OFFICE OF THE STATE ARCHITECT PHASE II SITE INVESTIGATION

for

CALIFORNIA DEPARTMENT OF TRANSPORTATION HAYWARD MAINTENANCE STATION 21195 CENTER STREET CASTRO VALLEY, CALIFORNIA

April 4, 1991

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1.0 INTRODUCTION

At the request of the Office of the State Architect, Tetra Tech, Inc. has completed a Site Investigation at the Caltrans Hayward Maintenance Station in Castro Valley, California. The purpose of the subsurface investigation was to complete the delineation of the vertical and lateral extent of petroleum contaminated soil that resulted from the previous underground storage tanks. After review of previous investigation reports, an additional eight soil borings were completed to depths of 11 to 51 feet around north, northeast, east, and southeast extent of the contaminant plume. The site investigation (SI) was conducted through on-site screening for volatile emissions, soil sampling, and laboratory analysis for halogenated volatile organics, aromatic compounds, and petroleum hydrocarbon compounds. This report includes a description of the site, a discussion of Tetra Tech's field investigations, presentation of the investigation results, and recommendations for further action.

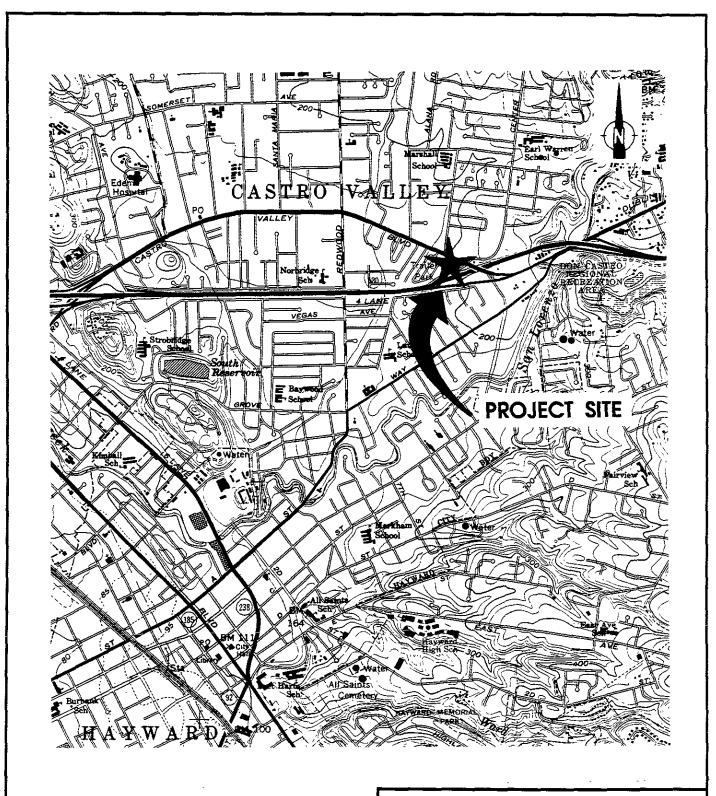
2.0 <u>SITE BACKGROUND</u>

2.1 SITE LOCATION AND DESCRIPTION

The project site is the Caltrans Hayward Maintenance Station located at 21195 Center Street in the City of Castro Valley, California. A site location map is presented in Figure 1. The site is currently managed by the State of California. Both of the underground fuel tanks at the facility have been removed. The majority of the property has been paved with asphalt or concrete, however the area where the previous tanks and dispenser island were removed has been backfilled, but not paved.

2.2 SITE HISTORY

Based on records provided by the Office of the State Architects (OSA), a 260 gallon diesel tank and a 1000 gallon gasoline tank were removed from the Hayward Maintenance Station in January of 1989. After the removing the tanks, three soil samples were collected from the bottom of the excavation for analysis. The test results from these samples indicated the presence of both gasoline and diesel contamination.





SITE INVESTIGATION
HAYWARD MAINT. STATION
CALTRANS
CASTRO VALLEY, CALIF.

TETRA TECH, INC. PASADENA, CALIFORNIA

FIGURE 1

PROJECT SITE LOCATION

In January of 1990, Geo/Resource Consultants, Inc. performed a Preliminary Site Assessment (PSA) of the petroleum contamination at the Hayward Maintenance Station. The soil investigation consisted of six soil borings that were completed in, and around, the perimeter of the previous tank excavation and dispenser island. The area of highest reported contamination was around and beneath the fuel dispensing island. The contamination beneath the former fuel island showed the presence of both gasoline and diesel contamination.

The PSA Report delineated the lateral extent of contamination plume to the northwest, west, and southwest; however did not adequately define the southeast, east, northeast, or north extent of the petroleum contamination. The vertical extent of contamination was delineated in each of the preliminary assessment borings, with the exception of PSA boring B-1. Diesel contamination was present in the final sample collected from boring B-1 at the depth of 31 feet, however no gasoline or volatile aromatic compounds were detected. A copy of the Geo/Resource PSA is presented in Appendix A.

2.3 REGULATORY AGENCY REVIEW

The results of the PSA were forwarded to both the Alameda County - Department of Health Services (ACHCSA), and the San Francisco - Regional Water Quality Control Board (SFRWQCB) for review. After review, the ACHCSA requested further subsurface investigations be performed to define the extent of the petroleum contamination. The ACHCSA is serving as the lead enforcement agency, with copies of all correspondence forwarded to the SFRWQCB.

3.0 <u>SUBSURFACE CONDITIONS</u>

3.1 SITE GEOLOGY

The subject site lies within the Castro Valley, and is bound by the Diablo Hills on the north, east and south sides, and the northwest trending Hayward fault to the west. The hills surrounding Castro Valley are the source of sedimentary deposits which have been transported mainly by sheet flow runoff and streams, and accumulate in the valley bottom.

Borings completed at the Hayward maintenance station indicate that approximately 28 to 35 feet of alluvial deposits are overlying bedrock, which consists of dark yellowish brown siltstone. These alluvial deposits consist mainly of interbedded finer grained sands, silts, and clays. Occasional sandy gravel and gravelly sand lenses were encountered.

Bedding within the alluvial deposits are anticipated to be very poorly developed, irregular, and discontinuous. Differentiated deposits included a northwesterly dipping, dark yellowish brown sandy clay which varies from approximately 3 to 15 feet in thickness. Beneath the sandy clay layer is a dark yellowish brown sandy silt which grades downward into silty sands and occasional lenses of sandy gravel. Section profiles of the facilities near surface lithology is shown in Sections A - A', and B - B' as presented in Figure 3. Boring logs completed during Tetra Tech's investigation are presented in Appendix B, while boring logs completed during the PSA are presented in Appendix A.

3.2 SITE HYDROGEOLOGY

The Hayward Maintenance Station lies within the East Bay Plain, Castro Valley Ground Water Sub-Basin, as reported by the Alameda County Flood Control and Water Conservation District. Depth to groundwater in the vicinity has been reported to historically vary from 28 to 35 feet below ground surface. As discussed in the PSA Report and addressed by Mr. Scott Seery of the ACEHCA, the recent drought conditions appear to have contributed to the decline in local groundwater levels. During Tetra Tech's boring program, moist soils were encountered from approximately 15 feet bgs to bedrock. Weathered bedrock was first encountered at approximately 34 to 37 feet bgs, where grayish fractured siltstone bedrock was encountered.

Very damp sediments were encountered at depths ranging from 11.5 to 34 feet below ground surface (bgs). Moisture bearing materials were however, generally confined to a zone of coarser grained materials 17 to 28 feet BGS. Boring B-6 was drilled to a depth of 11.5 feet at which point saturated earth materials were encountered. Saturation in boring B-6 was attributed to a leaking underground water line in the vicinity of the boring, and is not expected to be representative of local hydrogeologic conditions.

Annual fluctuations of the groundwater table are expected to occur in response to seasonal precipitation. Due to the inclination of the fine grained bedrock unit and the relative porosity of the overlying alluvium, long term retention or storage of groundwater is not anticipated within the site boundaries. Although no groundwater was encountered, Tetra Tech designed and installed a monitoring well to allow the collection and analysis of a formation water sample.

4.0 SOIL INVESTIGATION PROGRAM

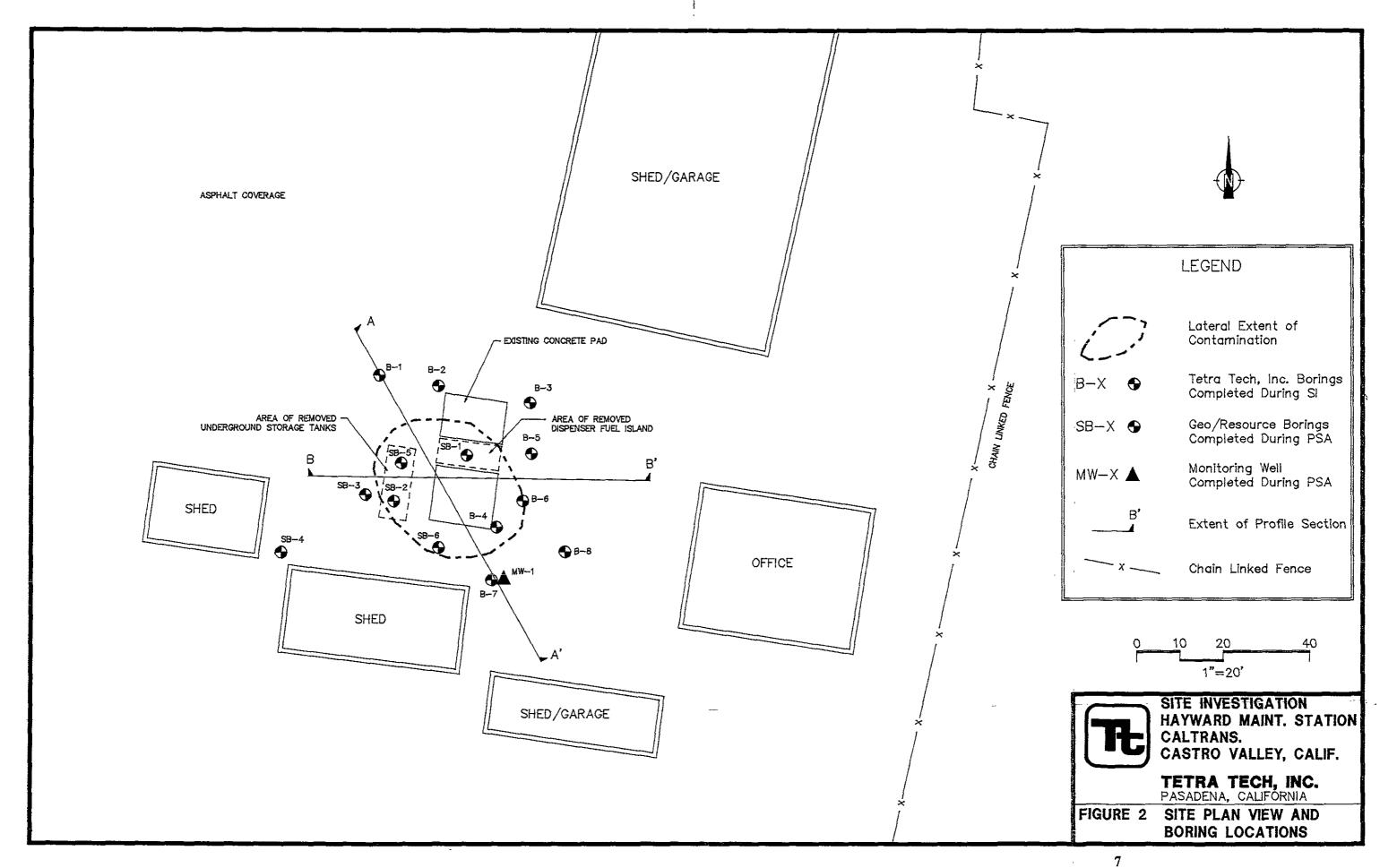
4.1 APPROACH

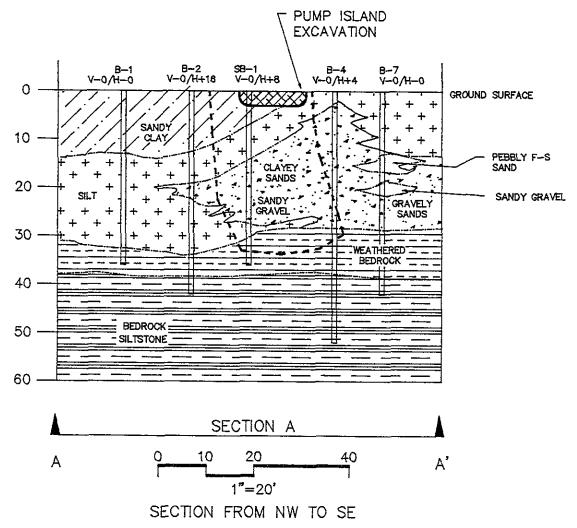
The principal objective of this investigation was to define the vertical and lateral extent of the petroleum contamination beneath the site. The investigation was focused along the eastern perimeter of the pumping island and former location of the storage tanks. Selection of boring locations were based on contaminant levels reported in the previously referenced PSA Report (see Appendix A).

4.2 DRILLING

On February 6 and 7, 1991, Tetra Tech drilled eight hollow stem auger borings to a maximum depth of 51.5 feet. The eight borings were placed in a semi-circle around the east side of the former fuel dispenser island and tank location. Each boring location was selected to determine if petroleum compounds were present in the surrounding soils. As prescribed in the work plan, borings were completed to a minimum depth of 40 feet below ground surface (bgs), or to a depth of 15 feet below any obvious contamination detected through field screening. Each boring was continued to bedrock where refusal was encountered. In order to prevent any of the eight borings from serving as a future conduit for contamination, each boring was backfilled with a bentonite slurry.

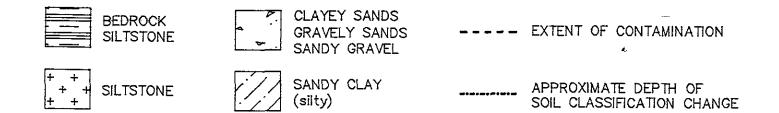
As outlined in Tetra Tech's site investigation work plan, the drilling was conducted using a standard 8-inch diameter hollow-stem auger on a CME 75 drilling rig. Hollow stem augers were used in order to allow the collection of undisturbed soil samples through the center of the augers. An overview of the site showing each boring location with respect to the previous tank excavation and dispenser island are presented in Figure 2. A cross profile of the borings with respect to the tank excavation and lithologic contacts are presented in Figure 3. Copies of photographs of the drill rig and the site are presented in Photographs 1 and 2.

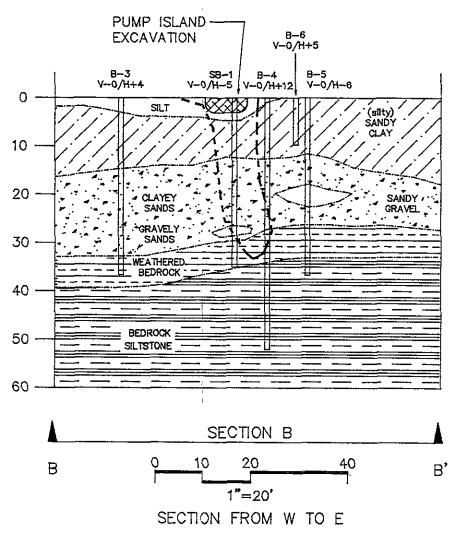




NOTE: Vertical Scale Does Not Represent Actual Elevation

LEGEND





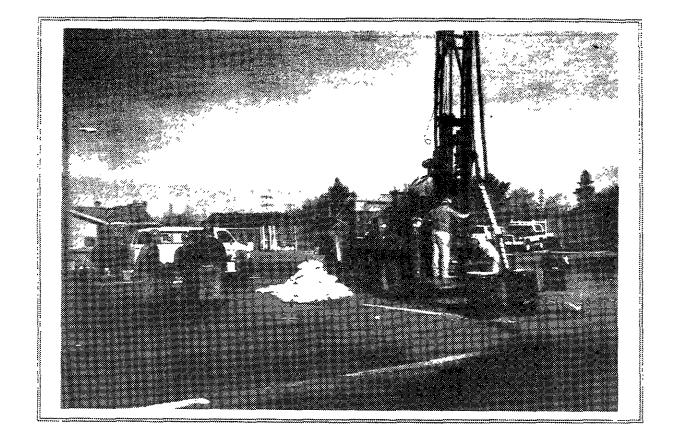
NOTE: Vertical Scale Does Not Represent Actual Elevation



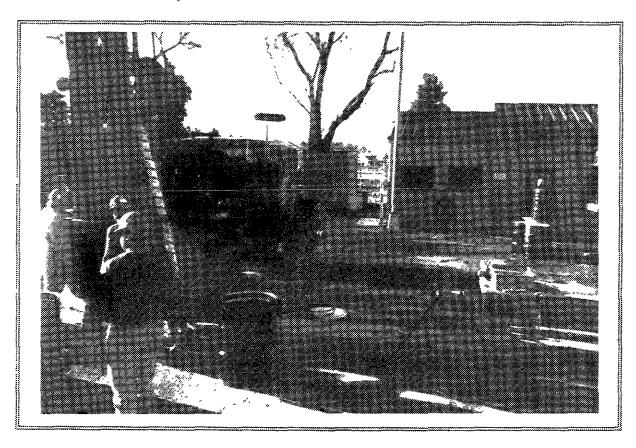
SITE INVESTIGATION
HAYWARD MAINT. STATION
CALTRANS.
CASTRO VALLEY, CALIF.

TETRA TECH, INC. PASADENA, CALIFORNIA

FIGURE 3 BORING PROFILE AND SITE SECTION VIEW



Photograph #1
Hayward Maintenance Station, Site Overview



Photograph #2
Hayward Maintenance Station, Boring Program

4.3 SOIL SAMPLING FOR CHEMICAL ANALYSIS

In order to evaluate the presence of contaminants (i.e., petroleum hydrocarbons and volatile organics), Tetra Tech collected soil samples at five foot intervals beginning at 5 bgs. Due to soil refusal and limited recovery, the final soil sample collected from each boring was used for on-site screening only. Each of the borings continued until no further visual or field screening evidence of contamination was observed. If evidence of contamination was observed, the boring was extended. The borings were continued to a minimum of 15 feet beyond the last indication of contamination.

Boring B-6 was drilled to a depth of 11.5 feet at which point saturated earth materials were encountered. The saturation appeared to be a result of leaking underground water lines in the vicinity of the boring. No water or saturation was encountered in any of the other borings. Samples were obtained from depths of 5 and 10 feet in boring B-6, with no detectable contamination. The soil sampling was conducted by a Tetra Tech project engineer and project geologist (California Registered Geologist). A total of 54 samples were collected from the eight borings. A copy of the boring logs are presented in Appendix B.

Each of the soil samples were collected using a modified California split spoon sampler fitted with brass liners. The sampler was driven into the soil in front of the drill bit to collect undisturbed samples. Three samples from each interval were collected; one for laboratory analysis, one for archiving, and one for field screening and soil description.

Preparation of the samples for laboratory analysis involved first covering both ends of the filled brass sleeve with aluminum foil, and then sealing with teflon end caps. The samples were then appropriately labelled and placed on blue ice. Sample identification numbers were recorded on a chain-of-custody form. A copy of the chain-of-custody forms are presented in Appendix C. The results of the chemical analysis results are discussed in Section 6.0, with a copy of the laboratory analysis results presented in Appendix D.

Several actions were taken to minimize the potential for cross contamination between sampling intervals. The hollow stem augers were steam cleaned prior to being delivered to the Hayward Maintenance Station. Tetra Tech set up a staging area for storing the clean brass sleeves used for collecting soil samples, and established a decontamination area to clean the split spoon sampler between each sampling drive. After each sample was obtained, the split spoon sampler was washed in a TSP solution, rinsed in clean tap water and finally rinsed in distilled water.

