5 to Escondido Junction 78	Add HOV, Truck lanes, revise interchange
SD - 52	San Diego Junction 5 to San Diego Junction 15	Add lanes
SD - 67	El Cajon Junction Rte 8 to Pala St. Ramona	Add lanes
SD - 78	San Diego Junction 5 to Wild Animal Park	Add lanes, realign
SD - 94	San Diego Junction 5 to Junction 54, Jamacha Blvd.	Add lanes, realign
SD - 125	La Mesa Junction 94 to Junction Rte 8	Widen
SD - 163	San Diego Rte 5 to Junction Rte 15	Widen
SD - 805	San Diego Junction Rte 5 to San Diego Junction Rte 5	Add HOV lanes and modify Interchange

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
ORANGE		
Ora - 1	In Dana Point at Aliso Creek Bridge	Widen roadway
Ora - 1	In Huntington Beach near Huntington Street	Construct pedestrian overcrossing
Ora - 1	In Dana Point from Copper Lantern to San Juan Creek Bridge	Widen roadway
Ora - 5	From Route 22 to Route 91	Widen and reconstruct freeway; add HOV lanes
Ora - 5	I-5/55 Interchange	Reconstruct interchange
Ora - 5	Rte 55 to Route 22 in Santa Ana	Widen freeway, add HOV lanes
Ora - 5	The I-5/ I-405 Interchange	Reconstruct interchange
Ora - 5	The I-5/ Route 55 Interchange	Reconstruct interchange
Ora - 5	From Route 55 to Route 22	Reconstruct interchange
Ora - 5	From Route 1 to El Toro Road	Widen and reconstruct freeway; add HOV lanes
Ora - 5	The I-5/ Route 22/ Route 57 Interchange	Reconstruct interchange
Ora - 22	Valley View St., Springdale St., Beach Blvd., Yockey St.	Soundwalls
Ora - 22	Westbound Rte 22 near Magnolia, Northbound Rte 57 near Yorba Linda	Install changeable message sign
Ora - 39	North of Rosecrans, Imperial Hwy., Lincoln Ave., Route 91	Widen roadway
Ora - 55	North of Paularino Ave., North of Dyer Road	Add lane
Ora - 55	Santa Ana at Alton Ave.	Construct overcrossing and HOV access ramps
Ora - 55	Santa Ana at Edinger Ave.	Widen roadway and reconstruct northbound ramps
Ora - 55	Route 22 to Chapman Ave.	Relocate northbound off-ramp to eastbound Chapman

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
Ora - 55	Route 1/Route 55 separation	Reconstruct Route 1/55 separation and interchange
Ora - 55	From 17th St to Route 91 Fwy	Add HOV and auxiliary lanes and reconstruct ramps
Ora - 57	Route 73 to end of Route 57	Construct viaduct expressway
Ora - 57	Northbound Lincoln, Lambert, southbound Ball, Brea Canyon	Widen northbound and southbound on-ramps
Ora - 57	From Brea, Lambert Road to LA County Line	HOV lanes
Ora - 57	North of Lambert Road Undercrossing	Repair slopes
Ora - 57	Fullerton from north of Yorba Linda to south of Rolling Hills	Soundwalls
Ora - 73	San Juan Capistrano, Route 5/73	Construct interchange
Ora - 73	Route 73 from I-5 in San Juan Capistrano to Jamboree Rd., Newport Beach	Construct corridor
Ora - 73	Newport Beach, from Rte. 1 to north of SJ Hills Road	Widen and realign
Ora - 73	Newport Beach, Rte. 1 from north of SJ Hills Road to Ford Road	Widen and realign
Ora - 73	Irvine, from Ford Road to Bison Avenue	Widen and realign
Ora - 73	Irvine, from Bison Avenue to San Diego Creek Bridge	Widen and realign
Ora - 73	Newport Beach at Birch Street Overcrossing	Widen overcrossing
Ora - 73	From Birch Street in Newport Beach to Route 405	Widen and add HOV lanes
Ora - 74	West of Orange/Riverside County Line	Widen roadway
Ora - 90	From LA County Line to Santa Ana Canyon Road	Widen roadway to 6 lanes
Ora - 91	Anaheim, from Harbor to State College	HOV lanes
Ora - 91	At 91/57 interchange and from State College to La Palma	HOV lanes and connectors
Ora - 91	Anaheim on Weir Canyon Road from SA Canyon Road to SA River	Widen
Ora - 91	Buena Park from LA County Line to Stanton Ave.	HOV lanes
Ora - 91	Anaheim from Gilbert to Harbor	HOV lanes
Ora - 91	Anaheim at Acacia St. Undercrossing and from Placentia to Sunkist	Soundwalls
Ora - 91	Buena Park, Fullerton, and Anaheim at various locations	Soundwalls

COUNTY & ROUTES	CALTRANS PROJECT LOCATION	PROJECT ACTIVITY
Ora - 133	From south of I - 5 to North of Irvine Blvd.	Eastern Transportation Corridor
Ora - 133	From El Toro Toad to I - 405	Widen and realign
Ora - 231	Handy Creek Road	Eastern Transportation Corridor
Ora - 241	From I - 5 to Route 231	Foothill Transportation Corridor
Ora - 405	Irvine at MacArthur Blvd. overcrossing	Widen overcrossing
Ora - 405	Costa Mesa at Bristol St./55 Separation	Widen ramps and merge with connectors
Ora - 405	Costa Mesa at Avenue of the Arts	Construct northbound off-ramp
Ora - 405	Costa Mesa at Alton Blvd.	Construct northbound on-ramp
Ora - 405	Irvine from Laguna Canyon Road to Culver Drive	Install concrete median barrier
Ora - 405	Irvine from Jeffrey Road to Culver Drive	Add lane, widen ramp
Ora - 405	Irvine at Yale Avenue pedestrian overcrossing	Widen overcrossing
Ora - 405	McFadden Avenue overcrossing	Widen overcrossing
Ora - 405	Seal Beach at Seal Beach Blvd.	Soundwall
Ora - 405	Irvine at Jamboree Road overcrossing	Widen overcrossing and modify ramps
Ora - 405	Route 405/55 interchange	Construct HOV connectors and access ramps
Ora - 405	Costa Mesa, from 73 to Bear Street	Widen ramps, reconstruct lane and shoulder

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July 1, 1996

Mr. Dale Klettke
Hazardous Materials Specialist
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

RE: San Francisco-Oakland Bay Bridge Seismic Retrofit, East Bay Approach

Dear Mr. Klettke:

This letter is in response to your letter of June 17, 1996, addressed to Daniel Murphy of this office.

It is my understanding, based upon our meeting at your office yesterday, that sufficient information has been provided to you at this point to satisfy your immediate concerns with respect to the information that has been previously requested by your office relating to soil and groundwater contamination encountered at the project site for the above-referenced project.

If you are in need of any additional material, you will contact Mr. Jit Pandher directly. I would request that you copy me with any written requests for additional material.

Additionally, as I advised you, although it is the Department's formal legal position that fees, including oversight fees, are not assessable against the Department pursuant to the provisions of California Government Code § 6103, in this instance, the Department will agree to provide payment to the County for oversight costs relating to the underground storage tank contamination. This is being done with respect to this site only; the Department may assert its exemption from payment of fees with respect to other sites encountered in the future.

I would like to note some concerns that I raised in our meeting.

First, in your letter of June 17th, you noted that you had submitted previous correspondence to the Department requesting information relating to the contamination and that such information had not yet been provided. You proceeded to assert


Mr. Dale Klettke
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that the Department could be subject to a penalty pursuant to the provisions of Health and Safety Code §§ 25189 and 25189.2 for failure to provide this requested information. However, when you had previously requested the information, you had asserted that the information was being requested pursuant to the provisions of § 13267 of the California Water Code. These code provisions are not connected and any enforcement acts must be connected with the basis for asserted jurisdictions; i.e., if you claim a violation of a Water Code, then enforcement action must come from within the Water Code as well, and it cannot be premised upon an unrelated enforcement provision contained within the Health and Safety Code.

Second, in some of your previous correspondence, you had noted that the County was expanding its jurisdiction to include all contamination issues related to the subject site in addition to the underground storage tank clean-up jurisdiction which had previously been asserted. However, the Department is a signatory to a Memorandum of Understanding with the State Department of Health Services (the predecessor agency to the Department of Toxic Substances Control (DTSC)) which provides for DTSC jurisdiction with respect to any contaminated sites in which the Department is involved. Additionally, there is currently an informal understanding between the Department and DTSC and the Regional Water Quality Control Board that DTSC is to be the lead for all site oversight except for sites that are predominately or exclusively involving groundwater contamination. Accordingly, there would be no basis for County jurisdiction over the subject site except for the underground storage tank contamination issues. I have enclosed a copy of the Memorandum of Understanding for your review.

Thank you for your time in meeting with us, and if you have any additional future concerns, please feel free to contact me at any time.

Very truly yours,



TONY ANZIANO
Deputy Attorney

Enclosure

TA:dkf

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cc: Jit Pandher - Dist 4 - Construction

MEMORANDUM OF UNDERSTANDING

BETWEEN CALTRANS AND DEPARTMENT OF HEALTH SERVICES REGARDING HAZARDOUS WASTE SITE CLEANUP ACTIONS

Purpose

This Memorandum of Understanding (MOU) documents the mutual understanding between the Department of Health Services (DHS) and Department of Transportation (Caltrans) as to how contaminated sites on Caltrans right-of-way property will be processed by both agencies to meet the twin goals of completing transportation projects and protecting the public health and environment.

Background

In the process of constructing transportation projects, Caltrans may acquire right-of-way which in some cases may be contaminated with hazardous wastes from previous operations on the property. If Caltrans becomes the new owner of the property prior to abatement, Caltrans may choose to expend transportation dollars to take reasonable action to identify and possibly mitigate the hazardous waste contamination if the Potentially Responsible Party (PRP) does not take timely abatement action to meet Caltrans' construction schedule.

Chapter 6.8 of Division 20 of the California Health and Safety Code (H&SC), under which this memorandum is drafted, places general responsibility with the DHS for either directly conducting site abatement actions or for overseeing abatement actions undertaken by others. DHS is also responsible for ensuring that sites are abated in conformance with the provisions of Chapter 6.8, as well as with relevant federal laws and other state laws, with an emphasis on the protection of public health and the environment. This MOU does not negate the responsibilities of either party under any other provision of state law.

For purposes of this MOU, a hazardous waste site is defined as a non-minimal threat when it meets or exceeds a site score of 15 using the federal EPA Hazard Ranking System, or otherwise is not determined to be a minimal site, based on the Minimal Hazardous Threshold Analysis process developed by DHS as stated in Management Memo 88-5, dated April 25, 1988.

This MOU consists of four sections as follows:

- Section I - Identification and abatement of Minimal Threat Sites.
- Section II - DHS procedures for omitting non-minimal threat sites from the Bond Expenditure Plan (BEP) (Superfund).
- Section III - DHS procedures for listing non-minimal threat sites in the Bond Expenditure Plan (BEP) (Superfund).
- Section IV - DHS and Caltrans abatement procedures.

SECTION I

The purpose of this section is to describe the procedures Caltrans will follow for minimal threat sites.

1. Determining Minimal Threat Sites

DHS has adopted a policy for identifying and dealing with hazardous waste sites which present only a minimal public health or environmental threat. This policy is embodied in Management Memo #88-5 entitled, "Minimum Hazard Threshold Analysis of Hazardous Waste Sites", which was adopted by DHS on April 25, 1988. DHS will provide Caltrans with training in the proper use of the federal Hazard Ranking System (HRS) and Minimum Hazardous Threshold Analysis (MHTA) processes.

During the process of evaluating land to be purchased for right-of-way, Caltrans or its qualified hazardous waste contractors will evaluate suspect hazardous waste sites using the HRS and the MHTA processes.

2. Abatement of Minimal Threat Sites

Sites which are identified by Caltrans as minimal threat sites, based on the guidance documents, may be abated directly by Caltrans without DHS involvement. Caltrans will notify DHS of the existence of such sites and that Caltrans is taking remedial action. When the action has been completed, Caltrans will report to DHS with a description of the abatement action.

Caltrans will report sites to DHS which are determined to be more than a minimal threat based on the federal and state guidances.

SECTION II

The purpose of this section is to describe a DHS alternative to listing non-minimal threat sites in the BEP.

Non-Minimal Threat Site With a Non-Listed Site Option

DHS policy is that non-minimal threat sites, those sites with HRS scores of 15 or greater or otherwise not meeting minimal site criteria, do not have to be listed in the BEP developed pursuant to H&SC sections 25334.5 and 25385.6 if two conditions are met: 1) the site is to be abated with 100% Potentially Responsible Party (PRP) funding, including advance funding for DHS hourly oversight costs of greater than 80 hours of staff time, and 2) the PRPs are not requesting DHS to formally certify that the site has been abated. Although in almost all instances Caltrans will not be a PRP by reason of H&SC section 25323.5 (b), i.e., the property acquisition has been under the power of eminent domain, Caltrans may need to proceed with site mitigation because of an impending transportation project or because an action may otherwise be required by law. Under such circumstances, Caltrans will be provided with an option not to be listed in the BEP if Caltrans is willing to: 1) fund the cleanup of the site including DHS oversight costs if DHS expends more than 80 hours of staff time on a project, and 2) forego formal certification that the cleanup action, when completed, has abated the site. However, DHS will provide written confirmation as to the adequacy of the mitigation action.

SECTION III

The purpose of this section is to describe the DHS procedure for listing non-minimal threat sites in the BEP.

1. Process for Listing Non-Minimal Threat Sites in the BEP

Non-minimal threat sites that are not abated as described in Section II may be listed in the BEP. Before new non-minimal threat sites are listed in the BEP, DHS policy requires that: 1) laboratory analysis of samples taken at suspected sites confirm the presence of hazardous substances, 2) the sites be objectively scored using the Hazard Ranking System to determine priority for remedial action, and 3) the identified PRPs be notified of DHS' intent to list and be provided an opportunity to comment on site data compiled by DHS to ensure data accuracy and the need for site abatement.

2. BEP Listing of Caltrans Sites

DHS will notify Caltrans and identified PRPs in advance of listing any non-minimal threat site in the BEP where Caltrans has acquired the property by eminent domain or has been identified as a PRP by reason of liability based upon circumstances other than ownership. Caltrans and identified PRPs will be provided with an opportunity to clarify, rebut or correct site information prepared by DHS.

3. Definition of Site Boundaries

Defined hazardous waste contaminated site boundaries are generally unknown at the beginning of the site investigation process. One of the major goals of the Remedial Investigation (RI) is to define the boundaries of the site. Boundaries are primarily established through the collection and analysis of samples, historical documentation that may provide clues regarding the location of hazardous waste, and reasonable inferences that may be drawn from both. Decisions about when to stop collecting samples to define site boundaries are essentially judgment calls and should strike a reasonable balance between the relative public health/environmental risk of failing to fully define or fully abate a specific site and the time and money involved in further investigation. In cases where site boundaries may exceed right-of-way limits for a transportation project, on properties acquired under the power of eminent domain, Caltrans may proceed with the project unless the law requires otherwise, and DHS or other identified responsible parties will take the lead in investigation of property outside the right-of-way limit.

