

#### GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING CONSTRUCTION TESTING & INSPECTION

January 31, 2001

Project No. 044-00006

Ms. Susan Hugo, Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Bay Parkway, Suite 230 Alameda, California 94502

RE:

cc:

Underground Storage Tank Removal

Oakland, California

229 Second Street

Dear Ms. Hugo:

Per the request of M.A. Mortenson Company, attached please find one copy of the above referenced document for your records. You may contact me at (408) 271-2200 if you have questions regarding the information in this letter.

Very truly yours,

KRAZAN & ASSOCIATES, INC.

ALEX J. GALLEGO, RG 6349 Environmental Division Manager

Mr. Stuart Block, Cox, Castle & Nicholson LLP

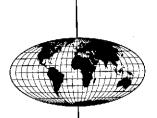
Mr. Marvin Doster, M.A. Mortenson Company

Mr. James Fey

Ms. Leslie Gould, City of Oakland CEDA Planning Office

Mr. Doug Herman, Port of Oakland

Ms. Yana Nordhav, Baseline Environmental Consulting



# Alameda County NOV 2 1 2003 Environmental Health

UNDERGROUND STORAGE TANK REMOVAL 229 CASTRO STREET OAKLAND, CALIFORNIA

> Project No. 044-00006 January 31, 2001

Prepared for:
M.A. Mortenson Company
700 Meadow Lane North
Minneapolis, Minnesota 55422

Prepared by: Krazan & Associates, Inc. 545 Parrott Street San Jose, California 95112 (408) 271-2200



# TABLE OF CONTENTS

Project No. 044-00006

1.0	INTRODUCTION
2.0	SITE LOCATION AND DESCRIPTION
3.0	REGIONAL GEOLOGY AND HYDROGEOLOGY
4.0	PROCEDURES AND FINDINGS
5.0	GROUNDWATER ASSESSMENT4
6.0	DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS
7.0	LIMITATIONS6
Mona	
Maps Vicin	ity Map Figure 1
Site N	MapFigure 2
	Sample Location MapFigure 3
	<u>ndices</u>
Under	rground Storage Tank Removal Permit
	ction Report, Manifests, and Related DocumentsB
Labor	atory Analytical Reports and Chain of Custody Forms

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#### UNDERGROUND STORAGE TANK REMOVAL 229 CASTRO STREET OAKLAND, CALIFORNIA

#### 1.0 INTRODUCTION

The following report summarizes the field activities and results of soil sample and groundwater analyses related to the removal of one underground storage tank (UST) located at 229 Castro Street in Oakland, California (Site; Figure 1). The work was conducted by Krazan & Associates, Inc. (Krazan) on behalf of M.A. Mortenson Company (Mortenson), the current owner of the subject site.

#### 2.0 SITE LOCATION AND DESCRIPTION

The Site occupies a square block of land in the City of Oakland bound by 2<sup>nd</sup> and 3<sup>rd</sup> Streets and Castro and Brush Street. It consists of three parcels: one historically known as 229 Castro Street and recently acquired by Mortenson and two adjacent parcels under contract for purchase by Mortenson and owned by the Port of Oakland (Port). The Site measures approximate 300 feet by 200 feet and encompasses an approximate area of 1.4 acres. The UST was located adjacent to the sidewalk along Third Street near the intersection with Castro Street on the part of the property with the historical address of 229 Castro Street (Figure 2). Structures at the Site have been removed and the Site is being redeveloped as the Oakland Telecom Access Center (OTAC).

The Site is located in an area of Oakland currently utilized for industrial and commercial purposes. Businesses adjacent to the Site include a retail office supplies store, a plating shop, a self-storage business, warehouses, and Port of Oakland storage and administrative facilities. The nearest current residential neighborhood is located at least 1,500 feet north of the Site. According to the United States Geological Survey, 7.5 minute Oakland West, California topographic quadrangle map, photorevised 1993, the subject site is located at an elevation of approximately 5 feet above mean sea level (Figure 1).

3.0 REGIONAL GEOLOGY AND HYDROGEOLOGY

The Site is located in the eastern portion of the San Francisco Bay Area, approximately 1,500 feet north of

the Oakland Inner Harbor and approximately 2.5 miles from the San Francisco Bay. The Site is at an

elevation of approximately 10 feet above mean sea level with the topography in the area being relatively

level with a gentle slope to the southwest. No surface water drainages are located near the Site, and the

nearest surface water bodies are the Oakland Inner Harbor to the south and Lake Merritt, located over a mile

to the northeast.

The Site is located within the Coast Ranges Geomorphic Province of California, which is characterized by

northwest-trending structural features, including faults and geologic units. Based on investigations

conducted by Krazan, the Site is underlain by approximately five feet of fill material which is underlain

by beach and dune sand deposits of the Merritt Formation. The Merritt Formation is described as loose,

well-sorted, fine- to medium-grained sand with silt and clay.

Based on a review of the USGS topographic map for the area and file information for investigations

conducted in the vicinity of the Site, the direction of groundwater flow is approximately south-southwest.

4.0 PROCEDURES AND FINDINGS

A tank removal application, which included a site specific health and safety plan, was required by the

Alameda County Health Care Services Agency, Environmental Health Services (ACEHS), and was

completed and submitted with required fees. Additionally, a UST removal application was completed

and submitted to the Oakland Fire Department (OFD). Copies of applicable permits are included in

Appendix A.

Following approval of the tank removal applications by the ACEHS and OFD, the UST removal was

conducted by Peak Engineering (Peak) and Fuller Excavation and Demolition, Inc. (Fuller) under

subcontract to Krazan. Ms. Susan Hugo of the ACEHS and Mr. Stephen Craford of the OFD were

present during the removal activities. The OFD inspection report is included in Appendix B. The UST

was removed by Fuller on September 26, 2000. Krazan was present to observe field activities and to

collect the soil samples.

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The UST was estimated at 600-gallons and based on previous investigations at the Site, was historically used for gasoline storage. The fill port and associated piping located above the UST were removed. Subsurface piping was not associated with the UST. The UST was then uncovered and soil around the UST was excavated on two sides to allow for removal. The overburden excavated soil was placed aside during the removal activities. The UST was found to contain approximately 6-inches of product (approximately 110 gallons), that was removed from the UST by Asbury Environmental Service and transported under manifest to Ramon Environmental of West Sacramento, California. Approximately 100 pounds of dry ice was placed into the UST to displace residual fuel vapors. Measurements of available oxygen and lower explosive limits (LEL) were taken prior to removal of the UST, and measured 10 and 25 percent, respectively. The UST was then removed with the approval of the OFD. During excavation, petroleum hydrocarbon (PHC) odor was noted during the excavation activities and staining of soil was noted at the base of the UST. The OFD field inspection record is included in Appendix A. The UST, numbered 28625, was placed on a flatbed truck and inspected. The UST was single wall, steel construction. The UST appeared to be in relatively poor condition with seven 0.5 to 1-inch holes on the sides and bottom. The UST was transported under manifest by Fuller to Ecology Control Industries of Richmond, California for recycling. The manifests for the rinsate and UST, and other pertinent documents are presented in Appendix B.

The soils present in the excavation area appeared to be brown silty to clayey fine sand. Groundwater was not encountered during the excavation and tank removal activities, however it is expected that groundwater is present at approximately 7 feet below the ground surface (BGS).

As directed by Ms. Hugo, Krazan's representative collected one soil sample from beneath each end of the UST. The samples from the excavation were obtained from a excavator bucket using a brass sleeve in accordance with ACEHS guidelines. Soil samples were collected at a depth of approximately 7 feet BGS, approximately 1 foot beneath the historical bottom of the UST. Refer to the attached Figure 3 for the soil sample locations.

Following sample collection, the ends of the sample sleeves were covered by Teflon® film and sealed with tight fitting plastic caps and secured in plastic bags. The samples were labeled and placed in a cooler chest, which contained ice to minimize loss of volatile constituents. The samples were then transported under Chain-of-Custody protocol to Entech Analytical Labs, Inc. (Entech), a State-certified analytical laboratory for analysis. As directed by Ms. Hugo, the soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), and benzene, toluene, ethylbenzene, and xylenes (BTEX)

by Environmental Protection Agency (EPA) Method 8015 Modified and 8020. In addition, the soil samples were analyzed for tetraethyl lead and fuel oxygenates by Title 22 Method and EPA Method 8260, respectively. The analytical results for the soil samples, given in milligrams per kilogram (mg/kg) are summarized in the following table. Fuel oxygenates were not detected in the soil samples at concentrations greater than the detection reporting limits of 1 to 4 mg/kg. Tetraethyl lead was not detected in the soil samples at concentrations greater than the detection reporting limit of 1 mg/kg.

Sample No.	TPH-G	Benzene	Toluene	Ethylbenzene	Total Xylenes	Tetra ethyl Lead	Fuel Oxygenates
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-N	1800	8.3	66	27	130	<1	<1 to <4
S-S	2300	12	91	42	210	<1	<1 to <4

Soil around and beneath the former UST was then over-excavated as part of the overall excavation at the Site for placement of a matt foundation. The excavated soil from the matt excavation was characterized and disposed of in accordance with applicable laws.

Two confirmation soil samples were collected from the former UST area following the over-excavation. The soil samples were analyzed for TPH-G, BTEX, and fuel oxygenates. The analytical results for the confirmation soil samples, given in mg/kg are summarized in the following table. Fuel oxygenates were not detected in the soil samples at concentrations greater than the detection reporting limit.

Sample	TPH-G	Benzene	Toluene	Ethylbenzene	Total xylenes	Fuel
No.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Oxygenates (mg/kg)
S-N2W	<1	< 0.005	< 0.005	< 0.005	< 0.005	<0.005 to <0.02
S-S2E	77	0.089	0.35	0.36	0.11	<1 to <4

Copies of the Analytical Results and Chain-of-Custody records for these samples are included in Appendix C.

#### 5.0 GROUNDWATER ASSESSMENT

As part of previous site characterization conducted in February 2000, a boring was installed adjacent to the former UST and a grab groundwater sample was collected. The sample contained elevated concentrations of TPH-G and BTEX. To further assess groundwater conditions at the Site, Krazan advanced two borings approximately 40 feet downgradient of the former UST on October 11, 2000. The KRAZAN & ASSOCIATES, INC.

location of the borings, designated G-1 and G-2, are presented in Figure 2. Grab groundwater samples were collected from these borings and analyzed for TPH-G, BTEX, and fuel oxygenates. Neither groundwater sample contained detectable levels of TPH-G, BTEX, or fuel oxygenates. Copies of the Analytical Results and Chain-of-Custody records for these samples are included in Appendix C. Additionally, as part of the previous characterization activities conducted in February 2000, seven grab groundwater samples were collected from the parcels of the Site owned by the Port and analyzed for volatile organic compounds. None of the seven grab groundwater samples contained BTEX or methyl tert butyl ether (MTBE) compounds.

#### 6.0 DISCUSSION, CONCLUSIONS AND RECOMMENDATIONS

Soil samples collected from the bottom of the UST immediately following the excavation detected TPH-G and BTEX constituents. Tetraethyl lead and fuel oxygenates were not detected in the samples. Following over-excavation of the area, two confirmation soil samples were collected and analyzed for TPH-G, BTEX, and fuel oxygenates. One of the confirmation soil samples was non-detect for all constituents. The other contained only low concentrations of TPH-G and BTEX. The low concentrations of BTEX in the one confirmation soil sample were well below their respective EPA Region IX Preliminary Remedial Goals (PRGs) for dermal contact and soil ingestion for an industrial land use setting. The PRGs are conservative values used for screening human-health risks associated with contaminated media.

Based on this information, it is our opinion that all significant concentrations of contaminants have been removed and that no further action is required with respect to the UST removal. Also, any exposure to the area of the former UST has been prevented by the construction of a matt foundation for the structure at the Site. The matt foundation consists of a 4-foot thick, solid concrete foundation.

A groundwater sample collected in February 2000 adjacent to the former UST contained elevated concentrations of petroleum hydrocarbons. However, two more recent grab groundwater samples collected downgradient from the former UST did not contain petroleum hydrocarbons. Based on this information, the extent of petroleum affected groundwater is interpreted to be limited to the immediate vicinity of the former UST. Furthermore, given the fact that the UST had not been used in many years, and groundwater downgradient of the UST is not affected with petroleum hydrocarbons, any residual contaminants in groundwater appear to stable and are not likely to migrate. Additionally, there are no known domestic or municipal production water wells in the vicinity of the Site and there is a very low

likelihood that shallow groundwater at and near the Site will be used for public consumption. As such, there are no known risks to human health or the environment posed by any residual petroleum hydrocarbons presents in groundwater.

Based on the discussion and conclusions presented above, no further investigation and/or remediation appears warranted with respect to the UST and closure of the Site is appropriate.

#### 7.0 LIMITATIONS

The findings of this report were based upon the results of our field and laboratory investigations, coupled with the interpretation of subsurface conditions associated with the UST excavation. Therefore, the data are accurate only to the degree implied by review of the data obtained and by professional interpretation.

The excavation and sample location were located in the field by review of available maps and by pacing or tape measurements from existing landmarks. Therefore, the excavation and soil sample location should be considered accurate only to the degree implied by the methods used to locate them.

Chemical testing was done by a laboratory approved by the State of California Certified Hazardous Waste Laboratory. The results of the chemical testing are accurate only to the degree of care of ensuring the testing accuracy and the representative nature of the soil samples obtained.

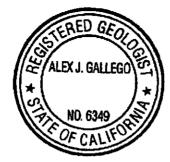
The findings presented herewith are based on professional interpretation using state of the art methods and equipment and a degree of conservatism deemed proper as of this report date. It is not warranted that such data cannot be superseded by future geotechnical, environmental, or technical developments.

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ean Alexander

If you have any questions or if we can be of further assistance, please do not hesitate to contact our office

at (408) 271-2200.



Respectfully submitted, KRAZAN & ASSOCIATES, INC.