4.4 SOIL SAMPLING FOR ON-SITE SCREENING

As previously described, discrete soil samples were collected at each sampling interval for the purpose of on-site screening for volatile organic vapors (i.e. petroleum vapors). Field vapor monitoring was performed using a photoionization detector, Hnu Systems Model PI 101 with 10.3 eV lamp, and a flame ionization detector, Foxboro Model 128 with GC organic vapor analyzer. Prior to use, both instruments were calibrated according to manufacturer specifications, and bench tested. Field screening of soil samples was conducted according to the following procedure:

- The soil sample collected in brass liners were covered with aluminum foil and capped at one end, then emptied of half of the contents to provide a headspace. The open ends of the liners were then sealed with aluminum foil to prevent vapors from escaping.
- The sealed brass liners were then placed in the sun to allow the sample to heat and volatilize contaminants in the soil sample.
- When the sample had been sufficiently heated, the Hnu and OVA probes were used to pierce the aluminum foil sealing vapors in the head space.
 Readings obtained on the instruments were then recorded.

A summary of the field measurements are presented below in Table 4-1.

TABLE 4-1
SUMMARY OF FIELD OVA READINGS
(ppm)

				(bhiii)							
	Boring No.										
Depth (Ft)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8			
5	0*	0	9	0		0	0	0			
10	0	0	2	0	0	0	_ 0	0			
15	0	0	0	0	0		0	0			
20	0	0	_1	0	0		0	0			
25	0	0	0	0	0		0	0			
30	0	0	0	120	0		0	0			
35	0	0		12	0		0	0			
_40		0		0			0				
45				0							

SUMMARY OF Hnu Readings (ppm)

				Borir	ıg No.			
Depth (Ft)	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B -8
5	0	0	0	0		0	0	0
10	0	0	0	0	0	0	0	0
15	0	0	0	0	0		0	0
20	0	0	0	0	0		0	0
25	0	0	0	0	0		0	0
30	0	0	0	100	0		0	0
_35	0	0		0	0		0	0
40		0		0			0	
45				0				

^{* 0 =} Field screening detected no indication of volatile organics above 1 ppm.

4.5 SOIL BORING LOGS

Tetra Tech's staff geologists logged each boring by both continuous inspection of the drill cuttings and by examination of samples collected in brass liners at five foot sampling intervals. As outlined in Section 4.3, a discrete sample was collected at each sampling interval for the purpose of defining geotechnical parameters. Detailed logs were completed for each boring, and included a geotechnical description and Unified Soil Classification designation of soils encountered, blow counts required to collect samples, instrument readings, comments and any odor detected. Soil boring logs are presented in Appendix B.

5.0 GROUNDWATER INVESTIGATION PROGRAM

5.1 APPROACH

In an attempt to assess the presence of petroleum contaminants in the formation water entrained in the moist soil, a single groundwater monitoring well was installed adjacent to soil boring B-7. The monitoring well depth and screen interval was based on the best approximation of the formation wet zone that could potentially accumulate representative formation water.

5.2 DRILLING

Prior to installation of the monitoring well, Tetra Tech applied for, and received, a permit from the Alameda County Flood Control and Water Conservation District. A copy of the Well Construction Permit is presented in Appendix E. The monitoring well was installed on February 11, 1991.

The single monitoring well was constructed to a depth of 45 feet bsg. The monitoring well design, and drilling and installation procedures used by Tetra Tech, Inc. were based on standard groundwater monitoring well criteria. The well hole was drilled with an 8-inch diameter hollow stem rotary auger and converted into a permanent 4-inch diameter PVC cased well. The single monitoring well, MW-1, was installed adjacent to soil boring B-7 (see Figure 2 for well location).

5.3 WELL INSTALLATION

Upon completion of drilling, the hole was ready for well construction. The casing string, which consisted of a bottom plug set at 45 feet bgs, 20 feet of screened casing, and 25 feet of blank casing, was lowered into the hole. The auger string was then raised in five-foot increments and sand was poured into the auger. The sand filled the annulus (space between the casing and the wall of the borehole) and created a filter pack between the screened part of the casing and the wet zone of the formation. Centering devices were not installed, because the augers kept the casing centered while the sand pack was constructed. The sand pack was built two feet higher than the top of the screened section of the casing. The remainder of the drill string was removed and bentonite pellets were poured into the annulus and hydrated to form a seal between the screened zone below and the blank zone above. This was done to help keep water and contamination that might be above the seal from entering the producing zone. The final step was to fill the remainder of the annulus with a grout (cement and bentonite) slurry. A flush mounted protective metal cover was then placed over the top of the well casing. A copy of the well sealing forms are provided in Appendix E.

5.4 WELL COMPLETION AND DEVELOPMENT

The monitoring well was allowed to stand and stabilize for twenty-four hours. The well was then bailed in order to obtain a representative sample. Due to very poor recharge and the limited volume of water accumulation, the well was bailed dry. A water sample was however obtained, placed in a glass vial, sealed, placed in a cooler on blue ice, and transported under chain of custody to Eureka Laboratory. Results of laboratory analysis are provided in Appendix D.

6.0 <u>LABORATORY ANALYSIS</u>

As described in Section 4.3, a total of 54 soil samples were collected from the eight borings. All 54 of the samples were delivered under a chain-of-custody to Eureka Laboratories for analysis. Each of the soil samples were analyzed for Total Petroleum Hydrocarbons by EPA Method 8015 Purge and Trap (for gasoline and diesel) and Volatile Aromatic Organic Compounds by EPA Method 8020.

A total of one water samples was collected from the single monitoring well and submitted to Eureka Laboratories for analysis. In addition, a field blank was submitted for quality control purposes. The water sample was analyzed for Total Recoverable Hydrocarbons by EPA Method 418.1, Volatile Aromatic Organic Compounds by EPA Method 602, and Volatile Halogenated Organic Compounds by EPA Method 601.

A copy of the Laboratory Reports are presented in Appendix D and Chain-of-Custody records are presented in Appendix C. A summary of the laboratory analysis results for soil and groundwater are presented in Table 6-1 on the following page:

Table 6-1 SUMMARY OF LABORATORY RESULTS

						Borings				
Depth		B-1	B-2	B-3	B-4	1 B-5	В-6	B-7	B-8	MW-
5		ND*	ND	ND	ND	ND	ND	ND	ND	N/A
10		ND	ND	ND	ND	ND	ND	ND	ND	N/A
15		ND	ND	ND	ND	ND	N/A	ND	ND	N/A
20		ND	ND	ND	ND	ND	N/A	ND	ND	N/A
25		ND	ND	ND	ND	ND	N/A	ND	ND	N/A
30		ND	ND	ND	ND	ND	N/A	ND	ND	N/A
35		ND	ND	N/A	ND	ND	N/A	ND	ND	N/A
40		N/A	ND	N/A	ND	N/A	N/A	ND	N/A	N/A
45		N/A	N/A	N/A	ND	N/A	N/A	N/A	N/A	N/A
50		N/A	N/A	N/A	ND	N/A	N/A	N/A	N/A	N/A
					· · · · · · · · · · · · · · · · · · ·	····				····
Depth	B-1	B -2	B-3	I	3-4	Borings B-5	B-6	B-7	B-8	MW-1
5	ND**	ND	ND	1	√D	ND	ND	ND	ND	N/A
10	ND	ND	ND	ľ	1D	ND	ND	ND	ND	N/A
15	ND	ND	ND	ľ	4D	ND	N/A	ND	ND	N/A
20	ND	ND	ND	1	4D	ND	N/A	ND	ND	N/A
25	ND	ND	ND	1	1D	ND	N/A	ND	ND	N/A
30	ND	ND	ND	ĭ	I D	ND	N/A	ND	ND	N/A
35	ND	ND	N/A	7	₹D	ND	N/A	ND	ND	N/A
40	N/A	ND	N/A	N	ND	N/A	N/A	ND	N/A	N/A
45	N/A	N/A	ND	Tolu Xyl	ene-ND nene-5 ene-5 nzene-10	N/A	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	Tolu	ene-ND ene-4 ne-13	N/A	N/A	N/A	N/A	N/A

Notes:

^{*} Detection Limit of <10 parts per million (ppm)

**Detection Limit of 1 part per billion (ppb)

ND - Not Detected Above Detection Limits

N/A - Not Applicable

As shown in Table 6-1, TPH contamination was only detected in boring B-4 at a depth of 30 feet, and in boring B-8 at a depth of 5 feet bgs. Volatile organic compounds were only detected in boring B-4 at a depth of 45 and 50 feet bgs. The volatile aromatic organics detected in boring B-4 were limited to toluene, ethylbenzene, and xylenes. The concentration for each of the aromatic compounds were below California Drinking Water Standards, and were only detected at a maximum concentration of 5 ppb toluene, 13 ppb xylenes, and 10 ppb ethylbenzene.

No aromatic, halogenated, or petroleum hydrocarbon compounds were detected in the water sample collected from monitoring well MW-1. A quality control evaluation was performed on all of Tetra Tech's analytical laboratory reports (See Appendix D).

7.0 EVALUATION OF BORING AND LABORATORY ANALYSIS PROGRAM

Laboratory analysis results detected petroleum hydrocarbons in borings B-4 / 30 feet at 16 ppm, and in boring B-8 / 5 feet at 121 ppm at a depth of 5 feet bgs. The 16 ppm of petroleum hydrocarbons detected in boring B-4 at 30 feet was reported in the carbon range of C9 to C12 (gasoline range), and peaking at C10. Ethylbenzene, toluene, and xylene were detected in boring B-4 at concentrations of 13 ppb or less at depths of 45 and 50 feet.

Laboratory analysis also detected TPH compounds in the 5 foot sample from boring B-8. The petroleum hydrocarbons detected in the B-8 sample were characterized as motor oil, in the carbon range of C18 - C30. While 121 ppm of petroleum hydrocarbon compounds were detected in the 5 foot sample from boring B-8, this contamination does not appear associated with the leaking fuel tanks, and is anticipated to be localized.

8.0 <u>CONCLUSIONS</u>

The analytical results from this SI coupled with the results of the PSA have delineated the extent of the soil contamination at the Caltrans Hayward Maintenance Station. Soil borings previously completed by Geo/Resources delineated the lateral extent of the contamination

to the south, southwest and west. The additional borings completed by Tetra Tech have delineated the contamination to the north, northeast, east and southeast. As shown in Figure 2, the area of both gasoline and diesel contamination is confined to a circular shaped area centered around the southeast corner of the former fuel dispensing island, with an approximate diameter of 40 feet. Laboratory data presented in the PSA, and in this report indicate that the vertical extent of contamination extends to approximately 35 feet (see Figure 3). This estimated vertical extent of contamination coincides with the lithologic contact of the weathered siltstone bedrock and the gravely sandy formation.

The petroleum hydrocarbons detected in the soil have been characterized as both gasoline and diesel at varying depths. Both the PSA laboratory analysis, and the analytic results presented in this report, detected petroleum contamination at different depths with no detectable contamination between. These lenses of contamination appear to have been caused by irregular migration of the petroleum hydrocarbons through more permeable soils beneath the site.

While no "saturated water bearing formation" was encountered during the investigation, the soil was observed to be very moist from approximately 15 feet bgs to the depth where bedrock was encountered. In an attempt to sample accumulated water from the formation, a single groundwater monitoring well was installed near the southeast extent of the contaminant plume (location where the highest moisture content was observed). No petroleum contamination was detected in the water sample collected from the monitoring well.

The laboratory analysis results presented in this reported are consistent with Tetra Tech's field screening of the samples collected, including visual observations, instrument screening for volatile organics, and inspection of the bore hole cuttings.

9.0 **RECOMMENDATIONS**

Based on the detected levels of petroleum contamination in the area of the former fuel dispensing island and tank excavation, Tetra Tech recommends that the contamination be remediated. Generally, various remedial alternatives are available for remediating petroleum hydrocarbon contaminated soil.

The common remedial alternatives for addressing gasoline or diesel fuel spills are:

I. IN-SITU ALTERNATIVES

- In-situ vapor extraction,
- In-situ biological treatment,
- In-situ fixation/stabilization

II. ON-SITE ABOVEGROUND ALTERNATIVES

Excavation and;

- On-site vapor extraction,
- On-site biological treatment,
- On-site fixation/stabilization

III. EXCAVATION AND OFF-SITE DISPOSAL

- Class I Landfill, RCRA Hazardous Waste,
- Class III Landfill, California Regulated Waste

Due to the high moisture content in the soil, in-situ vapor extraction would not appear to be an effective remedial alternative. The effectiveness, and area of influence of a vapor extraction system is directly related to the moisture content in the soil. In-situ biological treatment generally requires the injection of biological cultures into the area of contamination. Flushing of the contaminants down toward groundwater is often a side effect during the injection of biological cultures into the contaminant plume. This flushing of the contaminants is not considered a difficulty if hydraulic control of the local groundwater can be maintained. Unfortunately, no defined groundwater is currently present beneath the

Hayward Maintenance Station, therefore in-situ biological treatment would not be recommended.

Since this site does not appear to lend itself to an effective in-situ remediation alternative, Tetra Tech recommends a limited excavation program. Based on the completed site characterization, it appears that the highest levels of petroleum hydrocarbons and volatile aromatic compounds are set within the upper 20 feet of the areal extent outlined in Figure 2. Excavation of this area will allow for the expedient and verifiable removal of the identified contaminants. After excavation, the stockpiled soils can be treated on-site to remove or degrade the petroleum contamination.

As described in Section 8.0, isolated migration of portions of petroleum contamination appears to have occurred to deeper depths. Both Tetra Tech and Geo/Resource's detected petroleum compounds down to 35 feet bgs in the area of the former dispenser island. Laboratory results from both investigations reported isolated lenses of petroleum set between layers of no detectable contamination. While these lenses of contamination do have the potential to impact the groundwater in the future, it may not be feasible to include these isolated areas of contamination with the limited excavation program. Rather, Tetra Tech recommends that a series of three groundwater monitoring wells be installed at the site to monitor the future presence, or fluctuation, of groundwater at the site. These series of monitoring wells could be used to determine the presence of groundwater at the site, and evaluate the groundwater quality through quarterly sampling.

Details of the selected remediation alternative would be prepared in a formal Remedial Action Work Plan that will address the precise excavation technique, protocol, and proposal for long term monitoring.

PRELIMINARY ASSESSMENT REPORT CALIFORNIA DEPARTMENT OF TRANSPORTATION HAYWARD MAINTENANCE STATION CASTRO VALLEY, CALIFORNIA

PREPARED FOR

OFFICE OF STATE ARCHITECT

400 P STREET, 5TH FLOOR

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MARCH, 1990

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1.0 INTRODUCTION

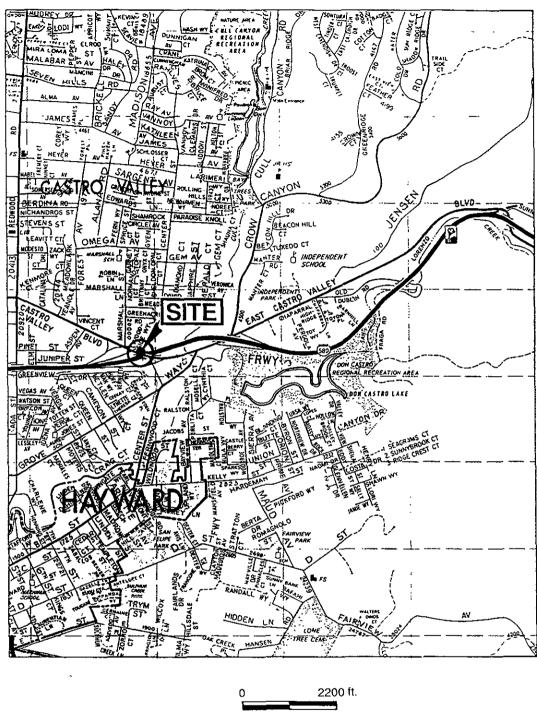
This report describes the results of the Preliminary Site Assessment (PSA) conducted at the California Department of Transportation (CALTRANS), Hayward Maintenance Station in Castro Valley, California (See Figure 1) by Geo/Resource Consultants, Inc. (GRC) in January, 1990 for the Office of the State Architect (OSA). The Hayward Maintenance Station is located at the northwest corner of Center Street and Castro Valley Boulevard.

The PSA consisted of a subsurface investigation of potentially contaminated soil in the vicinity of two previously existing underground storage tanks (USTs) and a pump service island (See Figure 2). These investigations were conducted in accordance with the Workplan and Addendum to the Workplan prepared by GRC in November, 1989 and January, 1990, respectively. These documents were approved by the OSA and Alameda County Department of Environmental Health (DEH) prior to initiating field studies.

1.1 Project Background

According to information submitted by the OSA to GRC, one 260-gallon diesel UST and one 1,000-gallon leaded gasoline UST were removed from adjoining excavations on January 18, 1989 (See Figure 2). During the tank removal, representatives of Placer Tractor Service, under the auspices of the DEH, collected three soil samples from the UST excavation for chemical testing. The laboratory testing was performed by Alpha Analytical Laboratories Inc, of Ukiah, California (See Appendix A).

The chemical test results indicated the presence of 2,100 micrograms per gram (ug/g) total petroleum hydrocarbons as diesel



Scale: 1 in.= 2200 ft.

Reference: Thomas Brothers Map, 1979.



Geo/Resource Consultants, Inc.

GEOLOGISTS / ENGINEERS / ENVIRONMENTAL SCIENTISTS 851 HARRISON STREET, SAN FRANCISCO, CALIFORNIA 94107

1516-000 Job No. .

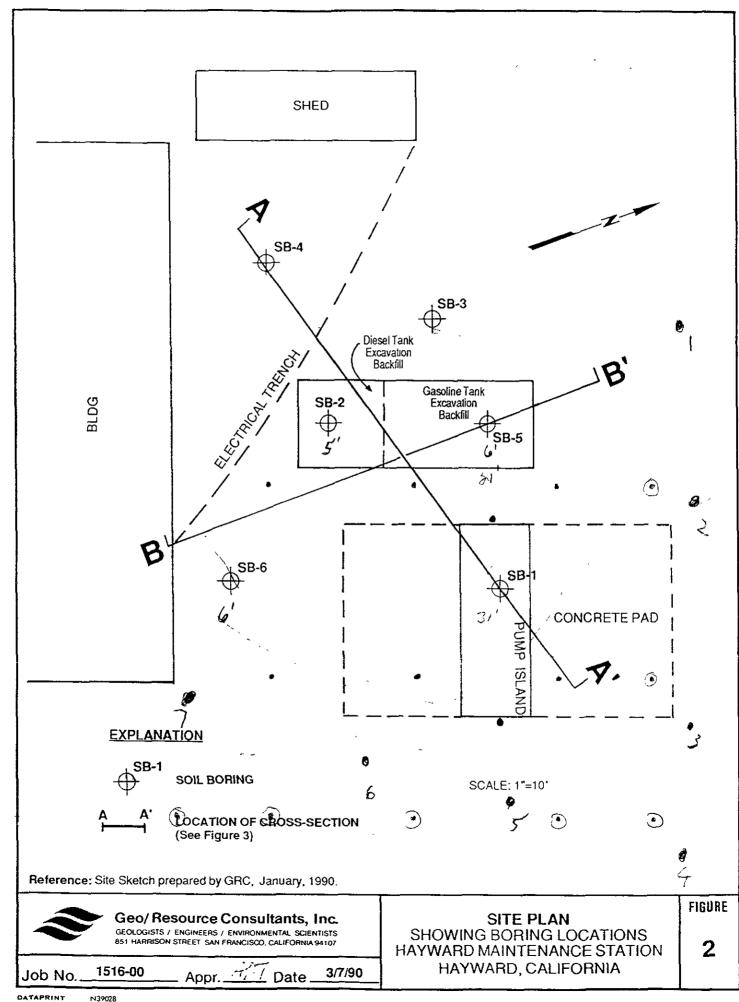
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ADT Date 3/9/90

SITE LOCATION MAP HAYWARD MAINTENANCE STATION CASTRO VALLEY, CALIFORNIA

FIGURE

1



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(TPH - diesel) in the one soil sample collected from the diesel tank excavation. Total petroleum hydrocarbons as gasoline (TPH - gasoline) were detected at 1.7 ug/g in one of the two soil samples collected from the gasoline tank excavation. The other sample did not contain gasoline above laboratory detection limits (0.3 ug/g). Benzene, toluene, xylene and ethylbenzene (BTXE) were not present above laboratory detection limits (0.3 ug/g) in either of the three soil samples submitted for analyses.

