

REPORT
SUBSURFACE ENVIRONMENTAL INVESTIGATION
TWO SOIL BORINGS
AND MONITORING WELL INSTALLATION
at

Harbert Transportation 19984 Meekland Avenue Hayward, California

AGS Job No. 8660-1

Report prepared for

Harbert Transportation Hayward, California

by

Glenn R. Dembroff Project Geologist

Michael N. Clark

C.E.G. 1264

July 20, 1986



REPORT
SUBSURFACE ENVIRONMENTAL INVESTIGATION
SOIL BORING AND MONITORING WELL INSTALLATION
at Harbert Transportation
Hayward, CA
for: Harbert Transportation

#### INTRODUCTION

The following report describes the work elements associated with two soil borings and installation of one monitoring well near the fuel storage tank cluster at Harbert Transportation located on 19984 Meekland Avenue, Hayward, California. The well was installed after the Groundwater Protection Ordinance Permit from the Alameda County Flood Control and Water Conservation District (ACFCWCD) was approved by Mr. Craig Mayfield. A copy of this permit is included in the Appendix of this report. Methods used in this project are in compliance with Guidelines for Addressing Fuel Leaks (California Regional Water Quality Control Board, San Francisco Bay Region, September 1985) and Groundwater Monitoring Guidelines (Alameda County Water District, May 1984).

## SITE HISTORY

The Harbert Transportation site is located on the corner of Meekland Avenue and Blossom Way in Hayward, as shown on the Site Vicinity Map, Plate P-1. Three underground motor fuel storage tanks are buried in a single cluster at the site. One waste oil tank is buried in a cavity on the northern side of the property. A water well is located approximately 15 feet west of the waste oil tank. The water from this well is collected in a 300 gallon holding tank and it is our understanding that the water is used primarily for vehicle washing. We assume that the waste water used at the site is disposed of in the storm water runoff drain and sewer.

#### FIELD WORK

On June 30, 1986, a geologist from Applied GeoSystems was present at the station to observe the soil borings and well construction. Drilling began at 3:30 PM. The equipment used for the boring was a CME-55 truck-mounted drill rig with steam-cleaned hollow stem augers operated by Datum Exploration of Pittsburg, California. The borings were drilled with eight-inch O.D. augers. The total depth drilled in the boreholes was 41.5 feet for B-1/MW-1 and 23 feet in B-2. Ground water was encountered at 24 feet in MW-1. Boring B-1 was drilled at 41.5 feet to accommodate 15 feet of well

screen below the saturated zone. Boring B-2 was terminated at a total depth of 23 feet in order to sample the soil immediately above the saturated zone. No well was constructed in this boring. The locations of these two borings are shown on the Generalized Site Plan, Plate P-2.

Soil samples were collected from the boreholes with a modified California split spoon sampler. Descriptions of earth materials encountered in borings B-1 and B-2 are presented on the Boring Logs, Plates P-4 through P-6. Plate P-3 gives a summary of the Unified Soils Classification System used to identify the soils. The earth materials encountered at this site consist of silty clay material to a depth of approximately sixteen feet underlain by clay. The cuttings excavated from the borings were sealed in appropriately-lined D.O.T. 17 55-gallon drums left on the site and remain the responsibility of Harbert Transportation. Applied GeoSystems can make arrangements, with the authorization of Harbert Transportation, to schedule to have the drums transported by a licensed waste hauler to a Class I dump site.

## SOIL SAMPLING PROCEDURE

Seven soil samples were collected and described from boring B-1 and four samples were collected and described from boring B-2 at the time of drilling. These samples, labeled as indicated on the Boring Logs, were collected at five-foot intervals from the ground surface to Total Depth. When soil samples were missed (i.e. were not retained in the sampler due to saturated and unconsolidated condition of the materials), the sampler was cleaned and placed in the boring with a sand catcher for resampling. Soil samples were collected by advancing the boring to a point immediately above the sampling depth, and then driving a modified California split spoon sampler into the soil through the hollow center of the auger. The sampler was driven 18 inches with a standard 140 pound hammer repeatedly dropped 30 inches. The number of blows to drive the sampler each successive six inches were counted and recorded.

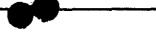
The samples were removed from the sampler and immediately sealed in their brass sleeves with aluminum foil, plastic caps and airtight tape, labeled, and placed in iced storage. The samples were delivered to Applied GeoSystems' laboratory for analytical testing. The Chain-of-Custody form for samples tested is included in the Appendix of this report.