Alex J. Gallego, RG 6349

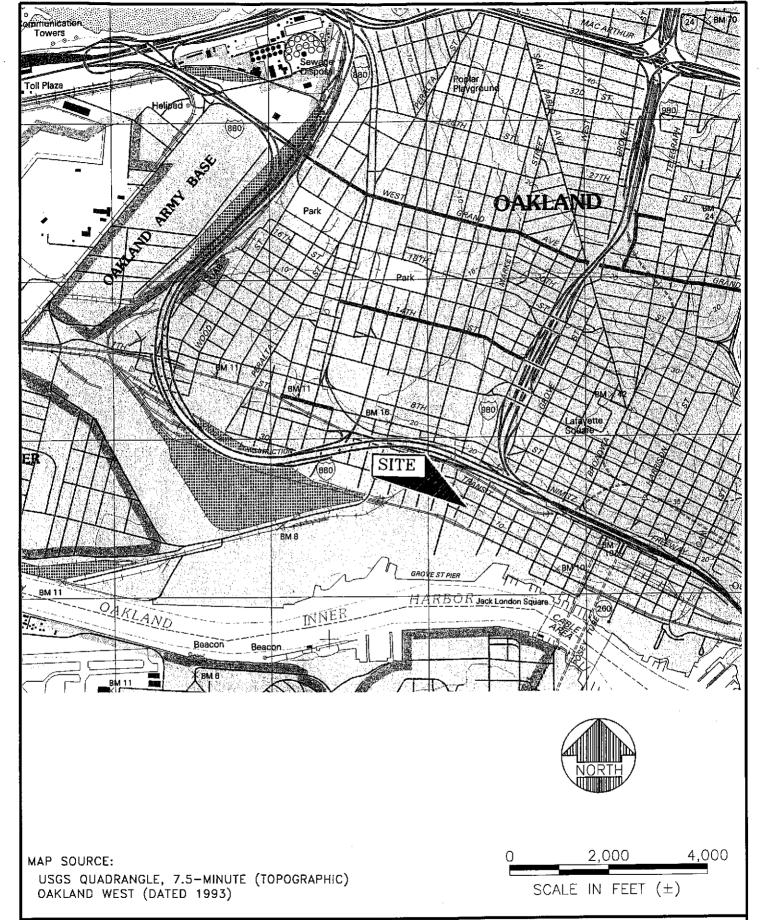
Director of Environmental Services



Dean Alexander Principal Engineer RGE #002051/RCE #34274

AJG/DA/lk

2c: herewith



VICINITY MAP

City Block Bound By: Second, Third, Castro, & Brush Streets Oakland, California Scale:

AS SHOWN 2/00

Drawn by: Approved by:

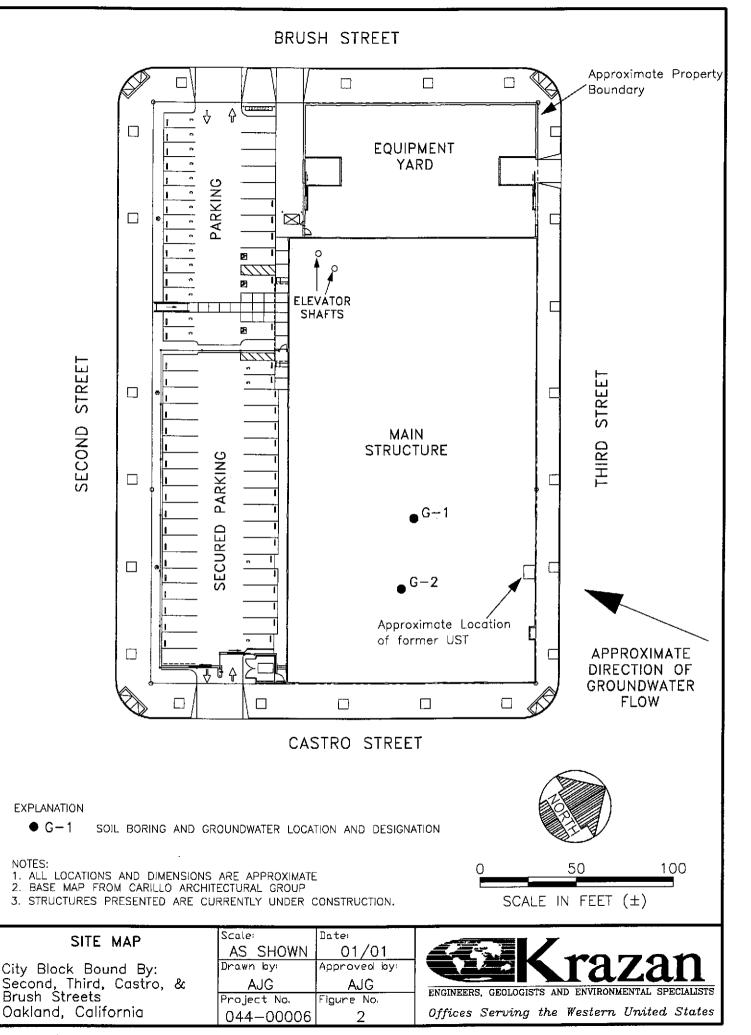
AJG AJG

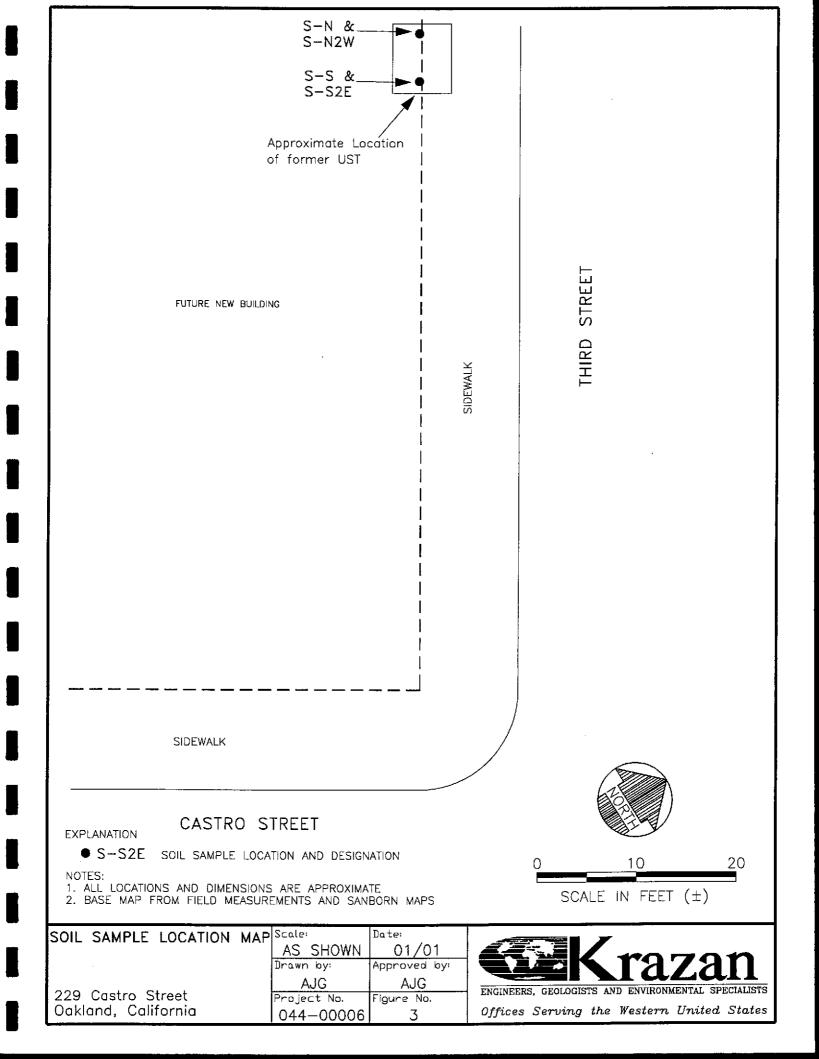
Project No. Figure No.

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ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States





#### ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY ENVIRONMENTAL HEALTH SERVICES 1131 HARBOR BAY PARKWAY, RM 250 ALAMEDA, CA 94502-6577 PHONE # 510/567-6700

Underground Storage Tenk Closura ferrik Applikasion These closure/removal prans have been received and found to be accommented and assemblery meet the requirements of State and Local Health Lasts, Chengas to your chause plans indicated by this Department are to assure complete with State and frost laws. The project projected hence is new released for issuence of any explined building permits for Due day of the accepted plans must be on the jab and available to will contractions and critisman involved with the Any discuss or alterations of these plans and specifications must be supplicitly to this this Department and to the Fire changes med the recemenants of State and task laws. Notify the Decament at west 72 hours prior to the following: closure, is dependent on compliance with accepted plans and Bushing Inspections Department to delentine if such Issuance of a) permit to operate, b) permanent site Alamada County Division of Hamadous Materiate THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS: 1131 Harbor Say Purkway, Suite 250 Removal of Tank(s) and Piping Alameda, CA 94502-6577 and all applicable laws and regulations. Final Inspection Samplans Ochsicockienideemachon, roquired metal sitens: Contact Specialist removel. UNDERGROUND TANK CLOSURE PLAN Complete plan according to attached instructions

1.	Name of Business M. A. Mortenson Company
	Business Owner or Contact Person (PRINT) Mr. Marvin Doster
2.	Site Address 229 Castro Street
	CityOakland Zip 94607 Phone
3.	Mailing Address 108 FIRST Avenue South
	City <u>Seattle</u> , <u>WA</u> zip <u>98104</u> Phone <u>206-748-793-</u>
4.	Property Owner M. A. Mortenson Company
	Business Name (if applicable)
	Address 700 Meadow Lane North
	City, State Minneapolis, MN. zip 55422
5.	Generator name under which tank will be manifested
	M. A. Mortenson Company
	EPA ID# under which tank will be manifested C A O O ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ

PEAK ENGR INC. HAC21 HIC

6.	Contractor M. A. Mortenson Company
	Address 720 Second Street
	City Oakland, Ca. 94607 Phone 510-625-0201
	License Type ABC General ID# 41170 In Burantino
7.	Consultant (if applicable) Krazan 3 Associates, Inc.
	Address 545 Parcott Street
	City, State San Jose, Ca. 95/12 Phone 408-271-2200
8.	Main Contact Person for Investigation (if applicable)
	Name Alex Gallego Title Division Manager
	Company Krazan & Associates, Inc.
	Phone 408 - 271- 2200
9.	Number of underground tanks being closed with this plan
	Length of piping being removed under this plan unknown
	Total number of underground tanks at this facility (**confirmed with owner or operator)
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground storage tanks must be handled as hazardous waste **
	a) Product/Residual Sludge/Rinsate Transporter
	Name Ecology Control Industries EPA I.D. No. CAS 982030173
	Hauler License No. 1533 License Exp. Date 3-01
	Address 255 Parr Blud.
	City Richmond State Ca. Zip 94801
	b) Product/Residual Sludge/Rinsate Disposal Site
	NameEPA ID#
	Address
	City State Zip

	c) Tank and Piping Transporter
	Name
	Hauler License No. //33 License Exp. Date 3-01
•	Address 255 PARL BLUD
	city Richmond State CA zip 94801
	d) Tank and Piping Disposal Site
	Name Ecology Control IndustriesEPA I.D. No. CAD 00946639
	Address 255 Pacc Blvd.
	city Richmond State Ca. Zip 94801
11,	Sample Collector
	Name Alex Gallego
	Company Krazan & Associates, Inc.
	Address 545 Parrott Street
	City San Jose State Ca Zip 95/12 Phone 408-271-23
12.	•
12.	Laboratory
	Name Entela Analytical Labs, Inc.
	Address 525 Del Rey Avenue, Ste. E.
	City <u>Sunnyvale</u> State <u>Ca.</u> Zip <u>940860</u>
	State Certification No. CA Elap # 2346
13.	Have tanks or pipes leaked in the past? Yes No[] Unknown[]
	If yes, describe. Soil and Comundwater samples
	If yes, describe. Soil and Comundwater samples  Collected adjacent to tank contain gasoline
	Compounds.
14.	Describe methods to be used for rendering tank(s) inert:
	_ Dry I ce

Before tanks are pumped out and inerted, all associated piping must be flushed back into the tank(s). All accessible piping must then be removed. Inaccessible piping must be permanently plugged using grout.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to have a functional combustible gas indicator on-site to verify that the tank(s) is inerted.

15. Tank History and Sampling Information \*\*\* (see instructions) \*\*\*

Capacity	Tank  Use History  include date last  used (estimated)	Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
500 gal ±	unknown	Soil Groundwater	Sidewalls (6') Tank Pit.

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

Excavated/S	tockpiled Soil
Stockpiled Soil Volume (estimated)	Sampling Plan
Unknown Stockpited soil must be properly disposed. Any approval from county.	laracterized & reuse of soil must have

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

Will the excavated soil be returned to the excavation immediately after tank removal? [ ] yes [ ] no [X] unknown

If yes, explain reasoning \_

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling activities.

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

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

rev. 11/01/96 ust closure plan 17. Submit Site Health and Safety Plan (See Instructions)

	Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
-	TPH Gas	8015 M 8020		SOIL WATER
	TEL	DHS-LVFT		1ppm 50ppb 5ppb 0.5pp 0.5pp 0.1
-	Chlorinatul C	Jahrens		0.5ppm 0.1
	Seri 10Cs	d. C. (Pb) ZnA		
	, comp			

18. Submit Worker's Compensation Certificate copy

Name of Insurer Will's Cornor Corp. of Minnesota

- 19. Submit Plot Plan \*\*\*(See Instructions)\*\*\*
- 20. Enclose Deposit (See Instructions)
- 21. Report all leaks or contamination to this office within 5 days of discovery.

  The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.
- 22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.
- 23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

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

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

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

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

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

# CONTRACTOR INFORMATION

Name of Business M. A. Mortenson Company
Name of Individual JIM CALI
Signature Jacob Date 9/18/00
PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)
Name of Business M. A. Mortenson Company
Name of Individual
Signature Signature Date 9/18/00
t closure plan

# INSTRUCTIONS

# General Instructions

- \* Three (3) copies of this plan plus attachments and a deposit must be submitted to this Department.
- \* Any cutting into tanks requires local fire department approval.
- \* One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- \* State of California Permit Application Forms A and B are to be submitted to this office. One Form A per site, one Form B for each removed tank.

# Line Item Specific Instructions

- 2. <u>SITE ADDRESS</u>
  Address at which closure is taking place.
- 5. <u>EPA I.D. NO. under which the tanks will be manifested</u>
  EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.
- 6. CONTRACTOR
  Prime contractor for the project.

# 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

- a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
- c) Tanks must be hauled as hazardous waste.
- d) This is the place where tanks will be taken for cleaning.
- 15. TANK HISTORY AND SAMPLING INFORMATION

  Use History This information is essential and must be accurate.

  Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

# 16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

# 17. SITE HEALTH AND SAFETY PLAN

A <u>site specific</u> Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- 1) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are <u>excerpts</u> from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the <u>complete</u> requirements of this Rule.

#### 19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.

rev. 11/01/96 ust closure plan

## 20. DEPOSIT

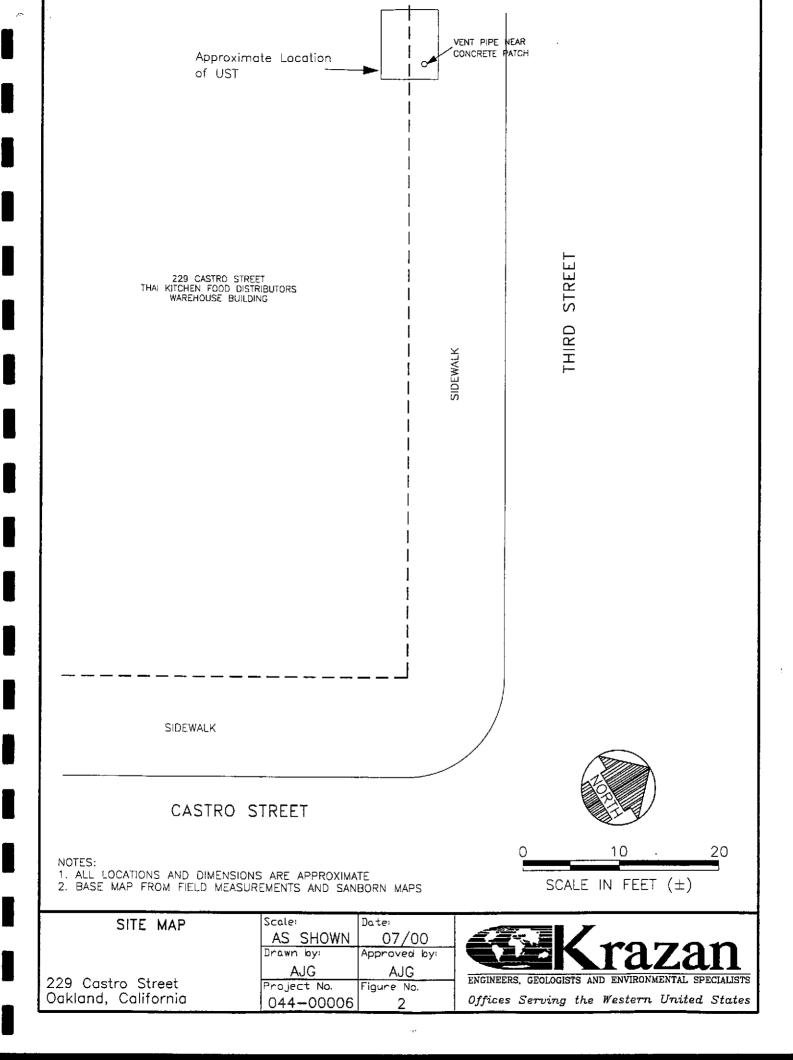
A deposit, payable to "Treasurer of Alameda County" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

# 22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;
- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Detailed description of sampling methods; i.e. backhoe bucket, drive sampler, bailer, bottle(s), sleeves
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Documentation of the disposal of/and volume and final destination of all non-manifested contaminated soil disposed offsite.



# DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predesignate another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE	INFORMATION:

SITE INFORMATION:
Site ID Number (if known)
DAKLAND TELE. ACCESS CENTER  Name of Site
720 SECOND ST Street Address
OAKLAND CA 94607 City, State & Zip Code
I designate the following person or business to receive any refund due at the completion of all deposit/refund projects: MA_MORTENSOU Name
Fignature of Payor 9/18/00 Date
Name of Payor  (PLEACE PRIME CLEARY)  Company Name of Payor

# **RETURN FORM TO:**

County of Alameda, Environmental Protection 1131 Harbor Bay Parkway, Rm 250 Alameda CA 94502-6577 Phone#(510) 567-6700

# UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS	WATER ANALYSIS
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA
	Optional TEL DHS-LUFT EDB DHS-AB1803	TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D. GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240	TPH G GCFID(5030) TPH D GCFID(3510 O & G 5520 C & F BTX&E 602, 624 or
	CL HC 8010 or 8240	8260 CL HC 601 or 624
	ICAP or AA TO DETECT MET METHOD 8270 FOR SOIL OR 'PCB* PCP* PNA CREOSOTE	ALS: Cd, Cr, Pb, Zn, Ni WATER TO DETECT: PCB PCP PNA CREOSOTE

<sup>\*</sup> If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

# EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

- OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
- For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
- 3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
- 4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
- 5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
- 6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
- 7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
- 8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
- 9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	SOIL PPM	WATER PPB
TPH G	1.0	50.0
TPH D	1.0	50.0
BTXSE	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE		MODIFIED PROTOCOL
<pre>≤ 10 ppm ≤ 5 ppm ≤ 1 ppm</pre>	(19%)	<pre>≤ 10 ppm (10%) ≤ 5 ppm (21%) ≤ 1 ppm (60%)</pre>

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- 10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- 11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

#### **EPILOGUE**

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

Regional Board Staff Recommendations Preliminary Site Investigation

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

# Unified Program Consolidated Form

Section Codes

TANKS

429

# **UNDERGROUND STORAGE TANKS - FACILITY**

(one page per site)

				1077	e page per anc)
TYPE OF ACTION 1. NEV	N SITE PERMIT 3. RE	NEWAL PERMIT	☐ 5. CHANGE OF INFORMATION (Specify cha	nge - Z. PERMANENTLY CLOSED SITE	Pageol
(Check one item only)	☐ 4. A&	IENDED PERMIT	local use only)	— ☐ 8, TANK REMOVED	400
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		, iFAGIN	so sineplicolarions		
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	1 1	$\rho$			
111. H. YI	Portenson	<u> </u>			
NEAREST CROSS STREET	· · · · · ·	401	FACILITY OWNER TYPE	☐ 4. LOCAL AGENCY/DISTRICT*	
3ra St	reet		1. CORPORATION	☐ 5. COUNTY AGENCY*	
BUSINESS 1. GAS STATION	I □ 3. FARM	☐ 5. COMMERCIAL	□ 2. INDIVIDUAL	☐ 6. STATE AGENCY*	
TYPE 2. DISTRIBUTOR	R 4. PROCESSOR	☐ 6. OTHER 403	☐ 3. PARTNERSHIP	7. FEDERAL AGENCY*	402
TOTAL NUMBER OF TANKS	Is facility on Indian	Reservation or "If own	er of UST a public agency; a name of superivisor	of	
REMAINING AT SITE	trustlands?	division	, section or office which operates the UST. the contact person for the tank records.)		406
•	404 ☐ Yes ⑤	No 405	The contact poisson to the family seconds.)		
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(Y). $F$		nson	Company	206-748-	18 3 / 416
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	4	Call (016)	222-0660 if questions arise		421
TY (TK) HQ 4	4   -	Oali (916)	322-9669 if questions arise		Harring Mark Class
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INDICATE METHOD(S)	1. SELF INSURED	☐ 4. SURETY BOND	☐ 7. STATE FUND	☐ 10. LOCAL GOV'T MECHANISM	THE PERSON NAMED IN COLUMN
	J2. GUARANTEE	5. LETTER OF CRE			_
	3. INSURANCE	☐ 6. EXEMPTION	7. STATE FUND & CD		422
		Vice Set Indiane	CATION AND MAILING ADDRESS		
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TIAN	CALL	·	426 TITLE OF APPLICANT /	Manager	
				7	

STATE UST FACILITY NUMBER (For local use only)

428 1998 UPGRADE CERTIFICATE NUMBER (For local use only)

## Unified Program Consolidated Form

**TANKS** 

# **UNDERGROUND STORAGE TANKS - TANK PAGE 1**

(two pages per tank)

								Page	af
TYPE OF ACTION	☐ 1. NE	W SITE PERMIT	☐4. AMENDED	PERMIT	5. CHANG	E OF INFORMATION	☐ 6. TEMP	ORARY SITE GLOSUI	RE
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LOCATION WITHIN GITE (Opposi	107		-	J					
AND SOURCE DOWN	45.0			I. TANK DESCR	IPTION :		and and and		
TANK ID #		L	TANK MANUFACTURER			433 COMPARTMENT		☐ Yes 🗷 No	434
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DATE INSTALLED (YEAR/MO)		435	TANK CAPACITY IN GALLO	NS	<u>'</u>	436 NUMBER OF CO	OMPARTMENTS		437
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(If marked, complete Petro	deum	☐ 16. P	REMIUM UNLEADED	□ 3.0	iesel	☐ 6. AVIAT	ION FUEL		
Type) ☐ 2. NON-FUEL PETROLEUM		☐ 1c. M	IDGRADE UNLEADED	☐ 4. G	ASOHOL	🔲 99. ОТН	ER		
3. CHEMICAL PRODUCT		COMMO	N NAME (from Hazardous M	aterials Inventory pag	e) 441	CAS # (from Hazardous M	laterials inventory page	,	442
4. HAZARDOUS WASTE (In Used Oil)	cludes								
95. UNKNOWN									
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TYPE OF TANK		1. SINGLE WALL	Паз	SINGLE WALL WITH		☐ 5. SINGLE V	VALL WITH INTERNAL	BLADDER SYSTEM	443
(Check one item only)		2. DOUBLE WALL		XTERIOR MEMBRA	NE LINER	<b>≥</b> 95. UNKNO\			
			□ 4.5	SINGLE WALL IN A V	AULT	99. OTHER			
TANK MATERIAL - primary tank	Ø	1. BARE STEEL	3. FIBERGLA	SS / PLASTIC	☐ 5. CON	NCRETE	95	. UNKNOWN	444
(Check one item only)		2. STAINLESS STI		AD W/FIBERGLASS	□ 8. FRP	COMPATIBLE W/100% ME	THANOL 🗆 99	. OTHER	
				ED PLASTIC (FRP)			· · · · · · · · · · · · · · · · · · ·		
TANK MATERIAL - secondary ta (Check one item only)	ınk 📙	1. BARE STEEL 2. STAINLESS STI	3. FIBERGLA	SS / PLASTIC AD W/FIBERGLASS		OMPATIBLE W/100% ME NON-CORRODIBLE JACK		. UNKNOWN . OTHER	445
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TANK INTERIOR LINING OR COATING							440	DATE INSTACLED	, 447
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SPILL AND OVERFILL		YE	EAR INSTALLED 450 T	PE (For local use or	<i>lly)</i> 451 OVEF	FILL PROTECTION EQUIP	MENT: YEAR INSTALI	.ED	452
(Check all that apply)		ILL CONTAINMENT	·	<del>-</del> -	_	ARM	3. FILL TUBE SHUT C	FF VALVE	_
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# Unified PROGRAM CONSOLIDATED FORM

# **UNDERGROUND STORAGE TANKS - TANK PAGE 2**

TANKS

		Page of
<b>5</b>	AND PIPING CONSTRUCTION OF THE PROPERTY OF THE	TION (Check all that apply)
Management of the sale and the company of the sale	UNDERGROUND PIPING	ABOVEGROUND PIPING
	D	R □1 PRESSURE □2 SUCTION □3.GRAVITY. 459
SYTEM TYPE	☐ 1. PRESSURE	8 ☐ 1. PRESSURE ☐ 2. SUCTION ☐ 3.GRAVITY. 459
CONSTRUCTION	☐ 1. SINGLE WALL ☐ 3. LINED TRENCH ☐ 99. OTHER 46	0 🔲 1. SINGLE WALL 🔲 95. UNKNOWN 462
MANUFACTURER	2. DOUBLE WALL \$\infty\$5. UNKNOWN	2. DOUBLE WALL 99. OTHER
	MANUFACTURER 46	1 MANUFACTURER 463
MATERIALS	☐ 1. BARE STEEL ☐ 6. FRP COMPATIBLE W/100% METHANOL	☐ 1. BARE STEEL ☐ 6. FRP COMPATIBLE W/100% METHANOL
AND CORROSION	☐ 2. STAINLESS STEEL ☐ 7. GALVANIZED STEEL	☐ 2. STAINLESS STEEL ☐ 7. GALVANIZED STEEL
PROTECTION	☐ 3. PLASTIC COMPATIBLE WITH CONTENTS 🔀 95. UNKNOWN	☐ 3. PLASTIC COMPATIBLE WITH CONTENTS ☐ 8. FLEXIBLE (HDPE)
	4. FIBERGLASS 8. FLEXIBLE (HDPE) 99. OTHER	☐ 4. FIBERGLASS ☐ 9. CATHODIC PROTECTION ☐ 99. OTHER
	☐ 5. STEEL W/COATING ☐ 9, CATHODIC PROTECTION 48	4 5. STEEL W/COATING 95. UNKNOWN 465
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State to be desired in the company of the control o	UNDERGAOUND PIPING	ABOVEGROUND PIPING
	SINGLE WALL PIPING 45	
	NG (Check all that apply):	PRESSURIZED PIPING (Check all that apply):
	LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR	1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHUT OFF FOR
LEAK, SYSTE	M FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL	LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS
2. MONTHLY 0.2	GPH TEST	ALAHMS  2. MONTHLY 0.2 GPH TEST
	GRITY TEST (0.1 GPH)	3. ANNUAL INTEGRITY TEST (0.1 GPH)
	- • - •	4. DAILY VISUAL CHECK
CONVENTIONAL SU	CTION SYSTEMS:	CONVENTIONAL SUCTION SYSTEMS (Check all that apply):
	MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY	5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM
TEST (0.1 GP)		6. TRIENNIAL INTEGRITY TEST (0.1 GPH)
		SAFE SUCTION SYTEMS (NO VALVES IN BELOW GROUND PIPING):
I	TEMS (NO VALVES IN BELOW GROUND PIPING):	7. SELF MONITORING
7. SELF MONITO	FING	GRAVITY FLOW (Check all that apply):
GRAVITY FLOW:	•	B. DAILY VISUAL MONITORING
l	EGRITY TEST (0.1 GPH)	9. BIENNIAL INTEGRITY TEST (0.1 GPH)
	,	
	SECONDARILY CONTAINED PIPING	SECONDARILY CONTAINED PIPING
	NG (Check all that apply):	PRESSURIZED PIPING (Check all that apply):
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☐ b. AUTO P	PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM	□ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM
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RESTRICTIO	INE LEAK DETECTOR IS A COULTEST WITH GLOW SHITT OFF OR	II I 11 AUTOMATIC LEAK DETECTOR
112311110110	LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITH</u> FLOW SHUT OFF OR N	11. AUTOMATIC LEAK DETECTOR  12. ANNUAL INTEGRITY TEST (0.1 GPH)
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12. ANNUAL INTE SUCTION/GRAVITY S  13. CONTINUOU  14. CONTINUOU  VISUAL ALAF  15. AUTOMATIC RESTRICTIO  16. ANNUAL INTE  17. DAILY VISUA	N EGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND MAS INS LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N EGRITY TEST (0.1 GPH) L CHECK  WILL DISPENSI	☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: ☐ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) ☐ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS ☐ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) ☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH) ☐ 17. DAILY VISUAL CHECK
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12. ANNUAL INTE SUCTION/GRAVITY 13. CONTINUOU 14. CONTINUOU VISUAL ALAF 15. AUTOMATIC RESTRICTIO 16. ANNUAL INTE 17. DAILY VISUA DISPENSER CONTAI DATE INSTALLED	N EGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND RMS LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N LEGRITY TEST (0.1 GPH) L CHECK  VIII. DISPENSIONMENT  1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE 488 2. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OF	□ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: □ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) □ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS □ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) □ 16. ANNUAL INTEGRITY TEST (0.1 GPH) □ 17. DAILY VISUAL CHECK  ER CONTAINMENT □ 4. DAILY VISUAL CHECK □ 5. TRENCH LINER / MONITORING
12. ANNUAL INTESUCTION/GRAVITY SUCTION/GRAVITY 13. CONTINUOUS VISUAL ALAF 15. AUTOMATIC RESTRICTIO 16. ANNUAL INTESTRICTIO 17. DAILY VISUA DISPENSER CONTAINED ATE INSTALLED 1 certify that the Informatic Informatic Installed 1 certify that the Informatic Installed 1 certification Installed	NEGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND RMS LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N SEGRITY TEST (0.1 GPH) L CHECK  VIII. DISPENSION  1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE 468 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS AND SENSOR WITH AUTO SHUT OF COMMER. COP	□ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: □ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) □ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS □ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) □ 16. ANNUAL INTEGRITY TEST (0.1 GPH) □ 17. DAILY VISUAL CHECK  EF CONTAINMENT: □ 4. DAILY VISUAL CHECK □ 5. TRENCH LINER / MONITORING FF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS □ 6. NONE 465  EFATOR SIGNATURE
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12. ANNUAL INTESUCTION/GRAVITY SUCTION/GRAVITY 13. CONTINUOUS 13. CONTINUOUS VISUAL ALAF 15. AUTOMATIC RESTRICTION 16. ANNUAL INTESTRICTION 17. DAILY VISUAL DISPENSER CONTAIN DATE INSTALLED 1 certify that the Informal SIGNATURE OF ONE SUCTION OF THE SUCTION OF	NEGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND RIMS  LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N EGRITY TEST (0.1 GPH) L CHECK  WITH DISPENSE  INMENT	□ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: □ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) □ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS □ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) □ 16. ANNUAL INTEGRITY TEST (0.1 GPH) □ 17. DAILY VISUAL CHECK  EL CONTAINMENT: □ 4. DAILY VISUAL CHECK □ 5. TRENCH LINER / MONITORING □ F FOR DISPENSER + AUDIBLE AND VISUAL ALARMS □ 6. NONE 465  ELATOR SIGNATURE
12. ANNUAL INTESUCTION/GRAVITY SUCTION/GRAVITY 13. CONTINUOUS VISUAL ALAF 15. AUTOMATIC RESTRICTIO 16. ANNUAL INTESTRICTIO 17. DAILY VISUA DISPENSER CONTAINED ATE INSTALLED 1 certify that the Informatic Informatic Installed 1 certify that the Informatic Installed 1 certification Installed	NEGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND MASS LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N EGRITY TEST (0.1 GPH) L CHECK  VIII DISPENSION  INMENT 1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE 468 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAND A	□ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: □ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) □ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS □ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) □ 16. ANNUAL INTEGRITY TEST (0.1 GPH) □ 17. DAILY VISUAL CHECK  EL CONTAINMENT: □ 4. DAILY VISUAL CHECK □ 5. TRENCH LINER / MONITORING □ F FOR DISPENSER + AUDIBLE AND VISUAL ALARMS □ 6. NONE 465  ELATOR SIGNATURE
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12. ANNUAL INTESUCTION/GRAVITY SUCTION/GRAVITY 13. CONTINUOUS 13. CONTINUOUS VISUAL ALAF 15. AUTOMATIC RESTRICTION 16. ANNUAL INTESTRICTION 17. DAILY VISUAL DISPENSER CONTAIN DATE INSTALLED 1 certify that the Informal SIGNATURE OF ONE SUCTION OF THE SUCTION OF	NEGRITY TEST (0.1GPH) SYSTEM: S SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) S SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND MAS LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW SHUT OFF OR N EGRITY TEST (0.1 GPH) L CHECK  WILL DISPENSION L CHECK  WILL DISPENSION INMENT	□ 12. ANNUAL INTEGRITY TEST (0.1 GPH) SUCTION / GRAVITY SYSTEM: □ 13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS  EMERGENCY GENERATORS ONLY (Check all that apply) □ 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF + AUDIBLE AND VISUAL ALARMS □ 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) □ 16. ANNUAL INTEGRITY TEST (0.1 GPH) □ 17. DAILY VISUAL CHECK  EL CONTAINMENT: □ 4. DAILY VISUAL CHECK □ 5. TRENCH LINER / MONITORING □ F FOR DISPENSER + AUDIBLE AND VISUAL ALARMS □ 6. NONE 469  ELATOR SIGNATURE