A letter addressed to Mr. Jack Giolitti of the California Department of Transportation (CalTrans) from Mr. Rafat Shahid of the DEH on February 28, 1989, indicated that the TPH level of 2,100 ppm had exceeded the action level of 100 ppm for a "confirmed release" (See Appendix A). The letter also states that "any soil containing greater than 1,000 parts/million-ppm (roughly converts to ug/g) must be excavated."

1.2 Project Purpose

The purpose of this PSA is to 1) develop a preliminary characterization of the geologic and hydrogeologic conditions at the site, 2) to determine the presence of hydrocarbons in the soil and/or ground water within the tank excavation area, and 3) to provide recommendations for further activities, if necessary. The following tasks were implemented at the project site:

- 1. Drilling and soil sampling of six soil borings to characterize geologic conditions;
- Installation and sampling of three monitoring wells to characterize hydrogeologic conditions;
- Submittal of soil and groundwater samples for TPH as gasoline and diesel in accordance with EPA Method 8015 (modified), and BTXE in accordance with EPA Method 8020.

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4. Report preparation that describes the field investigation methodology, findings, interpretations, and recommendations for additional activities and/or remedial alternative actions, if appropriate.

2.0 METHODOLOGY

2.1 Pre-Field Activities

Prior to the implementation of the field investigation portion of this project, a Workplan for the site investigation was prepared under the direction of a California Registered Geologist and subsequently approved by the OSA and DEH. The Workplan included proposed field investigation procedures, proposed laboratory analyses, and a site Health and Safety Plan.

Following Workplan approval, GRC personnel conducted a site visit to ascertain the presence of underground utilities in and around proposed boring locations. Mr. Terry Costa, of Caltrans, was interviewed regarding underground utilities and pertinent information regarding the removed USTs. Additionally, a Permit to drill soil borings and install monitoring wells was obtained (See Appendix B) from the Alameda County Flood Control and Water Conservation District - Zone 7 (Zone 7).

2.2 Soil Borings

A total of six, 6-inch to 10-inch-diameter soil borings were drilled in the vicinity of the previously existing USTs and the pump island area (See Figure 2). The borings were drilled with a hollow stem, continuous flight auger drill rig. The six borings ranged in depth from 31.5 feet to 40.5 feet below ground surface. With the exception of SB-6, which was drilled to 31.5 feet, all of the borings were drilled until bedrock was encountered.

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The six soil borings were lithologically logged based on drill cuttings and recovered soil samples. The borings were logged by a professional geologist under the supervision of a California Registered Geologist in accordance with the Unified Soil Classification System. Soil cuttings are presently stored onsite in 55-gallon Department of Transportation (DOT), 17H drums. No ground water was encountered during the investigation, and all of the boreholes were grouted up to the ground surface following the soil sampling phase.

2.3 Soil Sampling

Soil samples were collected from each boring at approximate 5foot intervals from approximately 5 feet to 35 feet below ground The samples were collected in 6-inch-long brass tubes inserted within a modified California drive sampler (2.5-inch diameter I.D.). After obtaining the samples, the sample tubes were appropriately labeled, capped with aluminum foil and plastic caps, sealed, and placed in an ice chest for storage. samples were logged on a Chain-of-Custody Record in accordance States Environmental Protection Agency publication Test Methods for Evaluation of Solid Waste (SW-846) and transported to a certified analytical laboratory. samples were qualitatively tested for hydrocarbons using a HnU photoionization detector.

2.4 Laboratory Analyses

A total of 35 soil samples were selected for chemical testing at American Environmental Laboratories Corporation (AEL), a State certified laboratory in Rancho Cordova, California. Based on the evidence of potential diesel and gasoline leakage, soil samples were submitted for the following laboratory analyses:

Total volatile hydrocarbons (TVH), modified EPA Method 8015 (EPA extraction method 5030).

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Total extractable hydrocarbons (TEH), modified EPA Method 8015 (EPA extraction method 5030).

Benzene, toluene, xylene, and ethylbenzene (BTXE), EPA Method 8020.

2.5 Decontamination Procedures

All hollow stem augers were steam cleaned prior to drilling each borehole to prevent potential cross-contamination between borings. Additionally, the soil sampling barrel and all sampling equipment and utensils were cleaned with Liquinox and rinsed with distilled water prior to obtaining each soil sample.

3.0 FINDINGS

3.1 Regional and Local Geology

Castro Valley is located within an "intermontane valley" formed by uplifting, faulting and folding of continental sedimentary rocks. The valley is bordered by hills of the Diablo Range to the north, east and south, and by the Hayward fault to the west. Based on regional studies, Castro Valley is underlain by "older alluvium" which is reported to be up to 80 feet thick (California Department of Water Resources, 1963, and Alameda County Flood Control District, June, 1988). In Castro Valley, older alluvium is underlain and surrounded by rocks of the undifferentiated Pliocene, Knoxville and/or Franciscan Formations (California DWR, 1963).

Local geologic conditions at the Hayward Maintenance Station were interpreted from lithologic logging during drilling (See Appendix C) and are depicted in Figure 3. These data indicate that the site is underlain by alluvial and/or colluvial deposits of clay,

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silt, sand and gravel. The sediments probably represent slopewash sediments (colluvium) from the Diablo Range and/or river sediments (alluvium) derived from the San Lorenzo Creek.

In general, subsurface materials at the Hayward Maintenance Station consist of 10 to 15 feet of yellow brown to olive grey silty, sandy clay overlying 15 to 20 feet of yellow brown clayey sand and gravel. Discontinuous lenses of yellow brown silt and olive to blue grey sand are also present. The hardness of the silt lenses located between 5 and 15 feet below ground surface and presence of associated caliche suggests that these deposits may represent a shallow, discontinuous hardpan layer across the site. Bedrock was generally encountered at depths of 32 to 35 feet below ground surface. In the site area, bedrock consists of siltstone, possibly of the Knoxville Formation.

The tank excavation backfill consists of surficial gravel (drain rock) and clay, silt and sand similar in composition to the natural materials described above. The backfill was primarily differentiated from the surrounding alluvial deposits by its mottled appearance.

With the exception of SB-6, the soil was generally moist at approximately 5 feet below ground surface to the bottom of the borings (30 to 40 feet below ground surface). In SB-6, soil between approximately 15 to 32 feet was moist to wet. Soil above five feet in most of the borings was generally wet, probably due to recent precipitation. Blowcounts generally increased with depth in all of the borings, reflecting an increase in density and/or stiffness with depth. Blowcounts indicated "refusal" conditions when bedrock was encountered.

3.2 Regional and Local Hydrogeology

The Hayward Maintenance Station is located within the Castro Valley Groundwater Basin, a sub-basin of the East Bay Plain (Zone 7, 1988). The older alluvial deposits within the Basin are known to contain some ground water and the few existing wells in Castro

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Valley are principally domestic (California DWR, 1963). However, neither ground water nor significantly wet conditions were encountered at the site at the time of drilling.

Conversations with Mr. Scott Seery of Alameda DEH (March 2, 1990) and Mr. Andreas Godfrey of Zone 7 (March 2, 1990) confirmed that ground water is generally present in Castro Valley. For instance, driller's logs (on file at Zone 7) for three monitoring wells installed approximately 450 feet to the west of Hayward Maintenance Station indicate that ground water was measured at 21 to 23 feet below ground surface in alluvial soils (June, 1988). Bedrock was not encountered in any of the borings which were drilled to depths of 38 to 45 feet below ground surface. These data suggest that groundwater flow in the area of the Hayward Maintenance Station may be inhibited due to a bedrock high.

Other data indicate that a water well drilled at 4267 Veronica Street in 1982-1983 (approximately 1,800 feet to the north of the Hayward site) encountered bedrock at 32 feet and ground water at 28 feet below ground surface. The location of this well relative to the nearby hills is very similar to that of the Hayward site, suggesting that ground water may also occur at the Hayward site at approximately 28 feet below ground surface. However, recent water level data for the Veronica Street well are not available, thus it is not known whether water levels are currently as high as 28 feet.

Recharge to the Castro Valley Groundwater Basin occurs primarily from streams that flow from the adjacent foothills (California DWR, 1963). Because streams within the adjacent foothills are recharged primarily from precipitation, decrease precipitation would result in a decrease in recharge groundwater storage in Castro Valley. Due to the drought conditions experienced in the last several years, it is probable that drainage waters have lessened, evidenced by limited, seasonal flow in San Lorenzo Creek, and that ground water is not currently as prevalent as it might have been.

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Based on the discussions above, the absence of ground water at the Hayward Maintenance site may be related to the occurrence of a local, bedrock "high" and the decrease in precipitation over recent years.

3.3 Laboratory Results

As listed in Table 1 and included in Appendix D, soil analytical results indicate TPH (gasoline) at 860 milligram/kilogram (mg/kg) in the sample collected from SB-5 at 6 feet below ground surface (referred to as SB-5-6'). Samples collected from SB-1 also contained TPH (gasoline) at 310 mg/kg and 790 mg/kg at 4.0 and 21.5 feet below ground surface, respectively. Minor amounts (up to 15 mg/kg) of TPH (gasoline) were also detected in other samples collected from SB-1 and SB-5.

Gasoline constituents, benzene, toluene, xylene and ethylbenzene (BTXE) were also detected in samples collected from SB-1 and SB-5. BTXE concentrations were highest in the sample collected from SB-5-6'. In this sample, benzene was detected at .640 micrograms/kilogram (ug/kg), toluene was detected at 700 ug/kg, xylene was detected at 110,000 ug/kg and ethylbenzene was detected at 9,700 ug/kg. Xylene and ethylbenzene were also detected at 42,000 ug/kg and 5,300 ug/kg in SB-1-21.5'. Lesser amounts of BTXE were detected in other samples from SB-1.

TPH (diesel) was present in samples collected from SB-1, SB-2, SB-5 and SB-6. Diesel concentrations were highest in SB-1 where samples collected from 8.0, 16.5 and 31.0 feet were found to contain 260 mg/kg, 950 mg/kg and 2,400 mg/kg, respectively. Diesel was also detected at 1,300 mg/kg in SB-2-5.5', 400 mg/kg in SB-5-6.0', 100 mg/kg in SB-5-21.5', 400 mg/kg in SB-6-6.5' and at 19 mg/kg in SB-6-11.5' A correspondence from AEL indicate that the chromatograms for most of the samples containing diesel were "not consistent with the expected diesel Chromatographc pattern" (See Appendix D). Conversations with laboratory personnel indicate that the chromatograms may be suggestive of

TABLE 1
SOIL SAMPLING RESULTS
HAYWARD MAINTENANCE STATION, CASTRO VALLEY, CALIFORNIA
CASTRO VALLEY, CALIFORNIA

Sample (Depth)	TPH as Gasoline (mg/kg)	TPH as Diesel (mg/kg)	Benzene (ug/kg)	Toluene (ug/kg)	Ethyl Benzene (ug/kg)	Total Xylenes (ug/kg)
SB-1 @ 4.0' SB-1 @ 8.0' SB-1 @ 11.5 SB-1 @ 16.5' SB-1 @ 21.5' SB-1 @ 31.0'	310 NT 3.7 NT 790 NT	ND 260 ND 950 ND 2,400	210 NT ND NT ND (100) NT	360 NT ND NT ND (100) NT	5,100 NT 50 NT 5,300 NT	8,100 NT 90 NT 42,000
SB-2 @ 5.5' SB-2 @ 10.5' SB-2 @ 16.5' SB-2 @ 26.0' SB-2 @ 30.5' SB-2 @ 36.5'	ND (10) NT ND ND ND NT	1,300 ND ND ND ND ND	ND NT ND ND NT ND	ND NT ND ND NT ND	40 NT ND ND NT ND	150 NT ND ND NT ND
SB-3 @ 5.5' SB-3 @ 11.5' SB-3 @ 16.5' SB-3 @ 21.5' SB-3 @ 25.5' SB-3 @ 36.2'	ND NT ND NT ND	ND ND ND ND ND	ND NT ND NT ND NT	ND NT ND NT ND NT	ND NT ND NT ND	ND NT ND NT ND NT
SB-4 @ 6.0' SB-4 @ 11.0' SB-4 @ 16.0' SB-4 @ 21.0' SB-4 @ 26.0' SB-4 @ 36.0'	ND NT ND NT ND	ND ND ND ND ND	ND NT ND NT ND	ND NT ND NT ND NT	ND NT ND NT ND NT	ND NT ND NT ND
SB-5 @ 6.0' SB-5 @ 11.0' SB-5 @ 16.5' SB-5 @ 21.5' SB-5 @ 26.5' SB-5 @ 36.0'	860 NT 15 NT 1.0 NT	400 ND ND 100 ND ND	640 NT ND NT ND NT	700 NT 20 NT ND NT	9,700 NT 150 NT ND NT	110,000 NT 360 NT 110 NT
SB-6 @ 6.5' SB-6 @ 11.5' SB-6 @ 16.0' SB-6 @ 21.5' SB-6 @ 31.5'	ND (2.0) NT ND NT- ND	400 19 ND ND ND	ND NT ND NT ND	ND NT ND NT ND	ND NT ND NT ND	ND NT ND NT ND
Reporting Limit	it (1.0)	(10)	(10)	(10)	(10)	(20)

 ${\tt ND}$ = Not Detected at or above indicated Reporting Limit. ${\tt NT}$ = Not Submitted to a Laboratory for Chemical Testing.

Note: SB-4, SB-5 and SB-6 are referred to as MW-1, MW-2 and MW-3, respectively in original laboratory data included in Appendix C.

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"aged" diesel, suggesting that the diesel has been in the subsurface for a long time (Personal communication, Mr. John Arnt, AEL, March, 1990).

The known vertical extent of hydrocarbons present in soil is depicted in the cross-sections presented in Figure 3. Due to the wide variations in hydrocarbon concentrations at different depths, the lateral extent of hydrocarbons in soil is not depicted in this report. In general, the most extensive hydrocarbon concentrations are found in soil in the area of SB-1, SB-2 and SB-5.

4.0 REGULATORY FRAMEWORK

The California Regional Water Quality Control Board (RWQCB) has set forth guidelines that pertain to underground storage tank investigations in Tri-Regional Guidelines - "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks", June 2, 1988, and "Leaking Underground Fuel Tank Field Manual (LUFT)", May, 1988. These guidelines present worksheets to derive risk appraisals and leaching potential of gasoline, diesel and BTXE in soil. The purpose of these worksheets is to provide a means to evaluate the impact hydrocarbon contamination in soil on underlying ground water. response to the Porter Cologne Water Quality Control Act (Water Code), it is the State Regional Water Quality Board's policy to "protect the high quality of waters, set the goal of the removal contamination fromthe soil, surface water, groundwater affiliated with the site where feasible" (Leaking Underground Fuel Tank Field Manual, May, 1988).

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conversations with Hayward Maintenance Station personnel indicate that the previously existing fuel lines extending from the pump island to the USTs had leaked (Personal communication, Mr. Ted Costa of Hayward Maintenance Station, January, 1990). Based on findings presented in the Sections above, hydrocarbon in soil is most extensive in the area of the pump island (SB-1). appears that hydrocarbons may have leaked from the pump island fuel and have migrated vertically downward. lines concentrations of diesel at the bottom of the boring in SB-1 suggest that diesel may have "ponded" above the bedrock surface. (gasoline) data available TPHfor SB-1 also hydrocarbons may have migrated downward. The presence of samples collected from SB-1 that do not contain diesel above detection limits interspersed with samples containing hydrocarbons, suggests that diesel may have also migrated laterally, resulting from variations in soil permeability, as it moved downward.

The presence of hydrocarbons within the shallow soil at SB-1, SB-2 and SB-5 suggests that previous hydrocarbon leakage or overspillage from tanks may have occurred and that the soil containing hydrocarbons was used to backfill the excavations following tank removal. Some leakage of hydrocarbons into the underlying native material is suggested by the presence of diesel at 100 mg/kg in SB-5-21.5' and gasoline at 15 mg/kg in SB-5-16.5'. There does not appear to be evidence of hydrocarbon leakage into the underlying native soil in SB-2.

Hydrocarbons were not detected in soil samples collected from SB-3 and SB-4, suggesting that hydrocarbon leakage has not reached soil west of the UST excavation and pump island. However, the presence of diesel in shallow soil at SB-6 suggests that fuel line leakage from the general area of the pump island has impacted soil to the south of the pump island. The extent of hydrocarbons in soil to the south and east of SB-6, to the north and east of SB-1 and to the north of SB-5 is not currently known.

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At Hayward Maintenance Station, ground water was not encountered at the time of the investigation and there are no specific guidelines addressing allowable hydrocarbon concentrations in when ground water is not present (See Tri-Regional Guidelines and LUFT Manual). However, based on regional and local studies, ground water has been reported in the general site Thus, the possibility exists that ground water could be present in the future within the site area, thus presenting a potential for hydrocarbon migration off-site. Additionally, hydrocarbon vapor migration within man-made conduits, such as utility trenches, may pose a threat of explosion or fire if concentrations reach explosive levels and an ignition source is present.

Based on the presence of hydrocarbons in the soil, and the potential for groundwater flow through the soil, GRC recommends that the soil be remediated. Possible remedial measures may include one, or a combination of the following methods:

- o excavation and removal,
- o excavation and aeration,
- o bio-remediation, or
- o soil venting.

If an in-situ method of remediation is selected, GRC recommends that further soil investigations be implemented to define that lateral and vertical extent of contamination to the north and east of the tank excavation and pump island areas. If remediation is accomplished by excavation, it may be possible to determine the extent of contamination during the excavation process.