### MONITORING WELL CONSTRUCTION

A ground water monitoring well was constructed in the soil boring B-1. The well (MW-1) was completed with two-inch I.D. PVC casing. The casing consists of 0.020-inch machine-slotted PVC from the base of the borings to the twenty foot depth in MW-1. Blank casing completes the well from the twenty foot depth to the surface. Both ends of the casing were plugged with PVC caps.

The annular space of the well was backfilled with washed sand to approximately eighteen feet below surface grade. A one foot bentonite plug was placed above the sand as a seal against cement entering the sand pack. The remaining annulus was backfilled with neat cement to grade. Graphic representation of the well construction is shown on the right margin of the Boring Log.

A utility box was placed over the well head and cemented into place flush with the surrounding surface grade. The utility box has a water-tight seal to protect against surface water infiltration and requires a specially-designed key to reduce the possibility of well vandalism.



July 20, 1986 Harbert Transportation - Hayward, CA

### WATER SAMPLING PROCEDURE

Prior to development, a subjective water sample was collected by lowering a teflon bailer approximately halfway through the air/water interface. The sample was retrieved and inspected for the presence of floating product, product odor, sheen, and emulsion. No subjective evidence of floating product, sheen, or emulsion was detected. A moderate product odor was detected in the subjective sample.

The well was developed by pumping, swabbing, and air surging. A minimum of three well volumes were removed from the monitoring well by pumping prior to sampling. Following the purge period, and after well recovery of approximately one hour, the water sample was collected using a teflon bailer. The bailer was lowered through the air/water interface in order to retrieve a sample representative of the formation water.

The sample was transferred to a clean finger vial, made acidic by the addition of hydrochloric acid, immediately sealed with a teflon-lined cap, and placed in iced storage for transport to the analytical laboratory for testing.



Additionally, a water well sample was collected from the 300 gallon holding tank at the site. It is our understanding that this well water is currently being used as a non-potable water The sample was collected by filling the finger vials from a faucet plumbed to the holding tank after the tank was emptied and refilled. Preparation and transport procedures for this sample are the same as the monitoring well water sample. Chain-of-Custody forms for the soil and water samples are included in the Appendix of this report.

### ANALYTICAL RESULTS

Two soil samples (S-20-MW1 and S-20-B2) were analyzed for total hydrocarbon using gas chromatography with flame-ionization detection (EPA Method 8020). Two water samples, one from the monitoring well (MW-1) and one from the water well at the site, were analyzed for purgeable aromatic hydrocarbons by EPA method 602 using gas chromatography with photo- and flame-ionization detection. The results of the chemical analyses are presented in Table 1 and in the Appendix of this report.



July 20, 1986 Harbert Transportation - Hayward, CA

TABLE 1
RESULTS OF CHEMICAL ANALYSES
OF SOIL AND WATER SAMPLES
Harbert Transportation
Hayward, California

Material Boring No. Sample No.	Soil B-1 S-20-B1	Soil B-2 S-20-B2	Water MW1 W-28-MW1	Water - W-Well
Depth	20 feet	20 feet	28 feet	- Control of the Cont
Total				
Hydrocarbons	235.16	0.27	42.09	0.66 → 660 Apb 0.03 → 30 ppb
Benzene		9 <sup>th</sup> 6m	5.52	0.03 -> 30ppb
Toluene	-		4.92	ND
Xylenes			6.07	0.01

Note: Results in parts-per-million (ppm)

ND: Non-detectable

Detection limits: 0.05 ppm (soil) 0.0005 ppm (water)

The soil samples taken from borings B-1 and B-2 show detectable levels of total hydrocarbons. The sample from boring B-2, drilled adjacent to the waste oil tank, shows low levels of contamination. The soil analyzed from boring B-1, adjacent to the tank cluster, shows higher levels of hydrocarbon contamination.



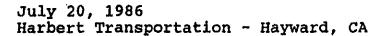
July 20, 1986 Harbert Transportation - Hayward, CA

The water samples collected and analyzed also show detectable levels of hydrocarbon. The lab results for water collected from monitoring well MW-1 shows a more pronounced hydrocarbon influence than the water collected from the 300 gallon holding tank at the site.

#### CONCLUSIONS AND RECOMMENDATIONS

Although the soils from the two borings show detectable amounts of hydrocarbon contamination, no soil remediation is warranted at this time. We do feel, however, that hydrocarbon levels found in water samples collected from MW-1 may suggest a potential contamination problem. We recommend that the hydrocarbon level in the water of MW-1 be monitored monthly to assess possible changes in concentration. This information, in conjunction with inventory records, may be used to evaluate the possibility of a contaminant source. In order to monitor any future negative contamination trends, we recommend that the well be sampled monthly for subjective analysis for at least one year.