SECTION IV

The purpose of this section is to describe abatement procedures for non-minimal threat sites.

1. Abatement Procedures for Non-minimal Threat Sites

The process for abating non-minimal threat sites generally consists of DHS procedures defined as Preliminary Assessment and Site Inspection (PA/SI), Remedial Investigation (RI), Feasibility Study (FS), Remedial Action Plan (RAP), Remedial Design (RD), Remedial Action (RA), and Operation & Maintenance (O&M), if necessary. These steps coincide with the Caltrans procedures defined as the Hazardous Waste Management Plan (HWMP).

Although there is some flexibility in the step-by-step cleanup process, it is followed closely in the majority of cases. It is a matter of professional judgment with respect to how much data must be collected and analyzed at each step before a project can move forward into the next cleanup step. For example, it may be appropriate and feasible to conduct a small scale removal action at a site immediately following the PA/SI phase. In some cases, this type of action can completely eliminate the contamination so that it is unnecessary to do any additional work. In addition, the length and complexity of the RI/FS, RAP and RD phases should be directly related to the complexity and hazardous potential of each specific site. This means that investigation and abatement of simple sites should be done quickly and simply. Caltrans agrees to conduct the mitigation actions based upon DHS guidelines.

Regardless of whether non-minimal threat sites are listed in the BEP, as described in Sections II and III, Caltrans will have the option of undertaking expedited cleanups and removal actions where deemed appropriate by DHS. In such cases, it will generally be possible to eliminate or reduce in scope some of the BEP investigation/cleanup phases of activity.

Sections 25355, 25356.1 and 25358.7 of the H&SC require public involvement, public notice and public meeting as part of the site cleanup process. On BEP sites, Caltrans will coordinate with the DHS Community Relations Coordinator prior to the start of the remedial investigation. The extent of the planned community relations activities, beyond the required minimum, will correspond to the level of community interest.

2. Limited Cleanup Actions/Liability

On properties acquired under the power of eminent domain and when construction has been calendared, Caltrans agrees to undertake cleanup of areas of contamination that will be directly impacted by a construction project, but does not necessarily agree to abate areas located on the right-of-way property not directly impacted, except when otherwise required by law. Unless there are compelling public health or environmental issues which require more extensive action, Caltrans will abate those areas of contamination directly impacted by the construction project in cases where Caltrans has acquired the property through eminent domain. Caltrans agrees to provide DHS with an engineer's report for sites which will not be fully abated by Caltrans. The report shall address the impact of the partial abatement and the roadway construction project on any future abatement action. Caltrans agrees that for any site partially abated, Caltrans will implement appropriate engineering controls as may be necessary to prevent an increased threat to public health or the environment due to the partial abatement. DHS agrees to provide written confirmation as to the adequacy of the mitigation action.

3. DHS/Caltrans Priorities

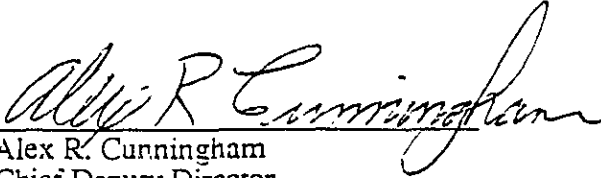
Priorities for DHS are generally established by each site's HRS score and the availability of staff resources. In those cases where a responsible party or other entity is interested in an expedited abatement action, they will need to provide advance funding to DHS for needed oversight staff services, in excess of 80 hours. Caltrans will be able to contract for DHS oversight staff services based on the availability of Caltrans funding and DHS staff resources.

4. Disputes

Disputes between Caltrans and DHS staff regarding the implementation of this MOU shall be resolved at the lowest level possible, beginning with the respective project managers for each Department, and in a manner consistent with this MOU and state law. Where any conflict exists between state law and this MOU, state law shall prevail. Where Caltrans and DHS project managers cannot reach agreement, disputes shall be elevated to the next level within each organization until resolved. Final resolution will normally rest with the deputy directors of the two agencies.

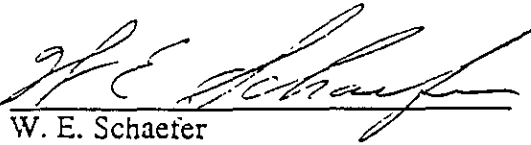
EXECUTION

The undersigned hereby acknowledge and agree that the policies, processes and options identified in this document will guide DHS and Caltrans in abatement activities at hazardous waste sites involving transportation projects.



Alex R. Cunningham
Chief Deputy Director
Toxic Substances Control Division
Department of Health Services

July 14, 1989
Date



W. E. Schaefer
Chief Engineer
Caltrans

July 14 1989
Date



STID 4901

June 17, 1996

Daniel Murphy
State of California
Department of Transportation
Deputy Chief Council, District 4
595 Market Street, Suite 1700
San Francisco, CA 94104

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

NOTICE OF INTENT TO REFER FOR PROSECUTION

RE: Contamination encountered at SF Bridge Toll Plaza, Eastbound Span, Oakland CA 94607

Dear Mr. Murphy,

I am in receipt of and have reviewed Caltrans' response letter dated June 4, 1996. This letter is enclosed for your review. Alameda County Health Care Services Agency (ACHCSA) had requested a copy of the work plan for the remediation of contaminated soils and/or groundwater, associated with the retrofitting of the seismic footings for the eastern span of the Bay Bridge. This information was previously requested in ACHCSA letters dated February 16, 1996, April 30, 1996 and June 3, 1996.

In the February 16, 1996 ACHCSA letter, this office requested that CalTrans **please submit a plan by April 16, 1996 for the removal of contaminated soils from the excavation activities associated with the Bay Bridge Seismic Retrofitting Project. The plan should include a time schedule and should at a minimum address the following items:**

1. Removal or remediation of excavated lead contaminated soils which exceed regulatory criteria for WET analyses.
2. Removal or remediation of excavated total recoverable petroleum hydrocarbons (TRPH) in excess of a negotiated value acceptable to both parties.
3. Removal or remediation of excavated soils containing organochlorine pesticides which exceed the Soluble Threshold Limit concentration (STLC) values listed in Title 22 Section 66261.24.
4. Removal or remediation of excavated soils containing semi-volatile organic compounds (SVOCs) in excess of the USEPA "Preliminary Remedial Goals (PRGs)-Industrial Soil" for SVOCs, or in excess of a negotiated value acceptable to both parties.

Mr. Daniel Murphy
RE: Bay Bridge Retrofitting Project
June 17, 1996
Page 2 of 3

In the June 4, 1996 response letter Caltrans simply states that "Our contractor has disposed of some contaminated soils at approved disposal facilities. To date we have disposed of 4,597 cubic yards of contaminated material". **This does not constitute a work plan for the removal of contaminated soils and/or groundwater associated with the retrofitting project.**

If Caltrans has obtained a variance from State or Regional Water Quality Control Boards, DTSC or USEPA establishing requirements for the removal of contaminated soils and groundwater, a copy of this document would be sufficient to satisfy the requirements of this office.

Information last received by this office consisted of the APEX Environmental Recovery "Report Site Investigation Oakland Bay Bridge, Volumes I and II, dated March 22, 1994.

Please be advised that this directive is a **Legal Request for the Furnishing and Transmittal of Information Relating to Hazardous Substances** pursuant to Health and Safety Code Section 25185.6, and an **Order to Conduct Monitoring, Testing, Analysis and Reporting** pursuant to Health and Safety Code Section 25187.1. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by the Alameda County Department of Environmental Health.

Therefore, in accordance with Health and Safety Code Section 25185.6, you are directed to submit all information concerning the removal of contaminated soils/and or groundwater during excavation activities associated with the Bay Bridge Seismic Retrofitting Project no later than July 3, 1996.

Failure to undertake the required corrective action, including the submittal of a technical report after the date specified in this request, may result in fines of up to \$25,000 per day per violation pursuant to Health and Safety Code Sections 25189 and 25189.2. All submittal pursuant to this directive must be signed by the parties named herein and sent to Dale Klettke at the Alameda County Department of Environmental Health.

If you have any questions, please feel free to call me directly at (510)567-6880.

Sincerely,



Dale Klettke, CHMM
Hazardous Materials Specialist

Mr. Daniel Murphy
RE: Bay Bridge Retrofitting Project
June 17, 1996
Page 3 of 3

enclosure

c: Jit Pandher and Allen Baradar, State of California, Department of Transportation-Dist. 04,
Environmental Engineering Branch, P. O. Box 23660, Oakland CA 94623-0660
Joe Browne, District Director, Department of Transportation, Administration Building,
Room 1261, Oakland, CA 94608
Steve Russell, State of California, Department of Transportation, 3401 Regatta Blvd.
Richmond CA 94804
Gil Jensen, Alameda County District Attorneys Office

4901nov.fnl

bc

DEPARTMENT OF TRANSPORTATION
DIST 04 CONSTRUCTION FIELD OFFICE
San Francisco-Oakland Bay Bridge
Administration Building, Room 1261
Oakland, CA 94608
Phone (510) 286-6777
Fax (510) 286-6774

June 4, 1996

04-043434
04-ALA-80-1.0/1.3
Seismic Retrofit

Mr. Dale Klettke, CHMM
Hazardous Material Specialist
Alameda County
Environmental Health Services
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

Dear Mr. Klettke:

It was brought to my attention yesterday that our Environmental Engineering Branch has received a letter from your office marked as a "Notice of Violation." First of all, I apologize on Caltrans behalf that I did not receive the letter earlier so that I could have responded to you in a more timely fashion. Secondly, I want to assure you that our contractor on this project is not violating any permit requirement.

The project in question was suspended on February 9, 1996 for other reasons. However, the project construction restarted on March 29, 1996. To date we have not taken groundwater out of the project limit or discharged any to the Bay. Our contractor has no plans to discharge water outside the project in the near future.


Our contractor has disposed of some contaminated soils at approved disposal facilities. To date we have disposed of 4,597 cubic yards of contaminated material.

If you need more information about this on-going construction project, please contact Nader Eshghipour, Resident Engineer, at (510) 2868-6775.

Sincerely,

JOE BROWNE
District Director

By:


Jit S. Pandher

Senior Construction Engineer

cc: Sumadhu Arigala, RWQCB
Gil Jensen, Alameda Co District Attorney's Office
Crandall Bates, Balfour Beatty Construction Co., Inc.

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

Alameda County Environmental Health Dept.
Environmental Protection Division
1131 Harbor Bay Parkway, Room 250
Alameda CA 94502-6577
(510)567-6700 fax: (510)337-9335

STID 4901

December 7, 1995

Alan Baradar
State of California
Department of Transportation-Dist 4
Environmental Engineering Branch
P. O. Box 23660
Oakland CA 94623-0660

RE: Contamination encountered at SF Bridge Toll Plaza, Eastbound Span, Oakland CA 94607

"SECOND NOTICE"

Dear Mr. Baradar,

This letter is in response to conversations which have centered around the destruction of three monitoring wells which were installed to monitor groundwater contamination documented in the March 22, 1994 - APEX Environmental Recovery, Inc. "Report, Site Investigation, Oakland Bay Bridge, East Bay Span, Oakland CA, Volumes I and II".

In a ACHCSA letter dated March 31, 1995, Jennifer Eberle requested a deposit of \$1800.00 for 20 hours of oversight time. This "deposit/refund" method of charging for our services is for site remediation work that is not eligible for inclusion in the Local Oversight Program (LOP). As of this date, we have not received this \$1800.00 deposit. This deposit/refund" arrangement is authorized by Section 3-140.5 of the Alameda County Code.

You have been given more than enough time to allocate funds for this project.
Please forward this \$1800.00 deposit to our office by January 2, 1996.

If you have any questions, please feel free to call me directly at (510)567-6880.

Sincerely,

Dale Klettke, CHMM
Hazardous Materials Specialist

c: Steve Russell, State of California, Department of Transportation, 3401 Regatta Blvd.
Richmond CA 94804
Gil Jensen, Alameda County District Attorneys Office

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

STID 4901

December 7, 1995

Alan Baradar
State of California
Department of Transportation-Dist 4
Environmental Engineering Branch
P. O. Box 23660
Oakland CA 94623-0660

RE: Contamination encountered at SF Bridge Toll Plaza, Eastbound Span, Oakland CA 94607

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This letter is in response to conversations which have centered around the destruction of three monitoring wells which were installed to monitor groundwater contamination documented in the March 22, 1994 - APEX Environmental Recovery, Inc. "Report, Site Investigation, Oakland Bay Bridge, East Bay Span, Oakland CA, Volumes I and II".

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Sincerely,

Dale Klettke, CHMM
Hazardous Materials Specialist

c: Steve Russell, State of California, Department of Transportation, 3401 Regatta Blvd.
Richmond CA 94804
Gil Jensen, Alameda County District Attorneys Office

STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

PETE WILSON, Governor

DEPARTMENT OF TRANSPORTATION

BOX 22660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454

CALIFORNIA REGIONAL WATER



AUG 0 8 1995

QUALITY CONTROL BOARD

August 8, 1995

0150409

San Francisco-Oakland Bay Bridge
East Span
Seismic Retrofit Project

Mr. Sumadhu Arigala
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Ste 500
Oakland, CA 94612

Subject: Ground Water Disposal under Cypress NPDES Permit

Dear Mr. Arigala:

This letter is to confirm that the California Department of Transportation (Caltrans) will reuse ground water extracted from freeway construction activities for the San Francisco-Oakland Bay Bridge (Bay Bridge) East Span Seismic Retrofit Project in accordance with the Cypress Project NPDES Permit CA0029980 and Caltrans General NPDES Permit Number CAS029998.

The Bay Bridge East Span Seismic Retrofit Project is the first of a twelve phase plan to repair damages to the Bay Bridge incurred by the Loma Prieta Earthquake. The plan to retrofit the Bay Bridge is part of the ongoing series of seismic retrofit projects to repair and upgrade all highway structures in the State as a result of the Loma Prieta Earthquake. See Attachment 1 for the location map.

The Bay Bridge East Span Seismic Retrofit Project, which includes work on Bents E23 through E39, is scheduled to start construction in the fall of 1995. The project is estimated to take 450 working days to complete, which is approximately a two year duration.

The total area requiring dust control within the project is approximately 300,000 square feet, excluding the area deemed "environmentally sensitive" by the Bay

Conservation and Development Commission (BCDC). A copy of the BCDC Permit for this project is included in Attachment 2.

There are approximately 17 footing excavations that require dewatering for the seismic retrofit work. These excavations will be larger than normal because many of the footing locations have low overhead restrictions imposed by the existing bridge structure. The contractor must overexcavate to fit his equipment underneath the east abutment of the Bay Bridge.

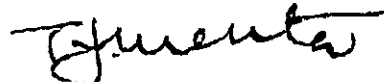
We anticipate an initial volume of 3.40 million gallons will be generated from the project. Attachment 3 is a copy of the contract special provisions requiring the Contractor to seal all excavations and to limit seepage into excavations to a maximum rate of 5 gallons per square yard per eight hour period. With seepage minimization measures in place, an additional ~~2.25~~ ⁶ million gallons will be generated during the construction period.