# HEALTH & SAFETY PLAN UNDERGROUND STORAGE TANK REMOVAL 229 CASTRO STREET OAKLAND, CALIFORNIA

Project No. 044-00006 September 8, 2000

Prepared for: M.A. Mortenson Company 700 Meadow Lane North Minneapolis, MN 55422

Prepared by: Krazan and Associates, Inc. 545 Parrott Street San Jose, California 95112 (408) 271-2200

## TABLE OF CONTENTS Project No. 044-00006

		Page
1.0	INTRODUCTION	1
1.1		
1.2	Key Personnel & Responsibilities	
2.0	HAZARD EVALUATION	3
2.1	Soil Excavation	
2.2		
2.3	Noise	
2.4		
2.5		
2.6	own pring for Orientees I that job assessment the contract of	6
3.0	SAFE WORK PRACTICES AND LEVEL OF PERSONAL PROTECTION	6
3.1	Potential Health Hazards	7
3.2	Potential Heat Stress Hazards	7
3.3		8
4.0	HYDROCARBON VAPOR HAZARD CRITERIA	
TA	BLE 1	
5.0	PERSONAL PROTECTIVE CLOTHING/EQUIPMENT REQUIREMENTS	10
5.1		
5.2	L	
5.3	9-9	
5.4		12
	BLE 2	
6.0	WORK ZONE ACCESS	
7.0	DECONTAMINATION PROCEDURES	
7.1	** ****	
7.2		
7.3	=	
8.0	SAFETY AND HEALTH TRAINING	
9.0	MEDICAL MONITORING PROGRAM	
10.0	EMERGENCY RESPONSE PLAN	
10.1		
10.2	· ·····	
10.3		18
11.0	RECORD KEEPING REQUIREMENT	
12.0	SITE SECURITY	19



# ENVIRONMENTAL ENGINEERING • GEOTECHNICAL ENGINEERING CONSTRUCTION TESTING & INSPECTION

September 8, 2000

Project No.044-00006

# HEALTH & SAFETY PLAN UNDERGROUND STORAGE TANK REMOVAL 229 CASTRO STREET OAKLAND, CALIFORNIA

#### 1.0 INTRODUCTION

This plan describes the health and safety procedures for the activities planned for the removal of a gasoline underground storage tank (UST) at the subject site. Krazan & Associates, Inc. (Krazan) employees and field personnel will abide by this plan. It is intended that project work will comply with applicable codes and regulations of the United States Occupational Safety and Health Administration (OSHA). Each field team member working on this project will have the general responsibility to identify and correct any health and safety hazards and strive to make the work place safe.

#### 1.1 Project Description

This project will consist of the removal of a small (500± gallon) UST located within the sidewalk adjacent to 229 Castro Street in Oakland, California. The scope of the project will include exposing the UST and removal by a licensed contractor. Potential activities could include the excavation of contaminated soil and extraction of contaminated groundwater. Sample labeling, preparation, shipment and analyses will also be conducted.

#### 1.2 Key Personnel & Responsibilities

The following personnel will have the overall responsibility for the safe operation of this investigation:

Project Directors:

Corporate Safety Officer:

Task Leader:

On-site Safety Task Leader:

Dean Alexander

Dean Alexander

Alex Gallego

Alex Gallego

Project No. 044-00006 Page No. 2

It is the responsibility of the above-designated safety officers and task leaders to:

- Implement the site safety training program for project field team members as described in this document.
- Insure that field personnel meet or exceed the minimum requirements for health and safety training, medical monitoring, and respiratory fit testing as required by OSHA 29 CFR 1910.120.
- Assure that field personnel have read and understand this Health and Safety Plan.
- Establish effective traffic and pedestrian control around the subject site.
- Insure that adequate site security is maintained.
- Perform work place surveillance for flammable/explosive conditions and insure that a
  portable fire extinguisher is located on-site.
- Observe activities to insure the proper use of personal protective equipment such as hard hats, protective eyewear, coveralls (Tyvek® etc.), respirators, gloves, steel-toe boots, etc.
- Inspect safety equipment for use by field personnel to insure that it has been maintained and is in a useable condition.
- Shut down or modify field work activity based on the criteria presented in Section 11.0 of this Plan.
- Initiate outside emergency phone calls when an emergency or accident requires medical attention.

#### Field personnel will have a responsibility to:

- Read, understand, and follow this plan.
- Perform work safety.
- Cooperate with safety personnel.
- Report any unsafe conditions to the immediate supervisor.
- Be aware and alert for signs and symptoms of potential exposure to site contaminants and health concerns.
- Attend the site safety training program/meeting.
- Insure drilling equipment and other machines are properly inspected and maintained and in compliance with applicable sections of the California and United States Occupational Health and Safety Codes.
- Maintain safety related protective equipment such as hard hats, Tyvek® coveralls (or equivalent), gloves, safety eyewear, respirators, etc., as specified in this plan.

KRAZAN & ASSOCIATES, INC.

#### 2.0 HAZARD EVALUATION

This Health and Safety Plan (H&S Plan) addresses specific on-site work activities related to the collecting of samples and data from the project site.

Based on the historical and technical data available, this plan covers anticipated activities and hazards, and makes provision for modification or amendment as health-related data is obtained during this assessment. This plan will be amended with site-specific hazards identified as posing a potential health hazard for workers. For select sites, the Corporate Safety Officer will conduct a preliminary survey involving air and bulk solid sample analysis and amend the H&S Plan as needed.

As analytical data become available, the information will be evaluated by a Health and Safety Task Leader. Appropriate action in the form of Work/Health and Safety Plan modifications will be initiated by the Corporate Safety Officer or the Health and Safety Task Leader.

The anticipated activities of this investigation will include:

- Exposure of the UST with an excavator or backhoe.
- Removal of residual contents of the UST by a licensed hazardous waste transporter.
- Rinsing the interior of the UST with a pressure washer and removal of the rinsate.
- The UST will rendered inert using dry ice.
- Removal of the UST by a licensed hazardous waste transporter.
- Collection of soil and groundwater samples from the excavation.
- Securing the excavation area with temporary fencing and trench plates.

The general categories of hazards associated with this investigation are:

- Mechanical hazards: cuts, contusions, slips, trips, falls, being struck by moving objects, being caught by rotating objects; also muscular injury potential caused by overexertion or improper movement (e.g. back injury due to improper lifting).
- Electrical hazards: possible excavation of buried cables, exposure to overhead power lines, wet electrical cords.
- Chemical hazards: exposure to chemicals/contaminants listed in Section 4.0 of this plan and exposure to extraction solvents.

- Fire hazards: possible excavation of buried utilities, equipment fires, flammable petroleum hydrocarbons.
- Thermal (heat stress) hazards: exposure to outside temperature extremes and/or increased body temperatures while wearing protective clothing/equipment.
- Acoustical hazards: exposure to excessive noise created by excavation operations and/or related to the site-specific operations.
- Routine job-related hazards in the subcontractor's laboratory. Neither these hazards nor any activities conducted in the subcontractor's laboratory are covered by this plan.

Job hazard analyses associated with most major work activities are presented in the following sections.

#### 2.1 Excavation

Excavation activities by an excavator or backhoe will potentially expose field personnel to the following hazards:

#### Chemical hazards:

Exposure to various chemical substances, including but not limited to petroleum
hydrocarbon residue and vapors, and petroleum contaminated soils, sludge or liquids.
Certain precautions may be necessary to properly control the potential fire/explosion/
health hazards associated with these chemicals.

#### Physical hazards:

Potential exposure to physical hazards associated with the UST removal include the following:

- Brush, equipment, gas-main, or hydrocarbon fires
- Being hit by equipment
- Falling objects
- Exposure to excessive noise
- Exposure to outside temperature extremes
- Exposure to the potential for heat exhaustion due to protective clothing
- Slips, trips, and falls
- Buried cables and underground utilities
- Overhead utility hazards
- Injury due to using improper tool for the job

#### 2.2 Heat Stress/Stroke

During day-to-day field work, the on-site engineer/geologist and/or safety officer will be alert for the signs and symptoms of heat stress. Hazard exists when individuals are required to work in warm or hot temperatures while wearing protective clothing. When the ambient air temperature exceeds 85°F, heat stress may become a problem. For an unacclimatized person this temperature may be less. If these conditions are encountered, the following precautions will be taken:

- The on-site geologist/engineer or safety officer will regularly monitor the ambient air temperature.
- Field team members will be observed for the following signs and symptoms of heat stress (i.e. heat exhaustion/heat stroke):

#### **Heat Exhaustion**

- Profuse sweating
- Skin color change
- Increased heart rate
- Vision problems
- Heat cramps

Any team member who exhibits any signs or symptoms of heat exhaustion will be removed immediately from field work, be requested to remove impervious clothing, and consume electrolyte fluid or cool water while resting in a shaded area. The individual will be instructed to rest until the symptoms are no longer recognizable. If the symptoms appear critical, persist or get worse, immediate medical attention will be sought.

#### **Heat Stroke**

- Hot, dry, unusually red skin
- Delirium
- Elevated temperature of 103-105°F
- Convulsions

Any team member who exhibits any signs or symptoms of heat stroke will be removed immediately from field work, be requested to remove impervious clothing, be immersed in cool water and immediate medical attention will be sought.

#### 2.3 Noise

While working around excavation drilling equipment the potential exists for exposure to excessive noise. If noise levels are known/believed to exceed 85 dBA 8-hours per day, individuals will be instructed to use adequate hearing protectors (ear plugs). Random monitoring using a noise dosimeter may be used to document noise levels. Field team members will be given annual evaluations. Field team members have been/will be trained in noise hazards and how to wear the protective equipment.

#### 2.4 Sampling for Chemical Analysis

Samples will be collected for the purpose of chemical analysis. Additionally, selected samples may be submitted for chemical analysis. Some of these samples may contain high levels of hazardous materials creating the potential for chemical inhalation exposure, skin contact and possibly even ingestion. These activities may pose one of the greatest risks of chemical exposure for the site assessment activities. Appropriate worker training, protective measures and annual medical monitoring will be enforced to control this health hazard potential.

#### 2.5 Packaging and Shipment of Samples

After the samples have been collected into sample containers, they will be properly packaged to protect shipping personnel. The hazards associated with shipping samples are minimal, provided care is taken to prevent the containers from leaking or breaking. Additionally, sample containers will be plainly marked in case of exposure.

#### 2.6 Sampling for Chemical Analysis

The preparation of samples for analysis may expose the technician to routine hazards associated with laboratory work. Standard laboratory safety procedures should be used to prepare and analyze these samples. The samples should be treated carefully and handled inside a properly operating fume hood due to their potentially volatile and hazardous nature. In the event of a mishap, the laboratory supervisor should be notified immediately.

#### 3.0 SAFE WORK PRACTICES AND LEVEL OF PERSONAL PROTECTION

The following sections present procedures on how to adequately address the primary potential hazards encountered in the different task of this project. The standard level of personal protection is also defined.

Based on the work to be performed and the type of chemical hazards that may be encountered, EPA Level D personal protection has been determined to be adequately protective and suitable for most of the tasks in this project. It is unlikely that certain tasks may require a higher level of protection, such as airpurifying or air-supplied respirators. These determinations will be made by the Safety Officer or Safety Task Leader and will be specified as amendments to this section of the plan.

Project No. 044-00006 Page No. 7

#### 3.1 Potential Health Hazards

Depending on the conditions encountered, the Task Leader in coordination with the Project Safety Officer may increase or decrease the level of personal protection required of all field team members. Such decisions will be made based on initial and periodic measurements of breathing zone concentrations of petroleum constituents by PID and on other data collected as work is conducted on a given site.

Generally speaking, EPA Level D Personal Protection will be in accordance with the following guidelines:

- Krazan & Associates technician uniform
- Hard hat
- Safety glasses
- Ear plugs (as required)
- Steel-toe boots.

Some general guidelines representing EPA Level C personal protection that may be used are:

- Tyvek® coveralls (or equivalent), neoprene boots and rubber gloves (to be worn by any personnel who handle contaminated equipment.
- Individuals at sites not directly exposed to contaminated soils or liquids may not need to wear Tyvek® coveralls due to the increased hazards of heat stress when wearing this type of clothing.
- Latex or PVC disposable gloves should be worn under butyl rubber or nitrile gloves to
  provide an extra measure of hand protection when handling heavily contaminated soils
  and water samples.
- Chemical splash goggles will be worn when increased splash hazards exist, such as steam cleaning activities, during or the handling of contaminated liquid samples.
- Respiratory protection will be worn during drilling activities which have the potential to expose workers to hazardous levels of airborne contaminants. Direct-reading personal breathing zone monitoring will be performed. The criteria established for the use of respiratory protection are discussed in Section 4.0. of this Plan.

#### 3.2 Potential Heat Stress Hazards

During conditions when the temperature, humidity, and/or radiant heat are high and air movement is low, the following procedures will be followed to prevent heat stress hazards for workers wearing protective clothing/equipment:

- Work activity will be limited to reduce the amount of heat naturally produced by the body. Alternating work and rest periods will be used in high potential conditions. For example, in moderately hot conditions, 5 minute rest breaks in the shade with 60 minute work periods in the sun may be desirable. Under severe conditions, the duration of rest periods will be increased as necessary.
- Heavy work will be performed during the cooler periods of the day when feasible.
- Under heat stress conditions special attention will be given toward assuring workers
  replace lost body fluids. Adequate supplies of cool drinking water or electrolyte solution
  will be provided by each company for their own employees' use. Workers will be
  instructed in the need to replace the fluids throughout the working day.
- Special care and attention will be paid to field crew members that may not be acclimatized to the area.

#### 3.3 Potential Noise Hazards

Exposure to excessive noise will be controlled by issuance and use of hearing protection as instructed by the Task Leader or Safety Officer. Noise levels may be periodically monitored by the Safety Officer.

#### 4.0 HYDROCARBON VAPOR HAZARD CRITERIA

Exposure to elevated levels of hydrocarbon vapors presents potential health risks that must be addressed. Work practices and methods will be used to limit exposures. Where elevated exposures persist, respiratory protection will be used to protect personnel from inhalation of hydrocarbon vapors. The hydrocarbon vapors expected to be encountered during the field portion of this investigation are composed of a variety of volatile refined petroleum constituents. Most of these chemicals have limited toxicity thus requiring minimal controls at the concentrations that are anticipated to be encountered. There are certain components, such as benzene vapors, that present significant toxicological hazards and must be properly controlled. Water, soil, and vapor samples collected near the point of release commonly contain benzene at 1% of the total hydrocarbon constituents. Criteria for the use of respiratory protection is based on limiting potential exposures to benzene.

A limit of 100 ppmv total hydrocarbon is proposed as the maximum acceptable hydrocarbon level of exposure without respiratory protection. An H-nu® photoionization detector (PID) will be used to measure total hydrocarbon levels of the sample. When levels of the sample are above 50 ppm, breathing zone concentrations will be monitored and documented every 15 minutes. When a persistent level of 50 ppmv is noted to exist at the breathing zone, an appropriate respirator will be donned by that field team member. In a typical situation, with 1% of the hydrocarbon vapors being benzene, a 50 ppmv

concentration of total hydrocarbon would result in a breathing zone level of 0.5 ppmv benzene. This level is half of the current Permissible Exposure Limit (PEL) of 1 ppm for an 8-hour occupational exposure to benzene.