This work can be done by Applied GeoSystems. The subjective analyses would include examination of a sample collected with a laboratory-cleaned teflon bailer. The bailer would be used to



collect a relatively undisturbed water sample from the air/water interface in the well which would be examined for evidence of floating product, petroleum odor, sheen, and emulsion. In addition, every six months a water sample would be analyzed by EPA method 602 for total hydrocarbons and dissolved constituents. The well would be purged of approximately three to four well volumes prior to the collection of this semi-annual sample. The sample would be collected from below the air/water interface in the well in order to be representative of the formation water. The information obtained from the semi-annual sample should show a trend for the ground water quality at the site.

The source of the hydrocarbon contamination found in the soil borings and wells at the site may be from surface spillage, other limited source, or from off-site. The subjective analysis that we recommend should supply data that can be used to evaluate whether or not the source of product is still active.

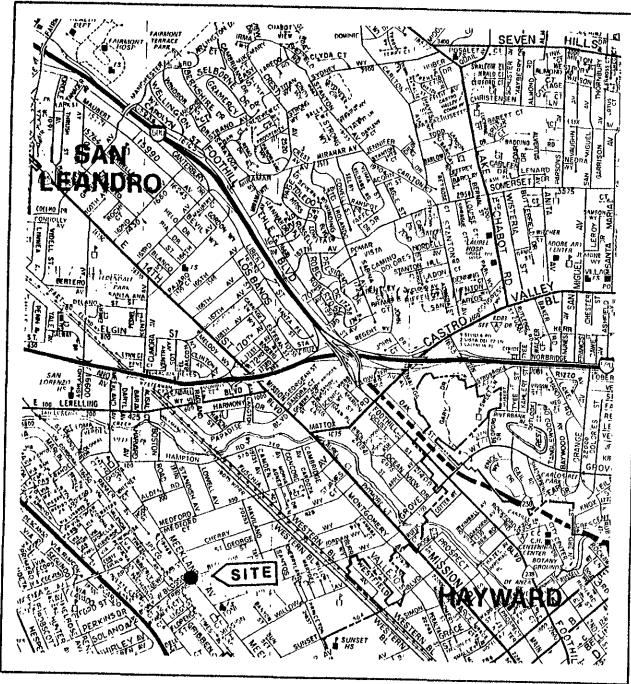
The water sampled from the holding tank shows low levels of hydrocarbons. We recommend this water be analyzed every six months in order to monitor ground water quality. We recommend that this water remain a non-potable source.

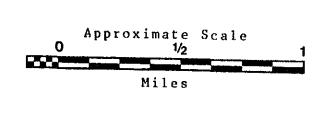
AGS 8660-1

#### LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. It need be emphasized that evaluation of geologic conditions at the site, for the purpose of this investigation, are made from a limited number of observation points. Subsurface conditions may vary away from the data points available. Additional work, including further subsurface investigations, can reduce the inherent uncertainties associated with this type of investigation.