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							BACKFILL
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-5							
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		0/0			sw	MODERATE YELLOWISH BROWN, WET, VERY POORLY SORTED, CLAYEY, PEBBLY, FINE- TO COARSE-GRAINED SAND.	
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0/0	GRAYISH BLACK SILTSTONE WITH SOM (BEDROCK).	E CaCO3 DEPOSITS IN FRACTURES	
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- 70 - - 75 -			<u>.</u>

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	ECT#					— DRILL BIG ROTARY AUGER Signature	
		DIAME		SPLIT SP		— Signature — # 4000	
			_			LOCATION#4080	
DEPTH, ft	BLOW COUNTS/ft	OVA/HNU (ppm)	SAMPLE	COLUMN	sosn	GEOLOGIC DESCRIPTION	WELL
					CL	ASPHALT DARK GRAY TO PALE BROWN, MOIST, VERY POORLY SORTED, PEBBLY CLAY.	CLAY BACKFILL
- 5		9/0			ML	MODERATE YELLOWISH BROWN, MOIST, POORLY SORTED, CLAYEY, LOCALLY VERY FINE-GRAINED SANDY SILT, CaCO 3 IN FRACTURES.	
-10		2/0			\ -	THIN BEDS OF FINE-GRAINED SAND AND PEBBLY MEDIUM-GRAINED SAND.	
					SP.	DARK YELLOWISH ORANGE MOIST POORLY SORTED PERRLY VERY	
-15 -		0/			; —	DARK YELLOWISH ORANGE, MOIST, POORLY SORTED, PEBBLY VERY FINE- TO MEDIUM-GRAINED SAND. VERY POORLY SORTED PEBBLY, FINE- TO COARSE-GRAINED SAND.	:
-20		1/0			-	THIN BED OF BROWN WELL SORTED FINE SAND (ORGANIC STAIN ?)	
-25 -		0/0			sw	YELLOWISH ORANGE, MOIST, VERY POORLY SORTED, GRAVELLY, MEDIUM- TO COARSE-GRAINED SAND WITH SOME COBBLES.	
		0/0			8.41	DILT	
				. 3	ML	SILT	
-30 -					SP	WELL SORTED, FINE- TO MEDIUM-GRAINED SAND.	i
-30		0/0			SW	POORLY SORTED, GRAVELLY, COARSE- TO VERY COARSE-GEAINED SAND.	
-35 -		0/0	X		SP	DARK YELLOW ORANGE, DRY, MODERATELY SORTED, MEDIUM-GRAINED SANDSTONE (FRACTURED BEDROCK)	
						BORING TERMINATED AT 36.5 FEET PER REFUSAL	

		TE	T	RA T	E		1_ OF 2
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оєртн, п	BLOW COUNTS/ft	OVA/HNu (ppm)	SAMPLE	COLUMN	SOSN	GEOLOGIC DESCRIPTION	WELL
-			İ			ASPHALT	CLAY
-5		9/0			CL	DARK YELLOWISH BROWN, MOIST, POORLY SORTED, FINE-GRAINED SANDY SILT, WITH Caco 3 DEPOSITS AND SPARSE PEBBLES.	BACKFILL
-10 -		2/0					
-15 -		0/0			SP	DARK YELLOWISH BROWN, MOIST, VERY POORLY SORTED, CLAYEY, PEBBLY, FINE- TO COARSE-GRAINED SAND.	
-20		0/0			SP		
-25		0/0			SP	WET, ODOR	
-30 -		120/100	·		ML	DARK YELLOWISH BROWN TO GRAYISH OLIVE SILTSTONE (BEDROCK) (STRONGER ODOR)	
-35 -		12/0			ML —		

		TE	T	RA T	(EC	CH BORING LOGSB4PAGE _	$\frac{2}{2}$ of $\frac{2}{2}$
CLIEN	ντ —	OSA			<u></u>	DAIL	
	ECT#			80-01		DRILL RIG ROTARY AUGER	A CONTRACTOR
				R — 8 IN. SPLIT SP		Signature Signature	\
SAME		THOD		F LIT SF	10011	LOCATION HAYWARD Registration # 4080	
DEPTH, ft	BLOW COUNTS/ft	OVA/HNu (ppm)	SAMPLE	COLUMN	nscs	GEOLOGIC DESCRIPTION	WELL
		0/0			ML	GRAYISH BLACK SILTSTONE (BEDROCK) (ODOR).	CLAY BACKFILL
-			Γ				BACKFILL
						į	
- 45 -		0/0			ML		
-		1			IVIL		
						İ	
- 50-		0/0			ML		
						BOTTOM OF BOREHOLE 51.5 FEET (REFUSAL DRILL AND SAMPLER TOO DENSE)	
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		TE	T	RA T	E	CH BORING LOGSB 5PAGE _	1_ of 1_
CLIE	чт —		SA	-		— DRILL CONTRACTOR <u>WEST HAZMAT DRILLING</u> DATE <u>2/7</u>	//91
PRO.	ECT#	10	-83	80-01		Geologist D. THOR	<u></u>
BORE	HOLE	DIAME				DRILL RIGROTARY AUGER Signature	
SAME	PLE ME	THOD		SPLIT SP	NOO	LOCATION HAYWARD Registration # 4080	
DEPTH, ft	BLOW COUNTS/#	OVA/HNu (ppm)	SAMPLE	COLUMN	nscs	GEOLOGIC DESCRIPTION	WELL
<u> </u>	[[ASPHALT	CLAY
-10		0/0			CL	DARK YELLOWISH BROWN, MOIST, POORLY SORTED, FINE-GRAINED SANDY CLAY, WITH SPARSE PEBBLES.	BACKFILL
-15 -		0/0			sw	DARK YELLOWISH BROWN, MOIST, VERY POORLY SORTED, CLAYEY, PEBBLY, FINE- TO COARSE-GRAINED SAND.	
-20		0/0		0.00.00	GW	DARK YELLOWISH BROWN, WET BUT UNDERSATURATED, VERY POORLY SORTED, CLAYEY, FINE-GRAINED SANDY GRAVEL.	
-25		0/0			SP	DARK YELLOWISH BROWN, WET, SILTY VERY FINE- TO FINE-GRAINED SAND.	
-30 -		0/0			ML	DARK YELLOWISH BROWN, MOIST, SILTSTONE (BEDROCK)	
-35 -		0/0			ML	GRAYISH BLACK, SILTSTONE (BEDROCK).	
						BOTTOM OF BOREHOLE 36.5 FEET.	

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		TE	TF	T AF	EC	CH BORING LOGSB 6PAGE	1 OF 1
CLIENT				30-01		— DRILL CONTRACTOR WEST HAZMAT DRILLING DATE 2/1	_
PROJE		-				— DRILL RIG ROTARY AUGER Signature	
		_	-	PLIT SF	OON		
	BLOW COUNTS/ft	OVA/HNu (ppm)	SAMPLE		nscs	GEOLOGIC DESCRIPTION	WELL
-10 -1520 -2530 -	COUN	VAVO 0/0	SAME		sosn ਰ ਰ	ASPHALT (SATURATION OF SOILS OBSERVED AT 5' DURING HAND AUGERING; POSSIBLE LEAKING WATER LINE). DARK YELLOWISH BROWN, MOIST, POORLY SORTED, FINE-GRAINED SANDY CLAY WITH SOME CaCO ₃ DEPOSITS. BOREHOLE TERMINATED AT 11.5 FEET PER SATURATION WHICH MAY BE ATTRIBUTED TO A LEAKING WATER LINE THAT SEEPS THROUGH A SHALLOW SAND LAYER.	CLACKFILL DESK
-35 ·							

		TE	TI	RA T	EC		1_ OF 1_
CLIEN	л —		SA			— DRILL CONTRACTOR WEST HAZMAT DRILLING DATE 2/6	5/91
	ECT#			80-01		Geologist D. THOR	
				R 8 in.		— Uniturio Signature	
SAME		ETHOD		SPLIT SF	ZOON	LOCATION HAYWARD Registration # 4080	
рертн, п	BLOW COUNTS/ft	OVA/HNu (ppm)	SAMPLE	COLUMN	nscs	GEOLOGIC DESCRIPTION	WELL
						ASPHALT	CLAY BACKFILL
-10 ·		0/0			CL	DARK YELLOWISH BROWN, MOIST, POORLY SORTED, FINE-GRAINED SANDY CLAY, WITH SPARSE PEBBLES.	BACKFILL
-15 -		0/0			SP	DARK YELLOWISH BROWN, MOIST, VERY POORLY SORTED, CLAYEY, PEBBLY, FINE- TO COARSE-GRAINED SAND.	
-20		0/0			sw	DARK YELLOWISH BROWN, WET BUT UNDERSATURATED, VERY POORLY SORTED, CLAYEY, FINE-GRAINED SANDY GRAVEL.	
-25 -		0/0			SP	DARK YELLOWISH BROWN, WET, SILTY VERY FINE- TO FINE-GRAINED SAND.	
-30 -		0/0			ML	DARK YELLOWISH BROWN, MOIST, SILTSTONE (BEDROCK)	
-35 ·		0/0			ML	GRAYISH BLACK, SILTSTONE (BEDROCK).	
		0/0			ML	BOTTOM OF BOREHOLE 41 FEET.	

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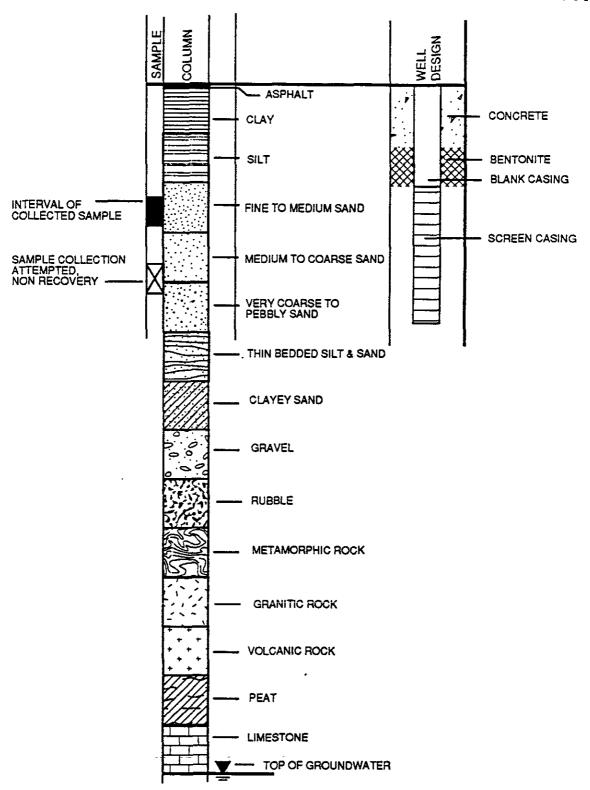
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	TE	T	RA 1	EC	CH BORING LOGSB 8PAGE _	1 OF 1
CLIENT -		SA	80-01		— DRILL CONTRACTOR WEST HAZMAT DRILLING DATE 2/1	//91
PROJECT #					Geologist D. THOR	<u>/</u>
BORE HOLI			R <u> </u>		DRILL Fild Signature	
SAMPLE MI			I LIV OI	-	LOCATION#4080	
DEPTH, ft BLOW COUNTS/ft	OVA/HNu (ppm)	SAMPLE	COLUMN	nscs	GEOLOGIC DESCRIPTION	WELL
						CLAY BEDROCK
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-5	0/0			ML	DARK YELLOWISH BROWN, MOIST, CLAYEY, VERY FINE-GRAINED SANDY SILT.	
	0/0			,,,,_	DATE TELESTICITY, MOIST, OEATET, TELT THE GLANTED GATET OFF	
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-10 -	0/0			CL	DARK YELLOWISH BROWN, MOIST, POORLY SORTED, FINE-GRAINED SANDY CLAY WITH RARE TADECTE PEBBLES AND SOME CACO 3 DEPOSITS.	
-				_		,
-15 -	0/0			SP	DARK YELLOWISH BROWN, MOIST, VERY POORLY SORTED, SILTY,	
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-20	0/0		0.00	GW	DARK YELLOWISH BROWN, WET BUT UNDERSATURATED, VERY POORLY SORTED, CLAYEY, FINE-GRAINED SANDY GRAVEL.	
			000		SORTED, CLAYEY, FINE-GRAINED SANDY GRAVEL.	
			000			
-25 -			00	[] 		
	0/0	X	0.00	GW		
		Г	2000			
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-30 -	0/0			ML	DARK YELLOWISH BROWN, MOIST, SILTSTONE (BEDROCK)	
	•					
-35 -	0/0					
					BOTTOM OF BOREHOLE 36.5 FEET.	,
			!			

TETRA TECH BORING LOG SYMBOLS EXPLANATION



TETRA TECH, INC. 630 NORTH-HOSEMEAD BLVD. PASADENA, CALIFORNIA 91107 TELEPHONE (818)44B 6400 TELEFAX (818)351-8126

CHAIN OF CUSTODY RECORD

DATE 276-191 PAGE 1 OF 4 TELEFAX (818)351-8126 CLIENT STATE OF CALIFORNIA опиел 🧦 **PARAMETERS** ADDRESS HAYWARD CAL TRANS MAINTENANCE CONTANERS PETROLEUM HYDROCARBONS (418.1) CENTER . CASTRO VALLEY BLUD, & CENTER ST VOLATILE OPGANICS (601/602) VOLATILE OPGANICS (624) OK. & GREASE (413.2) GENERAL MINERALS BASEMEU/ACIDS (OPGANICS) GASOUNE (BOIS)M r DIESEL AROMATICS (8020) CAM METALS (17) FC-8380-01 **OBSERVATIONS/** GCAKS (8240) SAMPLEUS (SIGNATURES) PESTICIDES COMMENTS. NAMEGROF PROJECT MANAGER ! DAN BATZACK 8 SAMPLE NO DATE TIME LOCATION 583-5 2-6-91 9:10 MAINTENANCE CENTER ٠. 9:20 583- lo 5R3-15 9:30 9:40 583-24 583-25 4.55 583-30 10:10 582 - 5 11:45 561-10 11.47 582-15 11:50 502- 20 12:05 582 25 12:15 582 - 30 12:20 582-25 12:30 382-4a 18:40 501-5 13:2C 581-10 13:25 HELINOUISHED BY SIGNATURE TIME TOTAL NUMBER DATE TETRA TECH, INC. PHIL SYORGE OF CONTAINERS 7-7-91 **FACCIVED BY** METHOD OF SHIPMENT SIGNATURE COMPANY DATE TIME - 1 **1** INELINOUISHED BY SIGNATURE COMPANY SPECIAL SHIPMENTAIANDLING OR TIME DATE STORAGE REQUIREMENTS HI CEIVED BY SIGNATURE COMPANY DATE IIME



DATE 746-19/ PAGE 7 OF4 STATE OF CALIFORNIA PARAMETERS OHER CASTRO VALLEY BLUP. \$ CEMER 54. ADDRESS. BER OF CONTANERS HAYWARD CA Of. & GREASE (413.2) VOLATILE ORGANICS (601/502) VOLATILE OPGANICS GENERAL MINERALS PETROLEUM HYDROCARBONS (A BASENEUACIDS (ORGANICS) GASOLINE (BOTS) + DIESTEL AROMATICS (BCC) TC- 8380-01 PR. POLLUTANT METALS (13) SAMPLETIS ISAMPLETES PROJECT MANAGER: ODSERVATIONS/ PESTICIDES COMMENTS DAN BATRACK SAMPLE NO DATE TIME LOCATION 13:30 HANTENHARDE CONTER SB1-15 2-6-91 13:40 361 - 20 581-25 14:12 1. . . . 561-30 14:25 5B1-35 14:35 587-5 15:55 587-10 16:00 SB7-15 16:05 587- 20 16:10 JB7-25 16:210 587-30 16:30 587-35 16:40 3B7-40 16:50 X6-5 8:20 SB6-10 8:35 585-5 9:15 HELINOUISHED BY SIGNATURE/ TOTAL NUMBER TIME DATE TETRA TECH, INC. PHIL Skaper OF CONTAINERS 2-4-21 IX.CEIVED BY SIGNATURE METHOD OF SHIPMENT COMPANY DATE TIME **FILLINGUISHED BY SIGNATURE** COMPANY SPECIAL SHIPMENTALANDLING OR TIME DATE STOTAGE REQUIREMENTS HICENEDBY SIGNATURE COMPANY DATE TIME



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SAMILENS CHATRO JALOF BLUD, & CENTRE ST. TE - 8380-00 SAMILENS GROUP PROJECT PARAGER D'AN BATRACH	CM METALS (17)	PR. POLLUTANT NETALS (13)	GENERAL MINERALS	OK & GREASE (413.2)	PETROLELM HYDROCAPBONS (418.1)	BASENEUACIOS (OPGANICS)	PESTCIDES	VOLATILE OPGANICS (601/502)	XATILE OFGANICS	U	GASOUNE (8015)	APOMATICS (8C20)	GCAAS (12240)				NUMBER OF CONTANERS	ODSERVATIONS/ COMMENTS
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SAMILENS ISIGNATURES PROJECT MANAGER: DAN BATRACK	CAM METALS (17)	PR. POLLITANT METALS (13)	EPA MIN	OL & GREASE (413.2)	PETPOLEUM HYDROCA/BONS (EMELVACI	PESTICIDES	ATTLE OPE	VOLATILE OPGANICS (624)		GASOUNE (8015)	APOWATICS (8000)	GCAUS (12240)				ð	ODSERVATIONS/ COMMENTS
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THE TAILGATE SAFETY MEETING

DNISION <u>Fruireamental</u>	FACILITY
DATE 2 /7 /9/ TIME	JOB NUMBER
CUSTOMER	ADDRESS
SPECIFIC LOCATION Hayword M	lantrance Station Cultisms
TYPE OF WORK drill bore for	los, collect suit samples
CHEMICALS USED	
CAESTY	TORICE PRESENTED
SAFEIT	TOPICS PRESENTED
ROTECTIVE CLOTHING/EQUIPMENT	tevel "D"
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PHYSICAL HAZARDS	
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THOMAS WRIGHT	
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PHIL SKOLGE	Million -
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MEETING CONDUCTED BY:	
PRINTED NAME Devin Gor	SIGNATURE After &
SITE SUPERVISOR Devin Thor	PROJECT MANAGER Da Batrack
vering 1 hor	Jan 179 140

THE TAILGATE SAFETY MEETING

DIVISION _ Environmental	FACUTY
DATE 2/6/9/TIME	JOB NUMBER
CUSTOMER Cal 0.5A	
SPECIFIC LOCATION Hayrard Man	trace station ColTrans,
TYPE OF WORK dvill bore	chips, collect soil sometes
CHEMICALS USED.	
-	
` ^	V 705100 DD 70515
SAFET	Y TOPICS PRESENTED
PROTECTIVE CLOTHING/EQUIPMENT	level D"
	
CHEMICAL HAZARDS	dies
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PHIL SKORGE	
	
MEETING CONDUCTED BY:	
PRINTEDNAME Devia Thor	SIGNATURE 4/2
SITE SUPERVISOR D T/.	DOO ESTAMACED 3 . / /
SITE SUPERVISOR Devin Thor	PROJECT MANAGER Dan Batrack

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-01A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB5-10 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB MATRIX: SOIL

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-02A

% MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40g

SAMPLE ID: SB5-15

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953 CLIENT: TETRA TECH, INC.

CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA

P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102089-03A

FILE ID: NA

SAMPLE ID: SB5-20

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

Order No.: 91-02-089 EUREKA LABORATORIES, INC. Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916)381-7953DATE SAMPLED: 02/07/91 CLIENT: TETRA TECH, INC. DATE RECEIVED: 02/08/91 CONTRACT #: TC #: 8380-03 DATE EXTRACTED: 02/14/91 PROJECT: CASTRO VALLEY BLVD DATE ANALYZED: 02/16/91 TASK #: NA INSTRUMENT ID: AB P.O.#: NA MATRIX: SOIL SAMPLE LOCATION: MAINTENANCE CEN % MOISTURE: NA ELI SAMPLE ID: 9102089-04A REPORT WT: WET FILE ID: NA SAMPLE VOL./WT.: 40g SAMPLE ID: SB5-25 1.00 DILUTION FACTOR:

PE	TROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	. - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB MATRIX: SOIL

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-05A

% MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE ID: SB5-30

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	·	

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-06A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB5-35 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

1	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-07A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-5 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO. Gasoline Range	· •	
Diesel Range Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-08A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-10 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-09A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-15 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

ELI SAMPLE ID: 9102089-10A

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB

SAMPLE LOCATION: MAINTENANCE CEN

MATRIX: SOIL % MOISTURE: NA

FILE ID: NA

REPORT WT: WET

SAMPLE ID: SB4-20

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA . 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102089-11A

FILE ID: NA

SAMPLE ID: SB4-25

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

INSTRUMENT ID: AB MATRIX: SOIL

% MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-12A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-30 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	, <u>-</u> - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-13A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-35 SAMPLE VOL./WT.: 40g DILUTION FACTOR:

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	·	

Chemist

Mark Shih, Ph.D.

02/22/91

1.00

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102089-14A

FILE ID: NA

SAMPLE ID: SB4-40

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA . 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	· -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765	
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-15A FILE ID: NA SAMPLE ID: SB4-45	DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00	
	ENTRATION DETECTION LIMIT	

F	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
	Gasoline Range	NA	NA .
ŧ	Diesel Range	<10	10
•	Motor Oil Range Total Petroleum Hydrocarbons	na	NA
	CARBON NO. RANGE		
	Gasoline Range	-	
	Diesel Range	-	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range		
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-16A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-50 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	. - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-17A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB8-5 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA . 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Rangė Diesel Range Motor Oil Range	·	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-18A FILE ID: NA SAMPLE ID: SB8-10	DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA - 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CE ELI SAMPLE ID: 9102089-19A FILE ID: NA SAMPLE ID: SB8-15	DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00
PETROLEUM HYDROCARBONS	CONCENTRATION DETECTION LIMIT

Į	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT
	Gasoline Range	NA	NA .
4	Diesel Range	<10	10
•	Motor Oil Range Total Petroleum	NA	NA
	Hydrocarbons		
	CARBON NO. RANGE		
	Gasoline Range	-	
	Diesel Range	• •	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range	-	
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-20A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB8-20 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

P	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: AB SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-21A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB8-30 SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

•	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA - 10 NA
	CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO. Gasoline Range Diesel Range Motor Oil Range	· - - -	

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC.
6790 Florin Perkins Road
Sacramento, CA 95828
(916)381-7953

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: CASTRO VALLEY BLVD
TASK #: NA
P.O.#: NA
SAMPLE LOCATION: MAINTENANCE CEN
ELI SAMPLE ID: 9102089-22A
FILE ID: NA
SAMPLE ID: SB8-35

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/22/91

LUFT TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: NA DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB MATRIX: SOIL

SAMPLE LOCATION:

% MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-23A

SAMPLE VOL./WT.: 40g

FILE ID: NA

SAMPLE ID: METHOD BLANK

DILUTION FACTOR:

1.00

P	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA . 10 NA
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	•• •-	

02/22/91

Mark Shih, Ph.D.