When possible, to assure benzene exposures are below a 1 ppmv limit, Dräger® benzene detector tubes will be used if PID measurements of the breathing zone concentrations indicated persistent hydrocarbon levels above 50 ppmv. These detector tubes are not compound specific and may respond to other less hazardous petroleum hydrocarbons such as toluene, xylene and ethylbenzene. In the event that benzene detector tube measurements indicate that levels exceed 0.5 ppmv in the breathing zone; respirators will be required. This is considered a conservative approach since the Dräger® detector tubes may respond to several hydrocarbons other than benzene.

Table I summarizes the various hydrocarbon vapor concentration and appropriate responses to prevent exposure to these potential vapor hazards.

TABLE 1
HYDROCARBON VAPOR CRITERIA AND RESPONSES

HYDROCARBON CONCENTRATIONS	RESPONSE
<50 ppmv TVH	Limited hazard, no special action.
50-100 ppmv TVH General Work Areas	Half-mask OV Respirators worn by all potential exposed in work area.
50-1400 ppmv TVH General Work Areas	Half-mask OV Respirators worn by all potentially exposed in work area. Benzene detector tube measurements taken each 15 minutes until levels below 1 ppm.
>1400 ppmv TVH General Work Areas and/to well head emissions	Work stops; procedures taken to subdue excessive vapor levels.
>1 ppmv Benzene at Breathing zone	Half-mask OV Respirators worn by all potentially exposed in work area. Benzene detector tube measurements taken each 15 minutes until levels below 1 ppm.

ppmv = parts per million vapor

TVH = Total Volatile Hydrocarbons

OV = Organic Vapor

#### 5.0 PERSONAL PROTECTIVE CLOTHING/EQUIPMENT REQUIREMENTS

This section specifies personal protective clothing/equipment required for the various tasks to be performed during this investigation. Table 2 summarizes these requirements.

#### 5.1 Excavation Operations

- Respiratory Protection: Field personnel will be required to have available for use a properly fit tested half-mask air purifying respirator with organic vapor cartridges and particulate pre-filters. These will be required to be worn based on the criteria listed in Section 4.0.
- Protective Clothing: Field personnel who handle contaminated soils, liquid, or auger flights will wear semi-permeable (white) Tyvek® coveralls (or equivalent) during Level C activities. Safety helmets (hard hats) will be worn by personnel during field work.
- Hand Protection: Butyl rubber or nitrile gloves will be worn by personnel handling
  contaminated equipment and soils as necessary. Wearing disposable latex or PVC
  gloves under the butyl gloves will provide added protection and aid in a more effective
  decontamination process.
- Hearing Protection: Based on anticipated on-site noise measurements, field personnel
  may be required by the Task Safety Leader of Safety Officer to wear hearing protection
  devices (ear plugs) during excavation operations.
- Eye Protection: Each field team member will wear a minimum of impact-resistant safety glasses with attached side shield. Where splashes of potentially hazardous liquid or flying particles are likely, chemical safety goggles will be required in place of safety glasses.
- Foot Protection: Field personnel will wear leather neoprene rubber boots (as needed) with steel toes and shanks. Under non-liquid exposure conditions, leather boots with steel toes and shanks are permissible. The boots will be taped to the leg of Tyvek® suits during Level C activities.

At the discretion of the on-site Safety Task Leader, rubber gloves, Tyvek® coveralls and neoprene boots may not be required if soil or water is not obviously contaminated, or if PID measurements of the confirmation soil samples are below 500 ppmv.

#### 5.2 Sample Collection

Personnel who may be exposed to contaminated samples and/or liquid splashes will be required to wear the following equipment:

- Respiratory Protection: Sampling personnel will be required to have available for use a properly fit tested half-mask air purifying respirator with organic vapor cartridges with particulate pre-filters. Respirators will be worn based on criteria listed in Section 4.0 of this Plan.
- Body Protection: Sampling personnel will wear semi-permeable (white) Tyvek® coveralls when contact with contaminated soil or liquids is likely to occur. Safety helmets (hard hats) will be worn when overhead hazards exist.
- Hand Protection: Butyl rubber or nitrile gloves will be worn over disposal latex or PVC gloves as needed.
- Eye Protection: Impact-resistant safety glasses with attached side shields must be worn during sampling activities. Where splashes may occur, chemical goggles must be worn.
- Foot Protection: Leather work boots or neoprene rubber boots with steel toes and shanks will be worn, as needed.

#### 5.3 Packaging and Shipment of Samples

- Eye Protection: Impact-resistant safety glasses with attached side shields must be worn while packaging samples for shipment, as needed.
- Hand Protection: Butyl rubber or nitrile gloves will be worn under disposal PVC gloves, as needed.

Samples will be shipped strictly to a state-approved laboratory. Shipping must comply with Department of Transportation (DOT) regulations. The following instructions will be followed to comply with DOT regulations:

- Tape lids with electrical or other tape
- Wrap the primary container with absorbent brown paper (wading)
- Place the primary container in a plastic bags (zip-lock, or equivalent)
- Place into an "ice chest" with a synthetic or water ice
- Tape or secure the "ice chest" lid and secure with a Chain-of-Custody seal (if applicable)
- Labels identifying the generator's name, address, and known content of the drum

In the event that samples are to be personally transported to the state-approved laboratory, some of the above packaging and shipping requirements may not apply. Any questions should be referred to the project manager.

#### 5.4 Sample Preparation and Analysis

Laboratory safety practices should be accomplished in accordance with the specific labs policy. Krazan, its owners, clients, employees, and representatives are not responsible for safety on laboratory premises. Therefore, both shall be held harmless in the event of any mishap, accident or long-term adverse health effects occurring or originating at the subcontractor laboratory.

# TABLE 2 PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS EXCAVATION OPERATIONS

**Excavation Crew** 

MANDATORY ITEMS

Safety Glasses

Chemically Resistant Gloves\*

Safety Boots\*

Safety Helmet

AVAILABLE ITEMS

Respirator

Splash Goggles Ear Plugs

Ear Plugs

Tyvek® Coveralls\*

#### Geologist/Engineers

**MANDATORY ITEMS** 

Safety Boots\*

Safety Glasses

Safety Helmet

**AVAILABLE ITEMS** 

Respirator

Tyvek® Coveralls

Chemically Resistant Gloves

Splash Goggles

Ear Plugs

#### Surveyors/Safety Personnel

MANDATORY ITEMS

Safety Boots\*

Safety Glasses

Safety Helmet

**AVAILABLE ITEMS** 

Respirator

Tyvek® Coveralls

Chemically Resistant Gloves

Splash Goggles

Ear Plugs

#### PACKAGING AND SHIPPING SAMPLES

Sample Controller

MANDATORY ITEMS

Safety Glasses

**AVAILABLE ITEMS** 

Respirator

Chemically Resistant Gloves

Project No. 044-00006 Page No. 13

**SAMPLE PREPARATION AND ANALYSIS** 

Analyst

**MANDATORY ITEMS** 

Safety Glasses

**AVAILABLE ITEMS** 

Respirator

Chemically Resistant Gloves

\* Not required if soil or water is not visibly contaminated, or if PID measurements of the soil samples

are below 100 ppmv.

6.0 WORK ZONE ACCESS

During excavation operations, a work zone should be established and roped off. This zone should

include excavation equipment and its immediate vicinity. Only authorized personnel will be permitted to

enter this work zone. Authorized personnel will include those who have duties requiring their presence

in the work zone, have received appropriate health and safety training, and whose background medical

records may be obtained to verify that the health of that individual is not at extreme risk by his/her

presence.

7.0 DECONTAMINATION PROCEDURES

The scope of work proposes that soil excavation and sampling activities occur at areas where chlorinated

solvents and petroleum hydrocarbon contaminated soils, sludge, liquids and/or vapors are anticipated.

Due to the volatile nature of materials that may be encountered during the initial excavation drilling and

sampling operations, decontamination of equipment and vehicles will be of minimal importance since the

volatile constituents will rapidly vaporize. However, contaminated sampling equipment and any obvious

contaminant accumulations will not leave the project site. Field team members will also abide by the

following guidelines to insure that contaminants will not remain in contact with their body.

• Personnel involved in the field portion of this investigation will be instructed to wash their hands, face, neck and arms at the end of each work day. Krazan will assure the

presence of soap, water and towels at the drilling site for this purpose. Crews will be

instructed to shower at their home or lodge at the end of each workday.

No eating, drinking, smoking, or chewing of gum or tobacco will be permitted in the

work zone.

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• During this investigation, the nature of materials handled and the extent of contamination may require formal decontamination procedures and delineated work/clean zones. At the discretion of the Task Leader, the following work zones and decontamination procedures will be used to minimize the transfer of hazardous substances from the site so as to protect the environment and public health.

#### 7.1 Work Zones

The field team shall prevent the uncontrolled movement of waste materials or hazardous substances from the drilling site. The team will prevent migration of site contaminants by using the following work zones and equipment/personnel decontamination procedures.

Exclusion Zone: A circle around the UST will be defined before removal begins. The zone will be "roped off" with an applicable barricade tape. This designated area will constitute the "Exclusion Zone". This zone is where potentially hazardous surface contaminants, as a result of the activities, and physical hazards to the workers, will be contained. Personal protection equipment will be required in this area according to the discretion of the Task Leader and/or in accordance with the guidelines contained in this plan. The size of the Exclusion Zone may be changed to accommodate site conditions and to ensure contaminant containment at the discretion of the project manager, the safety officer, or the task leader. No personnel will be permitted into the Contamination Reduction Zone or the Exclusion Zone unless they are in full compliance with the existing Safety Plan. The buddy system must be maintained by all personnel while in this zone. Intrinsically safe communications will be maintained with all personnel in this area.

Contamination Reduction Zone: An area surrounding the Exclusion Zone will be defined. All personal decontamination activities will occur in this area. A waste container may be placed in this area so that contaminated disposal equipment can be placed inside and covered. Surface/soil contamination in this area may be controlled by use of some form of plastic sheeting.

Support Zone: A Support Zone, must be defined for each field activity. Support personal and/or equipment are located in this uncontaminated (clean) area. Normal Krazan field uniforms are appropriate within this zone. The location of this zone depends on factors such as accessibility, wind direction, nearby rods, utilities, traffic patterns, shelter.

#### 7.2 Decontamination Protocol

Decontamination of personnel and equipment will be important to ensure that contamination does not spread to others. Personal decontamination mainly involves the removal of some outer wear and good personal hygiene habits. Contamination should never by in contact with the skin. Field team members must follow this plan to ensure that contamination does not remain on equipment, sample containers or their body.

Field team members should remove their personal protective clothing in a certain sequence to avoid contaminating their inner clothing or themselves. When removing personal protective equipment, the following steps should be observed:

- Step 1: Remove equipment, sample containers, and notes and non-essential items while in the Contamination Reduction Zone. Obtain decontamination solutions or a steam cleaner and decontaminate all tools and sampling equipment. Under most circumstances, all wastes and rinsate will be properly contained.
- Step 2: Remove outer gloves and boot covers and place them inside a garbage bag or drum.
- Step 3: Remove tape from boots and gloves and remove the Tyvek® coverall (if used). Tyvek® coverall removal should be accomplished by rolling the outside of the coverall inside itself so that only the inside of it is exposed. Boots, inner gloves, and respirator should still be worn.
- Step 4: Remove the inner gloves and respirator when in the Support Zone.

#### 7.3 Personal Hygiene Requirements

The following procedures should always be observed in the support zone:

- Personnel must wash their hands, face, neck and forearms before consuming any food or liquids, smoking, or using the rest room.
- Personnel must take a shower at the end of each work day. Particular attention should be given to areas of the body that are typically overlooked.

#### 8.0 SAFETY AND HEALTH TRAINING

Field personnel will be trained in methods of safely conducting field activities. This plan is intended to provide additional site specific information to accomplish this goal. It will be the responsibility of the Project Directors, the Safety Officer, and the Safety Task Leader to ensure the field team has access to, reads, and understands this plan. It will be the individual's responsibility to bring to the attention of the Project Director or Safety Officer any portion of this plan and related training they do not fully

understand. Prior to the commencement of the field portion of this investigation, the field team will meet to discuss the contents of this plan and make sure all members understand it.

At the site meeting, field team members will be instructed regarding the health and safety hazards. Especially:

- Physical safety hazards
- Emergency procedures
- Explosive/flammability hazards
- The hazardous materials that may be encountered and their potential routes of exposure
- Personal hygiene practices
- The types, proper use, inspection, limitations, maintenance, and storage of protective clothing and equipment (as applicable).
- In the event that the ambient air temperature exceeds 85°F, a review of heat stress symptom recognition/corrective procedures will be conducted. For an unacclimatized person, this value may be less.

Special emphasis will concern the use and limitations of respiratory protection. Half-mask respirators (or equivalent) equipped with air purifying organic vapor cartridges will be used. Full-face respirators will be used if eye irritation or skin contact exposure potential exists.

Medical/physical fitness requirements to wear respiratory protection will be established by a physician, and individuals will be trained in use limitations and maintenance of half-mask and full-face respirators including qualitative fit testing, routine inspection, replacement of parts, cleaning, disinfection, and storage requirements.

Copies of this entire plan will be provided for each field team member at the project site, or prior to arrival.

#### 9.0 MEDICAL MONITORING PROGRAM

The field investigation at this project site is expected to involve active physical work and potential exposure to petroleum hydrocarbons, and possibly other related hazardous substances. Exposure to heat stress, noise and physical safety hazards may also be encountered. The work will require people of good health with normal vision and hearing. Krazan's industrial physician is periodically asked to provide documentation of employee medical fitness to perform the required work in the form of signed document. This documentation should also indicate the employee's ability to perform the required work while wearing a respirator.

#### 10.0 EMERGENCY RESPONSE PLAN

The emergency procedures described in this plan are designed to give the field team guidance in the handling of medical emergencies, fires, explosions, and excessive emissions. These emergency procedures will be carefully explained to the field team during the on-site health and safety meeting.

#### 10.1 Injuries

Medical problems must be quickly dealt with; a road map to the nearest emergency medical facility is kept in an envelope on the dash of each Krazan field vehicle of drill rig. A map with a route to the hospital is included in this plan. The local emergency numbers are:

 Police:
 911

 Fire:
 911

 Paramedics:
 911

Hospital: (Kaiser Foundation) (510) 596-1000

The field team is to seek immediate professional medical attention for all serious injuries. A first aid kit will be present at the site for use in case of minor injuries. If any field team member receives a splash or particle in the eye, the eye is to be flushed for 15 minutes. Clean water or a portable eye wash will be available for this purpose. Instruction will also be provided to wash any skin areas with soap and water if direct contact with contaminants has occurred.

During normal field activities work clothes may become wet. If a field team member's clothing becomes saturated with an obviously contaminated liquid/sludge, the possibility for dermal exposure to contaminants may exist. Under these circumstances, that field team member will change out of the contaminated clothing, clean off any residual liquid/sludge with water, and change into clean clothing of the proper level of protection.

#### 10.2 Fire and Explosion Hazards

Fires are a potential concern during this investigation due to the possibility of encountering flammable petroleum hydrocarbon liquid or vapors. An adequate multi-purpose (A,B,C) fire extinguisher will be located on-site on the drill rig at all times.

The local fire department will be notified by a Krazan representative of the location and anticipated activities in order to provide a more timely response in the event of an emergency. In the remote chance that a fire does occur, the local fire department will be notified immediately. Additional calls to the main office of Krazan will be made. The project director would then notify the client.

#### 10.3 Operations Shutdown

Under certain extremely hazardous situations, the Task Leader, Project Director or Task Safety Officer may request that field operations be temporarily suspended while the underlying hazard is corrected or controlled.