If you have any questions, please contact Allen Baradar at (510) 286-5636 or Celia McCuaig at (510) 286-5659.

Sincerely,

JOE BROWNE
District Director

By



TIM MEHTA, Branch Chief
Office of Environmental
Engineering

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 31, 1995
no SLIC # yet

Alan Baradar
State of California
Dept of Transportation-Dist 4
Environmental Engineering Branch
PO Box 23660
Oakland CA 94623-0660

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

RE: Contamination encountered at SF Bridge Toll
Plaza, Eastbound Span, Oakland CA 94607

Dear Mr. Baradar,

We are in receipt of the "Report, Site Investigation, Oakland Bay Bridge, East Bay Span, Oakland CA, Volumes I and II," prepared by APEX Environmental Recovery, Inc., dated 3/22/94. This report documents soil and groundwater contamination associated with sampling under the bents (bridge supports). Types of contaminants found include Oil & Grease (TRPH), semi-VOCs (method 8270), and metals; VOCs (method 8240) were non-detect. Note that hazardous waste levels of lead were encountered (up to 11,500 ppm).

Three groundwater monitoring wells (MWs) were apparently installed to monitor the groundwater contamination. This is documented in a letter report prepared by APEX, dated 11/14/94. However, this report does not document the date(s) of MW installation; MW boring and completion logs were not included. Do you have plans to continue monitoring/sampling the MWs?

As we have discussed, this area is also the location of a former underground storage tank (UST). This is being handled separately as a Local Oversight Program (LOP) case. The physical location of the former UST appears to be within a greater area of contamination, which we are now considering separately as a Spills, Leaks, Investigations and Cleanup (SLIC) case.

To this end, the Alameda County Department of Environmental Health, Division of Environmental Protection charges for the review and oversight of site remediation work on a "deposit/refund" basis. This includes activities such as meetings, phone calls, report reviews, writing letters. The "deposit/refund" arrangement is authorized by Section 3-140.5 of the Alameda County Code.

The "deposit/refund" method of charging for our services is for site remediation work that is not eligible for inclusion in the Local Oversight Program (LOP). The LOP is a federal and state petroleum underground storage tank cleanup program and the billing is done by the State Water Quality Control Board.

March 31, 1995
SLIC case
Alan Baradar
page 2 of 2

As of 7/1/94, our hourly rate is \$90.00. We request a deposit of \$1800.00 for 20 hours of oversight time, within 30 days, or by May 1, 1995. Any unused deposit will be refunded to the payor at the completion of our work; we keep a detailed accounting of all our charges, to the nearest tenth of an hour, or every six minutes.

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board.

If you have any questions, please contact me at 510-567-6700, ext 6761; our fax number is 510-337-9335.

Sincerely,



Jennifer Eberle
Hazardous Materials Specialist

cc: Steve Russell, State of California, Dept of Transportation,
3401 Regatta Blvd., Richmond CA 94804
Jerry Kirkpatrick, APEX Environmental Recovery, Inc., 5772
Bolsa Ave, Suite 230, Huntington Beach CA 92649
Ariu Levi, Acting Chief/file

je.SLIC

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 30, 1995
STID 4901

Alan Baradar
State of California
Dept of Transportation-Dist 4
Environmental Engineering Branch
PO Box 23660
Oakland CA 94623-0660

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

RE: Underground Storage Tank (UST) removal at SF Bridge Toll
Plaza, Eastbound Span, Oakland CA 94607

Dear Mr. Baradar,

This letter serves to document our meeting held today, in which my supervisor, Tom Peacock, also attended. You indicated that soil and groundwater contamination was detected while sampling under the bents (bridge supports). The 3 existing groundwater monitoring wells (MWs) were installed to monitor releases associated with this contamination. Their purpose was NOT to monitor releases to groundwater from the UST. The closest MW is actually approximately 140 feet from the former UST. As we discussed, a MW is required within 10 feet downgradient of the former UST, as per Tri-Regional Board Guidelines.

Due to the contamination which you indicated was present in the larger vicinity, we discussed the possibility of classifying the larger area around this (UST) site as a SLIC site. We also discussed who the lead agency would be. This may be considered a separate issue.

We ultimately agreed to install at least one monitoring well (MW) within 10 feet downgradient of the former UST (near Bent 30). We also agreed to postpone MW installation until seismic upgrading activities have been completed in the area around Bent 30. Your estimate of the time schedule for completion of construction activities was 1 to 1.5 years from now. Construction is due to begin within a few months.

You will be required to submit a workplan for a groundwater investigation, submitted under cover letter from your office, and prepared by a recognized professional as outlined below. Since this area is likely under a strong tidal influence, groundwater flow direction may not be possible to ascertain. Groundwater flow direction is likely to be equal in all directions. Therefore, it probably does not make much difference in which direction we locate the MW.

March 30, 1995
STID 4901
Alan Baradar
page 2 of 2

Soil in the well borehole should be sampled in at least one depth (the capillary fringe) for TPH-gasoline, TPH-diesel, TPH-kerosene, and lead. A well installation report must be submitted, which includes detailed boring logs, written under the supervision of a RG.

The MW should be sampled for four consecutive quarters for the following constituents: TPH-gasoline, TPH-diesel, TPH-kerosene, and lead. Quarterly reports should be submitted within 45 days from the sampling events, detailing sampling results, and should include certified laboratory reports, chains of custody, site maps (including locations of the MW and former UST), and cumulative tabulated data.

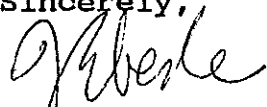
All work should adhere to a) the Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, dated 8/10/90; and b) Article 11 of Title 23, California Code of Regulations. The workplan and the quarterly reports must be submitted **under seal** of a California-Registered Geologist (RG), -Certified Engineering Geologist, or -Registered Civil Engineer.

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board.

If you have any questions, please contact me at 510-567-6700, ext 6761; our fax number is 510-337-9335.

Please notify me at least 2 business days in advance of field activities so that I may arrange to be onsite. **Your consultant is encouraged to submit reports on double-sided paper in order to save precious trees.**

Sincerely,



Jennifer Eberle
Hazardous Materials Specialist

cc: Steve Russell, State of California, Dept of Transportation,
3401 Regatta Blvd., Richmond CA 94804
Ariu Levi, Acting Chief/file

je.4901

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 30, 1995
STID 4901

Alan Baradar
State of California
Dept of Transportation-Dist 4
Environmental Engineering Branch
PO Box 23660
Oakland CA 94623-0660

DEPARTMENT OF ENVIRONMENTAL HEALTH
ALAMEDA COUNTY-ENV. HEALTH DEPT.
ENVIRONMENTAL PROTECTION DIV.
1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577
(510)567-6700

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March 30, 1995
STID 4901
Alan Baradar
page 2 of 2

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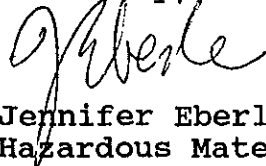
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If you have any questions, please contact me at 510-567-6700, ext 6761; our fax number is 510-337-9335.

Please notify me at least 2 business days in advance of field activities so that I may arrange to be onsite. **Your consultant is encouraged to submit reports on double-sided paper in order to save precious trees.**

Sincerely,



Jennifer Eberle
Hazardous Materials Specialist

cc: Steve Russell, State of California, Dept of Transportation,
3401 Regatta Blvd., Richmond CA 94804
Ariu Levi, Acting Chief/file

je.4901

FAX TRANSMITTAL

Caltrans — District 4
Environmental Engineering Branch
111 Grand Avenue — 14th Floor
Oakland, CA 94623-0660

Date: 3/29/95 Pages to Follow: 3

To: Jannifer Eberle

Telephone Number:
FACSIMILE NUMBER:

507-6761

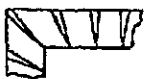
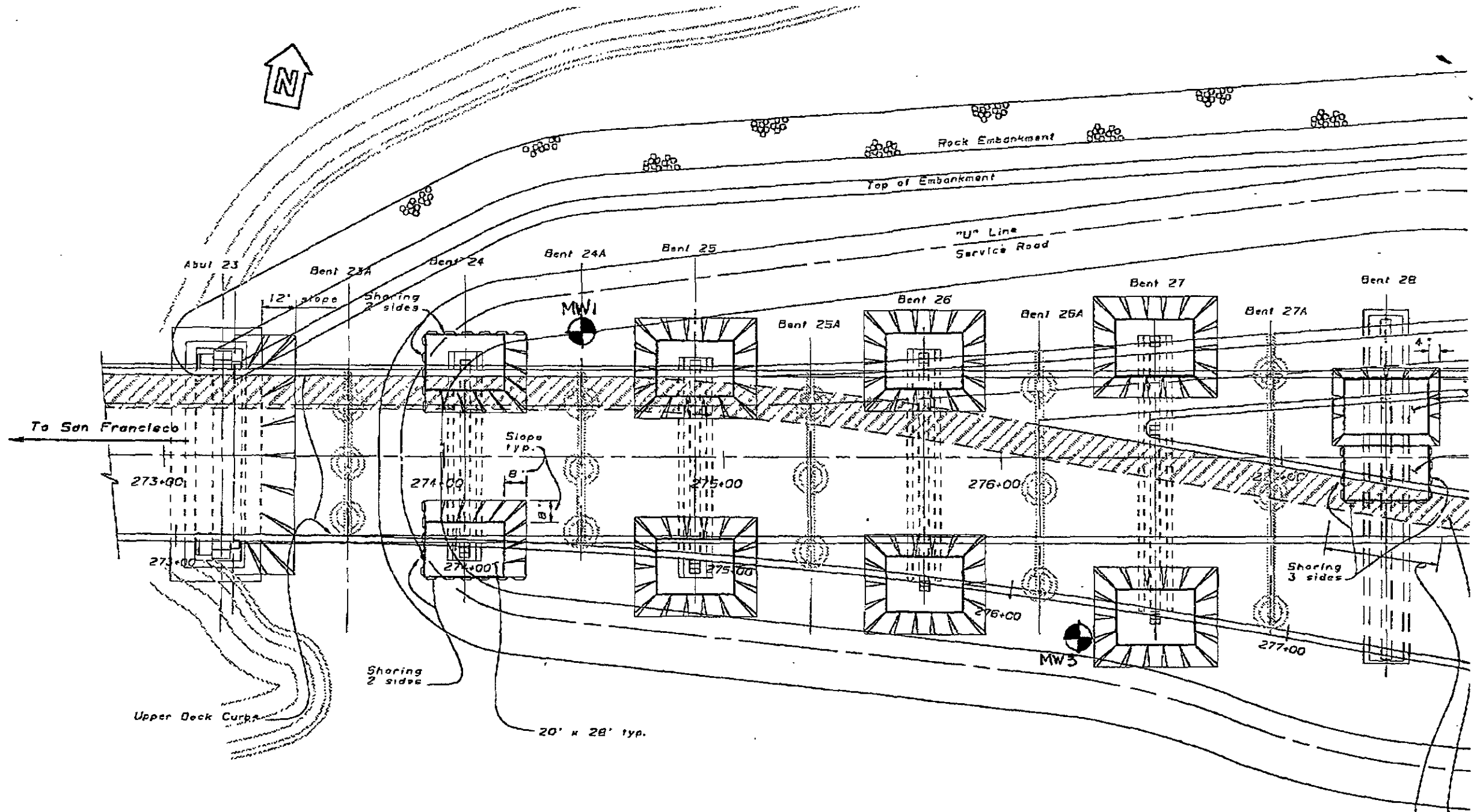
Message:

From: Allen V. Baradar

Telephone Number:
FACSIMILE NUMBER:

-5636
(510) 286-5642

Mailing Address: Caltrans — District 4
P. O. Box 23660
Oakland, CA 94623-0660



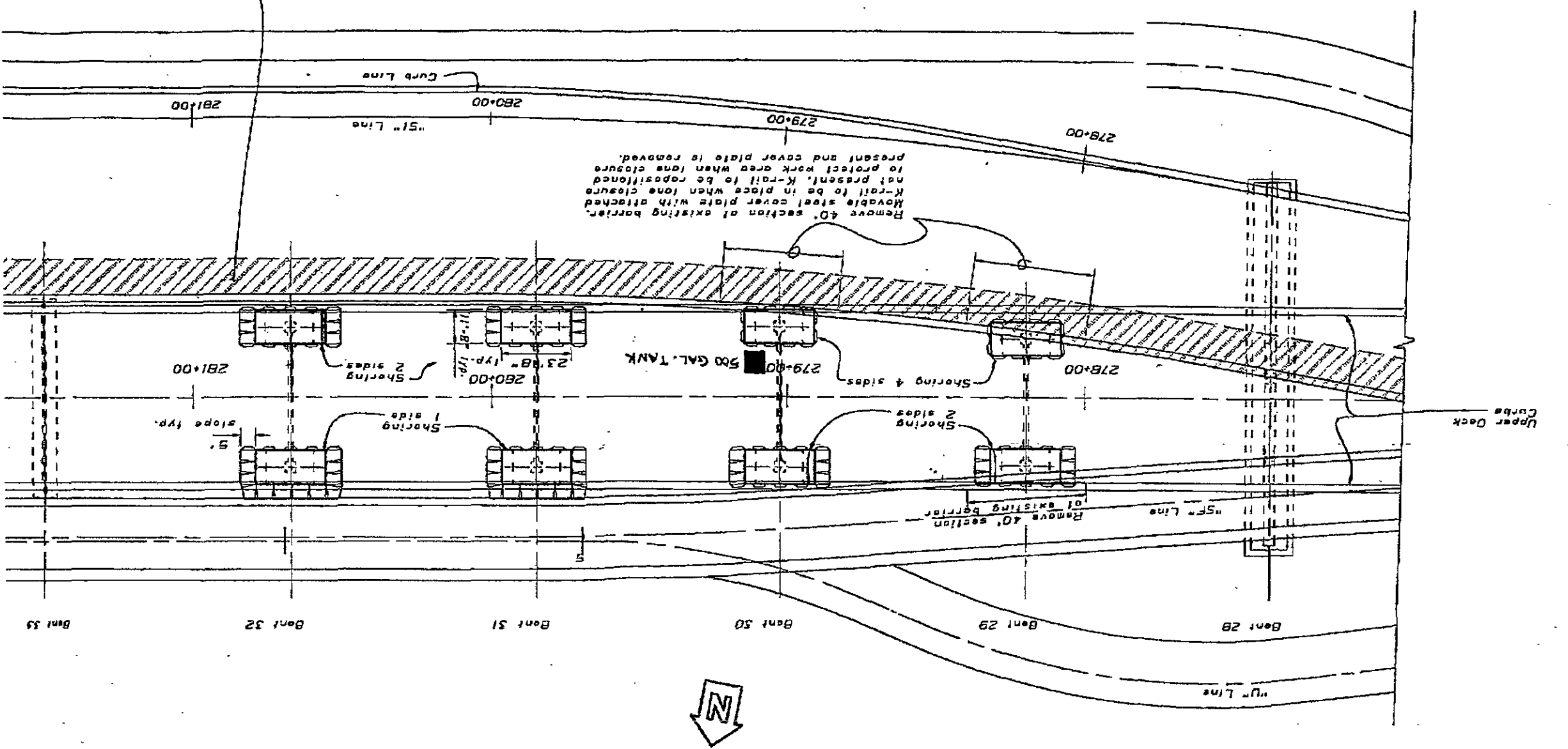
Limits of Excavation

PLAN

1" = 20'-0"

Remove 40' section of existing barrier. Movable steel cover plate with attached K-rail to be in place when lane closure not present. K-rail to be repositioned to protect work area when lane closure present and cover plate is removed.