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 Hazardous Waste Testing 6790 Florin Perkins Road Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB P.O.#: NA SAMPLE LOCATION: MATRIX: SOIL ELI SAMPLE ID: 9102089-24A % MOISTURE: NA

SB5-30

PETROLEUM HYDROCARBONS

SAMPLE ID: SPIKE RECOVERY

FILE ID: NA

CONCENTRATION

. a. a. 0.

REPORT WT: WET

SAMPLE VOL./WT.: 40g

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons
NA

CARBON NO. RANGE

Gasoline Range Diesel Range Motor Oil Range -

PEAK CARBON NO.

Gasoline Range - Diesel Range - Motor Oil Range - -

Chemist

Mark Shih, Ph.D.

02/22/91

LUFT TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB MATRIX: SOIL

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-25A

SAMPLE VOL./WT.: 40g

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB5-30

PETROLEUM HYDROCARBONS CONCENTRATION &

Gasoline Range 118%

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons
NA

CARBON NO. RANGE

Gasoline Range Diesel Range Motor Oil Range -

PEAK CARBON NO.

Gasoline Range
Diesel Range
Motor Oil Range

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953 Order No.: 91-02-089 Hazardous Waste Testication No.: E7			
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: ELI SAMPLE ID: 9102089-26A FILE ID: NA SAMPLE ID: METHOD BLANK	DATE DATE DATE INSTR MATRI MOI REPOR SAMPL	SAMPLED: NA RECEIVED: 02/08/91 EXTRACTED: 02/14/91 ANALYZED: 02/16/91 UMENT ID: AB X: SOIL STURE: NA T WT: WET E VOL./WT.: 40g ION FACTOR: 1	1
PETROLEUM HYDROCARBONS	CONCENTRATION	DETECTION LIMIT	ŗ.

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA - 10 NA
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	•	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	·	

Chemist

Mark Shih, Ph.D.

Markethe

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-27A

SAMPLE VOL./WT.: 40g

FILE ID: NA SAMPLE ID: SPIKE RECOVERY

SB8-30

Diesel Range Motor Oil Range

CONCENTRATION %	PETROLEUM HYDROCARBONS
121%	Gasoline Range
NA	Diesel Range
126%	Motor Oil Range Total Petroleum
NA	Hydrocarbons
	CARBON NO. RANGE
-	Gasoline Range
-	Diesel Range
-	Motor Oil Range
	PEAK CARBON NO.
· •	Gasoline Range

Chemist

Mark Shih, Ph.D.

02/22/91

TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

TASK #: NA P.O.#: NA SAMPLE LOCATION:

ELI SAMPLE ID: 9102089-28A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB8-30

Gasoline Range Diesel Range Motor Oil Range DATE SAMPLED: NA

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

INSTRUMENT ID: AB MATRIX: SOIL

% MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

PETROLEUM HYDROCARBONS	CONCENTRATION &
Gasoline Range	118%
Diesel Range	NA
Motor Oil Range Total Petroleum	130%
Hydrocarbons	NA
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	

Chemist

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089

Hazardous Waste Testing Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 PROJECT #: DATE EXTRACTED: 02/14/1991 TC-8380-01 LOCATION: MAINTENANCE CENTER DATE ANALYZED : 02/15/1991

SAMPLE ID: BLANK

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<u><1</u>	1
V2 ·	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	 <1	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	 <1	1

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT: DATE RECEIVED: TETRA-TECH 02/08/1991 TC-8380-01 MAINTENANCE CENTER PROJECT #: DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 LOCATION: SAMPLE ID: SB5-10 DATE SAMPLED: 02/07/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	\< <u>1</u>	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1 1
V8	Xylenes (Dimethyl benzenes)	<1	1 .

Lisa Kirkbride

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT:	TETRA-TECH		חַאַייבר	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01		שהיערו	• النقياب لا طبيكات	02/14/1991
	10 0200 01		הדנות	DVINDCIUM.	U4/ 17/ 1771
LOCATION:	MAINTENANCE	CENTED	ישייה אכו	ANALYZED:	02/15/1991
Towarzou.	TRATE TOTAL CO.	CRUTRIC	DWIE	WINNII TOD.	02/13/1331
SAMPLE ID:	SB5-15		בות ביו	CRACOT DID.	00/07/1001
OTHER TO	202-12		DAIL	SAMPLED:	02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
	Benzene	₹1	1
V2	Chlorobenzene	<1	lī
V3	1,2-Dichlorobenzene	\langle 1	l ī
V 4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	(1	l ī
V6	Ethyl benzene	<1	ī
V7	Toluene	(1	1 1
	Xylenes (Dimethyl benzenes)	₹1	Ī

Lisa Kirkbride

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089

Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 PROJECT #: TC-8380-01 DATE EXTRACTED: 02/14/1991 LOCATION: 02/15/1991 MAINTENANCE CENTER DATE ANALYZED: SAMPLE ID: SB5-20 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
	Benzene	₹1	
V2	Chlorobenzene	<1	1 1
V3	1,2-Dichlorobenzene	<1	ļī
V4	1,3-Dichlorobenzene	121	1 7
V5	1,4-Dichlorobenzene	1<1	1 1
V6	Ethyl benzene	(1)	1 1
	Toluene	121	1 1 ·
V8	Xylenes (Dimethyl benzenes)	<1	i

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: E765

CLIENT:

TETRA-TECH TC-8380-01

Xylenes (Dimethyl benzenes)

DATE RECEIVED: 02/08/1991

PROJECT #: LOCATION:

V8

MAINTENANCE CENTER

DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 DATE SAMPLED: 02/07/1991

SAMPLE ID: SB5-25

COMP. COMPOUND ug/Kg DETECTION NO. (ppb) LIMIT ug/Kg (ppb) VI Benzene ₹1 V2 Chlorobenzene <1 1 1 1 1,2-Dichlorobenzene V3 <1 V4 1,3-Dichlorobenzene <1 V5 1,4-Dichlorobenzene <1 **V6** Ethyl benzene 1 <1 **V7** Toluene <1 1

Lisa Kirkbride

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089

Hazardous Waste Testing Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 DATE ANALYZED: 02/15/1991 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB5-30 DATE SAMPLED: 02/07/1991

COMP. NO.	COMPOUND	ug/kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

Lisa Kirkbride

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT:	TETRA-TECH		DATE	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01				02/14/1991
		Continue			
LOCATION:	MAINTENANCE	CENTER	DATE	ANALYZED:	02/15/1991
SAMPLE ID:	SB5-35		DATE	SAMPLED:	02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
$\overline{V1}$	Benzene	(1	1
V2	Chlorobenzene	<1	Ī
V3	1,2-Dichlorobenzene	<1	1 1
V4	1,3-Dichlorobenzene	<1	ļĪ
V 5	1,4-Dichlorobenzene	<1	l ī
V6	Ethyl benzene	<1	1 .
V7	Toluene	1 <1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

Lisa Kirkbride Chemist

Alule February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT:	TETRA-TECH		ET ATE	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01		ישיתובר	• עיבורי) ע פוריצים	02/14/1991
TICOMOT N.	10 0300 01		URIL	DWTINGCTIND.	04/14/1991
LOCATION:	MAINTENANCE	CENTED	יים מות אורו	ANALYZED:	02/15/1991
TOWALTON.	LIGHTH TOMMINGE	CENTER	DATE	MANTITUDED.	U4/13/1331
SAMPLE ID:	SB4-5		15.1 CD	CRAINT DO	00'/00'/1001
SHALL ID:	204-3		DATE	SAMPLED:	02/07/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>v1</u>	Benzene	<1	1
V2	Chlorobenzene	1 <1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	\<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	\<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 PROJECT #: TC-8380-01 DATE EXTRACTED: 02/14/1991 LOCATION: MAINTENANCE CENTER DATE ANALYZED: 02/15/1991 SAMPLE ID: SB4-10 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	₹1	
V2	Chlorobenzene	\ <u>1</u>	l ī
V3	1,2-Dichlorobenzene	\ <u>{1</u>	l ī
V4	1,3-Dichlorobenzene	<1	1 1
V 5	1,4-Dichlorobenzene	\{\bar{1}	l ī
V6	Ethyl benzene	kī	l ī
V7	Toluene	\{\bar{1}	l ī
V8	Xylenes (Dimethyl benzenes)	<1	l ī

Kirkbride

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TETRA-TECH CLIENT: TC-8380-01 MAINTENANCE CENTER PROJECT #: LOCATION: SAMPLE ID: SB4-15 02/07/1991 DATE SAMPLED:

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	₹1	1
V2	Chlorobenzene	\< 1	l ī
V3	1,2-Dichlorobenzene	<1	Ī
V4	1,3-Dichlorobenzene	\(\frac{1}{1}\)	1 1
V5	1,4-Dichlorobenzene	\<\1	lī
V6	Ethyl benzene	\ <u></u>	1 1
V7	Toluene	<1	l ī
V8	Xylenes (Dimethyl benzenes)	k1	1 1

Marco February 28, 1991
Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB4-20 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u></u>	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	kī	Ī
V4	1,3-Dichlorobenzene	\< <u>1</u>	1
V5	1,4-Dichlorobenzene	<1	l ī
V6	Ethyl benzene	(1	1
V7	Toluene	1 <1	1
V8	Xylenes (Dimethyl benzenes)	 <1	1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TETRA-TECH CLIENT: PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: DATE SAMPLED: 02/07/1991 SB4-25

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	- <1	1
V2	Chlorobenzene	\(\frac{1}{2}\)	1 1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	\<1	1
V5	1,4-Dichlorobenzene	\<1	Ī
V6	Ethyl benzene	(<1	1 1
V 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	 <1	1

Lisa Kirkbride

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

A					
CLIENT:	TETRA-TECH		DATE	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01				02/14/1991
LOCATION:	MAINTENANCE	CENTER		ANALYZED:	
SAMPLE ID:	SB4-30		DATE	SAMPLED:	02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
	Benzene	_ বা	
V2	Chlorobenzene	(<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	\(\bar{1}\)	1
V6	Ethyl benzene	<1	1 1
V7	Toluene	\(\bar{1}\)	l ī
V8	Xylenes (Dimethyl benzenes)	<1	1