#### 11.0 RECORD KEEPING REQUIREMENT

The following record keeping requirements will be maintained in the health and safety or program file indefinitely:

- Copy of this Health and Safety plan
- Health and Safety training certification forms
- Written respiratory protection program
- Respirator training certification
- Any accident/illness report forms documentation of employees medical ability to perform work and wear respirators

#### 12.0 SITE SECURITY

During tank removal, the area will be cordoned off with barricades and caution tape. Any open excavation remaining opened without supervision will be enclosed with temporary fencing to minimize any unauthorized access to the excavation. Caution flagging will also be placed around any excavation.



## ENVIRONMENTAL ENGINEERING • GEOTECHNICAL ENGINEERING CONSTRUCTION TESTING & INSPECTION

#### KRAZAN & ASSOCIATES, INC. HEALTH AND SAFETY PLAN FIELD PERSONNEL RELEASE FORM

I,	do hereby confirm that I have read and understand the H&S plan for
Project Number	,located on
agree to follow this pla	and to make every effort to make the work place safe. I will report any healt
or safety hazard that I o	erve to the Safety Task Leader, Project Safety Officer, or the Project Director.
I agree to defend, ind	nify, and hold harmless Krazan & Associates, Inc., its owners, employee
representatives, clients,	d the property owner for any accidents, sickness, or injuries resulting from the
violation, alleged violat	, or non-compliance of this Health & Safety Plan.
Name:	Title:
Signature:	Date:



State of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

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business from PEAK ENGINEERING INC

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SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT...

AUTHORIZED REPRESENTATIVE

ACORD 25-S (7/90)

530 Water Street

Oakland, CA 94604-2064

P.O. Box 2064

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Additional Protected Persons Endorsement - Contractors General Liability - Including Completed Work

This endorsement changes your Contractors Commercial General Liability Protection.

How Coverage Is Changed

There are two changes which are described below.

1. The following is added to the Who is Protected Under This Agreement section. This change adds certain protected persons and limits their protection.

Additional protected person. The person or organization named below is an additional protected person as required by a contract or agreement with you. But only for covered injury or damage arising out of :

- your work for that person or organization; or
- your completed work for that person or organization only if required by your contract or agreement; or
- premises you own, rant, or lease.

We explain what we mean by your work and your completed work in the Products and completed work total limit section.

If the additional protected person is an architect, engineer, or surveyor, we won't cover injury or damage arising out of the performance or failure to perform architect, engineer, or surveyor professional services.

Architect, engineer, or surveyor professional services includes:

- the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs, or specification; and
- supervisory, inspection, or engineering services.
- The following is added to the Other primary insurance section. This change broadens coverage.

We'll consider this insurance to be primary and non-contributory to the additional protected persons listed below if:

- your contract or agreement requires that we consider this insurance to be primary or primary and noncontributory, or
- you request that we consider such insurance to be primary or primary and non-contributory insurance.

Other Terms

All other terms of your policy remain the same.

Person or Organization:

Port of Oakland 530 Water Street P.O. Box 2064 Oakland, CA 94604-2064

Name of Insured
M.A. MORTENSON COMPANIES, INC.

Policy Number KK06300666 Processing Date 09/11/00

Effective Date 05/01/00

40502 Ed.1-80 Printed in U.S.A.

Customized Form

@St. Paul Fire and Marine Insurance Co. 1980 All Rights Reserved

## OAKLAND FIRE DEPARTMENT; OES UNDERGROUND STORAGE TANK CLOSURE/REMOVAL FIELD INSPECTION REPORT

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Tank Capacity (gallons)	୍ର (୧୯) ା	2000	2 W 5	7. 推推	<b></b>	Obvious corrosion?	7	74.55	海 獅	3/A/28	· 持续性
Material last stored	6AS	37700000000		The State of the S	<u> </u>	Obvious odors from tank?					
Dry ice used (pounds)		<b>美国第二人</b>	1984 P. 198-20-	Her City Sec.	1	Seams intact?  Tank bed backfill material	and or -	-46 M		de de la composición	<b>建</b>
Combustible gas concentration:	25 %	oie ame ex	sampung	point)	No.	Obvious discoloration?	in Paris de la companya de la compan	- (202-198	(2004年) 1980年 (2004年) 1980年	ENGLY.	。 在社會的
(2)	120	The way was	HSTUDIOS MANAGERICA			Obvious odors ex tank bed?		1. 有限的概念数 1. 公司記述		100 To	一等"(等.)(c) 一等的新证据
(3)	NA ONE CON	44.44.65.4	de la companya de la	of Newscool		Water in excavation?	1/1/	1.25	136 128 136 128	sarangwa Mahatali	海網,
Oxygen concentration as % volu	ume. (Note	time &sam	oling poin	ıL)		Sheen/product on water?	W			nave es Nave es	
(1) 3 (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	10%	45 (100)	132.6 (32)		1	Tank tagged by transporter?	// X/	46.4	- 3	An array	44.00
(2)	在 智慧 群。	建设施	WWW.	9,416		Tank wrapped for transport?	I IN			100 (1946) 100 (1946)	
(3)	是 数据领抗	· 大道。	Andre Se	磁網圖		Tank plugged w/ yent cap?		土成湖	NO PAR	Herod A.	4.69
Tank Material	26. 37. C.	\$100 m	A STATE OF STATE OF	1.00 m		Date/time tank hauled off?	10 AN	. Take			6880
Wrapping/Coating, if any	3 3/4/22	. 数据证			160 C	No. of soil samples taken?	2	100	St 480		基值》
Obvious holes?			图 3664	3 A	# 1 m	Depth of soil samples (ft. bgs)		1 2 75 3		Salara Ara Yana Mara	THEM
, Piping Remov	ol	Ye	s No	N/A	7	General Observ	rations		Yes	No	N/
All piping removed hauled off v		- 17		1471	-	Leak from any tank suspected			-	110	1102
Obvious holes on pipes?			+		┨	"Leak Report" form given to				├	-
Obvious odors from pipes?			Ť		┨	Obviously contaminated soil of			1/1	<del>                                     </del>	+
Obvious soil discoloration in pir		•	1	<del>                                     </del>	┨	Soil stockpile sampled?			<del>//</del>	<del>                                     </del>	+
Obvious odors from piping tren		•	1	+	1	Stockpile lined AND covered	)		$\overline{\mathcal{A}}$	<del>                                     </del>	+
Water in piping trench?			+>		1	Water in excavation sampled?			<u> </u>	1	+-
Number & depth of soil samples	s from piping	trench?			1	Number/depth of water sample				\(\frac{\alpha}{\to \lambda}\)	<u> </u>
Number & depth of water samp					1	All samples properly preserved		t?	/	<u> </u>	1
					j			l		J	_L
Additional Observ		Ye	s No	N/A	1	SITE & SA					• • •
Soil/water sampling protocols as	=					KINZIN 10	SA	MPL	<u>C</u>		
Sampling "chain of custody" no	ited?	<b>V</b>									
Tank pit filled in or covered?					1						
Tank pit fenced or barricaded?					1						
Transporter a registered HW ha	uler?										
Uniform HW Manifest complet	ed?			1	1						
Contractor/Consultant reminded UST Removal Report due within	of complete										
Date/Time removal/closure oper		leted?			1						
OT hours or additional charges	due from con	tractor?			1						
Notes/Comments	7		5000	PLE_	ζ.			• • •	· ·		
Notes/Comments:		SU SA	<u> </u>	1	<u>د_</u> ۱ آ	160 FROM	AL	$\overline{\langle \cdot , \cdot \rangle}$			<del></del>
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DO NOT WRITE BELOW THIS LINE.

WASTE MANIFEST	274465	315	6	3   4	is not required b	
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770 SI(GND St., DANGAM)	U F. 14. 4460	7	2. Side	Generate DAY		
5.7	6. US EFA ID Number		2-3			
15.5 × 1.5 ×	. C3 E7X ID (TOMBE)		0.00	ransporter ( C)		
P. M. S. C. Company Name	8. US EPA ID Number	13/7/6/1				
			30.00			4 1s.
	O. US EPA ID Number				روز این در این	
ECOLOGY CONTROL HOMESTREES			Z - Y			
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11. Lts DCT Description (including Proper Shipping Name, Nexard Clas	s, and ID Number)	12. Con	о него Тура	13, Total Guantity	MI/Vol 12.W	71
WASTE EMPTY STORAGE TANK						
MON RCRA HAZARDOUS WASTES	OL FO	001	TP	20300		7 °2 5 °3
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Additional to Control of Manifold Speed About		1000	CHandli	ng Codes for Waste	Listed ASS	
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and the second of the second o						
15. Special Handling instructions and Additional Information	usticle of the section of the	and the state of the			723 <b>(3</b> 7) (4)	ंगि कृति
West proper protective equipment v	vhile handling 1	Meignts o	er seget	umes are	approxim	Rie
24 Hour consequency telephone manb 24 Hour emergency connect	7TW	625 -	<b>-</b> 03	-01		
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•	, , , , , , , , , , , , , , , , , , , ,	, 10 opp 1000 11 11 11		AND DESIGNED POTES	imeni regolonons.	
If I am a large quantity generator, I confly that I have a program in practicable and that I have selected the practicable method of treatment and the environment; OR, if I am a smell quantity generator, I have available to me and that I can afford.	place to reduce the volume as ent, storage, or disposal curren	nd lowelly of wash his available to m	generate which w	to to the degree I have present	ave determined to it t and future threat i	o hem
Annualis to the case and their I cov caloud		almize my waste g	en en en en	and select the best	wash alahagemen	) meth
Morror Dosler	Signarur				0712	٤
17. Transporte: 1 Acknowledgement of Receipt of Materials Frinted/Typed Name	Signoidre Y	<b></b>	***************************************	· · · · · · · · · · · · · · · · · · ·		
DAMPEL MURCHU  18. Transporte: 2 Acknowledgemani of Receipt of Materials	- Daniel	i. Yhu	$\alpha$	July 1	1099	عي ا
Printed/Typed Name	Signerure		-	7	Month	
19. Discrepancy Indication Space		-				خمر
				<del></del>		
20. Feelin Owner o: Operator Camification of receipt of hazardous materi	als covered by his monliest ex	cept as noted in the	m. 19.		<del></del>	<del></del> -
The second secon	15%					
DANID SATO	Signatura	<b>.</b> (7)			Month 2	Day

DISC 80224 (1/99) EPA 8700—22

Green: TRANSPORTER RETAINS



#### SERVICE ORDER

NO. N 326138

## ASBURY ENVIRONMENTAL SERVICES

2100 NORTH ALAMEDA STREET @ COMPTON, CALIFORNIA 90222 @ (310) 886-3400

SAN DIEGO OFFICE 1-800-748-5744

EPA NO. CAD028277036

**NORTHERN OFFICE** 1-800-727-2879 1-800-933-9194

	<del></del>	
DATE 1-26-20	ONE TIME PICK UP	☐ YES or ☐ NO
CUSTOMER MA Mordenson	RESIDENT	□ YES or □ NO
BILLING ADDRESS MONTH PSAC 545 Control of	CONTRACT CUSTOMER	☐ YES or ☐ NO
Sun J. 38 C. 95112		
PHONE STORAGE CONTACT	ACCOUNT NUMBER	
CUSTOMER EPA #	AMOUNT _	
JOB SITE ADDRESS 222 200 34	CHECK NUMBER	
Profes Ca.	P.O. NUMBER	
CROSS STREETS	CASH RECEIVED	(AMOUNT)
NOTES: 45. 1 hr. 4 1.25 × 110	COMMODITY	(AMOUNT)
	HALIDES _	P.P.M.
NON RCRA HAZARDOUS WASTE LIQUID (Used Oils/Mixed Oils) NO PLACARD REQUIRED  NON RCRA HAZARDOUS WASTE LIQUID, CALIFORNIA REGULATED WASTE ONLY (Glycol & Water) NO PLACARDS REQUIRED  OTHER  MANIFEST NO.  DRIVER  NON HAZARDOUS DRAINED USED FILTERS	NEXT SERVICE DATE DRUMS DR NO. OF GALLONS /2 / / / / / / / / / / / / / / /	UM SIZE
DESIGNATED TSDF:  ALVISO INDEPENDENT OIL—5002 Archer St., - Alviso, CA 95002  BAYSIDE OIL II, INC.—210 Encinal St.—Santa Cruz, CA 95060  OTHER FACILITY  DEMENNO/KERDOON—2000 N. Alameda St.—Compton, CA 9022  OCS—3256 N. Marks St.—Fresno, CA 93722  RAMOS ENVIRONMENTAL—1515 S. River Road—W. Sacramento	ng di Corr.	
This is to certify that the above no marked and labeled, and are in pro	amed articles are properly class	ified, described, packaged,

I HEREBY CERTIFY THAT I HAVE NOT MIXED THIS WASTE WITH ANY OTHER WASTE, AND THE TOTAL HALIDES ARE LESS THAN 1000 P.P.M.

I FURTHER AGREE TO ACCEPT THE ADDITIONAL CHARGES FOR LEGAL DISPOSAL IF THIS WASTE IS OVER 1000 P.P.M. TOTAL HALIDES

regulations of the Department of Transportation.

X		James J. Charles	191761
_		CUSTOMER SIGNATURE	DATE
x	ALEX	CARLERY	

PRINT NAME



A Full Service Environmental Company

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73	1	_£	(	
Page	1	OI.	1	

## Tank Processing JOB #:\_\_\_\_\_ TANK CERIFICATION

CUSTOMER: KICH	ZANA ASSOL	, GENERATO	R.M.A. Mo	RIENSON CO.	State Waste.C	odes: 512
LOCATION: 2th			ACOUZZ-	,	EPA Waste Co	odes:
TRANSPORTER:	TILLER EX.	MANIFEST	#: <u>99631</u> 5	56-8	☐ See Attach	ned
	TANK I	TANK 2	TANK 3	TANK 4	TANK 5	TANK 6
TANK#:	280					
CAPACITY:	600				<del></del>	
DIAMETER:	44"					
LENGTH:	7.5'	<del></del>				
STEEL GLASS:	UNCENDO			<del></del>		
LAST CONTAINED	13				<del></del>	
	LG = Leaded Ga Specify the mate			el, UO = Used Oil, above.	FO = Fuel Oil	
			TION NOTIFIC			
The waste represented refinery. As such, it is	on this manifest is not regulated unde	not generated b er 40 CFR Part 6	y a chemical mar 1, Subpart FF (N	ufacturing plant, co ESHAPS for Benze	ke-by product re ne Operations).	covery plant of petroleun
	CFR 268.7 I am 1	otifying Ecolog	y Control Indus	tries that the mate	rial described by	the above manifest is a
containing Non-RCRA	solid hazardous	waste (66268	(3.29(g)), and a	n organics contait	ning Non-RCRA	y the manifest is a meta solid hazardous waste subject to land disposa
complete and accurate information provided at the discrepancy(ies) becost of preparation, training tra	to the best of my lebove. In the event tween the tank(s) a asportation and dis b. Further, I will n	mowledge. The that the tanks d and the form. In posal/recycling	tanks on the trans o not correspond the event that the of the excess man	asport equipment be to the form, I will to tank(s) contain ex terial according to t	ave been number pay any and all c cessive solids or he schedule of ch	I associated documents in red to correspond with the osts incurred in rectifying liquids, I agree to pay the larges in effect at the time liks which occurs after the
AUTHORIZED REP	RESENTATIVE	:			- ſ	ê .
SIGNATURE:	adh			DATI	: 09/28 : S. R.	<u> </u>
PRINT NAME:	Marin	Dalo		ן זיריניד	$R \leq R_{N}$	Mov