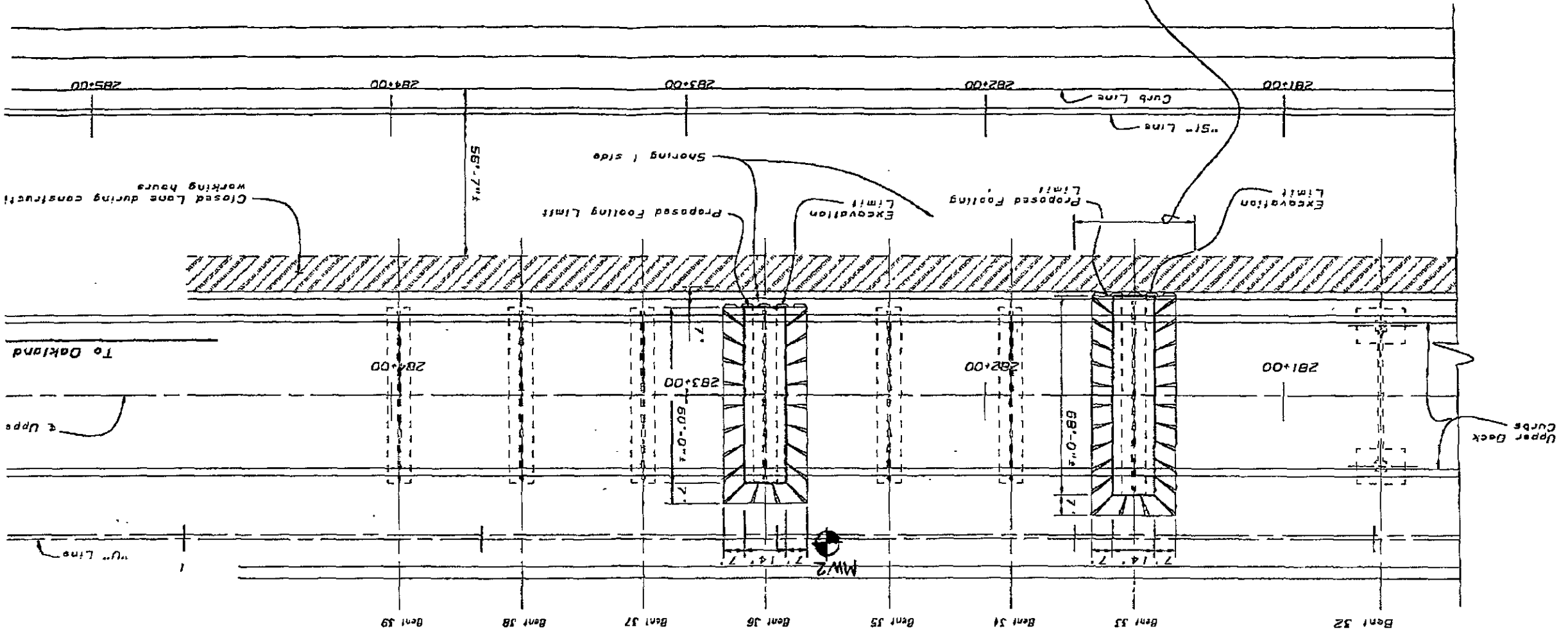
1" = 20'-0"



Upper Deck

Remove 40" section of existing barrier.
Mobile steel cover plate with attached
K-rail to be in place when lane closure
not present. K-rail to be repositioned
to protect work area when lane closure
present and cover plate is removed.

PLAN
1" = 20'-0"



DEPARTMENT OF TRANSPORTATION

BOX 23660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454



January 17, 1995

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

Subject: Underground Storage Tank Removal at San Francisco - Oakland Bay Bridge

Dear Ms. Hugo:

Per your telephone conversation with Allen Baradar of my staff, we are enclosing a report for groundwater monitoring wells located in the vicinity of a former underground storage tank at the Bay Bridge. This report shows the location of three monitoring wells as well as analytical data. We have also attached a copy of the well construction diagram provided by our consultant.

These monitoring wells were constructed per requirements of the Regional Water Quality Control Board to obtain a permit to discharge any water that we would encounter during construction back to the Bay. However, after several meetings with Mr. Sumadhu Arigala of the Regional Water Quality Control Board and submittal of analytical results for both soil and water, it was determined that soil and groundwater in this area are generally contaminated. Therefore, permit to discharging any water back to the Bay was denied. Caltrans would have to haul-off any encountered water as contaminated water during construction.

Additionally, as directed by you, we have already overexcavated the tank pit and backfilled it with imported borrow. The closure report will be submitted to you as soon as it becomes available.

In conclusion, based on the above reference subject matters, we believe installation of another monitoring well within 10 feet of the former location of the tank would not accomplish much and would possibly delay the construction of the project.

As you know Caltrans is retrofitting the San Francisco-Oakland Bay Bridge (East Bay spans) as part of an on-going series of projects to upgrade the existing structures to current seismic standards.

This project is on an accelerated schedule and we would appreciate your final approval of the tank removal as soon as possible.

Ms. Susan Hugo
Re: Bay Bridge
January 17, 1995
Page 2

ALLO
HAEIAT
95 JAN 31 11:00

If you have any questions or comments, please call Allen Baradar of my staff at (510) 286-5636 or (415) 904-5969, facsimile number (510) 286-5642.

Sincerely,

JOE BROWNE
District Director

By: 

DIANNE STEINHAUSER, Chief
Office of Environmental Engineering

AB:ab
cc: TMehta, SRussell, ABaradar, File
Enc.

DEPARTMENT OF TRANSPORTATION

BOX 23660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454



January 17, 1995

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

Subject: Underground Storage Tank Removal at San Francisco - Oakland Bay Bridge

Dear Ms. Hugo:

Per your telephone conversation with Allen Baradar of my staff, we are enclosing a report for groundwater monitoring wells located in the vicinity of a former underground storage tank at the Bay Bridge. This report shows the location of three monitoring wells as well as analytical data. We have also attached a copy of the well construction diagram provided by our consultant.

These monitoring wells were constructed per requirements of the Regional Water Quality Control Board to obtain a permit to discharge any water that we would encounter during construction back to the Bay. However, after several meetings with ~~Mr. Sumadhu Arigala~~ of the Regional Water Quality Control Board and submittal of analytical results for both soil and water, it was determined that soil and groundwater in this area are generally contaminated. Therefore, permit to discharging any water back to the Bay was denied. Caltrans would have to haul-off any encountered water as contaminated water during construction.

Additionally, as directed by you, we have already overexcavated the tank pit and backfilled it with imported borrow. The closure report will be submitted to you as soon as it becomes available.

In conclusion, based on the above reference subject matters, we believe installation of another monitoring well within 10 feet of the former location of the tank would not accomplish much and would possibly delay the construction of the project.

As you know Caltrans is retrofitting the San Francisco-Oakland Bay Bridge (East Bay spans) as part of an on-going series of projects to upgrade the existing structures to current seismic standards.

This project is on an accelerated schedule and we would appreciate your final approval of the tank removal as soon as possible.

Ms. Susan Hugo
Re: Bay Bridge
January 17, 1995
Page 2

ALDO
HAZMAT

95 JAN 31 AM 10:00

If you have any questions or comments, please call Allen Baradar of my staff at (510) 286-5636 or (415) 904-5969, facsimile number (510) 286-5642.

Sincerely,

JOE BROWNE
District Director

By: 

DIANNE STEINHAUSER, Chief
Office of Environmental Engineering

AB:ab
cc:TMehta, SRussell, ABaradar, File
Enc.

**ALAMEDA COUNTY ENVIRONMENTAL
HEALTH SERVICES**

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

FAX COVER SHEET

DATE: AUGUST 1, 19 96

TO: GIL JENSEN

FAX # (510) 569-0505

Total number of pages including cover sheet 3

FROM: DAVE KLETTE

NOTE:

PLEASE RESPOND BY FAX ONLY.

THOUGHT YOU WOULD LIKE A COPY OF THIS LETTER,
ESPECIALLY PARAGRAPH 2. (567-6880)

**(SMILE) HAVE A NICE DAY
DO SOMETHING FOR OUR ENVIRONMENT**

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

2101 WEBSTER STREET, Suite 500

OAKLAND, CA 94612

Tel: (510) 286-1255

FAX: (510) 286-1380



Ms. Dianne Steinhauser
Caltrans, Branch Chief, Environmental
1121 7th Street
Oakland, CA 94607

Date: NOV 02 1994
File No.: 2223.09 (SA)

Subject: Cypress Freeway Reconstruction Project Site, Oakland/ Emeryville,
Alameda County.

Dear Ms. Steinhauser:

Regional Board Staff have reviewed reports regarding the soil and groundwater pollution, at several properties, along the realigned Cypress Freeway in the Cities of Oakland and Emeryville. The soil and groundwater at the above site have been impacted by Petroleum Hydrocarbons as gasoline and diesel, Volatile Organic Chemicals (VOCs), semi VOCs, pesticides and heavy metals. Total Petroleum Hydrocarbons, in the gasoline range, up to 16000 ppb, Benzene concentrations up to 320 ppb, and priority pollutant metals up to 64000 ppb were detected in the groundwater. The beneficial uses of groundwaters, underlying the above site, that have been adversely affected include: municipal and domestic supply, agricultural supply, industrial service and process water supply.

The pollution at the project site needs to be fully characterized, remediated/ managed to protect the beneficial uses of ground and surface waters, consistent with the Board's Water Quality Control Plan. I understand NPDES Permit No. 94-007 was issued to allow discharge/ re-use of groundwater generated from the construction dewatering activities. A groundwater treatment system is in operation to meet the discharge/ re-use criteria. Board Staff will be involved in review/ approval of technical reports, site inspections, meetings to discuss findings of reports, oversight of site assessment and remediation, groundwater containment, management options etc.

Porter-Cologne, Section 13304, allows the Regional Board to recover reasonable expenses from the responsible party for overseeing cleanup of illegal discharges, contaminated properties, and other unregulated releases adversely affecting the State's waters. It is our intent to recover such costs for regulatory oversight work conducted in accordance with this letter.

On October 28, 1994, Sumadhu Arigala of my staff discussed with you by telephone our intent to include the above site in the Regional Board's cost recovery program.

Cypress Freeway Reconstruction
Oakland/ Emeryville
Alameda County

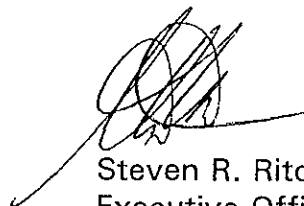
During that conversation, you agreed to participate in the program and reimburse Staff oversight costs.

For the Fiscal year 1994, we estimate that approximately 120 labor hours will be required for the regulatory oversight of this site. The actual time needed will depend on the nature and extent of the cleanup/ containment and your willingness to accomplish the same in a timely fashion. The State Billing rate is approximately \$60 per hour. This rate will vary depending on the salary of the individuals responsible for the oversight.

A detailed description of the billing procedure is enclosed. Please acknowledge in writing your intent to reimburse the State for cleanup oversight work as stated in the enclosure. A format of such a letter is attached.

Please contact Sumadhu Arigala at (510) 286-0434, if you have any questions regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven R. Ritchie", with a long horizontal flourish extending to the left.

Steven R. Ritchie,
Executive Officer.

Enclosure

cc: W/O attachment

Anders Lundgren, RWQCB

**ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY**

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

August 18, 1994
STID# 4901

Mr. Steven Russell
California Department of Transportation
3401 Regatta Blvd.
Richmond, California 94804

**RE: Underground Storage Tank Removal at S.F. Bridge Toll Plaza
Oakland, California 94607**

Dear Mr. Russell:

As discussed during our meeting today, which was also attended by Mr. Allen Baradar of Cal Trans District 4, the soil samples collected beneath the former underground storage tank (approximately 500 gallon in capacity and removed in July 20, 1994) detected elevated levels of petroleum hydrocarbon as high as 8700 ppm TPH gasoline, 4300 ppm TPH diesel and 5200 ppm TPH kerosene. Lead was also detected at 67 ppm.

Clearly, an unauthorized release associated with the former tank occurred at the site. A blank Unauthorized Leak Report (ULR) form was handed out to you today. This form must be completed and submitted to this office within five working days.

Your plan to perform overexcavation of the contaminated soil around the tank pit is acceptable to this office. However, verification soil samples must be collected at a minimum of one sample per twenty lineal feet. Only clean fill can be used to backfill the excavation pit. The stockpile soil generated during this excavation of affected soil must be characterized and disposed properly. All records of tank and soil disposal must be submitted to this office.

This office is in receipt of the "Report-Site Investigation, Oakland Bay Bridge" dated March 22, 1994 and prepared by Apex Environmental Recovery, Inc. In addition, portion of the Letter Report for Oakland Bay Bridge Project dated July 6, 1994 and prepared by Apex was provided today. As stated in the letter report, three monitoring wells were installed in May 25, 1994. Please provide copies of the boring logs and construction diagrams of these wells. The data collected from these wells will be evaluated and may be tied in the groundwater investigation related to the former tank. One of these wells must be within ten feet in the verified downgradient location of the former tank.

Mr. Steven Russell
RE: SFO Bridge East Bay Toll Plaza
August 18, 1994
Page 2 of 3

Until cleanup is complete, you will need to submit reports to this office every three months (or at a more frequent interval, if specified at any time by this agency). In addition, the following items must be incorporated in your future reports or workplans:

- a cover letter from the responsible party or tank owner stating the accuracy of the report and whether he/she concurs with the conclusions and recommendations in the report or workplan
- site map delineating contamination contours for soil and groundwater based on recent data should be included and the status of the investigation and cleanup must be identified
- proposed continuing or next phase of investigation / cleanup activities must be included to inform this department of the responsible party or tank owner's intention
- any changes in the groundwater flow direction and gradient based on the measured data since the last sampling event must be explained
- historical records of groundwater level in each well must be tabulated to indicate the fluctuation in water levels
- tabulate analytical results from all previous sampling events; provide laboratory reports (including quality control/quality assurance) and chain of custody documentation

All reports and proposals must be submitted under seal of a California Registered Geologist or Registered Civil Engineer with a statement of qualifications for each lead professionals involved with the project.

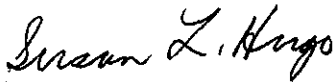
Because we are overseeing this site under the designated authority of the Regional Water Quality Control Board, this letter constitutes a formal requests for technical reports pursuant to California Water Code Section 13267 (b). Any extensions of stated deadlines or changes in the workplan must be confirmed in writing and approved by this agency.