Lisa Kirkbride

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT:	TETRA-TECH	•	 DATE	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01		DATE	EXTRACTED:	02/14/1991
LOCATION:	MAINTENANCE (TENTER	ישיייעת	ANALYZED:	02/15/1001
		~~~~~	772777	MARIET DE .	
SAMPLE ID:	SB4-35		ישוניערו	SAMPLED:	02/07/1991
orate till to .	9D4-33			OUTLIE THE TA	V4/V/1331

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<b>1</b> <1	l ī
V3	1,2-Dichlorobenzene	\(\bar{1}\)	l ī
<b>V4</b>	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	\<1	1 1
V6	Ethyl benzene	< <u>1</u>	Ī
<b>V</b> 7	Toluene	<b> </b> <1	lī -
V8	Xylenes (Dimethyl benzenes)	<1	1

Lisa Kirkbride Chemist

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT:	TETRA-TECH	DATE	RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01	DATE	EXTRACTED:	02/14/1991
LOCATION:	MAINTENANCE	CENTER DATE	ANALYZED:	02/15/1991
SAMPLE ID:	SB4-40	DATE	SAMPLED:	02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	(1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<b>&lt;1</b>	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	] 1

Lisa Kirkbride Chemist

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB4-45 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	\<1	1
V2	Chlorobenzene	<b> </b> <1	1
V3	1,2-Dichlorobenzene	<1	l 1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	110	1
V7	Toluene	5	1
V8	Xylenes (Dimethyl benzenes)	5	1

Note:

All positively identified compounds were second column confirmed.

Lisa Kirkbride

Chemist

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB4-50 DATE SAMPLED: 02/07/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kq (ppb)
<u>V1</u>	Benzene	<1	1
V2	Chlorobenzene	\<1	Ī
V3	1,2-Dichlorobenzene	\ <u>{1</u>	1 1
V4	1,3-Dichlorobenzene	<b>K</b> 1	1
V5	1,4-Dichlorobenzene	(2)	1 1
V6	Ethyl benzene	5	1 1
V7	Toluene	Ā	1 1
V8	Xylenes (Dimethyl benzenes)	13	i

Note:

All positively identified compounds were second column confirmed.

Lisa Kirkbride

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
ANALYZED: 02/15/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER 02/07/1991 SAMPLE ID: SB8-5 DATE SAMPLED:

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1 1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<b> &lt;1</b>	1
V8	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	] 1

Lisa Kirkbride February 28, 1991

Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089

Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB8-10 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<b>1&lt;1</b>	1
V4	1,3-Dichlorobenzene	<b> </b> <1	] 1
<b>V</b> 5	1,4-Dichlorobenzene	<b>  &lt;1</b>	1 1
V6	Ethyl benzene	<1	ĺĪ
V7	Toluene	<b>&lt;1</b>	1 1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> </b> <1	1 1

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

CLIENT: PROJECT #: TETRA-TECH TC-8380-01

DATE RECEIVED: DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/07/1991

02/08/1991

LOCATION:

MAINTENANCE CENTER

SAMPLE ID: SB8-15

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
	Benzene	<1	1
<b>V2</b>	Chlorobenzene	\<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	¹ <1	l 1
<b>V</b> 5	1,4-Dichlorobenzene	\<1	1
V6 :	Ethyl benzene	<1	1
V7	Toluene	\<\1	l Ī
V8	Xylenes (Dimethyl benzenes)	<1	Ī

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road

Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/07/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 MAINTENANCE CENTER LOCATION: SAMPLE ID: SB8-20

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<b>&lt;</b> 1	l ī
<b>V3</b>	1,2-Dichlorobenzene	<b>K</b> 1	] 1
V4	1,3-Dichlorobenzene	<1	l ī
V5	1,4-Dichlorobenzene	\(\bar{1}\)	1
V6	Ethyl benzene	<1	l ī
V7	Toluene	\<1	ł ī
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953 Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

 CLIENT:
 TETRA-TECH
 DATE RECEIVED:
 02/08/1991

 PROJECT #:
 TC-8380-01
 DATE EXTRACTED:
 02/14/1991

 LOCATION:
 MAINTENANCE CENTER
 DATE ANALYZED:
 02/15/1991

 SAMPLE ID:
 SB8-30
 DATE SAMPLED:
 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
Vl	Benzene	₹1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1 1
V4	1,3-Dichlorobenzene	<b>  &lt;1</b>	1 1
V5	1,4-Dichlorobenzene	<1	Ī
V6	Ethyl benzene	\ <u>&lt;</u> 1	li
	Toluene	<b>1</b> <1	$\bar{1}$
V8	Xylenes (Dimethyl benzenes)	\<1	l ī

Lisa Kirkbride Chemist February 28, 1991 Date

irkbride Dat

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road

Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089

Hazardous Waste Testing

Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/07/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB8-35

COMP NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	7 < 1	1
	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	ki	Ī
V4	1,3-Dichlorobenzene	\{\bar{1}	l ī
<b>V</b> 5	1,4-Dichlorobenzene	<b> </b> <1	ĺi
V6	Ethyl benzene	(<1	( 1
<b>V7</b>	Toluene	<1	Ī
V8	Xylenes (Dimethyl benzenes)	<b> </b> <1	1 1

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

CLIENT:

TETRA-TECH TC-8380-01 DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991

PROJECT #: LOCATION:

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MAINTENANCE CENTER

DATE SAMPLED:

SAMPLE ID: SB5-30 MATRIX SPIKE RECOVERY 02/07/1991

NO.	. COMPOUND	SPIKE RECOVERY	
<u>V1</u>	Benzene	96%	<u></u>
V2	Chlorobenzene	106%	
V3	1,2-Dichlorobenzene	105%	
V4	1,3-Dichlorobenzene	_	
V5	1,4-Dichlorobenzene	90%	
V6	Ethyl benzene	106%	
V7	Toluene	103%	
V8	Xylenes (Dimethyl benzenes)	106%	

Lisa Kirkbride

February 28, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/07/1991 TETRA-TECH TC-8380-01 CLIENT: PROJECT #: LOCATION: MAINTENANCE CENTER SAMPLE ID: SB5-30 MATRIX SPIKE RECOVERY

DUPLICATE

COMP NO.	. COMPOUND	SPIKE RECOVERY
V1	Benzene	96%
V2	Chlorobenzene	105%
V3	1,2-Dichlorobenzene	107%
V4	1,3-Dichlorobenzene	-
V5	1,4-Dichlorobenzene	82%
V6	Ethyl benzene	101%
٧7	Toluene	100%
V8	Xylenes (Dimethyl benzenes)	103%

February 28, 1991

Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: E765

7		
CLIENT:	TETRA-TECH	DATE RECEIVED: 02/08/1991
	101141 10011	DAIR KECETAED: 05/00/1331
PROJECT #:	TC-8380-01	DAME EVANDACIONA 03/14/1001
TIOODICI M.	10-0000-01	DATE EXTRACTED: 02/14/1991
LOCATION:	MATATIONIANICO CIENTINO	
TOCASTION.	MAINTENANCE CENTER	DATE ANALYZED: 02/15/1991
CALCOT TO .	CDO C 100 DECEMBER 2 ACC	
SAMPLE ID:	SB8-5 MATRIX SPIKE RECOVERY	DATE SAMPLED: 02/07/1991

	NO.	COMPOUND	SPIKE RECOVERY	
ŀ	V1 V2 V3 V4 V5 V6 V7 V8	Benzene Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Ethyl benzene Toluene Xylenes (Dimethyl benzenes)	76% 90%  73% 85% 94% 81% 98%	<u> </u>

Kuplune Lisa Kirkbride

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing

Certification: E765

CLIENT: PROJECT #: LOCATION:

TETRA-TECH TC-8380-01

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991

SAMPLE ID:

MAINTENANCE CENTER SB8-5 MATRIX SPIKE RECOVERY

DATE SAMPLED:

02/07/1991

DUPLICATE

COMP. COMPOUND SPIKE RECOVERY NO.  $\overline{v}$ Benzene 102% Chlorobenzene 102% V2 1,2-Dichlorobenzene V3 1,3-Dichlorobenzene V4 888 1,4-Dichlorobenzene V5 103% V6 Ethyl benzene 112% Toluene V7 91% V8 | Xylenes (Dimethyl benzenes)

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-089 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 CLIENT: TETRA-TECH TC-8380-01 MAINTENANCE CENTER PROJECT #: DATE ANALYZED : 02/15/1991 LOCATION:

SAMPLE ID: BLANK

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
$\overline{v}_1$	Benzene	<1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b>1&lt;1</b>	1 1
<b>V</b> 7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

February 28, 1991

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD DATE SAMPLED: 02/07/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: MATRIX: SOIL

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-01A

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

SAMPLE ID: SB5-10

1	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE  Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
	Gasoline Range Diesel Range Motor Oil Range	. <del>-</del> 	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-02A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB5-15 SAMPLE VOL./WT.: 40 q DILUTION FACTOR: ĭ.00

1	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
	Gasoline Range	<5	5 ,
	Diesel Range	<10	10
•	Motor Oil Range Total Petroleum Hydrocarbons	<25	25
	CARBON NO. RANGE		
	Gasoline Range		
	Diesel Range	-	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range		
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-03A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB5-20 SAMPLE VOL./WT.: 40 q DILUTION FACTOR: 1.00

F	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		~
	Gasoline Range Diesel Range Motor Oil Range	. <u>-</u>	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-04A % MOISTURE: NA FILE ID: NA

FILE ID: NA

SAMPLE ID: SB5-25

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		•
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-05A

REPORT WI: WET SAMPLE VOL./WI: 40 q DILUTION FACTOR: 1.00

FILE ID: NA

SAMPLE ID: SB5-30

PE	TROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
<b>.</b>	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	· 😄	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381 - 7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-06A

SAMPLE VOL./WT.: 40 g

FILE ID: NA

DILUTION FACTOR: 1.00

SAMPLE ID: SB5-35

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	· -	

02/20/91

Mark Shih, Ph.D.

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-07A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-5 SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg) DETECTION LIMIT
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range		
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-08A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB4-10

]	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range	<del>=</del>	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-09A

REPORT WT: WET
SAMPLE VOL./WT.: 40 q

FILE ID: NA

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

SAMPLE ID: SB4-15

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.  Gasoline Range  Diesel Range  Motor Oil Range	, - - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-10A % MOISTURE: NA FILE ID: NA REPORT WT: WET

SAMPLE ID: SB4-20 SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

1	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 . 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	 -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-11A

SAMPLE VOL./WT.: 40 g

FILE ID: NA

SAMPLE ID: SB4-25

DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	 	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-12A

REPORT WT: WET

FILE ID: NA

**SAMPLE VOL./WT.:** 40 g

SAMPLE ID: SB4-30

DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
	Gasoline Range	16	<b>5</b> .
ŧ	Diesel Range	<10	10
-	Motor Oil Range Total Petroleum	<25	25
	Hydrocarbons	16	
	CARBON NO. RANGE		
	Gasoline Range	C9-C12	
	Diesel Range	-	
	Motor Oil Range	•	
	PEAK CARBON NO.		
	Gasoline Range	· C10	
	Diesel Range Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-13A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-35 SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	. = -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD DATE SAMPLED: 02/07/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-14A

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

FILE ID: NA

SAMPLE ID: SB4-40

P	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	· -	

Chemist

Mark Shih, Ph.D.

02/20/91

Order No.: 91-02-089 EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-15A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB4-45 SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

P	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	. <u>.</u>	
	MOTOL OIL KANGE		

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN

REPORT WT: WET

ELI SAMPLE ID: 9102089-16A FILE ID: NA

SAMPLE VOL./WT.: 40 g

5

SAMPLE ID: SB4-50

PETROLEUM HYDROCARBONS CONCENTRATION DETECTION LIMIT ppm (mg/Kg) ppm (mg/Kg) Gasoline Range <5 Diesel Range <10 10 Motor Oil Range <25 25 Total Petroleum Hydrocarbons CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO. Gasoline Range Diesel Range Motor Oil Range

02/20/91

Mark Shih, Ph.D.

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-17A

REPORT WT: WET

FILE ID: NA

SAMPLE ID: SB8-5

SAMPLE VOL./WT.: 40 g

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
	Gasoline Range Diesel Range	< <b>5</b>	5 .
•	Motor Oil Range Total Petroleum	<10 121	10 25
	Hydrocarbons	121	
	CARBON NO. RANGE		
	Gasoline Range	<b>aa</b>	
	Diesel Range Motor Oil Range	C18-C30	
	PEAK CARBON NO.		
	Gasoline Range	· <b>-</b>	
	Diesel Range Motor Oil Range	C24	

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID:

SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-18A & MOISTURE: NA FILE ID: NA REPORT WT: WET

SAMPLE ID: SB8-10 SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

F	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range	· -	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102089-19A

% MOISTURE: NA
REPORT WT: WET
SAMPLE VOL./WT.: 40

FILE ID: NA SAMPLE ID: SB8-15

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-20A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 q SAMPLE ID: SB8-20 DILUTION FACTOR: 1.00

F	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	bbw (wd/kd) DETECTION FIWIT
	Gasoline Range	<5	<b>5</b> .
•	Diesel Range	<10	10
*	Motor Oil Range Total Petroleum Hydrocarbons	<25	25
	CARBON NO. RANGE		
	Gasoline Range	-	
	Diesel Range	-	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range	· •	
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-21A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB8-30 1.00 DILUTION FACTOR:

Pl	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
	Gasoline Range	<5	<b>5</b> .
•	Diesel Range	<10	10
•	Motor Oil Range Total Petroleum Hydrocarbons	<25	25
	CARBON NO. RANGE		
	Gasoline Range	-	
	Diesel Range	-	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range	· =	
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-089 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: CASTRO VALLEY BLVD DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/16/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102089-22A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB8-35 SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

P	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
	Gasoline Range	<5	<b>5</b> .
	Diesel Range	<10	10
•	Motor Oil Range	<25	25
	Total Petroleum		
	Hydrocarbons		
	CARBON NO. RANGE		
	Gasoline Range	-	
	Diesel Range	_	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range	· =	
	Diesel Range	-	
	Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: ELI SAMPLE ID: 9102089-23A FILE ID: NA SAMPLE ID: METHOD BLANK	DATE SAMPLED: NA DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00

P	ETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range Diesel Range Motor Oil Range	- - -	
	PEAK CARBON NO.		
	Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-24A

FILE ID: NA

SAMPLE VOL./WT.: 40g

SAMPLE ID: SPIKE RECOVERY

SB5-30

Gasoline Range Diesel Range Motor Oil Range

PETROLEUM HYDROCARBONS CONCENTRATION Gasoline Range 111% Diesel Range NA Motor Oil Range 110% Total Petroleum Hydrocarbons NA CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.

Chemist Man

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA

ELI SAMPLE ID: 9102089-25A FILE ID: NA

REPORT WT: WET

SAMPLE VOL./WT.: 40g

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB5-30

Gasoline Range Diesel Range Motor Oil Range

PETROLEUM HYDROCARBONS CONCENTRATION Gasoline Range 118% Diesel Range NA Motor Oil Range 129% Total Petroleum Hydrocarbons NA CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.

Chemist Mark

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765	
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD TASK #: NA P.O.#: NA SAMPLE LOCATION: ELI SAMPLE ID: 9102089-26A FILE ID: NA SAMPLE ID: METHOD BLANK	DATE SAMPLED: NA DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91 INSTRUMENT ID: AB MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40g DILUTION FACTOR: 1.00	

]	PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
•	Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
	CARBON NO. RANGE		
	Gasoline Range	44	
	Diesel Range	-	
	Motor Oil Range	-	
	PEAK CARBON NO.		
	Gasoline Range	•	
	Diesel Range	-	
	Motor Oil Range	-	

Chemist -

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-27A

SAMPLE VOL./WT.: 40g

FILE ID: NA SAMPLE ID: SPIKE RECOVERY

SB8-30

PETROLEUM HYDROCARBONS CONCENTRATION Gasoline Range 121% Diesel Range NA Motor Oil Range 126% Total Petroleum Hydrocarbons NA

CARBON NO. RANGE

Gasoline Range Diesel Range Motor Oil Range

PEAK CARBON NO.

Gasoline Range Diesel Range Motor Oil Range

Chemist

Mark Shih, Ph.D.

02/22/91

CONCENTRATION

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-089 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: CASTRO VALLEY BLVD

DATE SAMPLED: NA
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/16/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: AB
MATRIX: SOIL

SAMPLE LOCATION:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102089-28A

SAMPLE VOL./WT.: 40g

FILE ID: NA SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB8-30

PETROLEUM HYDROCARBONS

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons
NA

CARBON NO. RANGE

Gasoline Range Diesel Range Motor Oil Range

PEAK CARBON NO.

Gasoline Range
Diesel Range
Motor Oil Range

Chemist

Mark Shih, Ph.D.

02/22/91

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER

SAMPLE ID: BLANK

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	₹1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b> &lt;1</b>	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing Certification: E765

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 DATE SAMPLED: 02/06/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB3-5

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<u> </u>	
V2	Chlorobenzene	<1	1
<b>V3</b>	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<b>  &lt;1</b>	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1 1
<b>V</b> 7	Toluene	<1	1 1
V8	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB3-10

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VΙ	Benzene	71	
V2	Chlorobenzene	\<1	) 1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
VS	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1 1
<b>V</b> 7	Toluene	<b> &lt;1</b>	1
V8	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	1

March 1, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER DATE SAMPLED: 02/06/1991 SAMPLE ID: SB3-15

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<b>[&lt;1</b> ]	1
V5	1,4-Dichlorobenzene	<b> &lt;1</b>	1
V6	Ethyl benzene	<b> &lt;1</b>	] 1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB3-20 DATE SAMPLED: 02/06/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	
V2	Chlorobenzene	<1	1
<b>V3</b>	1,2-Dichlorobenzene	<1	1 1
	1,3-Dichlorobenzene	<1	1
V4 V5	1,4-Dichlorobenzene	<1 .	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
<b>V8</b>	(Xylenes (Dimethyl benzenes)	[<1	1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TETRA-TECH CLIENT: TC-8380-01 PROJECT #: MAINTENANCE CENTER LOCATION: SAMPLE ID: SB3-25 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	₹1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	\<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

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CLIENT:

PROJECT #: LOCATION:

Order No: 91-02-088 Hazardous Waste Testing Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TETRA-TECH TC-8380-01 MAINTENANCE CENTER DATE SAMPLED: 02/06/1991 SAMPLE ID: SB3-30

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	<u> </u>	
V2	Chlorobenzene	<1	\ 1
V3	1,2-Dichlorobenzene	<b> &lt;1</b>	1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b> &lt;1</b>	1
٧7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 PROJECT #: DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TC-8380-01 MAINTENANCE CENTER LOCATION: SAMPLE ID: SB2-5 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	₹1	1
V2	Chlorobenzene	<b>  &lt;1</b>	1
<b>V3</b>	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b>  &lt;1</b>	1
V7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TETRA-TECH CLIENT: PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: DATE SAMPLED: 02/06/1991 SB2-10

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	<u> </u>	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	l<1	1
<b>V4</b>	1,3-Dichlorobenzene	<b>\&lt;1</b>	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V7</b>	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

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Certification: E765

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH PROJECT #: DATE EXTRACTED: 02/14/1991 TC-8380-01 DATE ANALYZED : 02/15/1991 LOCATION: MAINTENANCE CENTER SAMPLE ID: DATE SAMPLED: 02/06/1991 SB2-15

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<u>₹1</u>	1
V2	Chlorobenzene	<1	1
<b>V3</b>	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b> &lt;1</b>	1
<b>V7</b>	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	1

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Certification: E765

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER DATE ANALYZED : 02/15/1991 SAMPLE ID: SB2-20 DATE SAMPLED: 02/06/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	_ <del>&lt;1</del>	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V7</b>	Toluene	<b> &lt;1</b>	1
8V	Xylenes (Dimethyl benzenes)	<1	1

Chemist

March 1, 1991

Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB2-25

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	
V2	Chlorobenzene	<b>1&lt;1</b>	1
V3	1,2-Dichlorobenzene	<b> &lt;1</b>	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	\< <b>1</b>	1 .
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

<u>March</u> <u>1, 1991</u> Date Chemist

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Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: CLIENT: TETRA-TECH 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 DATE SAMPLED: 02/06/1991 PROJECT #: TC-8380-01 MAINTENANCE CENTER LOCATION: SAMPLE ID: SB2-30

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<b>1</b> <1	1
<b>V3</b>	1,2-Dichlorobenzene	<b> &lt;1</b>	1
<b>V4</b>	1,3-Dichlorobenzene	<b> &lt;1</b>	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b>1</b> <1	1
<b>V</b> 7	Toluene	<b> </b> <1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 MAINTENANCE CENTER LOCATION: DATE SAMPLED: SAMPLE ID: SB2-35 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<u> </u>	
V2	Chlorobenzene	<b> &lt;1</b>	1
V3	1,2-Dichlorobenzene	<b> </b> <1	1
V4	1,3-Dichlorobenzene	<b> </b> <1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V7</b>	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	\ 1

March 1, 1991 Date Lisa Kirkbride Chemist

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Order No: 91-02-088

Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 CLIENT: TETRA-TECH DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 DATE ANALYZED : 02/15/1991 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB2-40 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	) 1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<b> </b> <1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

Lisa Kirkbride

March 1, 1991 Date

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Order No: 91-02-088

Hazardous Waste Testing

Certification: E765

CLIENT: DATE RECEIVED: 02/08/1991 TETRA-TECH DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER DATE ANALYZED : 02/15/1991 SAMPLE ID: SB1~5 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kq (ppb)
VI	Benzene	₹1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<b> &lt;1</b>	1
V4	1,3-Dichlorobenzene	\<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	i<1	1
<b>V7</b>	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> </b> <1	1

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Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 CLIENT: PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER DATE ANALYZED : 02/15/1991

SAMPLE ID: BLANK

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	<1	1