Source: Thomas Bros. Maps, Alameda County, 1985



SITE VICINITY MAP Harbert Transportation Hayward, California PLATE

P - 1

## MINISTED SOIL CLASSIFICATION SYSTEM

MAJOR DIVI	MAJOR DIVISIONS			TYPICAL NAMES
	CLEAN GRAVELS	ew .		will graded gravels, gravel — sang mixtures
GRAVELS	MO PINES	or !	1	POCRLY GRADED GRAVELE, GRAVEL - SAND MXTURES
MORE THAN HALF COARSE FRACTION & LARGE THAN	GEAVELS WITH	dri		IH. Y GRAVELS, FOORLY GRADED GRAVEL - LANG -
	OVER 13% FINES	ec		Cavey Gravels, poorly graded gravel - same - Cay mixtures
•	CLEAN SANCE	3₩		WELL CRACED EARLOS, CRAVELLY SAMOS
	NO PINES	30		MODELY GRADED SAMOS, DEAVELLY SAMOS
COASS PRACTION IS SMALLER THAN	SANDE WITH	230		SILTY SAMOS, POCKLY CRACKO SAMO – MLT. MIXTURES
	OVER 13% 711423	sc 2		Clayey Sande, Pockly Graded Sand - Clay Matures
		ML,		INCRGANIC SILTS AND VERY FIRE SAMOS, SOCK PLOIR, SILTY OR CLAYEY FINE SAMOS, CR CLAYEY SILTS WITH SLIGHT PLASTICITY
1	_ · · ·	CL		inciganic clays of low to medium fasticity, gravelly grave, sangy grave, silty grave, lean grave
<del></del>		OL		CREANIC CLAYS AND CREANIC SILTY CLAYS OF LOW PLASTICITY
<b>514 5</b> 0 1416		мм		INCEGANIC SILTS, MICACIOLE OR DIATOMACIOLE FINE SANDY OR SILTY SOILS, ELASTIC SILTS
		CH		INCROANIC CLAYS OF HIGH PLASTICITY, PAT CLAYS
THE DOCUMENT OFFICE AND THE PARTY OF		OH		Organic clays of medium to high pasticity, Creanic silts
HIGHLY ORGANI	C SOILS	P1 =		MATANO OTHER HIGHLY CREANIC SCILE
	SANGS  MORE THAN HALF COMME PRACTION & LARGES THAN MO, 4 SHEVE SIZE  MORE THAN HALF COMME PRACTION IS SMALLER THAN NO, 4 SHEVE SIZE  SILTS AND LIGHTO LIMIT GRE DIGHTO LIMIT GRE	CLEAN GRAVELS WITH LITTLE CE NO PINES  MOSE THAN HALF CLASSE PRACTION ELANGE THAN MO, 4 SIEVE SIZE  CLEAN SANCE WITH LITTLE CE NO PINES  CLEAN SANCE WITH LITTLE CE NO PINES  COASSE PRACTION IS SMALLER THAN  SANCE WITH	GRAVELS  CLEAN GRAVELS WITH LITTLE CE HO PINES  GP  CLEAN FACTION GLAVELS WITH CVER 17% PINES  GC  GLEAN SANGE WITH LITTLE CE HO PINES  GC  CLEAN SANGE WITH LITTLE CE HO PINES  SP  CLEAN SANGE WITH LITTLE CE HO PINES  SP  CLEAN SANGE WITH LITTLE CE HO PINES  GC  ANDER THAN HALF COMMER PRACTION IS SMALLER THAN HO, A SHEVE SICE  CLEAN SANGE WITH COMMER THAN GVER 17% PINES  GC  ML  SILTS AND CLAYS  CLEAN GUE  SILTS AND CLAYS  CLEAN GUE  CH  CH  CH  CH  CH  CH  CH  CH  CH  C	CLEAN GRAVELS WITH LITTLE CEE HOP FINES  GP  MORE THAN HALP COMME PRACTION GEAVELS WITH HO, 4 SIEVE SIZE  CLEAN SANDE WITH LITTLE CEE HOP PINES  GC  CLEAN SANDE WITH LITTLE CEE HOP PINES  GC  ACRES PRACTION IS SMALLER THAN HO, 4 SIEVE SIZE  COMES THAN HALP COMES PRACTION IS SMALLER THAN HO, 4 SIEVE SIZE  CLEAN SANDE WITH COMES THAN HALP COMES PRACTION IS SMALLER THAN HO, 4 SIEVE SIZE  CLEAN SANDE WITH COMES THAN SE  CLEAN SANDE  STATE  COMES THAN SE  CLEAN SILTS AND CLAYS  CLEAN  CLEAN SILTS AND CLAYS  CLEAN  CLEAN  MIL  SILTS AND CLAYS  CLEAN CLEAN  MIL  CLEAN  CLEAN

Depth through which sampler is driven

Bag or grab

Relatively undisturbed sample (Calif. Modified Sampler)

Ground water level observed in boring

Disturbed sample

Sample No.

PVC blank

Sand pack Bentonite

annular seal

Neat cement annular seal

Machine-slotted PVC

BLOW/FT. REPERSENTS THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH THE LAST 12 INCHES OF AN 18 INCH PENETRATION.

LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDRIES ONLY. ACTUAL BOUNDRIES MAY BE GRADUAL. LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY.



UNIFIED SOIL CLASSIFICATION SYSTEM AND SYMBOL KEY

P - 3

PLATE

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	Blows/ Ft.	Sample No.	uscs	DESCRIPTION	WELL CONST.
0 -	**************************************			6" asphalt	 
2 -			ML	Silty clay, red-brown to black, slightly damp, very stiff, slight plasticity, no product odor.	
4 -	ļ	_			
6 -	17	S-5			
8 -					
10-		X			
12	3.0				
14	32	S-13		Green-brown to dark brown, slight odor.	
18	25	S-15		Light green-brown to red-brown, dry, slight to moderate product odor.	
20-	15	S-20	СН	Clay, dark brown, moist, stiff, high plasticity, moderate to strong product odor.	
22-					
24-			₹		
26-	39	S - 2 5		Light green-brown, wet, hard, moderate product odor.	
30-					
, 0				Clay continues downward, continued on next plate.	