Mr. Steven Russell
RE: SFO Bridge East Bay Toll Plaza
August 18, 1994
Page 3 of 3

Please notify me at least 72 hours in advance of any field activities at the site.

Should you have any questions concerning this letter, you may contact me at (510) 567-6780.

Sincerely,



Susan L. Hugo
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health
Kevin Graves, San Francisco Bay RWQCB
Gil Jensen, Alameda County District Attorney's Office
Edgar B. Howell, Chief, Hazardous Materials Division - files
Allen Baradar, Cal Trans, District 4, P.O. Box 23660
Oakland, CA 94623-0660

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

SUSAN L. HARGO

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
80 Swan Way, Suite 200,
Oakland, CA 94621
Telephone: (510) 271-4320

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed here is now released for issuance of any required building permits for construction/destruction. One copy of the approved plans must be on the job and available to all contractors and enforcement agencies with the removal. Any changes or additions to the specifications must be submitted to the Fire and Building Inspections Department in writing if such changes meet the requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections:
 Removal of Tank(s) and Piping
 Sampling
 Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

*THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

Contact Specialist:

Please see change made on page 4.

Susan L. Hargo 7/18/94

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

- Business Name Cal Trans Dist. 4
Business Owner California Department of Transportation
 - Site Address S.F.O. Bridge East Bay Toll Plaza
City Oakland, CA Zip 94607 Phone _____
 - Mailing Address 3401 Regatta Blvd.
City Richmond, CA Zip 94804 Phone (510)231-7116
 - Land Owner Cal Trans Dist. 4
Address 3401 Regatta Blvd. City, State Richmond, CA Zip 94804
 - Generator name under which tank will be manifested _____
Cal Trans Dist. 4
- EPA I.D. No. under which tank will be manifested CAC 000 887 184

6. Contractor Ben's Truck & Equipment
 Address P.O. Box 732 - 2060 Montgomery Road
 City Red Bluff, CA 96080 Phone (916)527-5040
 License Type* A-HAZ ID# 677697

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

7. Consultant Ben's Truck & Equipment
 Address P.O. Box 732 - 2060 Montgomery Road
 City Red Bluff, CA 96080 Phone (916) 527-5040

8. Contact Person for Investigation
 Name Kurt Sale Title Technician - Level 3
 Phone (916)527-5040

9. Number of tanks being closed under this plan 1
 Length of piping being removed under this plan 15
 Total number of tanks at facility 1

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

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

a) Product/Residual Sludge/Rinsate Transporter

Name Ben's Truck & Equipment EPA I.D. No. CAD055559678
 Hauler License No. 0643 License Exp. Date 9-30-95
 Address P.O. Box 732-2060 Montgomery Road
 City Red Bluff, State CA Zip 96080

b) Product/Residual Sludge/Rinsate Disposal Site

Name PRC Patterson, Inc. EPA I.D. No. CAD083166728
 Address dba Refineries Service - P.O. Box 1167
 City Patterson, State CA Zip 95363

c) Tank and Piping Transporter

Name Erickson Tank EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date 5/95
Address 255 Par Blvd.
City Richmond, State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson Tank EPA I.D. No. CAD009466392
Address 255 Par Blvd.
City Richmond, State CA Zip 94801

11. Experienced Sample Collector

Name Kurt Sale, Technician - Level 3
Company Ben's Truck & Equipment
Address P.O. Box 732 - 2060 Montgomery Road
City Red Bluff, State CA Zip 96080 Phone 527-5040

12. Laboratory

Name Alpha Lab
Address 860 Waugh Lane H-1
City Ukiah, State CA Zip 95482
State Certification No. 1551

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

If yes, describe. Unknown

14. Describe methods to be used for rendering tank inert

Remove product. Inert tank with dry ice.

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

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

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
500 ?		Content - Kerosene Soil Sample TP&D - 8015 BTXE - 8020 Total Lead - EPA 7420	One sample taken under one end of tank not more than 2 ft. below bottom of tank. One sample taken on pipe trench every 20 ft.
		<i>If groundwater is present - Sample must be collected & analyzed for target compounds.</i>	

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
8 yards	TPHD BTXE Total Lead

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

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

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

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
Kerosene	TPHD - 8015M BTXE - 8020 Total Lead-EPA 7420		1.0 mg/kg 0.005 mg/kg 5.0 mg/kg

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

Worker's Compensation Certificate copy

Name of Insurer Cooper and Cook

Plot Plan (See Instructions)

Business Deposit (See Instructions)

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

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 required in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until approved.

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

I understand that all work performed during this project will be done in accordance 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 to be assumed by the County of Alameda.

When 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.

Name of Contractor

(Please type) Ben's Truck and Equipment Inc.
[Signature]
7-8-94

Name of Site Owner or Operator

(Please type) Cal Trans Rep: Steven C Russell
[Signature]
7/8/94

WORK REQUEST

B31

FOR HAZARDOUS WASTE/UNDERGROUND TANKS

OALC 3(1988)

Health 10'

I. HIGHWAY PROJECT DESCRIPTION

DISTRICT	COUNTY	ROUTE	POST MILE	CHARGE UNIT	E.A.
4	Ala	80	1.0-1.3	544	192283

Fire department permits

1

II. SCOPE OF SERVICES REQUESTED

Contractor to provide all labor, materials, equipment, tools needed to remove and dispose of an unregistered underground fuel storage tank (UST) of unknown capacity containing a small amount of kerosine. The approximate location of the UST is just west of the southern half of Bent E-31 (Station 279+80). The filler pipe for the UST is protruding above the ground surface. The work will be performed in accordance with the ten Items (8) listed below, and the provisions and rates provided in the State Wide Contract No. 54U271.

ITEMS

- Contractor will notify the Designee within 24 hrs. after receiving this Work Request with regard to the acceptance of the Work Request. The UST will be removed within 5 working days after the acceptance of the Work Request. An estimate will be provided within 24 hrs. of the acceptance of work for the removal and disposal of the following UST sizes (200, 300, 500 and 1000 gallon capacity) prior to the commencement of work.
- Notify the Designee at least 8 hrs. in advance of the commencement of work.
- Remove and dispose of UST associated piping, and remaining liquid contained within, in accordance with the Alameda County Health Dept. guidelines, EPA and OSHA regulations, and any other applicable state or federal requirements.
- Excavate up to 5ft. of contaminated soil beneath the UST if visual, olfactory, or photo-ionization detector (PID) observations indicate the soil is contaminated in excess of the allowable limits of the proper authority. Excavation of contaminated soil shall not extend greater than 5 ft. beneath the UST for this work request. Excavated soil may be temporarily stock piled on adjacent Caltrans owned property until removed for disposal. Contaminated soil piles will be properly covered and stored on appropriate plastic liner material during temporary storage at the site.
- Dispose of contaminated soil to an appropriately licensed disposal facility within 10 working days.
- Back fill excavation to level grade with clean soil (imported if necessary) and compact to specifications required by Caltrans Standard Specifications.
- Provide appropriate soil sampling and testing (grab sample) by a certified laboratory and submit results (within 48 hrs. of the UST removal), to the Alameda County Health Dept., and a copy to the Designee.
- Pay for all State surcharges and County registration fees required to properly register the UST, if required by the local implementing agency (currently not listed).

III. REMARKS

The Designee for this project is Steve Russell

(510) 231-7116 WORK

(510) 231-7110 FAX

IV. CERTIFICATION

PREPARER STEVE RUSSELL	TITLE ASS. RESIDENT ENGINEER	PHONE NO. (510) 231-7116
SIGNATURE		DATE 6/28/94

Ben's Truck & Equipment, Inc.

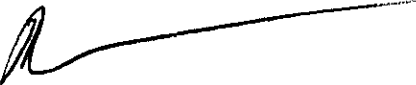
GENERAL ENGINEERING CONTRACTOR • LIC. #677697-A
HAZARDOUS WASTE & TANK REMOVAL • ROAD BUILDING
2060 MONTGOMERY RD. • P.O. BOX 732 • RED BLUFF, CA 96080
(916) 527-5040 • FAX (916) 527-9170

July 11, 1994

Department of Environmental Health
Hazardous Material Division
1331 Harbor Bay Blvd.
Alameda, CA 94501
ATTN: SUSAN HUGO

RE: SITE SAFETY OFFICER'S RESPONSIBILITY
SAFETY SITE OFFICER: KURT SALE

S.S.O. is responsible to make sure all E.P.A., OSHA, Federal, State, and County regulations are followed. Make all employees aware of escape route, fire extinguisher locations, first aid locations, security, hazards on site as in Health and Safety plan. In charge of tailgate safety meetings, air monitoring, monitoring of employees Health characteristics. Site safety officer has full authority to shut down project at his discretion if unsafe matters arise, or proper procedures are not followed by his employees, sub-contractors, Federal, State, County, or City inspectors.


Kurt Sale, Site Safety Officer
Ben's Truck & Equipment, Inc.

ENDORSED CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

7/8/94

COOPER & COOK INSURANCE SERVICES
 PO BOX 6180
 PLEASANTON, CA 94588

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

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A**
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

CALIFORNIA COMPENSATION

INSURED
 BEN'S TRUCK & EQUIPMENT, INC.
 DBA: B & S CONSTRUCTION
 BEN'S TRUCK REPAIR
 PO BOX 732
 RED BLUFF, CA 96080

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
GENERAL LIABILITY				GENERAL AGGREGATE	\$
COMBINED GENERAL LIABILITY				PRODUCTS-COMP/OPS AGGREGATE	\$
PERSONAL & ADVERTISING INJURY				PERSONAL & ADVERTISING INJURY	\$
EACH OCCURRENCE				EACH OCCURRENCE	\$
FIRE DAMAGE (Any one fire)				FIRE DAMAGE (Any one fire)	\$
MEDICAL EXPENSE (Any one person)				MEDICAL EXPENSE (Any one person)	\$
INDIVIDUAL LIABILITY				COMBINED SINGLE LIMIT	\$
ANY AUTO				BODILY INJURY (Per person)	\$
ALL OWNED AUTOS				BODILY INJURY (Per accident)	\$
SCHEDULED AUTOS				PROPERTY DAMAGE	\$
HIRED AUTOS					
NON-OWNED AUTOS					
GARAGE LIABILITY					
EMPLOYER LIABILITY				EACH OCCURRENCE	\$
OTHER THAN UMBRELLA FORM				AGGREGATE	\$
EMPLOYER'S COMPENSATION				STATUTORY	
AND	W94400068	4/1/94	4/1/95	\$ 1,000,	(EACH ACCIDENT)
EMPLOYERS' LIABILITY				\$ 1,000,	(DISEASE—POLICY LIMIT)
				\$ 1,000,	(DISEASE—EACH EMPLOYEE)

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

POLICY HOLDER
 ALAMEDA COUNTY ENVIRONMENTAL
 HEALTH DEPARTMENT
 HAZARDOUS MATERIAL DIVISION
 2331 HARBOR BAY BLVD.
 ALAMEDA, CA 94501

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Robert H. Loyell

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)

7/8/94

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

Perry Paraskevas
 915 Ralston Ave. #A
 Belmont, CA 94002

COMPANIES AFFORDING COVERAGE

- COMPANY LETTER **A** First Financial Insurance
- COMPANY LETTER **B**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

Ben's Truck & Equipment Inc.
 P.O. Box 732
 Red Bluff, CA 96080

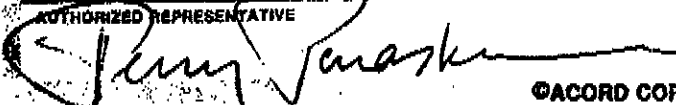
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TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS
GENERAL LIABILITY COMMERCIAL GENERAL LIABILITY CLAIMS MADE OCCUR. OWNER'S & CONTRACTOR'S PROT.	TBA	6-10-94	6-10-95	GENERAL AGGREGATE \$2,000 PRODUCTS-COMP/OPS AGGREGATE \$1,000 PERSONAL & ADVERTISING INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MEDICAL EXPENSE (Any one person) \$5,000 COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
AUTOMOBILE LIABILITY ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS HIRED AUTOS NON-OWNED AUTOS TRAILER LIABILITY				EACH OCCURRENCE \$ AGGREGATE \$
EMPLOYER'S LIABILITY EMPLOYER'S LIABILITY FORM SICKNESS COMPENSATION AND EMPLOYER'S LIABILITY				STATUTORY \$ (EACH ACCIDENT) \$ (DISEASE—POLICY LIMIT) \$ (DISEASE—EACH EMPLOYEE)

DEFINITION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS
 CERTIFICATE HOLDER IS NAMED AS ADDITIONAL INSURED PER THE ATTACHED CG2010 FORM.

CERTIFICATE HOLDER
 ALAMEDA COUNTY ENVIRONMENTAL
 HEALTH DEPARTMENT
 HAZARDOUS MATERIAL DIVISION
 131 HARBOR BAY BLVD.
 ALAMEDA, CA 94501

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE


STANDARD AGREEMENT

APPROVED BY THE ATTORNEY GENERAL

STD. 2 (REV. 5-91)

CONTRACT NUMBER 54U271S-6	AM. NO.
TAXPAYER'S FEDERAL EMPLOYER IDENTIFICATION NUMBER 94-2613306	

THIS AGREEMENT, made and entered into this 1st day of October, 1993 in the State of California, by and between State of California, through its duly elected or appointed, qualified and acting

TITLE OF OFFICER ACTING FOR STATE Director	AGENCY Department of Transportation	hereafter called the State, and
CONTRACTOR'S NAME Ben's Truck & Equipment, Inc., DBA B. & S. Construction , hereafter called the Contractor.		

WITNESSETH: That the Contractor for and in consideration of the covenants, conditions, agreements, and stipulations of the State hereinafter expressed, does hereby agree to furnish to the State services and materials as follows: *(Set forth service to be rendered by Contractor, amount to be paid Contractor, time for performance or completion, and attach plans and specifications, if any.)*

Article I - Description

This is a Master Multiple Provider Contract with prequalified and approved service providers who have agreed to provide personnel, equipment, materials, transportation and facilities to perform identification, evaluation, removal, hauling and/or disposal of hazardous waste from within the limit of State Highway Right of Way in accordance with the Contractor's proposal and price schedule attached hereto and incorporated by reference (Attachment A).

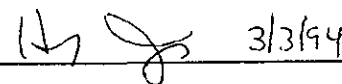

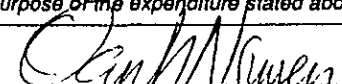
Article II - Statement of Work

A. Scope of Services

The Contractor under this master service contract will provide services as requested by Caltrans (Department of Transportation) in connection with clearance of right of way of unknown hazardous materials and/or

CONTINUED ON _____ SHEETS, EACH BEARING NAME OF CONTRACTOR AND CONTRACT NUMBER.

The provisions on the reverse side hereof constitute a part of this agreement. IN WITNESS WHEREOF, this agreement has been executed by the parties hereto, upon the date first above written.