V2	Chlorobenzene	İ<1	1
V3	1,2-Dichlorobenzene	<b> </b> <1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

TETRA-TECH CLIENT: DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: DATE SAMPLED: 02/06/1991 SB1-10

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<del>-   &lt;1   -   -   -   -   -   -   -   -   -   </del>	
V2	Chlorobenzene	<1	1 1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V7</b>	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	] 1

March 1, 1991 Lisa Kirkbride Date Chemist

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TETRA-TECH

TC-8380-01

SB1-15

MAINTENANCE CENTER

CLIENT:

PROJECT #:

LOCATION:

SAMPLE ID:

Order No: 91-02-088 Hazardous Waste Testing Certification: E765

DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991

DATE SAMPLED: 02/06/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
$\overline{V1}$	Benzene	<u> </u>	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V7</b>	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

DATE RECEIVED: CLIENT: TETRA-TECH 02/08/1991 PROJECT #: DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB1-20 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	₹1	
V2	Chlorobenzene	<b>  &lt;1</b>	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1 1
V6	Ethyl benzene	<1	1 1
<b>V7</b>	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Chemist

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Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB1-25

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<b> &lt;1</b>	1
<b>V4</b>	1,3-Dichlorobenzene	\<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<b> </b> <1	1

Lisa Kirkbride

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Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: CLIENT: TETRA-TECH 02/08/1991 PROJECT #: DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB1-30 DATE SAMPLED: 02/06/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
Vl	Benzene	<del>&lt;1</del>	1
V2	Chlorobenzene	\ <u></u>	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

March 1, 1991 Date Chemist

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TETRA-TECH DATE RECEIVED: 02/08/1991 CLIENT: DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB1-35 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	] 1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<b> &lt;1</b>	1
<b>V</b> 7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	1

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COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	< <u>1</u>	l Ī
<b>V</b> 7	Toluene	<1	Ī
V8	Xylenes (Dimethyl benzenes)	<1	1

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DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: PROJECT #: LOCATION: SAMPLE ID: SB7-10

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	₹1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	) 1

Lisa Kirkbride Chemist

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

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COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	<1	1
V2	Chlorobenzene	<b>\</b> 1	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	\< <u>1</u>	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	l<1	1

Lisa Kirkbride Chemist

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

TETRA-TECH TC-8380-01 MAINTENANCE CENTER DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: PROJECT #: LOCATION: SB7-20 SAMPLE ID:

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	<1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	\ 1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 DATE ANALYZED : 02/15/1991 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB7-25 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
Vl	Benzene	₹1	1
V2	Chlorobenzene	<1	1
<b>V3</b>	1,2-Dichlorobenzene	<b> &lt;1</b>	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<b> &lt;1</b>	1
V8	Xylenes (Dimethyl benzenes)	<b> &lt;1</b>	1

March 1, 1991 Date

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Order No: 91-02-088 Hazardous Waste Testing Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB7-30 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	₹1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
<b>V8</b>	Xylenes (Dimethyl benzenes)	<b> </b> <1	] 1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 PROJECT #: TC-8380-01 DATE EXTRACTED: 02/14/1991 LOCATION: MAINTENANCE CENTER DATE ANALYZED : 02/15/1991 SAMPLE ID: SB7-35 DATE SAMPLED: 02/06/1991

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
<u>V1</u>	Benzene	₹1	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

Chemist

Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: TETRA-TECH TC-8380-01 MAINTENANCE CENTER PROJECT #: LOCATION: SAMPLE ID: SB7-40

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene		
V2	Chlorobenzene	< <u>1</u>	1
<b>V3</b>	1,2-Dichlorobenzene	\< <b>1</b>	1
V4	1,3-Dichlorobenzene	<b> &lt;1</b>	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA-TECH DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 LOCATION: MAINTENANCE CENTER SAMPLE ID: SB6-5 DATE SAMPLED: 02/07/1991

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	₹1	
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
<b>V4</b>	1,3-Dichlorobenzene	<1	1
V5	1,4-Dichlorobenzene	<1	1
V6	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<1	1
V8	Xvlenes (Dimethyl benzenes)	<b> </b> <1	1

Lisa Kirkbride

March 1, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: <u>E765</u>

DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/07/1991 CLIENT: TETRA-TECH PROJECT #: TC-8380-01 MAINTENANCE CENTER LOCATION: SAMPLE ID: SB6-10

COMP.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
V1	Benzene	71	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1 1
<b>V4</b>	1,3-Dichlorobenzene	<1	1 1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
<b>V6</b>	Ethyl benzene	<1	1
<b>V</b> 7	Toluene	<b>&lt;1</b>	1
V8	Xylenes (Dimethyl benzenes)	<1	1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

DATE RECEIVED: 02/08/1991 TETRA-TECH CLIENT: DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 DATE ANALYZED: 02/15/1991 LOCATION: MAINTENANCE CENTER DATE SAMPLED: 02/07/1991 SAMPLE ID: SB5-5

COMP. NO.	COMPOUND	ug/Kg (ppb)	DETECTION LIMIT ug/Kg (ppb)
VI	Benzene	7	1
V2	Chlorobenzene	<1	1
V3	1,2-Dichlorobenzene	<1	1
V4	1,3-Dichlorobenzene	<1	1
<b>V</b> 5	1,4-Dichlorobenzene	<1	1
<b>V</b> 6	Ethyl benzene	<1	1
V7	Toluene	<1	1
V8	Xylenes (Dimethyl benzenes)	<1	1

Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088
Hazardous Waste Testing
Certification: <u>E765</u>

CLIENT:	TETRA-TECH	DATE RECEIVED:	02/08/1991
PROJECT #:	TC-8380-01	DATE EXTRACTED:	02/14/1991
LOCATION:	ALMADEN FIRE STATION	DATE ANALYZED :	02/15/1991
SAMPLE ID:	SB3-5 MATRIX SPIKE RECOVERY	DATE SAMPLED:	02/06/1991

COMP NO.	. COMPOUND	SPIKE RECOVERY
	Benzene	99%
V2	Chlorobenzene	101%
V3	1,2-Dichlorobenzene	105%
V4	1,3-Dichlorobenzene	89%
V5	1,4-Dichlorobenzene	87%
V6	Ethyl benzene	102%
<b>V</b> 7	Toluene	107%
V8	Xylenes (Dimethyl benzenes)	105%

Lisa Kirkbride Chemist

<u>March</u> 1, 1991 Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing Certification: E765

TETRA-TECH
TC-8380-01
ALMADEN FIRE STATION
SB3-5 MATRIX SPIKE RECOVERY
DATE RECEIVED: 02/08/1991
DATE EXTRACTED: 02/14/1991
DATE ANALYZED: 02/15/1991
DATE SAMPLED: 02/06/1991 CLIENT: PROJECT #: LOCATION: SAMPLE ID:

DUPLICATE

COMP NO.	<u>COMPOUND</u>	SPIKE RECOVERY	
VI	Benzene	112%	
V2	Chlorobenzene	112%	
V3	1,2-Dichlorobenzene	106%	
<b>V4</b>	1,3-Dichlorobenzene	117%	
V5	1,4-Dichlorobenzene	107%	
V6	Ethyl benzene	113%	
<b>V</b> 7	Toluene	116%	
V8	Xylenes (Dimethyl benzenes)	124%	

Chemist

March 1, 1991

Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

CLIENT: 02/08/1991 TETRA-TECH DATE RECEIVED: DATE EXTRACTED: 02/14/1991 PROJECT #: TC-8380-01 DATE ANALYZED: 02/15/1991 LOCATION: ALMADEN FIRE STATION SAMPLE ID: SB1-35 MATRIX SPIKE RECOVERY DATE SAMPLED: 02/06/1991

COMP NO.	. COMPOUND	SPIKE RECOVERY	
V1	Benzene	90%	
V2	Chlorobenzene	87%	
V3	1,2-Dichlorobenzene	<del></del>	
V4	1,3-Dichlorobenzene	-	
V5	1,4-Dichlorobenzene	86%	
V6	Ethyl benzene	93%	
V7	Toluene	93%	
V8	Xylenes (Dimethyl benzenes)	96%	

#### ORGANIC ANALYSIS REPORT Aromatic Volatile Organics, EPA Method 8020

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-088 Hazardous Waste Testing

Certification: E765

TETRA-TECH CLIENT: DATE RECEIVED: 02/08/1991 DATE EXTRACTED: 02/14/1991 DATE ANALYZED: 02/15/1991 PROJECT #: TC-8380-01 ALMADEN FIRE STATION LOCATION: SAMPLE ID: SB1-35 MATRIX SPIKE RECOVERY DATE SAMPLED: 02/06/1991

DUPLICATE

COMP NO.	. COMPOUND	SPIKE RECOVERY
Vl	Benzene	80%
	Chlorobenzene	77%
V3	1,2-Dichlorobenzene	
V4	1,3-Dichlorobenzene	-
<b>V</b> 5	1,4-Dichlorobenzene	81%
V6	Ethyl benzene	86%
<b>V</b> 7	Toluene	76%
<b>V8</b>	Xylenes (Dimethyl benzenes)	91%

Lisa Kirkbride

March 1, 1991

Chemist

EUREKA LABORATORIES, INC. Order No.: 91-02-088 Hazardous Waste Testing 6790 Florin Perkins Road Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: MATRIX: SOIL SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-01A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB3-5 **SAMPLE VOL./WT.:** 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
	ppm (m3/1/3)	Ppm (mg/Ng)
Gasoline Range	<b>&lt;5</b>	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum		
Hydrocarbons		
<u></u>		
CARBON NO. RANGE		
-		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	_	
Motor Oil Range	<b></b>	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-02A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB3-10 SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	=	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-03A

FILE ID: NA

SAMPLE ID: SB3-15

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 Hazardous Waste Testing 6790 Florin Perkins Road Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-04A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB3-20 SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	3

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 Hazardous Waste Testing 6790 Florin Perkins Road Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-05A % MOISTURE: NA REPORT WT: WET FILE ID: NA SAMPLE ID: SB3-25 SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/9

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-06A

REPORT WT: WET SAMPLE VOL./WT.: 40 g

FILE ID: NA

SAMPLE ID: SB3-30

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE		,
Gasoline Range	-	
Diesel Range	•	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91

TASK #: NA

DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91
INSTRUMENT ID:

P.O.#: NA
SAMPLE LOCATION: MAINTENANCE CEN

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102088-07A FILE ID: NA

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.06

SAMPLE ID: SB2-5

PETROLEUM HYDROCARBONS CONCENTRATION DETECTION LIMIT ppm (mg/Kg) ppm (mg/Kg) Gasoline Range **≺5** 5 Diesel Range <10 10 Motor Oil Range <25 25 Total Petroleum Hydrocarbons CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO. Gasoline Range Diesel Range Motor Oil Range

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL % MOISTURE: NA ELI SAMPLE ID: 9102088-08A FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB2-10 DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
	Phm (m2)1/2)	Phm (m2)1.2)
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum		
Hydrocarbons		
-		
CARBON NO. RANGE		
•		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	•
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist Man

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91
PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91

TASK #: NA

DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

DATE SAMPLED: 02/06/91

P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-09A

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g

SAMPLE ID: SB2-15

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA

DATE ANALYZED: 02/14/91

P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-10A

> REPORT WT: WET **SAMPLE VOL./WT.:** 40 g

FILE ID: NA

SAMPLE ID: SB2-20

DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE  Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- -	

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED:

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-11A

FILE ID: NA

SAMPLE ID: SB2-25

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

Order No.: 91-02-088 EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-12A % MOISTURE: NA

FILE ID: NA

SAMPLE ID: SB2-30

REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR: 1.0

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-13A

REPORT WT: WET

FILE ID: NA

SAMPLE ID: SB2-35

SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS CONCENTRATION DETECTION LIMIT ppm (mg/Kg) ppm (mg/Kg) Gasoline Range <5 5 Diesel Range <10 10 Motor Oil Range <25 25

CARBON NO. RANGE

Total Petroleum Hydrocarbons

Gasoline Range Diesel Range

Motor Oil Range

PEAK CARBON NO.

Gasoline Range

Diesel Range

Motor Oil Range

Chemist Mark

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-14A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB2-40

PETROLEUM HYDROCARBONS	CONCENTRATION	DETECTION LIMIT
	ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	<b>&lt;5</b>	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum		
Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	_	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

DILUTION FACTOR:

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-15A % MOISTURE: NA FILE ID: NA REPORT WT: WET

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT
Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE		
Gasoline Range	<b>→</b>	
Diesel Range	-	
Motor Oil Range	••	
PEAK CARBON NO.		
Gasoline Range	•	
Diesel Range	-	
Motor Oil Range	-	

Chemist

SAMPLE ID: SB1-5

Mark Shih, Ph.D.

02/20/91

SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-16A FILE ID: NA SAMPLE ID: SB1-10	DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist Mark

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-17A FILE ID: NA SAMPLE ID: SB1-15	DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist Marth

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953 Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-18A

FILE ID: NA

SAMPLE ID: SB1-20

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA

DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91
INSTRUMENT ID:

P.O.#: NA

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-19A

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

FILE ID: NA SAMPLE ID: SB1-25

PETROLEUM HYDROCARBONS CONCENTRATION DETECTION LIMIT ppm (mg/Kg) ppm (mg/Kg)

Gasoline Range <5 5

Gasoline Range	<5	5
Diesel Range	<10	10
Motor Oil Range	<25	25
Total Petroleum		
Hydrocarbons		

CARBON NO. RANGE

Gasoline Range Diesel Range Motor Oil Range -

PEAK CARBON NO.

Gasoline Range Diesel Range Motor Oil Range -

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91

TASK #: NA

DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID:

P.O.#: NA

MATRIX: SOIL

MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-20A

REPORT WT: WET
SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

FILE ID: NA

SAMPLE ID: SB1-30

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-21A FILE ID: NA SAMPLE ID: SB1-35	DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist That

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC.

6790 Florin Perkins Road

Sacramento, CA 95828

(916) 381-7953

Order No.

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Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-22A

FILE ID: NA

SAMPLE ID: SB7-5

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	  	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-23A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 q SAMPLE ID: SB7-10 DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-24A

REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

SAMPLE ID: SB7-15

PETROLEUM HYDROCARBONS CONCENTRATION DETECTION LIMIT ppm (mg/Kg) ppm (mg/Kg) Gasoline Range 5 <5 Diesel Range <10 10 Motor Oil Range <25 25

CARBON NO. RANGE

Total Petroleum Hydrocarbons

Gasoline Range Diesel Range

Motor Oil Range

PEAK CARBON NO.

Gasoline Range Diesel Range

Motor Oil Range

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-25A

FILE ID: NA

SAMPLE ID: SB7-20

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID:

SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-26A % MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE ID: SB7-25

SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC.

6790 Florin Perkins Road

Sacramento, CA 95828

(916) 381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-27A

FILE ID: NA

SAMPLE ID: SB7-30

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<b>&lt;5</b>	5
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381 - 7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID:

SAMPLE ID: SB7-35 SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	<b>≺5</b>	5
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	<25	25
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED

TASK #: NA P.O.#: NA

TADE #: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-29A

FILE ID: NA

SAMPLE ID: SB7-40

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE ANALYZED: 02/14/91 INSTRUMENT ID:

TASK #: NA P.O.#: NA

SAMPLE ID: SB6-5

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE LOCATION: MAINTENANCE CEN

SAMPLE VOL./WT.: 40 g

ELI SAMPLE ID: 9102088-30A FILE ID: NA

DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-31A

FILE ID: NA

SAMPLE ID: SB6-10

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	 	

Chemist

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-32A

FILE ID: NA

SAMPLE ID: SB5-5

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g
DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist / Mm

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC.	DATE SAMPLED: NA
CONTRACT #: TC #: 8380-03	DATE RECEIVED: 02/08/91
PROJECT: HAYWARD CALTRAN MAINTENANCE	DATE EXTRACTED: 02/14/91
TASK #: NA	DATE ANALYZED: 02/14/91
P.O.#: NA	INSTRUMENT ID:
SAMPLE LOCATION:	MATRIX: NA
ELI SAMPLE ID: 9102088-33A	<pre>% MOISTURE: NA</pre>
FILE ID: NA	REPORT WT: WET
SAMPLE ID: METHOD BLANK	SAMPLE VOL./WT.: 40 g
	DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		•
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist /

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-34A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY

SB3-25

DATE SAMPLED: NA

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: NA % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

PETROLEUM HYDROCARBONS

CONCENTRATION

ફ

Gasoline Range 99%
Diesel Range NA
Motor Oil Range 98%
Total Petroleum
Hydrocarbons

CARBON NO. RANGE

Gasoline Range
Diesel Range
Motor Oil Range

PEAK CARBON NO.

Gasoline Range Diesel Range Motor Oil Range -

Chemist -

Mark Shih, Ph.D.

02/20/91

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381 - 7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: NA

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: NA % MOISTURE: NA

SAMPLE LOCATION: ELI SAMPLE ID: 9102088-35A

REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB3-25

Motor Oil Range

PETROLEUM HYDROCARBONS CONCENTRATION

Gasoline Range	107%
Diesel Range	NA
Motor Oil Range	106%
Total Petroleum	
Hydrocarbons	
•	
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	_
	<del>-</del>
Motor Oil Range	-
PEAK CARBON NO.	
Complian Dommo	
Gasoline Range	•
Diesel Range	-

Chemist Mar

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-088 Hazardous Waste Testing 6790 Florin Perkins Road Sacramento, CA 95828 Certification No.: E765 (916)381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: NA CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 TASK #: NA P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MATRIX: NA % MOISTURE: NA ELI SAMPLE ID: 9102088-36A FILE ID: NA REPORT WT: WET SAMPLE ID: METHOD BLANK SAMPLE VOL./WT.: 40 g DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	<5 <10 <25	5 10 25
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist -

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.

CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-37A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY

SB2-30

PEAK CARBON NO.

Gasoline Range Diesel Range Motor Oil Range DATE SAMPLED: NA

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: NA % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

PETROLEUM HYDROCARBONS

CONCENTRATION

Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	108% NA 110%
CARBON NO. RANGE	
Gasoline Range Diesel Range Motor Oil Range	- - -

Chemist Mark

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-38A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB2-30

DATE SAMPLED: NA

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: NA % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

PETROLEUM HYDROCARBONS CONCENTRATION

Gasoline Range
Diesel Range
Motor Oil Range
Total Petroleum
Hydrocarbons

CARBON NO. RANGE

Gasoline Range
Diesel Range
Motor Oil Range

PEAK CARBON NO.

Gasoline Range Diesel Range Motor Oil Range -

Chemist Marthy.

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

(916) 381-7953

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-01A

FILE ID: NA

SAMPLE ID: SB3-5

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist Mark

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916) 381-7953 DATE SAMPLED: 02/06/91 CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 TASK #: NA P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-02A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB3-10 SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-03A

FILE ID: NA

SAMPLE ID: SB3-15

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID:

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 q

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE  Gasoline Range  Diesel Range  Motor Oil Range	- - -	
PEAK CARBON NO.  Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist -

Mark Shih, Ph.D.

02/20/91

# LUFT TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED:

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-04A

FILE ID: NA

SAMPLE ID: SB3-20

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE  Gasoline Range  Diesel Range  Motor Oil Range	- - -	
PEAK CARBON NO.  Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

CONTRACT #: TC #: 8380-03 DATE RECEIVED: PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED:

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-05A

FILE ID: NA

SAMPLE ID: SB3-25

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 q

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	 	

Chemist -

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-06A

REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g

SAMPLE ID: SB3-30

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	 	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765		
CLIENT: TETRA TECH, INC.	DATE SAMPLED: 02/06/91		
CONTRACT #: TC #: 8380-03	DATE RECEIVED: 02/08/91		
PROJECT: HAYWARD CALTRAN MAINTENANCE	DATE EXTRACTED: 02/14/91		
TASK #: NA	DATE ANALYZED: 02/14/91		
P.O.#: NA	INSTRUMENT ID:		
SAMPLE LOCATION: MAINTENANCE CEN	MATRIX: SOIL		
ELI SAMPLE ID: 9102088-07A	% MOISTURE: NA		
FILE ID: NA	REPORT WT: WET		
SAMPLE ID: SB2-5	SAMPLE VOL./WT.: 40 q		
	DILUTION FACTOR: 1.00		

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist Marketin

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABOR	RATORIES, INC.
6790 Florin	Perkins Road
Sacramento,	CA 95828
(916)381-795	53

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03
PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91

TASK #: NA

DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91
INSTRUMENT ID:

P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN

MATRIX: SOIL * MOISTURE: NA REPORT WT: WET

ELI SAMPLE ID: 9102088-08A

SAMPLE VOL./WT.: 40 g

FILE ID: NA SAMPLE ID: SB2-10

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		

Chemist

Mark Shih, Ph.D.

Gasoline Range Diesel Range Motor Oil Range

02/20/91

# LUFT TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID:
MATRIX: SOIL
MOISTURE: NA
REPORT WT: WEI

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-09A

REPORT WT: WET

FILE ID: NA