	UNDERGROUND STORAGE TANK UNAUTHORIZE	ED RELEASE (LEAK) / CONTAMINAT	TON SITE REPORT
EME	RGENCY HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO	FOR LOCAL AGENCY USE ONLY HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFO DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON	.8.000.000.000.0000.0000.000.0000.0000.0000
PEPC D M	9 M Z d 9 d 0 y 0 y	SIGNED	DATE
ED 8Y	NAME OF INDIVIDUAL FILING REPORT  ALEX BALLEGO  REPRESENTING  OWNER/OPERATOR REGIONAL BOARD		Pally
REPORTED	DLOCAL AGENCY OTHER	KRAZAN & ASSOCIATE	5 Inc.
	NAME	CONTACT PERSON	STATE ZIP
RESPONSIBLE PARTY	M.A. MORTENSON CO. UNKNOWN	Jim CALL	(5/0)625 0201
RESP(	ADDRESS 720 SECOND ST.	DAKLAYD	(1) 94607 STATE ZIP
NO.	FACILITY NAME (IF APPLICABLE)	M.A. MORTENSON CO.	(\$10)6250201
SITE LOCATION	ADDRESS 720 SECOND STREET	DAKLAND AL	AMEDA 94607 COUNTY ZIP
IS	BRUSH STREET		
	ALAMEDA COUNTY HEALTH CARE REGIONAL BOARD	SUSAN HUBO	PHONE (SUP)SB7 6780
IMPLEM	TEGIOTAE DONIE		( )
SUBSTANCES	GASOLINE NAME		QUANTITY LOST (GALLONS)  UNKNOWN
SUB			UNKNOWN
RY/ABATEMENT	D M 9 M Z D V O V D V TANK TEST TAN	TENTORY CONTROL SUBSURFACE MONITORING NK REMOVAL OTHER	
	DATE DISCHARGE BEGAN  M M D D Y Y SUNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT REMOVE CONTENTS CLOSE TANK & REMOVED TO STOP DISCHARGE (CHECK ALL THAT REMOVED TO STOP DISCHARGE (CHECK ALL TH	OVE REPAIR PIPING
DISCOVE	HAS DISCHARGE BEEN STOPPED?  YES NO IF YES, DATE Du 7 Lo 6 D Dy D	REPLACE TANK CLOSE TANK & FILL I	N PLACE CHANGE PROCEDURE
SOURCE/ CAUSE	SOURCE OF DISCHARGE  CAUSE(S)  TANK LEAK  UNKNOWN  PIPING LEAK  OTHER	VERFILL	SPILL OTHER
CASE	CHECK ONE ONLY  UNDETERMINED SOIL ONLY GROUNDWATER	DRINKING WATER - (CHECK ONLY IF WATER WEL	LS HAVE ACTUALLY BEEN AFFECTED)
CURRENT	CHECK ONE ONLY  NO ACTION TAKEN  PRELIMINARY SITE ASSESSMEN  PRELIMINARY SITE ASSESSMEN  PRELIMINARY SITE ASSESSMEN  CASE CLOSED (CLEANUP COMP	IT UNDERWAY POST CLEANU	HARACTERIZATION IP MONITORING IN PROGRESS DERWAY
REMEDIAL ACTION	CHECK APPROPRIATE ACTION(S)  (SEE BLOCK FOR DETAILS)  CAP SITE (CD)  CONTAINMENT BARRIER (CB)  VACUUM EXTRACT (VE)  CHECK APPROPRIATE & DISPOSE (ED)  EXCAVATE & DISPOSE (ED)  EXCAVATE & DISPOSE (ED)  OTHER (OT)  OTHER (OT)	PUMP & TREAT GROUNDWATER (GT)	ENHANCED BIO DEGRADATION (IT) REPLACE SUPPLY (RS) VENT SOIL (VS)
COMMENTS	SOIL TPHg = 2300 PP	m; BENZENE = 12	. psm

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

September 27, 2000

Alex Gallego Krazan & Associates, Inc. 550 Parrott Street, Suite One San Jose, CA 95112

Order: 22433

Date Collected: 9/26/00

**Project Name:** 

Date Received: 9/26/00

**Project Number:** 

**Project Notes:** 

P.O. Number:

On September 26, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Solid Gas/BTEX EPA 8015 MOD. (Purgeable)

EPA 8020

Organic lead subcontract out to American Envirome

Oxygenates by EPA 8260B

Title 22 EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

## Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc. 550 Parrott Street, Suite One

San Jose, CA 95112 Attn: Alex Gallego Date: 9/27/00 Date Received: 9/26/00

Project Name: Project Number: P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

<b>Order ID:</b> 22433		Lab Sa	mple 🛭	D: 2243	3-001		Client Sam	ple ID: S-N	1	
Sample Time: 2:15 PM	Л	Sam	ple Dat	e: 9/26/	00			Matrix: Sol	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	8.3		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Toluene	66		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Ethyl Benzene	27		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Xylenes, Total	130		1000	0.001	1	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
					Surrog	ate	Surre	ogate Recovery	Conti	rol Limits (%)
				aaa	-Trifluor	otoluene		94		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1800		1000	0.050	50	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surre	ogate Recovery	Conti	rol Limits (%)
				aaa	-Trifluoro	otoluene		95		65 - 135

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

Comment:

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

## Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc. 550 Parrott Street, Suite One

San Jose, CA 95112 Attn: Alex Gallego Date: 9/27/00 Date Received: 9/26/00

Project Name: Project Number: P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

<b>Order ID: 22433</b>		Lab Sa	mple II	<b>224</b> 33	3-002		Client Sam	ple ID: S-S		
Sample Time: 2:10 PM	1	Sam	ple Dat	e: 9/26/	00		1	Matrix: Soli	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	12		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Toluene	91		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Ethyl Benzene	42		1000	0.0005	0.5	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
Xylenes, Total	210		1000	0.001	1	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8020
•					Surrog	ate	Surre	ogate Recovery	Contr	rol Limits (%)
				aaa	-Trifluoro	otoluene		88		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	2300		1000	0.050	50	mg/Kg	N/A	9/27/00	SGC2000923	EPA 8015 MOD (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Conti	ol Limits (%)
				aaa	-Trifluore	toluene		81		65 - 135

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc. 550 Parrott Street, Suite One

San Jose, CA 95112 Attn: Alex Gallego Date: 9/27/00 Date Received: 9/26/00

Project Name: Project Number: P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

Order ID: 22433		Lab Sam	ple ID:	22433-0	01	Clie	nt Sample ID:	S-N	
Sample Time: 2:15 P	М	Sampl	e Date:	9/26/00			Matrix:	Solid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Diisopropyl Ether	ND	-	200	5	1000	μg/Kg	9/27/00	WM\$1000926	EPA 8260B
Ethyl-t-butyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
Methyl-t-butyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
tert-Amyl Methyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
tert-Butanol	ND		200	20	4000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
	Surrogat	e		Surroga	te Recover	y	Control Limits	(%)	
	4-Bromof	luorobenzen	e		105		65 - 135		
	Dibromof	luoromethan	е		102		65 - 135		
	Toluene-c	18			90		65 - 135		

Comment:

Sample diluted due to high concentrations of non-target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director Environmental Analysis Since 1983

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc. 550 Parrott Street, Suite One

San Jose, CA 95112 Attn: Alex Gallego Date: 9/27/00 Date Received: 9/26/00

Project Name: Project Number: P.O. Number:

Sampled By: Client

#### Certified Analytical Report

Order ID: 224	433	Lab Sam	ple ID:	22433-0	02	Clie	nt Sample ID:	S-S	
Sample Time: 2:1	0 PM	Sampl	e Date:	9/26/00			Matrix:	Solid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Diisopropyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
Ethyl-t-butyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
Methyl-t-butyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WM\$1000926	EPA 8260B
tert-Amyl Methyl Ether	ND		200	5	1000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
tert-Butanol	ND		200	20	4000	μg/Kg	9/27/00	WMS1000926	EPA 8260B
	Surrogat	te		Surrogat	e Recovery	7	Control Limits	(%)	
	4-Bromo	fluorobenzen	e		90		65 - 135		
	Dibromo	fluoromethan	е		91		65 - 135		
	Toluene-	18			94		65 - 135		

Comment:

Sample diluted due to high concentrations of non-target hydrocarbons



### American Environmental Testing Laboratory Inc.

2834 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 AETLAB@AOL.COM

#### Ordered By

Entech Analytical Labs, Inc. 525 Del Rey Avenue Suite E Sunnyvale, CA 94086-

Telephone: (408)735-1550 Attention: Michele Anderson

Number of Pages 2	
Date Received 09/27/2000	
Date Reported 09/27/2000	

Job Jumber	Order Date.	difent. z
16556	09/27/2000	ENTECH

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: \_\_\_\_ Approved By: \_\_\_\_ Kongroup

Cyrus Razmara, Ph.D. Laboratory Director



### American Environmental Testing Laboratory Inc.

2834 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181 Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 AETLAB@AOL.COM

#### ANALYTICAL RESULTS\_

Ordered By

Entech Analytical Labs, Inc.
525 Del Rey Avenue
Suite E
Sunnyvale, CA 94086-

Telephone: (408)735-1550 Attn: Michele Anderson

Page:

2

. AETL Job Number	Submitted	Client :
16556	09/27/2000	ENTECH

Method: (HMU-900), Organic Lead

QC Batch Number: 09272000/09272000

20 Datem Manager: 092/2000/092	/2000					 
Our Lab I.D.				AE78313	AE78314	
Client Sample I.D.		Method Blank	22433-001	22433-002		
Date Sampled			09/26/2000	09/26/2000	09/26/2000	
Date Prepared			09/27/2000	09/27/2000	09/27/2000	
Preparation Method		HMU-900	HMU-900	HMU-900		
Date Analyzed		09/27/2000	09/27/2000	09/27/2000		
Matrix		Soil	Soil	Soil		
Units		mg/Kg	mg/Kg	mg/Kg		
Dilution Factor		1	1	1		
Analytes: - MDL - MDL - MDL		PQL	Results	Results	Results	
Lead, Organic	0.5	1.0	ND	ND	ND	

#### QUALITY CONTROL REPORT

QC Batch Number: 09272000/09272000

	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit	
Lead, Organic	1.00	0.99	99	1.00	1.01	101	2.0	80-120	<15	

#### QC Batch Number: 09272000/09272000

	LCS	LCS	LCS	LCS/LCSD			
Analytes	Concen	Recov	% REC	% Limit			
Lead, Organic	1.00	0.96	96	80-120			



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### Data Qualifiers and Descriptors

#### Data Qualifier:

B: Analyte was present in the Method Blank.

D: Result is from a diluted analysis.

E: Result is beyond calibration limits and is estimated.

J: Analyte was detected. However, the analyte concentration is an estimated value, which is between the

Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

#### Definition:

%Limi: Percent acceptable limits.

%REC: Percent recovery.

Con.L: Acceptable Control Limits

Conce: Added concentration to the sample.

LCS: Laboratory Control Sample

MDL: Method Detection Limit

MS: Matrix Spike

MS DU: Matrix Spike Duplicate

ND: Analyte was not detected in the sample at or above MDL.

PQL: Practical Quantitation Limit

Recovered concentration in the sample.

RPD: Relative Percent Difference

**CA ELAP # I-2346** 

525 Del Rey Avenue, Suite E, Sunnyvale, CA 94086

(408) 735-1550

FAX (408) 735-1554

#### **Subcontract Chain of Custody**

PO Number: Subcontract Lab: Project Name: Date Sent: Due Date: 22433 AmericanEnvironmental test 22433 9/26/00 9/27/00 Collect Collect Preservative: Sample Customer Sample Matrix: Test: Method: Bottle Number: Number: Date: Time: Type: 22433-001 9/26/00 2:15 PM Brass Solid Organic Lead-American Environmental Title 22 Testing 22433-002 9/26/00 2:10 PM Brass S-S Solid Title 22 Organic Lead-American Environmental Testing

Relinquished By:	Received By:	Date:	Time:
Ceny Donnbesto	Gelden State	926/00	1800
Relinquished By:	Received By:	Detc:	Time:
		_	
Relinquished By:	Received By:	Date:	Time:

Notes: Same Day Rush!!

16556

### Entech Analytical Labs, Inc.

**CA ELAP # I-2346** 

525 Del Rey Avenue, Suite E, Sunnyvale, CA 94086

(408) 735-1550

FAX (408) 735-1554

### **Subcontract Chain of Custody**

AmericanEnv		•	: Name;	Date Sent: 9/26/00	Due Date: 9/27/00		224		
Sample Number:	Cus	stomer Sample Number:	Matrix:	Test:	Method:	Collect Date:	Collect Time:	Bottle Type:	Preservative;
22433-001	S-N	Æ78313	Solid	Organic Lead-American Environmental Testing	Title 22	9/26/00	2:15 PM	Brass	
22433-002	S-S	NE 78314	Solid	Organic Lead-American Environmental Testing	Title 22	9/26/00	2:10 PM	Brass	

Relinquished By:	Received By:	Date:	Time;
Ceny Dombesto	Golden State	9/26/00	1800
Relinquished By:	Received By:	Date;	Time:
COLEN STATE O/N	Crus &1	9/27/00	08:45
Relinquished By:	Received By:	Date:	Time:

Notes: Same Day Rush!!

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC2000923

Matrix: Soil

Units: µg/kg

Date Analyzed: 09/23/00 Quality Control Sample: Blank Spike

PARAMETER	Method #		SA	SR	SP	SP	SPD	SPD	RPD	;	QC LIMITS
		μg/kg	μg/kg	μg/kg		% R	μg/kg	%R		RPD	%R
Benzene	8020	<5.0	4.0	ND	4,0	100	4.0	100	0.0	25	75-125
Toluene	8020	<5.0	28.2	ND	31	110	31	110	0.0	25	75-125
Ethyl Benzene	8020	<5.0	4.8	ND	6.0	125	6.0	125	0.0	25	75-125
Xylenes	8020	<5.0	32.1	ND	30	93	30	93	0.0	25	75-125
Gasoline	8015	<1000	468	ND	551	118	540	115	2.0	25	75-125
aaa-TFT(S.S.)-PID	8020		•	117%	114%	•	113%	•		-	65-135
aaa-TFT(S.S.)-FID	8015			102%	104%		102%				65-135

#### Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: WMS1000926

Matrix: Liquid Units: μg/L Date analyzed: 09/26/00 Spiked Sample: Blank Spike

PARAMETER	Method #	SA	SR	SP	SP	SPD	SPD	RPD		C LIMITS
		μg/L	μg/L	μg/L	%R	μg/L	%R		RPD	%R
1,1- Dichloroethene	8240/8260	40	ND	44.3	111	39.3	98	12.0	25	50-150
Benzene	8240/8260	40	ND	42.6	106	39.6	99	7.2	25	50-150
Trichloroethene	8240/8260	40	ND	42.9	107	44.0	110	2.5	25	50-150
Toluene	8240/8260	40	ND	42.7	107	38.2	96	11.0	25	50-150
Chlorobenzene	8240/8260	40	ND	43.4	108	39.9	100	8.4	25	50-150
Surrogates										
Toluene -d8	8240/8260		101%	98%		92%				65-135
Dibromofluoromethane	8240/8260		119%	110%		114%			İ	65-135
4-Bromofluorobenzene	8240/8260		101%	120%		128%				65-135
MTBE-d3	8240/8260		99%	92%		91%				65-135

#### Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

#### **Entech Analytical Labs, Inc.** Chain of Custody / Analysis Request 525 Del Rey, Suite E (408) 735-1550 Sunnyvale, CA 94085 (408) 735-1554 - Fax Phone No.: Purchase Order No.: Send Invoice to (if Dillerent) Phone Fax No.: Project Number: Project Name: Billing Address ( if Different) City: State: Zip: Project Location: City State Zip Same Day 24 Hour Turn 48 Hour Around Time 72 Hour Standard Order ID: Composite Containers Sampling Matrix Grab Client ID Laboratory No. Date Time Remarks 5-10 5-5 662

Tem En	Received by:	0 1/4 / W	Time: 
delenquished by:	Proceived by:	26	Time:
lelenquished by:	Received by:	Dete: F	Time:
delenquished by:	Received by:	Date:	Time:

Special Instructions or Comments

■ NPDES Detection Limits

Metals: Al, As, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Sr, Tl, Sn, Ti, V, Zn, W: CAM-17 Plating PPM-13 LUFT-5 L

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

October 12, 2000

Alex Gallego

Krazan & Associates, Inc.