STATE OF CALIFORNIA		CONTRACTOR			
AGENCY Department of Transportation		CONTRACTOR (If other than an individual, state whether a corporation, partnership, etc.) Ben's Truck & Equipment, Inc			
BY (AUTHORIZED SIGNATURE)  3/3/94		BY (AUTHORIZED SIGNATURE) 			
PRINTED NAME OF PERSON SIGNING Hely Jones		PRINTED NAME AND TITLE OF PERSON SIGNING			
TITLE Headquarters Contract Officer		20805 Montgomery Road Red Bluff, CA 96080			
AMOUNT ENCUMBERED BY THIS DOCUMENT \$ 1,500,000.00	PROGRAM/CATEGORY (CODE AND TITLE) Transportation		FUND TITLE State Hwy. Acct.		
	(OPTIONAL USE) DISTRICT LAG				
PRIOR AMOUNT ENCUMBERED FOR THIS CONTRACT \$ 0	ITEM 2660-001-042	CHAPTER 55	STATUTE 93	FISCAL YEAR 93/94	
TOTAL AMOUNT ENCUMBERED TO DATE \$ 1,500,000.00	OBJECT OF EXPENDITURE (CODE AND TITLE) 54051 VARIOUS 6040				
I hereby certify upon my own personal knowledge that budgeted funds are available for the period and purpose of the expenditure stated above.		T.B.A. NO.	B.R. NO.		
SIGNATURE OF ACCOUNTING OFFICER 		DATE 2-9-94		Department of General Services Use Only Exempt from Dept. of General Services	

582 P02

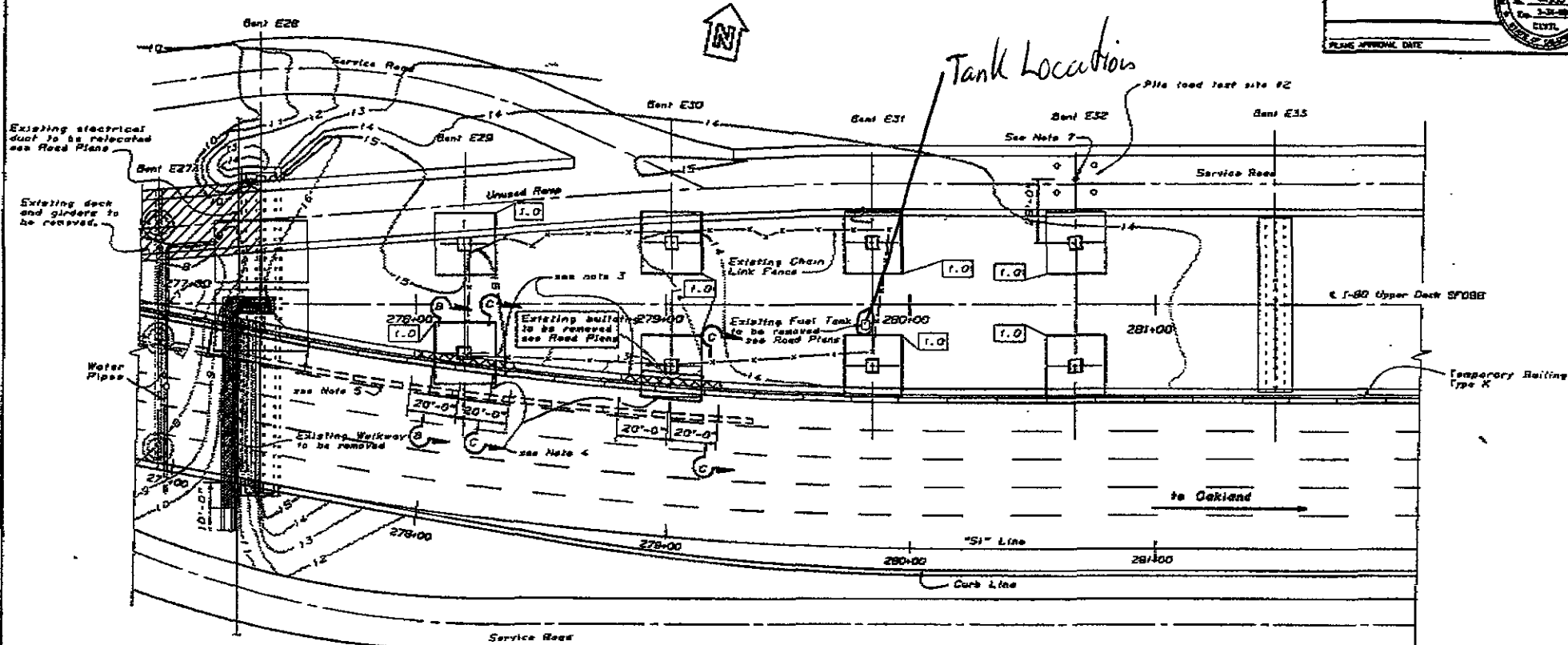
RICHMOND CONSTRUCTION

JUL 06 '94 07:43

Upper Deck not shown for clarity.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

DIST.	COUNTY	ROUTE	POST MILE TOTAL PROJECT	SHEET NO. OF SHEETS
04	ALA	80		
REGISTERED ENGINEER - CIVIL				
PLANS APPROVAL DATE				



- Notes:
- For staging and siting details, see Road Plans.
 - Stage 1:
-Construct footings and columns of Bents E24L, E25L, E25R, E27L, E27C, E28 through E33 and E36.
-Construct 8' x 20' pile caps at Bents E24R, E25R, E26R and E27R.
 - Remove and reconstruct 40'-0" section of existing barrier. For Sections B-B and C-C, see "Bent E24-E33 - Barrier Details" sheet.
 - Moveable steel cover plate with attached Temporary Railing Type K to be in place when lane closure not present.
 - Position Temporary Railing Type K to protect work area when lane closure is present and steel cover plate is removed.
 - Bottom of footing elevation indicated by elev.
 - For test pile layout and details, see "Load Test Pile Details No. 1 and No. 2" sheets.

PLAN
1" = 20'-0"

SEISMIC RETROFIT PROJECT No. 614		SFOBB - BENT E24 TO E33 RETROFIT	
STATE OF CALIFORNIA	DEPARTMENT OF TRANSPORTATION	SECTION OF STRUCTURES	STRUCTURE DESIGN 2
JOHN E. GAULT		REGISTERED ENGINEER - CIVIL	
PROJECT NO. 614		SHEET NO. 35-38	
DATE: 7.0-2.5		SITE PLAN - STAGE 1	

Ben's Truck & Equipment, Inc.

GENERAL ENGINEERING CONTRACTOR • LIC. #677697-A
HAZARDOUS WASTE & TANK REMOVAL • ROAD BUILDING
2060 MONTGOMERY RD. • P.O. BOX 732 • RED BLUFF, CA 96080
(916) 527-5040 • FAX (916) 527-9170

REMOVAL PLAN

July 7, 1994

Department of Environmental Health
Hazardous Material Division
1331 Harbor Bay Blvd.
Alameda, CA 94501
ATTN: Susan Hugo

RE: Bay Bridge Tank Removal

Plan for removal of one 500 gallon underground storage tank containing kerosene. All pertinent EPA, OSHA, Federal, State and County regulations will be followed during all portions of the work.

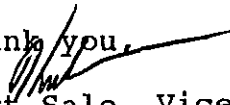
The top of the tank will be exposed, and all connective piping will be drained into the tank. The remaining product in the tank will be placed in a B.T.E. vacuum truck, manifested, and hauled to a fully permitted disposal facility for recycle.

The tank will then be purged with carbon dioxide. Once L.E.L. or oxygen levels meet County Requirements, the tank will be loaded on an Erickson Tank truck, located at 255 Par Blvd. Richmond, CA, and manifested to their facility. All soils excavated during tank removal shall be stockpiled on visqueen and covered with visqueen on site.

One soil sample will be taken from one end of the tank, and forwarded to Alpha Labs for analytical testing. The soil samples will be tested for T.P.H.D., B.T.E.X., and total lead. There will be a 48-hour turn-around on the soil sampling. The County will receive results of all analytical test results, and copies of all manifests.

If you should have any questions, or require additional information, please do not hesitate to contact me. I can be reached at (916) 527-5040.

Thank you,


Kurt Sale, Vice President
Ben's Truck & Equipment, Inc.

**SITE SAFETY & HEALTH PLAN
TANK REMOVAL
EAST SIDE BAY BRIDGE**

I. GENERAL

**A. SITE: East Side Bay Bridge
Station 279+80**

B. PROJECT DESCRIPTION:

Removal and disopse of 1-500 gallon Kerosene tank and product. All pertinent EPA, OSHA, Federal, State, and County regulations will be followed during all portions of the work.

C. CONTACTS:

BEN'S TRUCK & EQUIPMENT, INC.
2060 Montgomery Road
P. O. Box 732
Red Bluff, CA 96080

Site Safety Officer: Kurt Sale (916) 527-5040
Technician Level 3: Larry Rogers (916) 527-5040
Field Supervisor: Pat Adams (916) 527-5040

Owner/Client: Steve Russell
Cal Trans District 4
Richmond Office (510) 231-7116

Police 911

Fire Department 911

Ambulance 911

**Alta Bates Hospital (510) 204-4444
2450 Ashby Avenue
Berkeley, Ca 94705**

D. IMPLEMENTATION PROCEDURES:

All Ben's Truck & Equipment, Inc. employees shall be familiar with, and have in their possession a copy of this safety plan during all work. A representative from each contractor/subcontractor shall be provided with a copy.

A tailgate safety session shall be held prior to beginning of work and at least every working day thereafter for the duration of the project. Safety discussions shall include the Code of Safe Practices, general safety guidelines, safety related to air quality hazards, and safety hazards specific to the site.

II. SITE SPECIFIC SAFETY HAZARDS

A. FUEL TANKS/OTHER HAZARDOUS MATERIAL ON SITE

The tanks scheduled to be excavated formerly contained kerosine. There is a potential for petroleum fumes, however, no unusual hazards are known to exist on the site.

B. OTHER SITE HAZARDS & HAZARDOUS ACTIVITIES

All proposed stockpile areas are located on the property. Underground utilities will be located prior to excavation with the assistance of the owner.

III. SAFETY CONTROL MEASURES

A. OPERATIONAL CONSTRAINTS:

Workday operation is suitable. Facilities are available for on site equipment storage. No smoking is allowed in the vicinity of stockpiled soils, or buffer zone. Equipment is to be kept clean and stored in the proper safe location when not in use.

All underground utilities in the area shall be identified and marked by the property owner prior to project commencement.

Cross-contaminated will be avoided by cleaning all sampling equipment with a TSP wash and clean water rinse prior to and between all sampling events.

B. SITE CONTROL:

A buffer exclusion zone will be established extending at least 15' from the actual operations area in all directions; no unauthorized persons shall be allowed inside. All vehicular and pedestrian traffic will be excluded from the area during the period of operations. Area is fenced.

C. SITE MONITORING/SAFETY-HYGIENE EQUIPMENT:

A gastech meter will be on site at all times.

A first aid kit and at least two fire extinguisher shall be on site, with the location known to all personnel.

D. PERSONAL PROTECTION:

Level D personal protection is acceptable, including: normal work garments, safety glasses, ankle-high leather boots with steel toes, gloves, hard hats, and safety glasses. Nitrile gloves will be worn in cases where petroleum or metal contaminated soil is handled.

All field personnel involved shall have a NIOSH approved air purifying half-face respirator, fitted with approved organic vapor cartridges (Willson R21 or equivalent). Respirators shall be inspected, maintained, stored and cleaned in accordance with standard procedures and the company respirator protection program; cartridges shall be replaced not less than every 8 continuous hours exposure to detectable organic vapors. All personnel shall be trained in proper use of the respirator, and possess the standard 8 hour OSHA safety training update within the past year. (Certificate attached)

E. WASTE MANAGEMENT:

Remaining product in tank will be loaded in a B.T.E vacuum truck, manifested and hauled to a fully permitted disposal facility for recycle.

The underground tank to be loaded on a Erickson Tank truck, located at 255 Par Blvd, Richmond, CA and manifested to their facility. All soils excavated during tank removal shall be stockpiled on visqueen and covered with visqueen on site.

IV. EMERGENCY PROCEDURES

1. When possible, and where safe, disengage any potential hazard to public health or environment (i.e., shut off machinery, valve, etc.)
2. Notify appropriate emergency personnel (page 1).
3. Seek medical attention (hospital or ambulance; page 1)
4. Notify Project Supervisor and Owner.
5. Document circumstances of injury and collect names, addresses, and statements from any witnesses.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION
2101 WEBSTER STREET, SUITE 500
OAKLAND, CA 94612
(510) 286-1255



Mr. Joe Browne
District Director
Department of Transportation, Caltrans District 4
1121, 7th Street
Oakland, CA 94623-0660

September 8, 1994
File No.: 2223.09 (SA)
NBT Case File

Attention: Ms. Kathleen Pargett

Subject: Modifications to monitoring requirements, NPDES permit CA0029980, Cypress Reconstruction Project, Oakland, Alameda County.

Dear Mr. Browne:

Board Staff reviewed a request, dated August 25, 1994, to modify the Self-Monitoring Program for NPDES permit No. CA0029980, regulating the discharge of groundwater generated during the Cypress reconstruction project. I understand my staff discussed the modifications with your staff and consultants. We concur with the proposed modifications with the following clarifications:

1. Groundwater that falls under 'category 2.1 a' of the request will be discharged only after receipt of analytical results, confirming compliance with the permit requirements, during the first week of dewatering.
2. Groundwater that falls under 'category 2.1 c' of the request will be discharged only after receipt of analytical results of the effluent water samples, confirming compliance with the permit requirements.
3. If the treatment system is shut down for more than 120 consecutive hours for maintenance, repair, violations etc., effluent samples will be collected daily and discharge will occur only after receipt of the analytical results, for the first week of the start up period.

The Self-Monitoring Program for NPDES permit No. CA0029980 will be modified in the future to reflect the proposed modifications.

DEPARTMENT OF TRANSPORTATION

1121 7th Street
Oakland, CA 94607
(510) 286-0704

Contract No. 04-192224, 19228
Cypress Contracts "C" and "D"
and 04-1922F4 (Valentine)
In Oakland in Alameda County



CALIFORNIA REGIONAL WATER

AUG 25 1994

August 25, 1994

QUALITY CONTROL BOARD

California Regional Water Quality Control Board

Mr. Steve Ritchie

2101 Webster Street, Suite 500
Oakland, CA 94612

Attention: Mr. Sumadhu Arigala

Subject: Monitoring Requirements, NPDES Permit CA0029980, Cypress Reconstruction Project, Oakland, California

In accordance with your communications with Mr. Krasnoff and Dr. Russell of System Operation Services, Inc., we are writing to request modifications to the Self-Monitoring Program for the discharge from the construction dewatering activities regulated under National Pollutant Discharge Elimination System (NPDES) Permit No. CA0029980. Based on successfully meeting all discharge limitations of the permit with our ground water treatment system at the Cypress Reconstruction Project, and preliminary discussions with Regional Water Quality Control Board (RWQCB) staff, we are requesting a revised monitoring program.