**SAMPLE VOL./WT.:** 40 g

SAMPLE ID: SB2-15

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	<del>-</del> -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist May

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA

DATE ANALYZED: 02/14/91 INSTRUMENT ID:

P.O.#: NA

MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-10A

> REPORT WT: WET SAMPLE VOL./WT.: 40 q

FILE ID: NA

DILUTION FACTOR:

SAMPLE ID: SB2-20

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO.	- - -	
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist -

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91

PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA

DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-11A

REPORT WT: WET

FILE ID: NA

SAMPLE VOL./WT.: 40 g

SAMPLE ID: SB2-25

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range		
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist -

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-12A

FILE ID: NA

SAMPLE ID: SB2-30

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- -	
PEAK CARBON NO.  Gasoline Range  Diesel Range  Motor Oil Range	- - -	

Chemist Marke

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC.	DATE SAMPLED: 02/06/91
CONTRACT #: TC #: 8380-03	DATE RECEIVED: 02/08/91
PROJECT: HAYWARD CALTRAN MAINTENANCE	DATE EXTRACTED: 02/14/91
TASK #: NA	DATE ANALYZED: 02/14/91
P.O.#: NA	INSTRUMENT ID:
SAMPLE LOCATION: MAINTENANCE CEN	MATRIX: SOIL
ELI SAMPLE ID: 9102088-13A	<pre>% MOISTURE: NA</pre>
FILE ID: NA	REPORT WT: WET
SAMPLE ID: SB2-35	SAMPLE VOL./WT.: 40 g

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range	, NA	NA
Total Petroleum		
Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.	-	
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist Marks

Mark Shih, Ph.D.

02/20/91

DILUTION FACTOR:

1.00

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Sacramento, CA 95828 Certification No.: E765 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 INSTRUMENT ID: P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL

DILUTION FACTOR:

1.00

DETECTION LIMIT CONCENTRATION PETROLEUM HYDROCARBONS ppm (mg/Kg) ppm (mg/Kg) Gasoline Range NA NA Diesel Range <10 10 NA Motor Oil Range NA Total Petroleum Hydrocarbons CARBON NO. RANGE Gasoline Range Diesel Range Motor Oil Range PEAK CARBON NO. Gasoline Range Diesel Range Motor Oil Range

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765	
CLIENT: TETRA TECH, INC.	DATE SAMPLED: 02/06/91	
CONTRACT #: TC #: 8380-03	DATE RECEIVED: 02/08/91	
PROJECT: HAYWARD CALTRAN MAINTENANCE	DATE EXTRACTED: 02/14/91	
TASK #: NA	DATE ANALYZED: 02/14/91	
P.O.#: NA	INSTRUMENT ID:	
SAMPLE LOCATION: MAINTENANCE CEN	MATRIX: SOIL	
ELI SAMPLE ID: 9102088-15A	% MOISTURE: NA	

REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB1-5 DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist Mark Hu

FILE ID: NA

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-16A

FILE ID: NA

SAMPLE ID: SB1-10

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

**SAMPLE VOL./WT.:** 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	bbw (wd/kd) DETECTION FIWIT
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist Mar

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-17A FILE ID: NA SAMPLE ID: SB1-15	DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	-	

Chemist Mutther

Mark Shih, Ph.D.

02/20/91

# LUFT TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953 Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE DATE E

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-18A

FILE ID: NA

SAMPLE ID: SB1-20

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION	DETECTION LIMIT
	ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range	NA.	NA
Total Petroleum		
Hydrocarbons		
• .		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
_		
PEAK CARBON NO.		
Gasoline Range	•	
Diesel Range	-	
Motor Oil Range	-	

Chemist May

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015 (GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953	Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-19A FILE ID: NA SAMPLE ID: SB1-25	DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	NA NA	NA
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	•	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC.

6790 Florin Perkins Road

Sacramento, CA 95828

(916) 381-7953

Order No.: 91-02-088

Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-20A

FILE ID: NA

SAMPLE ID: SB1-30

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

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02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-21A

FILE ID: NA

SAMPLE ID: SB1-35

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range	NA <10	NA 10
Motor Oil Range Total Petroleum Hydrocarbons	NA	NA
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	••	
Motor Oil Range	-	

Chemist Mark

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Sacramento, CA 95828 (916) 381-7953

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-22A

FILE ID: NA

SAMPLE ID: SB7-5

Hazardous Waste Testing Certification No.: E765

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- -	

Chemist -

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC.
CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-23A

FILE ID: NA

SAMPLE ID: SB7-10

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

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02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

DATE SAMPLED: 02/06/91

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

TASK #: NA P.O.#: NA

INSTRUMENT ID: MATRIX: SOIL

SAMPLE LOCATION: MAINTENANCE CEN ELI SAMPLE ID: 9102088-24A

% MOISTURE: NA REPORT WT: WET

FILE ID: NA

SAMPLE ID: SB7-15

SAMPLE VOL./WT.: 40 g

1.00 DILUTION FACTOR:

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	<del>-</del> -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

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02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

Order No.: 91-02-088 EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/06/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 PROJECT: HAYWARD CALTRAN MAINTENANCE TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL % MOISTURE: NA ELI SAMPLE ID: 9102088-25A FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g SAMPLE ID: SB7-20 DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	concentration ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range	NA	NA
Total Petroleum		
Hydrocarbons		
CARBON NO. RANGE		
Gasoline Range	_	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range		
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-26A

FILE ID: NA

SAMPLE ID: SB7-25

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-27A

FILE ID: NA

SAMPLE ID: SB7-30

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID:
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 q

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

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Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-28A

FILE ID: NA

SAMPLE ID: SB7-35

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91

DATE ANALYZED
MATRIX: SOIL
% MOISTURE: NA
REPORT WT: WET

SAMPLE VOL./WT.: 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- =	

Chemist

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-29A

FILE ID: NA

SAMPLE ID: SB7-40

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

**SAMPLE VOL./WT.:** 40 g

DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	NA	NA.
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	NA.	NA
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	•	
PEAK CARBON NO.		
Gasoline Range	••	
Diesel Range	-	
Motor Oil Range	-	

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. Order No.: 91-02-088 6790 Florin Perkins Road Hazardous Waste Testing Certification No.: E765 Sacramento, CA 95828 (916)381-7953CLIENT: TETRA TECH, INC. DATE SAMPLED: 02/07/91 CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 TASK #: NA DATE ANALYZED: 02/14/91 P.O.#: NA INSTRUMENT ID: SAMPLE LOCATION: MAINTENANCE CEN MATRIX: SOIL ELI SAMPLE ID: 9102088-30A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE ID: SB6-5 SAMPLE VOL./WT.: 40 q DILUTION FACTOR: 1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range	NA	NA
Total Petroleum		
Hydrocarbons		
•		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	=	
Diesel Range	-	
Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953		Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765
CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03 PROJECT: HAYWARD CALTRAN MAI TASK #: NA P.O.#: NA SAMPLE LOCATION: MAINTENANCE ELI SAMPLE ID: 9102088-31A FILE ID: NA SAMPLE ID: SB6-10		DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET SAMPLE VOL./WT.: 40 g DILUTION FACTOR: 1.00
PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	
		179

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range	NA.	NA
Total Petroleum		
Hydrocarbons		
22,		
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	<b>-</b>	
PEAK CARBON NO.		
Gasoline Range	=	
Diesel Range	_	
	_	
Motor Oil Range	•	

Chemist

Mark Shih, Ph.D.

02/20/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION: MAINTENANCE CEN

ELI SAMPLE ID: 9102088-32A

FILE ID: NA

SAMPLE ID: SB5-5

DATE SAMPLED: 02/07/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

**SAMPLE VOL./WT.:** 40 g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.		
Gasoline Range Diesel Range Motor Oil Range	- - -	

Chemist

Mark Shih, Ph.D.

02/20/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

Order No.: 91-02-088 EUREKA LABORATORIES, INC. Hazardous Waste Testing 6790 Florin Perkins Road Certification No.: E765 Sacramento, CA 95828 (916) 381-7953 CLIENT: TETRA TECH, INC. DATE SAMPLED: NA CONTRACT #: TC #: 8380-03 DATE RECEIVED: 02/08/91 PROJECT: HAYWARD CALTRAN MAINTENANCE DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91 TASK #: NA INSTRUMENT ID: AB P.O.#: NA MATRIX: SOIL SAMPLE LOCATION: ELI SAMPLE ID: 9102088-33A % MOISTURE: NA FILE ID: NA REPORT WT: WET SAMPLE VOL./WT.: 40g

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range	NA	NA
Diesel Range	<10	10
Motor Oil Range Total Petroleum Hydrocarbons	NA	NA
CARBON NO. RANGE		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	
PEAK CARBON NO.		
Gasoline Range	-	
Diesel Range	-	
Motor Oil Range	-	

Chemist

SAMPLE ID: METHOD BLANK

Mark Shih, Ph.D.

02/22/91

DILUTION FACTOR:

1.00

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-34A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY

SB3-25

Motor Oil Range

DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

PETROLEUM HYDROCARBONS	CONCENTRATION &
Gasoline Range	99%
Diesel Range	NA
Motor Oil Range Total Petroleum	98%
Hydrocarbons	NA
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	
Gasoline Range	-
Diesel Range	-

Chemist

Mark Shih, Ph.D.

02/22/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

DAME CAMPIED. OF

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-35A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB3-25

Gasoline Range Diesel Range Motor Oil Range DATE SAMPLED: 02/06/91
DATE RECEIVED: 02/08/91
DATE EXTRACTED: 02/14/91
DATE ANALYZED: 02/14/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

PETROLEUM HYDROCARBONS	CONCENTRATION %
Gasoline Range	107%
Diesel Range	NA
Motor Oil Range Total Petroleum	106%
Hydrocarbons	NA
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	

Chemist

Mark Shih, Ph.D.

02/22/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-36A

FILE ID: NA

SAMPLE ID: METHOD BLANK

DATE SAMPLED: NA

DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

DILUTION FACTOR:

1.00

PETROLEUM HYDROCARBONS	CONCENTRATION ppm (mg/Kg)	DETECTION LIMIT ppm (mg/Kg)
Gasoline Range Diesel Range Motor Oil Range Total Petroleum Hydrocarbons	NA <10 NA	NA 10 NA
CARBON NO. RANGE		
Gasoline Range Diesel Range Motor Oil Range	- - -	
PEAK CARBON NO.  Gasoline Range	_	
Diesel Range Motor Oil Range	-	

Chemist

Mark Shih, Ph.D.

02/22/91

# TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088
Hazardous Waste Testing
Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-37A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY

SB2-30

Motor Oil Range

DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: AB MATRIX: SOIL

* MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

### PETROLEUM HYDROCARBONS

#### CONCENTRATION

9-

Gasoline Range	108%
Diesel Range	NA
Motor Oil Range	110%
Total Petroleum	
Hydrocarbons	NA
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	
Gasoline Range	-
Diesel Range	-

Chemist

Mark Shih, Ph.D.

02/22/91

### TOTAL PETROLEUM HYDROCARBONS Modified EPA Method 8015(GC-FID) for soil

EUREKA LABORATORIES, INC. 6790 Florin Perkins Road Sacramento, CA 95828 (916)381-7953

Order No.: 91-02-088 Hazardous Waste Testing Certification No.: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC #: 8380-03

PROJECT: HAYWARD CALTRAN MAINTENANCE

TASK #: NA P.O.#: NA

SAMPLE LOCATION:

ELI SAMPLE ID: 9102088-38A

FILE ID: NA

SAMPLE ID: SPIKE RECOVERY DUPLICATE

SB2-30

Gasoline Range Diesel Range Motor Oil Range DATE SAMPLED: 02/06/91 DATE RECEIVED: 02/08/91 DATE EXTRACTED: 02/14/91 DATE ANALYZED: 02/14/91

INSTRUMENT ID: AB

MATRIX: SOIL % MOISTURE: NA REPORT WT: WET

SAMPLE VOL./WT.: 40g

PETROLEUM HYDROCARBONS	CONCENTRATION &
Gasoline Range	110%
Diesel Range	NA
Motor Oil Range	102%
Total Petroleum	
Hydrocarbons	NA
CARBON NO. RANGE	
Gasoline Range	-
Diesel Range	-
Motor Oil Range	-
PEAK CARBON NO.	

Chemist ~

Mark Shih, Ph.D.

02/22/91

# TOTAL RECOVERY PETROLEUM HYDROCARBONS EPA 418.1

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168
Hazardous Waste Testing
Certification: <u>E765</u>

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01 PROJECT: HAYWARD MAINTENANCE CENTER

DATE RECEIVED: 02/16/1991 DATE EXTRACTED: 02/19/1991 DATE ANALYZED: 02/21/1991

LOCATION: CAL TRANS YARD

DATE SAMPLED: 02/15/1991

SAMPLE ID.	CONCENTRATION [mg/L (ppm)]	DETECTION LIMIT [mg/L (ppm)]
MW1-Tt1	<0.5	0.5
BLANK	<0.5	0.5
REAGENT SPIKE RECOVERY * REAGENT SPIKE RECOVERY DUPLICATE *	88% 92%	

^{*} Reagent spike set is used due to insufficient sample provided.

Mitra Rafiei Chemist March 5, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01 PROJECT: HAYWARD MAINTENANCE CENTER SAMPLE ID: BLANK

DATE RECEIVED: 02/16/1991 DATE EXTRACTED: N/A DATE ANALYZED: 02/20/1991

COMP.	COMPOUND	ug/	DETECTION
No.		L	LIMIT ug/L (ppb)
V20 V21 V22 V23 V24 V25 V26 V27 V28 V29	Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene (Vinylidene chloride) trans-1,2-Dichloropropylene Dichloromethane 1,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene trans-1,3-Dichloropropylene 1,1,2-Tetrachloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane Trichlorodifluoromethane Trichlorodifluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane Trichlorofluoromethane	00000000000000000000000000000000000000	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5

Lisa Kirkbride Chemist

March 5, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing Certification: <u>E765</u>

CLIENT: TETRA TECH, INC.
CONTRACT #: TC 8380-01
PROJECT: HAYWARD MAINTENANCE CENTER
SAMPLE ID: MW1-Tt1
LOCATION: CAL TRANS YARD

DATE RECEIVED: 02/16/1991 DATE EXTRACTED: N/A DATE ANALYZED: 02/20/1991 DATE SAMPLED: 02/15/1991

COMP.	COMPOUND	ug/ L	DETECTION LIMIT ug/L (ppb)
V17 V18 V19 V20 V21 V22 V23 V24 V25 V27 V28 V29	Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethylene (Vinylidene chloride) trans-1,2-Dichloropropylene trans-1,3-Dichloropropylene trans-1,3-Dichloropropylene trans-1,3-Dichloropropylene 1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	00000000000000000000000000000000000000

Lisa Kirkbride

Chemist

March 5, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing Certification: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01

DATE RECEIVED: 02/16/1991 DATE EXTRACTED: N/A

PROJECT: HAYWARD MAINTENANCE CENTER SAMPLE ID: MATRIX SPIKE RECOVERY *

DATE ANALYZED: 02/20/1991

COMP.	COMPOUND	SPIKE	RECOVERY
NO.			······································

COMP.	COMPOUND		COMP	I COMPOUND	<del></del>
No.	1	Ì	No.		
<u></u>	Bromodichloromethane	102%	V16	1,1-Dichloroethylene	
V2	Bromoform	104%	İ	(Vinylidene chloride)	
٧3	Bromomethane	j -	V17	trans-1,2-Dichloroethylene	86%
٧4	Carbon tetrachloride	98%	V18	Dichloromethane	-
V5	Chlorobenzene	109%	V19	1,2-Dichloropropane	99%
V6	Chloroethane	81%	V20	cis-1,3-Dichloropropylene	99%
٧7	Chloroform	110%	V21	trans-1,3-Dichloropropylene	
<b>V8</b>	Chloromethane	-	V22	1,1,2,2-Tetrachloroethane	103%
V9	Dibromochloromethane	102%	V23	1,1,1,2-Tetrachloroethane	
	Dibromomethane	-	V24	Tetrachloroethylene	97%
	1,2-Dichlorobenzene	101%		1,1,1-Trichloroethane	94%
V12	1,3-Dichlorobenzene	102%		1,1,2-Trichloroethane	100%
	1,4-Dichlorobenzene	92%	V27	Trichloroethylene	103%
	1,1-Dichloroethane	99%	V28	Vinyl chloride	-
V15	1,2-Dichloroethane	92%	V29	Dichlorodifluoromethane	_
		İ	V30	Trichlorofluoromethane	82%
		•	V31	2-chloroethyl vinyl ether	82%

^{*} This set of matrix spike is from another sample of the same matrix and of the same analytical batch.

March 5, 1991
Date

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828

Order No: 91-02-168 Hazardous Waste Testing Certification: E765

(916) 381-7953

CLIENT: TETRA TECH, INC.

DATE RECEIVED: 02/16/1991

CONTRACT #: TC 8380-01

DATE EXTRACTED: N/A

PROJECT: HAYWARD MAINTENANCE CENTER

DATE ANALYZED: 02/20/1991

SAMPLE ID: MATRIX SPIKE RECOVERY DUPLICATE *

COMP.	COMPOUND	<u>S</u>	PIKE	RECOVERY	
COMP.	COMPOUND		COMP	COMPOUND	
V7 V8 V9 V10 V11 V12 V13 V14	Bromodichloromethane Bromoform Bromomethane  Carbon tetrachloride  Chlorobenzene  Chloroethane  Chloroform  Chloromethane  Dibromochloromethane  Dibromomethane  1,2-Dichlorobenzene  1,3-Dichlorobenzene  1,4-Dichloroethane  1,1-Dichloroethane  1,2-Dichloroethane	107% 110% 100% 117% 81% 115% - 106% - 114% 113% 103% 103% 96%	V16 V17 V18 V19 V20 V21 V22 V23 V24 V25 V26 V27 V28 V29 V30	I,1-Dichloroethylene (Vinylidene chloride) trans-1,2-Dichloroethylene Dichloromethane I,2-Dichloropropane cis-1,3-Dichloropropylene trans-1,3-Dichloropropylene l,1,2,2-Tetrachloroethane I,1,1,2-Tetrachloroethane Tetrachloroethylene I,1,1-Trichloroethane I,1,2-Trichloroethane Trichloroethylene Vinyl chloride Dichlorodifluoromethane Trichlorofluoromethane	96% 101% 108% 103% 111%
			V31	2-chloroethyl vinyl ether	91%

^{*} This set of matrix spike is from another sample of the same matrix and of the same analytical batch.

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing

Certification: <u>E765</u>

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01

DATE RECEIVED: 02/16/1991

DATE EXTRACTED: N/A

PROJECT: HAYWARD MAINTENANCE CENTER

DATE ANALYZED: 02/20/1991

SAMPLE ID: BLANK

COMP.	COMPOUND	ug/L	DETECTION
NO.		(ppb)	LIMIT
			ug/L (ppb)
V1	Benzene	<0.5	0.5
٧2	Chlorobenzene	i<0.5	i 0.5
<b>V</b> 3	11,2-Dichlorobenzene	<0.5	0.5
٧4	1,3-Dichlorobenzene	<0.5	0.5
V5	1,4-Dichlorobenzene	i<0.5	0.5
٧6	Ethyl benzene	<0.5	0.5
٧7	Toluene	<0.5	0.5
87	Xylenes (Dimethyl benzenes)	<0.5	0.5

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828

Order No: 91-02-168 Hazardous Waste Testing Certification: E765

(916) 381-7953

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01

DATE RECEIVED: 02/16/1991

PROJECT: HAYWARD MAINTENANCE CENTER SAMPLE ID: MW1-Tt1

DATE EXTRACTED: N/A
DATE ANALYZED: 02/20/1991 DATE SAMPLED: 02/15/1991

LOCATION: CAL TRANS YARD

COMP.	COMPOUND	ug/L	DETECTION
NO.		(ppb)	LIMIT
			ug/L (ppb)
<b>V</b> 1	Benzene	<0.5	0.5
V2	Chlorobenzene	İ<0.5	j 0.5
٧3	1,2-Dichlorobenzene	<0.5	i 0.5
٧4	1,3-Dichlorobenzene	<0.5	0.5
V5	1,4-Dichlorobenzene	<0.5	0.5
٧6	Ethyl benzene	<0.5	0.5
٧7	Toluene	<0.5	0.5
V8	Xylenes (Dimethyl benzenes)	<0.5	0.5

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing Certification: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01 PROJECT: HAYWARD MAINTENANCE CENTER SAMPLE ID: MATRIX SPIKE RECOVERY *

DATE RECEIVED: 02/16/1991

DATE EXTRACTED: N/A

DATE ANALYZED: 02/20/1991

COMP NO.	<u>COMPOUND</u>	SPIKE RECOVERY	
Vl	Benzene	83%	
	Chlorobenzene	85%	
٧3	1,2-Dichlorobenzene	84%	
٧4	1,3-Dichlorobenzene	83%	
	1,4-Dichlorobenzene	88%	
	Ethyl benzene	85%	
٧7	Toluene	83%	
8V	Xylenes (Dimethyl benzenes)	92%	

^{*} This set of matrix spike is from another sample of the same matrix and of the same analytical batch.

March 5, 1991

EUREKA LABORATORIES, INC. 6790 Florin-Perkins Road Sacramento, CA 95828 (916) 381-7953

Order No: 91-02-168 Hazardous Waste Testing

Certification: E765

CLIENT: TETRA TECH, INC. CONTRACT #: TC 8380-01

DATE RECEIVED: 02/16/1991

DATE EXTRACTED: N/A

PROJECT: HAYWARD MAINTENANCE CENTER

DATE ANALYZED: 02/20/1991

SAMPLE ID: MATRIX SPIKE RECOVERY

**DUPLICATE** *

COMP NO.	. <u>COMPOUND</u>	SPIKE RECOVERY	
<u>V1</u>	Benzene	83%	
٧2	Chlorobenzene	85%	
٧3	1,2-Dichlorobenzene	87%	
٧4	11,3-Dichlorobenzene	86%	
٧5	1,4-Dichlorobenzene	96%	
۷6	Ethyl benzene	85%	
٧7	Toluene	86%	
٧8	Xylenes (Dimethyl benzenes)	93%	

^{*} This set of matrix spike is from another sample of the same matrix and of the same analytical batch.



F-28 91-02-168

# CHAIN OF CUSTODY RECORD

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CHILIT STATE OF CALIFORNIA				-	PARAMETERS													HER			.[	
SAMITERS SAMITERS SAMITERS	TC - 830 SKHIMINES JAIE	TIME	NTERMARY CUNTER	f	PP. POLILITANT METALS (13)	SWEAL WINEAUS	OK & GREASE (413.2)	PETROLELM   MYDROCLARBONS (418.1)	BASENEUACIOS		K VOLATILE OPENICS		<u>B</u>	(5:00) SASSUNE (80:5)	APOWATICS (8220)	(0524S (2540)		THE INC.		S) NUMBER OF CONTANERS	OHSE RIVATIONIS/ COMMUNIS	
PHIL SKORGE SKNIATURED				TETRA TECH, INC.									<b>L</b> .		DATE	1	•	5	TOTAL MANUETS			
CLIVED OY	•		SKILATURE					COMP	VIY			<del></del>		<del></del>	·		DATE			METH	OD OF SHIPMENT	
EMICKUISHED DY SKORATUNE								COMPANY										E	SPECIAL SHIPMENTATION ING OR STORAGE RECOURS			
CENTED BY				ے ور	ke			COMPANY									DATE					

6 February 1991

Tetra Tech, Inc. 670 North Rosemead Boulevard Pasadena, CA 91107

#### Gentlemen:

Enclosed is Groundwater Protection Ordinance permit 91064 for a contamination investigation at 21195 Center Street in Castro Valley for the Office of the State Architect.

If you have any questions, please contact Wyman Hong or Craig Mayfield at 484-2600.

Very truly yours,

J. Killingstad, Chief

Water Resources Engineering

WH:mm Enc.



APPLICANT'S

### ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE | PLEASANTON, CALIFORNIA 94588 |

Wyman Hong

1219

(415) 484-2600

A A NAGEMEN	GROUNDWATER PROTECTION (	ORDINANCE PERMIT APPLICATION
FOR AP	PLICANT TO COMPLETE	FOR OFFICE USE
_	CALTRANS HAYWARD MAINT. STATI 21195 CENTER STREET CASTRO VALLEY, CALIFORNIA	LOCATION NUMBER 91064
CLIENT	OF THE STATE ARCHITECT	PERMIT CONDITIONS
Address 400 - P St	Treet Phone 916-323-5819  Zip 95814	Circled Permit Requirements Apply
c/o Dan Book Address 670 N. Rost City PASADENA  Type of project Well Construction Cathodic Protection Water Supply Monitoring Proposed Water Supply Monitoring Proposed Water Supply Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Sering Diemeter Surfece Seal Degrated Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipal Irrord Municipa	Geotechnical investigation  Geotechnical investigation  Georgal XXX  Contentnation XXX  Well Destruction  Y WELL USE - No Well to be Instruction  Y WELL USE - No Well to be Instruction  Y Rotary Auger XXX 8" Holl.  Ther  O. C-57 #554979  Ster In. Maximum  In. Est Depth 1. 1+.  OATE 2/7/91	Soil Boringsequivalent for well projects, or drilling in Petroleum and location sketch for geotechnical projects.  3. Permit is void it project not begun within days of approval date.  2. Mater Wells, including Piezoneters  1. Minimum surface seal thickness is two inches cement grout pleced by tremie.  2. Minimum seal depth is 50 feet for municipal industrial wells or 20 feet for demestic a irrigation wells unless a lesser depth specially approved. Minimum seal depth monitoring wells is the maximum depth practice or 20 feet.  C. GEOTECHNICAL. Backfill bore hole with compacted of tings or heavy bentonits and upper two feet with contemplated material. In areas of known or suspected material. In areas of known or suspected contemination, tremled cement grout shall be used place of compacted cuttings.  D. CATHODIC. Fill hole above anode zone with conceptaced by tremie.  E. WELL DESTRUCTION. See attached.