545 Parrott Street

San Jose, CA 95112

Order: 22607

Date Collected: 10/3/00

Project Name:

Date Received: 10/5/00

Project Number: 04400006

P.O. Number:

**Project Notes:** 

On October 05, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>

<u>Test</u>

Solid

Gas/BTEX

EPA 8015 MOD. (Purgeable)

EPA 8020

Oxygenates by EPA 8260B

EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Genelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc.

545 Parrott Street San Jose, CA 95112 Attn: Alex Gallego Date: 10/12/00

Date Received: 10/5/00

Project Name:

Project Number: 04400006

P.O. Number:

Sampled By: Client

#### Certified Analytical Report

Order ID:	22607	Lab Sa	ample I	<b>D:</b> 2260	7-001		Client Sam	ple ID: S	-S2E		
Sample Time:	8:20 AM	Sam	ıple Da	te: 10/3/	00	Matrix: Solid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	0.089	)	50	0.0005	0.025	mg/Kg	N/A	10/10/00	SGC4001009A	EPA 8020	
Toluene	0.35	i	50	0.0005	0.025	mg/Kg	N/A	10/10/00	SGC4001009A	EPA 8020	
Ethyl Benzene	0.36	;	50	0.0005	0.025	mg/Kg	N/A	10/10/00	SGC4001009A	EPA 8020	
Xylenes, Total	0.11		50	0.001	0.05	mg/Kg	N/A	10/10/00	SGC4001009A	EPA 8020	
				Surrogate			Surr	ogate Recove	ry Contr	ol Limits (%)	
				922	ı-Trifluoro	otoluene	otoluene 79			65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	77		50	0.050	2.5	mg/Kg	N/A	10/10/00	SGC4001009A	EPA 8015 MOD. (Purgeable)	
				Surrogate		ate	Surr	ogate Recove	ry Contr	ol Limits (%)	
	aaa-Trifluorot			<del>-</del>				65 - 135			

Comment:

Sample required methanol extraction due to high concentrations of target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc.

545 Parrott Street

San Jose, CA 95112

Attn: Alex Gallego

Date: 10/12/00

Date Received: 10/5/00

Project Name:

Project Number: 04400006

P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

Order ID: 2260	7	Lab Sa	mple I	D: 2260	7-002							
Sample Time: 8:23	AM	Sam	ple Dat	te: 10/3/	00	Matrix: Solid						
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
Benzene	ND		1	0.005	0.005	mg/Kg	N/A	10/9/00	SGC4001009B	EPA 8020		
Toluene	ND		1	0.005	0.005	mg/Kg	N/A	10/9/00	SGC4001009B	EPA 8020		
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg	N/A	10/9/00	SGC4001009B	EPA 8020		
Xylenes, Total	ND		1	0.005	0.005	mg/Kg	N/A	10/9/00	SGC4001009B	EPA 8020		
•					Surrog	ate			ery Control Limits (%			
				aa	a-Trifluoro	otoluene			65 - 135			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method		
TPH as Gasoline	ND		1	1	1	mg/Kg	N/A	10/9/00	SGC4001009B	EPA 8015 MOD (Purgeable)		
					Surrog	ate Surrogate Recover		ogate Recovery	y Control Limits (%)			
				aaa	a-Trifluoro	otoluene		109	65 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc.

545 Parrott Street

San Jose, CA 95112 Attn: Alex Gallego

Date: 10/12/00 Date Received: 10/5/00

Project Name:

Project Number: 04400006

P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

Order ID: 22607	,	<b>Lab Sample ID: 22607-001</b>					nt Sample ID:	S-S2E	
Sample Time: 8:20 A	AM	Sample Date:					Matrix:	Solid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Diisopropyl Ether	ND		200	5	1000	μg/Kg	10/10/00	SMS1001009	EPA 8260B
Ethyl-t-butyl Ether	ND		200	5	1000	μg/Kg	10/10/00	SMS1001009	EPA 8260B
Methyl-t-butyl Ether	ND		200	5	1000	μg/Kg	10/10/00	SMS1001009	EPA 8260B
tert-Amyl Methyl Ether	ND		200	5	1000	μg/Kg	10/10/00	SMS1001009	EPA 8260B
tert-Butanol	ND		200	20	4000	μg/Kg	10/10/00	SMS1001009	EPA 8260B
	Surroga	te		Surroga	te Recover	y	Control Limits (	%)	
	4-Bromo	fluorobenzen	e		83		65 - 135		
	Dibromo	fluoromethan	e		87		65 - 135		
	Toluene-	18			87		65 - 135		

Comment:

Sample diluted due to high concentrations of non-target hydrocarbons

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle 1. Anderson, Laboratory Director Environmental Analysis Since 1983

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94085 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc.

545 Parrott Street San Jose, CA 95112 Attn: Alex Gallego

Date: 10/12/00

Date Received: 10/5/00

Project Name:

Project Number: 04400006

P.O. Number:

Sampled By: Client

#### **Certified Analytical Report**

Order ID: 22	2607	,	Lab Sam	ple ID:	22607-0	)2	Clie	Client Sample ID: S-N2W				
Sample Time: 8:	23 AM		Sample	e Date:	10/3/00	-		Matrix: Solid				
Parameter	F	Result	Flag	ÐF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method		
Diisopropyl Ether		ND	_	1	5	5	μg/Kg	10/10/00	SMS1001009	EPA 8260B		
Ethyl-t-butyl Ether		ND		1	5	5	μg/Kg	10/10/00	SMS1001009	EPA 8260B		
Methyl-t-butyl Ether		ND		1	5	5	μg/Kg	10/10/00	SMS1001009	EPA 8260B		
tert-Amyl Methyl Ether		ND		1	5	5	μg/Kg	10/10/00	SMS1001009	EPA 8260B		
tert-Butanol		ND		1	20	20	μ <b>g/K</b> g	10/10/00	SMS1001009	EPA 8260B		
	5	Surrogate			Surrogati	e Recovery	,	Control Limits (	%)			
	4	1-Bromofl	uorobenzene	<del>)</del>	1	17		65 - 135				
	[	Dibromofl	ioromethane	<del>.</del>	1	10		65 - 135				
	7	Foluene-d8	}			59		65 - 135				
Comment: Surroga	ate recovery	out of con	trol limits d	ue to mati	rix interferer	ice						

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC4001009A

Matrix: Solid Units: µg/kg Date Analyzed: 10/09/00 Quality Control Sample: Blank Spike

	<del></del>						<del></del>				
PARAMETER	Method #	MB μg/kg	SA μg/kg	SR μg/kg	SP μg/kg	SP % R	SPD µg/kg	SPD %R	% RPD	Q( RPD	C LIMITS %R
Benzene	8020	<5.0	5.2	ND	5.6	107	4.7	90	17.3	25	80-120
Toluene	8020	<5.0	29	ND	28	97	26	89	7.8	25	80-120
Ethyl Benzene	8020	<5.0	5.6	ND	6.3	113	5.3	95	16.5	25	80-120
Xylenes	8020	<5.0	32	ND	31	96	28	87	10.3	25	80-120
Gasoline	8015	<1000	469	ND	479	102	450	96	6.2	25	75-115
aaa-TFT(S.S.)-FID	8015		•	110%	110%		98%		•		65-135
aaa-TFT(S.S.)-PID	8020			95%	104%		89%				65-135

#### Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC4001009B

Matrix: Solid Units: μg/kg Date Analyzed: 10/09/00 Quality Control Sample: Blank Spike

F											
PARAMETER	Method #	MB μg/kg	SA μg/kg	SR μg/kg	SP μg/kg	SP % R	SPD μg/kg	SPD %R	% RPD	Q RPD	C LIMITS %R
Benzene	8020	<5.0	5.2	ND	5.1	98	5.4	104	5.9	25	80-120
Toluene	8020	<5.0	29	ND	27	91	28	95	3.9	25	80-120
Ethyl Benzene	8020	<5,0	5.6	ND	6.0	106	5.8	103	3.1	25	80-120
Xylenes	8020	<5.0	32	ND	30	93	30	92	1.3	25	80-120
Gasoline	8015	<1000	469	ND	426	91	443	94	3.9	25	75-115
aaa-TFT(S.S.)-FID	8015		•	117%	104%		110%			1 30 1	65-135
aaa-TFT(S.S.)-PID	8020			102%	95%		100%				65-135

#### Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: SMS1001009

Matrix: Solid

Units: µg/kg

Date analyzed: 10/10/00 Spiked Sample: Blank Spike

PARAMETER	Method #	SA µg/kg	SR µg/kg	SP µg/kg	SP %R	SPD μg/kg	SPD %R	RPD	RPD	QC LIMITS
1,1-Dichloroethene	8240/8260	25	ND	23.1	92	21.9	88	5,3	25	65-135
Benzene	8240/8260	25	ND	24.4	98	23.9	96	2.1	25	65-135
Trichloroethene	8240/8260	25	ND	25.6	102	25.1	100	2.0	25	65-135
Toluene	8240/8260	25	ND	24.6	98	24.7	99	0.4	25	65-135
Chlorobenzene	8240/8260	25	ND	25.3	101	24.3	97	4.0	25	65-135
Surrogates										
Toluene -d8	8240/8260		87%	90%		92%			!	65-135
Dibromofluoromethane	8240/8260		85%	92%		95%				65-135
4-Bromofluorobenzene	8240/8260		82%	102%		86%	į		:	65-135
MTBE-d3	8240/8260		76%	86%		91%				65-135

#### Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated



# CHAIN-OF-CUSTODY RECORD DATE: 10/5/00 PAGE / OF /

KRAZAN & ASSOCIATES, INC.	REQUESTED ANALYSES P.O. Number:	
550 PARROTT ST., STE. ONE		
SAN JOSE, CA 95112		Ice Chest No.:
(408) 271-2200 VOICE		
(408) 271-2201 FAX		Laboratory:
	Project Name: 글 및 ㅇ	B   ENTELP
Project No.: CYY00006	Sample Description  Sample Description  Sample Preserved?  Sample Preserved?  Sample Preserved?  Containers  Sample Preserved?  Containers  Sample Preserved?  Containers	HEXTER CALL CONTROL
Sampler Name	Report Tight Book Sales	Gas Gas
(Printed): ALEX BALLEBO	Attention: ALEX BALLES D	Method of Shipment/Deliver
Lab Sample Krazan Date Time Sampled Sampled	Sample Description  Sample Description  Sample Description  Sample Description  Sample Description  Sample Description	Method of Shipment/Deliver
S-52 E 193/10 8:20	EXIAVATION BOTTOM S & N 1	V V Remarks
S-NZW 10/3/20 8:23	11 S B N 1	
3-VEW 13/00 0:03	7 7 7	X X QZ
Sid S IJO 08		
Signature	Printed Name Date	Time Company Name Total Number of Containers
Relinquished by: U. Valley	ALEX BALLEDO 19500	am pm KRAZAV * As 3 Turn Around Time
Received by:	DLIM 10/5/W	9:15 ampm (Circle Choice)
remiduated by,	D. L. 1~ 10/5/00	9: 4 Hrs. 48 Hrs.
Received by:	James Galvin 10/5/100	9:51 Ampor Entern
Received for Laboratory by:		
White - Lab Yellow - Project File Pink - C.O.C. B		As Contracted  COC4.VSD 6-23



Date:

Attention:

10/13/00

Krazan & Associates, Inc. 550 Parrott St., Suite One San Jose, CA 95112

Mr. Alex Gallego

Client Project Number:

04400006

Date Sampled:

10/11/00

Date Samples Received:

10/12/00

Sierra Project No.:

0010-319

Attached are the results of the chemo-physical analysis of the sample(s) from the project identified above.

The samples were received by Sierra Laboratories, Inc. with a chain of custody record attached or completed at the submittal of the samples.

The analysis were performed according to the prescribed method as outlined by EPA, Standard Methods, and A.S.T.M.

The remaining portions of the samples will be disposed of within 30 days from the date of this report. If you require additional retaining time, please advise us.

Richard K. Forsyth

Laboratory Director

Reviewed

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.

Krazan & Associates, Inc. Date Sampled: 10/11/00 215 West Dakota Avenue Date Received: 10/12/00 Clovis, CA 93612 Date Prepared: 10/13/00 Date Analyzed: 10/13/00 Sierra Project No.: 0010-319 Analyst: MWClient Project ID: 04400006 Sample Matrix: Water Report Date: 10/13/00

# EPA METHOD 8020-BTEX/ EPA METHOD 8015 MODIFIED-GASOLINE RANGE HYDROCARBONS (C4-C12) (PURGE AND TRAP)

	Concentration, ug/L										
Client Sample No.: Sierra Sample No.:	G-1 29914	Practical Quantitation Limit, ug/L									
COMPOUNDS:	47714	29915	l ugr								
Benzene	ND	ND	0.5								
Toluene	ND	ND	0.5								
Ethylbenzene	ND	ND	0.5								
Total Xylenes	ND	ND	0.5								
МТВЕ	ND	ND	5.0								
Gasoline	ND	ND	50								
Dilution Factor	1	1	QC Limits								
% Surrogate Recovery:	93	93	70-125								

Quality Assurance/Quality Control Data											
QC Sample ID:	001012-Blank		_								
	LCS	QC	Spike	Spike Dup	QC		QC				
Compounds	% Rec.	Limits	% Rec.	% Rec.	Limits	RPD	Limits				
Benzene	92	80-120	91	102	39-150	11	0-30				
Toluene	100	80-120	90	100	46-148	11	0-30				
Ethylbenzene	89	80-120	89	99	32-160	11	0-30				
Gasoline	99	80-120	102	96	50-150	6.5	0-30				

ND means Not Detected

Reporting Limit (RL) = Practical Quantitation Limit (PQL) x Dilution Factor

# **Krazan**

0010-319

CHAIN-OF-CUSTODY RECORD

DATE: /0/11/00 PAGE 1 OF /

KRAZAN & ASSOCIATES, INC.			Comments:							j.	RE	QUESTED ANALYSES							P.O. Number:	
550 PARROTT ST., STE. ONE		RUSH																		
SAN JOSE, CA 95112 (408) 271-2200 VOICE										り										Ice Chest No.;
(408) 271-2200 VOICE										+11113v								i	Ì	Laboratory:
															-				SIERRA	
Project No.: 0440006		Project Na (optional)	ime:		r I A≕Air	posite	rved?		soline		418.1								Lab Quote No.:	
Sampler Name (Printed): Inv Barry			Project Name: (optional)  Report Attention: ALEX SALLES D  Sample Description			Matrix r S=So	Type C=Com	Prese	is of	H-Gas	sel	TRPH by EPA 418.1						l	Method of Shipment/Delivery:	
Lab Sample Krazan ID# Sample No.	Date Sampled	Time Sampled		Sample Des	cription	Sample N=Wate	Sample 3=Grab 3=Discre	Sample Preserved? (Yes/No)	Number of Containers	BTEX/TPH-Gasoline	TPH-Diesel	RPH b								CAL DVERVISIES
6-1	10/1/00		Some	NIDVSY	10111	W	6	W	¥	<u>"</u>	-	H				_	-			Remarks
6-2	19/1/00		_(Z).VV	1 1	TEX	W	Б	Y	<del>-/</del>	X							1			
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Signatu	ira				Official Name	71.216-71		5-1	1.5862	2.00		_\	~					16.545. b. 18.5	7)	R3A
		Printed Name  Lan Boath				/O ·//·	3741-02-27	, , , , , , , , , , , , , , , , , , ,	• Time			Company Name 大R4と4시					B	Total Number of Containers Submitted to Leboratory  Turn Around Time		
Received by: For School			Tom Schuster				10-12-00			10:30@pm			Sierra						(Circle Choice)	
Relinquished by:											am pm		<del>                                     </del>							(24 Hrs.) 48 Hrs.
Received by: Relinquished by:				<u> </u>			-	<del></del> -				am pm am pm	-							5 Days 10 Days
Received for Laboratory by:							184					ám pr					(13)			As Contracted