1.0 BACKGROUND

The California Department of Transportation (Caltrans) is reconstructing the Cypress Freeway in the cities of Emeryville and Oakland, California (the Site). Approximately 300 footing excavations will be excavated along the new freeway alignment. The excavations need to be dewatered for the construction of the structure footings. Residues from historical activities in the area and background levels of chemicals present in the extracted shallow ground water have required treatment prior to discharge. The water from the excavation dewatering has been treated and either discharged to the East Bay Municipal Water District's (EBMUD) sanitary sewer collection system or used for dust control during construction activities at the Site.

Originally, Caltrans proposed to implement treatment of the extracted ground water by gravity settling in above ground storage tanks. However, settling alone was not effective in consistently meeting the discharge goals. Subsequently, Caltrans has treated over 850,000 gallons (a total of 43 - 20,000 gallon storage tanks) of extracted ground water with a specially designed wastewater treatment plant. The water is being treated by a batch process using both polymer for metals removal and powdered activated carbon (PAC) for removal of organics. The treatment system uses three - 350 gallon batch tanks, processing in parallel. Approximately 300 pounds of polymer and 30 pounds of PAC are added for each 20,000 gallons of water treated. The polymer breaks oil emulsions, precipitates heavy metals and reduces suspended solids. The PAC adsorbs dissolved organics. Each batch is processed for approximately 20 minutes, allowing for both extended contact and settling time. Sludge from the process is pumped through a dewatering bed. The supernatant from the process is filtered through 20 micron filters and discharge to a closed top 20,000 gallon storage tank for storage prior to discharge.

After each tank has been processed, four samples are collected from the surface, three, six and nine feet below the surface for laboratory compositing. The samples are analyzed for metals by EPA methods 6000/7000, cyanide by EPA Method 335.2, volatile organic compounds by EPA Method 624, semi-volatile organics by EPA Method 625, total petroleum hydrocarbons as gas and diesel by Modified EPA Method 8015, ethylene dibromide by EPA Method 504, and unionized ammonia by EPA Method 350.2. In addition, pH and dissolved oxygen are also recorded. Due to the volume of water being processed each day, (40,000 to 60,000 gallons), samples are analyzed on a 72-hour turn-around-time basis for confirmation prior to discharge. The treatment process has consistently produced effluent in compliance with the Caltrans NPDES permit requirements. A summary of the analytical results for the discharged water is presented on Table 1. Table 2 presents the analytical results for each tank of water discharged.

2.0 MONITORING PLAN MODIFICATIONS

Based on the demonstrated effectiveness of the treatment system in removing the chemicals of concern, modifications to the monitoring plan have been discussed with RWQCB staff. Modifications discussed with staff included:

1. Addition of Excavation Water Sampling,
2. Use of weekly composite analyzed for compliance monitoring,
3. Discharge prior to receipt of analytical results, and
4. Reduction in the number of analytes required, based on influent water quality.

A flow chart depicting the impacts of the proposed monitoring changes is shown in Figure 1. Details of the proposed modifications are presented below:

2.1 Addition of Influent Water Sampling

Caltrans proposed to collect water samples from each of the 300 excavations. The water samples will be analyzed for the full suite of analytes as currently required in the NPDES permit. The results of the analyses will be used to characterize the ground water, identifying whether the ground water quality:

- a. Complies without treatment,
- b. Is similar to other excavations, or
- c. Is different from other excavations.

The results of the excavation water quality analyses will determine how the water will be handled. The following summarizes the proposed protocol.

A) Water Quality Complies Without Treatment

If the water quality results indicate that no treatment is required, samples will be collected daily for the first week of active dewatering to confirm whether water quality is impacted by dewatering activities. If, after one week of monitoring results indicate that the water quality is consistent, sampling and analyses would be adjusted to weekly composites, for the suite of analytes detected.

B) Water Quality is Similar to Other Excavations

Alternatively, if the water quality in the excavation indicates that the ground water requires treatment prior to discharge, the water quality will be compared to other open excavations in the local area. If the

water quality is similar to that of previously sampled water, no modifications in the treatment or monitoring would be implemented. (weekly composites...)

C) Water Quality is Different from Other Excavations

If, however, the water quality is different from other excavations, modifications to treatment and/or modifications to the monitoring program will be implemented. If changes in the monitoring plan are warranted, samples will be collected daily from the effluent tank for one week to confirm effectiveness of the treatment. The water will not be discharged until laboratory analyses are available to confirm compliance with the permit requirements. After a week, it will be weekly composites??

2.2 Weekly Composites

Based on the historical compliance monitoring water quality results, it is apparent that adequate data has been generated to confirm the effectiveness of the existing treatment system. The NPDES permit as written, was predicated upon Caltrans performing batch treatment, wherein the tanks were used for settling. However, Caltrans is currently using a wastewater treatment process to treat each tank of water to meet all conditions of the permit. The consistent demonstration of achieving the effluent quality obviate the need for testing each batch.

Effluent monitoring using weekly composites is proposed, whereby a sample would be collected daily and composited for weekly analysis. Weekly composite sampling will provide for representative effluent monitoring while optimizing analytical requirements. Weekly composites would be collected for heavy metals (EPA Method 6000/7000 or EPA Method Series 200) and volatile organic compounds (EPA Method 624). If other constituents are identified in the excavation sampling, the suite of analytes will be expanded.

2.3 Discharge Prior to Receipt of Analyses

The Cypress Project is currently generating 40,000 to 60,000 gallons per day of water for treatment. The current procedure of holding water prior to receipt of laboratory analytical results is a burden, both economically and operationally. The laboratory analytical periods (3 to 5 days) require Caltrans to maintain at least five holding tanks for each tank treated. The projects produce 2 tanks of water each day and after these tanks are treated, analytical results must be received prior to discharge. To prevent delay to the work, additional holding tanks are required to hold the water until analytical results arrive. The ground water production is expected to exceed 100,000 gallons per day, which would require over 25 effluent holding tanks to allow for laboratory processing times. The consistent effluent water quality does not warrant Caltrans providing effluent holding. Generally, NPDES permits do not require holding of wastewater for analytical confirmation prior to disposal. We propose that this NPDES permit be modified to allow for treatment and discharge prior to analytical confirmation.

2.4 Reduction in Analytes Based on Influent Water Quality

The water quality at the Cypress Reconstruction Site has been consistent. Monitoring has not detected the presence of a number of groups of analytes including: semi-volatile organics as measured by EPA Method 625, ethylene dibromide as measured by EPA Method 504, or total petroleum hydrocarbons as gasoline or diesel as measured by Modified EPA Method 8015. Based on the absence of these compounds in the analytical results, Caltrans proposes that future analytical work be structured to identify those groups of compounds detected. The excavation water quality would be used to establish which groups of compounds would be analyzed. Due to the historical water quality


Mr. Steve Ritchie
August 25, 1994
Page 4

monitoring results, Caltrans proposes to continue to monitor for heavy metals measured by EPA Method 6000/7000 or Series 200) and volatile organic compounds by EPA Method 624.

3.0 SUMMARY

Caltrans has implemented an effective treatment and monitoring program to control the effluent quality of water generated during dewatering activities at great cost. The monitoring program has revealed consistent effluent water quality, complying with the NPDES discharge limits. Caltrans has reviewed the results and is proposing a revised monitoring program. The revised monitoring program has been designed to provide quality control on discharges while optimizing analytical requirements and reducing costs to the State.

If you have any questions or wish to discuss these modifications, please call Kate Pargett at (510) 286-0709.


Joe Browne
District Director, Caltrans District 4

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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.	
REPORT DATE M 8 D 18 Y 94		CASE #		SIGNED: <i>[Signature]</i> DATE: 3-30-95	
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Steve Russell		PHONE (510) 231-7116		SIGNATURE <i>[Signature]</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME Caltrans District 4		
	ADDRESS 3401 Regatta Blvd. Richmond CA				
RESPONSIBLE PARTY	NAME Caltrans District 4 <input type="checkbox"/> UNKNOWN		CONTACT PERSON Steve Russel		PHONE (510) 231-7116
	ADDRESS				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) East Bay Service Road		OPERATOR		PHONE ()
	ADDRESS SFO Bridge (Toll Plaza)				
	CROSS STREET Interstate 80				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Health		CONTACT PERSON Susan Hugo		PHONE (510) 567-6700
	REGIONAL BOARD San Fran Bay Reg. Water Control Board		CONTACT PERSON Kevin Graves		PHONE ()
SUBSTANCES INVOLVED	(1) NAME Kerosene			QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2)			<input type="checkbox"/> UNKNOWN	
DISCOVERY/ABATEMENT	DATE DISCOVERED M 7 D 2 Y 94		HOW DISCOVERED <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE M 7 D 2 Y 94				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> CORROSION <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input checked="" type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FR) <input type="checkbox"/> ENHANCED BIO DEGRADATION (BT) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT)				
	COMMENTS				

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

II.A BUSINESS PLANS (Title 19)

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

II.B ACUTELY HAZ. MATLS

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

III. UNDERGROUND TANKS (Title 23)

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

Site ID # _____ Site Name Cal Trans - East Bay Today's Date 7/20/94
 Service Road Tent
 Site Address San Francisco - Oakland Bridge
 City Oakland Zip 94607 Phone _____
 ___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

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

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

Comments: TANK - underneath the Bay Bridge/near the bay.
 1 - UGT Removal = steel tank
 DWIGHT LANGFORD = Oakland Fire Dept.
 3% = O = O = LEL
 Tank has not been used for approx 10 yrs.
 - approx. 45 gal product pumped out of the tank.
 - need to characterize/analyze product stored in tank. (run TPH gas, Diesel, benzene BTEX) - include lead on 2 bottom samples
 DEYANNA LTD - tank hauler 428261 exp 4/95
 Manifest # 93158452
 One soil sample collected from each end of the tank
 Stockpiled soil must be characterized - One sample/20 cu yds for reuse on site, must be approved by this agency.
 - no dispenser nor piping associated with the tank present on site, only vent pipe. Need approval from this Agency before backfilling the excavation pit.

II, III

Contact: _____

Title: Ass. Res. Engineer

Signature: [Signature]

Inspector: _____

Signature: [Signature]

TANK REMOVED 7/20/94



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

COMPLETE THIS FORM FOR EACH FACILITY/SITE

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

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

DBA OR FACILITY NAME East Bay Service Road rent		NAME OF OPERATOR Cal Trans Dist. 4		
ADDRESS S.F.O. Bridge East Bay Toll Plaza		NEAREST CROSS STREET	PARCEL # (OPTIONAL)	
CITY NAME Oakland,		STATE CA	ZIP CODE 94607	SITE PHONE # WITH AREA CODE
<input checked="" type="checkbox"/> BOX TO INDICATE	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> LOCAL-AGENCY DISTRICTS*
		<input type="checkbox"/> COUNTY-AGENCY*	<input checked="" type="checkbox"/> STATE-AGENCY*	<input type="checkbox"/> FEDERAL-AGENCY*
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST <u>Steven C. Russell</u>				
TYPE OF BUSINESS	<input type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 3 FARM	<input type="checkbox"/> 4 PROCESSOR
	<input checked="" type="checkbox"/> 5 OTHER	<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE 1	E. P. A. I. D. # (optional) NA

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) Russell, Steven	PHONE # WITH AREA CODE (510) 231-7116	DAYS: NAME (LAST, FIRST) Jim Ross	PHONE # WITH AREA CODE (510) 286-5629
NIGHTS: NAME (LAST, FIRST) Russell, Steven	PHONE # WITH AREA CODE (415) 474-6409	NIGHTS: NAME (LAST, FIRST) Mike Condic	PHONE # WITH AREA CODE (510) 284-1424

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME Cal Trans Dist. 4	CARE OF ADDRESS INFORMATION Steven C. Russell		
MAILING OR STREET ADDRESS 3401 Regatta Blvd.	<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME Richmond	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input checked="" type="checkbox"/> STATE-AGENCY
	<input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> FEDERAL-AGENCY	
	STATE CA	ZIP CODE 94804	PHONE # WITH AREA CODE (510) 231-7116

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER Cal Trans Dist. 4	CARE OF ADDRESS INFORMATION Steven C. Russell		
MAILING OR STREET ADDRESS 3401 Regatta Blvd.	<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME Richmond,	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input checked="" type="checkbox"/> STATE-AGENCY
	<input type="checkbox"/> COUNTY-AGENCY	<input type="checkbox"/> FEDERAL-AGENCY	
	STATE CA	ZIP CODE 94804	PHONE # WITH AREA CODE (510) 231-7116

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ 44- [] [] [] [] [] [] [] [] [] []

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input checked="" type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 99 OTHER	

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

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

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

OWNER'S NAME (PRINTED & SIGNED) Rep: Steven C. Russell	OWNER'S TITLE Assis. Res. Engineer	DATE MONTH/DAY/YEAR 7/8/94
-----------------------------------------------------------	---------------------------------------	-------------------------------

LOCAL AGENCY USE ONLY

COUNTY # [] []	JURISDICTION # [] [] []	FACILITY # [] [] [] [] [] []
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415) 271-4320

CONFIDENTIAL

TO: Alameda County Health Care Services Agency
Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Suite 200
Oakland, CA 94621
ATTN: Chief, Hazardous Materials Division

**MEDICAL CERTIFICATION FOR RESPIRATOR AND
PERSONNEL PROTECTIVE EQUIPMENT USE**

Barney M. Chan

Name of Examinee

_____ Date

The above named employee has been medically examined under provisions of the Alameda County HCSA Occupational Medical Monitoring Program for Field Health and Safety and has been advised of the examination findings:

In the opinion of the examining physician, this employee:

_____ is medically qualified to wear a full face air purifying respirator and/or a self-contained breathing apparatus and/or supplied air respirators.

_____ is medically qualified to wear only a full-face air purifying respirator.

_____ is not medically qualified to wear respiratory protective equipment.

_____ is medically qualified to wear impermeable full body suits.

_____ is not medically qualified to wear impermeable full body suits.

Signature of Examinee

Signature of Examining Physician

Signature, Director of Environmental
Health Representative, Division of
Hazardous Materials

Date

TANK REMOVED 00194

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



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

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

DBA OR FACILITY NAME WHERE TANK IS INSTALLED:

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

A. OWNER'S TANK I.D. #	NA	B. MANUFACTURED BY:	NA
C. DATE INSTALLED (MO/DAY/YEAR)	NA	D. TANK CAPACITY IN GALLONS:	NA

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

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input checked="" type="checkbox"/> 5 JET FUEL	<input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED: Kerosene 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 SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input checked="" type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>NA</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>NA</u>

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

V. TANK LEAK DETECTION

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

VI. TANK CLOSURE INFORMATION

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

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

APPLICANT'S NAME (PRINTED & SIGNATURE) <u>Steven C. Russell</u>	DATE <u>7/8/94</u>
--------------------------------------------------------------------	-----------------------

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

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

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

M E M O R A N D U M

TO: Ariu Levi
FROM: Pam Evans
SUBJECT: Periodic Physicals
DATE: 10/24/91

The following staff members have been scheduled for periodic physicals:

Larry Seto
Susan Hugo
Barney Chan
Tom Peacock
Lowell Miller

Since I haven't been able to get a date for you yet, I've attached the forms you'll need for your appointment, and on them you'll find Dr. Cooper's number. You can call directly and set up a time for yourself. As of today, there were a number of appointments available still for the week of November 4 - 8.

655-3420

Occupational H.S.
4001 Howe St
Oakland

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

2101 WEBSTER STREET, SUITE 500

OAKLAND, CA 94612

(510) 286-1255



Mr. Joe Browne
District Director
CalTrans, District 4
111 Grand Avenue
Oakland, CA 94612

June 24, 1994
File No.: 2223.09 (SA)

RE: Cypress Reconstruction Project-Groundwater Re-use Plan

Dear Mr. Browne:

This is in response to a letter, dated June 14, 1994, from your Staff regarding the proposed reuse of de-watered groundwater for dust control at the Cypress reconstruction facility, Oakland. The letter requests a waiver of the iron discharge limit, which was set at the MCL limit, for the groundwater reuse plan.

I understand groundwater generated from your construction de-watering activities has been consistently showing metals below MCLs after treatment, except for iron. Iron in the treated groundwater has been detected at levels higher than the MCL. In view of the proposed dust control groundwater re-use, and the inability of the treatment system to achieve the MCL limit for iron, the discharge limit for iron may be increased to 1000 ppb.

Please note that this exception is only for iron, discharge limits for all other constituents and other discharge conditions/ requirements should be as outlined in a previous letter from this Office to you, dated May 17, 1994.

Please contact Sumadhu Arigala at (510) 286-0434, if you have any questions regarding this letter.

Sincerely,

Steven R. Ritchie,
Executive Officer

A handwritten signature in black ink, appearing to read "Stephen Morse", is written over the typed name.

Stephen Morse,
Chief, Toxics Cleanup Division

CC: Rui Zhang, CalTrans

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

2101 WEBSTER STREET, SUITE 500

OAKLAND, CA 94612

(510) 786-1255



Mr. Joe Browne
District Director
California Department of Transportation
District 4
111 Grand Avenue
Oakland, CA 94612
Attn: Diane Steinhauser

May 17, 1994

File: 2223.09 (R04)

RECEIVED

MAY 18 1994

CALTRANS
Construction
Oak / West Office

RE: Cypress Reconstruction Project - Groundwater Re-use Plan

Dear Mr. Browne:

Your staff have submitted the subject document per Water Re-Use Limitations C.1. of Regional Board Order 94-007 (NPDES Permit CA0029980). In your plan you propose to use groundwater for dust control that meet any of the following:

- Effluent limitations in your permit,
- East Bay Municipal Utilities District Non-Potable Water standards for metals and phenolic compounds,
- State Maximum Contaminant Levels (MCLs) for metals.

Your NPDES permit specifies that re-use of treated groundwater must meet all effluent limitations. Groundwater generated from your construction dewatering activities after treatment have consistently shown low metals concentrations above these limits. The effluent limitations in your permit were promulgated to protect the beneficial uses of waters of the state. These numbers were not intended to restrict re-use for land application discharges (i.e. dust control) that would not adversely affect human health or the environment.

MCL Metals concentrations, as cited in your re-use plan, are established by the Department of Health Services, Office of Drinking Water. The Board has previously adopted water reclamation requirements, and re-use plans on other sites that meet these limits. NPDES Permit CA0029980 will be modified in the future to allow reclamation or re-use for land application meeting MCLs or standards appropriate to protect the public health, safety and welfare. Therefore I will recommend that the Board not institute any enforcement action if you commence water re-use for dust control prior to modification of your current permit, provided you comply with the following conditions:

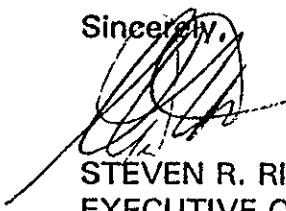
1. Groundwater shall meet MCLs for metals.
2. For all other constituents groundwater shall meet effluent limitations as specified in NPDES Permit CA0029980.

3. No Run-off.
4. No percolation to groundwater.

This authorization letter may be terminated at any time for failure to comply with the aforementioned conditions, or unauthorized discharge notification and reporting requirements as outlined in our February 28, 1994 letter to you.

Thank you for your co-operation. Please contact Richard Hiatt of my staff at (510) 286-4359 if you have any questions.

Sincerely,



STEVEN R. RITCHIE
EXECUTIVE OFFICER

cc: K. Pargett - Caltrans
C. McCuaig - Caltrans
Lynn Nakashima - DTSC

DEPARTMENT OF TRANSPORTATION

BOX 23660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454



March 7, 1994

NPDES Permit No. CA 0029980
Cypress Reconstruction Project

Mr. Lester Feldman
Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Oakland, CA 94612

Attn: Richard Hiatt

Subject: Groundwater Disposal and Reuse Plan

Dear Mr. Feldman:

Introduction

The California Department of Transportation (Caltrans) presents this Groundwater Disposal and Reuse Plan in accordance with NPDES Permit Number CA0029980 for approval by the Executive Officer of the San Francisco Bay Regional Water Quality Control Board (RWQCB) to reuse groundwater extracted from freeway construction activities as dust control for the Route I-880 Cypress Reconstruction Project.

The I-880 Cypress Reconstruction Project consists of seven (7) contracts (A - F), see Attachments 1 and 2 for the location maps. The area requiring dust control on this project is primarily in the Southern Pacific Railroad property, i.e., the job sites of contract B, C, D and F.

The project limits for Contract A are from I-980 to 0.7 mile south of 7th Street. The limits for Contract B are from 0.7 mile south of 7th Street to 0.2 mile south of West Grand Avenue, i.e., from 5th Street and 3rd Street to 18th Street and Wood Street approximately. For Contract C, the limits are from 0.9 mile north of 7th Street to 0.2 mile south of West Grand Avenue, i.e., from 13th Street to 20th Street Approximately. For Contract D, the limits are from 0.3 mile south to 0.5 mile north of West Grand Avenue, i.e., from 18th Street to 880/580 separation. The limits for Contract E are on Route 880 at West Grand Avenue and on Route 80 from 0.7 mile west to 1.0 east of Bay Bridge toll plaza. The limits for Contract F are 0.2 mile south of West Grand Avenue to 0.6 mile north of West Grand Avenue and portion of West Grand Avenue. For Contract G, the limits are on Route 880 from the Route 80/580/880 distribution structure to 0.1 mile south of the Powell Street undercrossing and on Route 80 from 0.6 mile south to 0.3 mile north of the Powell Street.

For contract C, there are 20 excavation locations with distances between footings varying from 110 feet to 160 feet. For contract D, there are 28 excavation locations, their

distances varying from 50 feet to 250 feet. See Attachment 3 and 4 for the detailed plans. Contracts B, E, F, and G are still in the design phase, therefore no detailed plans are available now. Detailed plans for these contracts will be submitted at a later date, but prior to the start of these contracts.

The areas requiring dust control are primarily unpaved access roads within the Southern Pacific Rail yard. Dust control is also required for the contaminated soil excavations. The length of the whole dust control area is approximate 2.5 miles and the width is approximate 200 feet. The total area requiring dust control is 2,640,000 square feet. The anticipated volume of water needed for dust control is approximately 115,200 gallons per day (gpd).

There are approximately 300 footing excavations that require dewatering and approximately 10,000 gpd of water will be generated from each footing excavation. This flow rate is based on a test pile research project now occurring on the Southern Pacific Railyard for the Cypress Reconstruction Project.

General Procedure for Groundwater Disposal (Pumping Between Excavations)

The groundwater generated during construction at the excavation locations will be pumped from one excavation to another excavation in order to proceed with the construction work at the dewatered excavation.

The specifications for the pumping equipment used to place the water from excavation to excavation and into the holding tanks, such as size and pump rate, will vary for each contract. The contractor will determine the type of pumping equipment to be used depending on his/her schedule of work. Once the equipment has been selected, the exact specifications of the equipment will be transmitted to the RWQCB in the quarterly monitoring reports.

Because of our construction contracting process, we cannot legally direct the contractor to use any specific type or brand of equipment. We can and will, however, require the contractor to install preventative measures to insure no water is released onto the ground surface or to any storm drain in the vicinity while pumping the water from excavation to excavation or to the holding tanks. These preventative measures will be included in the contractor's water pollution prevention plan as discussed further in this plan.

In general, the usual construction practice is to use PVC piping or cloth hoses and the accompanying joints that are water-tight. The typical size pipes are 3 or 4 inch diameter pipes or hoses. The piping is usually surrounded by timber boards for protection from other vehicles and equipment. Cloth hoses normally do not have any protective boards around them since they are designed to be traveled over. Caltrans anticipates the contractor may obtain pumps with a flow rate capacity range of 30 to 50 gallons per minute.

General Procedures for Water Reuse

Step 1: Pumping of Water into Tanks for Testing-

If required by the site conditions, construction operations or the weather, water will be pumped from the excavation to a holding tank near the excavation location for testing prior to disposal or reuse.

Step 2: Water Testing-

This water will be sampled and tested in accordance Caltrans' groundwater NPDES permit and with Caltrans' EBMUD waste discharge permit to determine disposal and/or reuse options. As stated in our groundwater NPDES permit, a composite sample will be taken from each tank. The sample will consist of four grab samples collected from the surface, three, six, and nine feet from the water surface. These samples shall be taken to a lab certified by the California Department of Health Services for compositing and analysis.

Water that meets the NPDES permit will be used as dust control. Water that does not quite meet the discharge requirements of our NPDES permit, but is comparable to EBMUD's non-potable water, which is the standard source for dust control water on construction projects, will be used as dust control. If the water does not meet either EBMUD or RQWCB limits, other disposal options will be implemented as planned in our NPDES permit application. A summary of these options are discussed later in this plan.

Potential Problem
← *

Step 3: Pumping of Water into Water Trucks-

The pumps of water trucks will be used for pumping water from holding tanks into water trucks. The pumping process will be inspected by Caltrans to ensure that water leaking or running off will be stopped immediately. The actual specifications for the water truck tank storage capacity and tank pump capacity will vary from each Contractor. As stated above in Step 2, we cannot direct the contractor to use a specific type or brand of water truck.

Step 4: Application of Water for Dust Control-

The contractor will spray the water into the areas requiring dust control and within the project limits. The anticipated spray rate to be used has been estimated to be 0.0037 gallon per square foot. The calculations for the application rate and the total volume of water needed for dust control is shown in Attachment 5.

All water trucks to be used on this project will be required to follow the Caltrans Standard Specifications for watering (see Attachment 6), such as posting signing for non-potable water on the trucks.

Caltrans do not have, however, any test data indicating the percolation rate of the soil for the project. Therefore, we cannot compare the anticipated rate of application by the water trucks to the percolation rate of the soil. But based on observations on common construction dust control practices, we do not anticipate any runoff problems to occur from the dust control application. The most common problem with construction dust control practices is that the contractor usually does not apply enough water rather than applying too much water. The contractor's earth moving equipment cannot work efficiently in soil that is too wet, so the contractor usually errs on the dry side.

Management Plan

Wet Weather :

This Water Reuse Plan will only address water to be reused for dust control as needed by construction activities. No dust control will be needed or implemented during the wet

weather. In fact, most, if not all, of construction activities will halt during the wet weather for safety and practicality. The safety hazards for construction workers and the inability and inefficiency of earth moving equipment to operate in the mud prohibit the contractors from doing work during the wet weather season. Also, if the ground is still wet enough (e.g., just after raining), there will be no dust control used.

Water Pollution Control:

The contractors will be required to submit and implement a storm water pollution prevention plan in accordance with Caltrans General NPDES Permit Number CAS000002. See Attachment 7 for the Standard Special Provision, "Water Pollution Control," that is included in all Caltrans construction contracts for your information.

To comply with the General Permit and Permit No. CA 0029980, Caltrans will investigate the job sites, especially the areas requiring dust control, to determine the areas of low grade where the ponding may occur during the wet season or from runoff and to determine the locations of nearby drainage inlets. The contractor's attention will be directed to these areas for careful consideration. The contractor will be required to prevent unauthorized discharges into all drainage inlets and low grade areas in the project from any run off caused by construction activities. Such preventative measures may include, but are not limited to: liners surrounding the water conveyance systems, in the excavations and in sumps, berms around the excavations, and sandbags around the drainage inlets.

The contractor shall also address all possible violations, such as leaking equipment and incorrect application, and remedial actions for these violations, such as equipment repairs.

Inspection:

Caltrans will inspect pumping and discharge operations, water testing, dust control, treatment and disposal associated with the construction activities. Daily reports will be written and summarized in the quarterly monitoring reports for the RWQCB.

Unauthorized Discharge:

In accordance with the groundwater NPDES Permit, Caltrans will cease all operations in the event of an unauthorized discharge occurs in the specified dust control areas as well as other areas of the project due to the contractors operations. Every effort will be made to identify and correct the situation before any work is allowed to continue. The RWQCB will be contacted verbally within twenty-four (24) hours from the time a violation occurs. A follow-up report shall be submitted within five (5) working days which will include the following:

- a. a description of the violation and its cause;
- b. the period of violation, including exact dates and times;
- c. if the violation has not been corrected, the anticipated time the system will be shut down; and
- d. the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the violation

Disposal Alternatives

If the water generated by the construction work cannot be used for dust control, Caltrans will follow the alternatives discussed in the groundwater NPDES permit and summarized here:

a. Discharge to EBMUD's sanitary sewer system

If the water in the holding tank meets EBMUD discharge limits, it will be discharged into the EBMUD sewer system. The discharge point to the EBMUD system is located at 20th and Wood Streets. See Attachment 8 for the location of the discharge point.

b. Water treatment on site

If the water does not meet discharge limits of the RWQCB or EBMUD, Caltrans will obtain a portable treatment system to meet either the RWQCB or EBMUD discharge limits.

c. Offsite disposal

If water must be disposed immediately due to the contractor's schedule or unforeseen event and does not meet either RWQCB or EBMUD discharge requirements, the contaminated water will be transported to a permitted recycling or water disposal facility for disposal.

Reporting

Summary Reports shall be submitted on a quarterly basis to the RWQCB containing the results of all measurements, analyses, and observations for pumping from excavation to excavation and for water reuse. This report will be signed by a ranking official of Caltrans or his/her representative. The quarterly reports will include the following, as well as the information previously mentioned: data summarized in tabular format, a description of the operations at each contract site for the dust control and pumping excavation to excavation, location maps and actual volumes of groundwater discharged to all alternatives (e.g. dust control, EBMUD, off-haul, storm drain). Copies of the original laboratory reports and accompanying chain-of-custody documents will be included in the quarterly reports.

If you have any questions , please contact Kate Pargett at (510) 286-0709.

Sincerely,

JOE BROWNE
District Director

By

A handwritten signature in cursive script that reads "D. Steinhauser".

DIANNE STEINHAUSER, Chief
Environmental Engineering Branch

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