LOG OF BORING B1/MW-1

Harbert Transportation Hayward, California

P-4

PLATE

**OJECT NO.** 8660-1

	<del></del>				
30 _	Blows/ Ft.	Sample No.	uscs	DESCRIPTION	WELL CONST.
32 _	18	s-30	СН	Clay, light green-brown, wet, hard, high plasticity, moderate product odor.  Dark green-brown, very stiff.	
34 _		-			
36_	38	S-35		Red-brown, hard, slight product odor.	
38 _					CAVED
40		×			D
42				Total depth = 41.5 feet.	
1					
]					
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Applied GeoSystems
41275 Abosen Blod State B Forman, CA 94519 (415):651-1906

LOG OF BORING B-1/MW-1

Harbert Transportation Hayward, California PLATE

P-5

Blows, Ft.	Blows/ Sample USCS Ft. No.								
<b>'</b>			6" asphalt						
2_		ML	Silty clay, slightly pebbly, dark brown, wet, very stiff, medium plasticity, no product odor.						
1									
17	S-5								
19	S-10		Red-brown.						
			Red Drown.	Ą					
13	S-15-	СН	Clay, green-gray, wet, stiff, high plast-						
			icity, very slight product odor.						
		ML	Silty clay, red-brown, wet, stiff, medium plasticity, no product odor.						
11 29	S-20	СН	Clay, dark green-brown, wet, stiff, medium plasticity, no product odor.						
			Total depth = 23 feet.						
		1							

	_		
	Applied	GeoSyste	
43235 A			1519 (415) 651-1906

LOG OF BORING B-2

Harbert Transportation Hayward, California PLATE

P-6

JECT NO. 8660-1



## ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE DELEASANTON, CALIFORNIA 94566 (415) 484-2600

## GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
ATTON OF PROJECT 19984 MEEKLAND WY HAYWARD	PERMIT NUMBER 86154 LOCATION NUMBER
UACK WORTHINGTON  THE STATE OF	Approved Craig A. Mayfield  Craig A. Mayfield  PERMIT CONDITIONS  Circled Permit Requirements Apply
RIPTION OF PROJECT  Provided Construction	<ol> <li>A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.</li> <li>Notify this office (443-9300) at least one day prior to starting work on permitted work and before placing well seals.</li> <li>Submit to Zone 7 within 30 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or bore hole logs and location sketch for geotechnical projects. Permitted work is completed when the last surface seal is placed or the last boring is completed.</li> </ol>
Casing Diameter Z in. Number Surface Seal Depth Z it. Driller's License No. CEG 1264-  FECHNICAL PROJECTS Number Z in. Maximum Depth 30 ft.  MATED STARTING DATE JUNE 16, 1986 MATED COMPLETION DATE JUNE 27, 1986  Preby agree to comply with all requirements of permit and Alameda County Ordinance No. 73-68.	<ol> <li>Permit is void if project not begun within 90 days of approval date.</li> <li>WATER WELLS, INCLUDING PIEZUMETERS         <ol> <li>Minimum surface seal thickness is two inches of cement grout placed by tremle, or equivalent.</li> <li>Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.</li> <li>GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material.</li> <li>CATHODIC. Fill hole above anode zone with concrete placed by tremle, or equivalent.</li> <li>WELL DESTRUCTION. See attached.</li> </ol> </li> <li>Applied Geosystems Representative: Mr. Robin coss</li> </ol>
IATURE C. Bobm ROSS Date 6/4/86	

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## RECORD OF ANALYSIS

Date 7-7-86

Applied GeoSystems 43255 Mission Blvd. Fremont, CA. 94539

Attention: Glenn R. Dembroff

Date Received: 7-2-86 Date Analyzed: 7-7-86

Laboratory# 8607-S17

## Procedure:

The soil samples referenced on the attached Chain-of-Custody were analyzed for the presence and concentration of Benzene, Ethyl-Benzene, Toluene, and Xylenes (BETX) and for Total Hydrocarbons (THC) by EPA method 8020. The sample were concentrated on a Tekmar LSC-2 and ALS automatic sampler prior to injection into a 5890 Hewlett Packard gas chromatograph fitted with a Photo-Ionization detector (PID) and a Flame-Ionization detector (FID). The limit of detection for this method of analysis is 50 micrograms/kilogram (parts per billion = ppb).

The results are presented in the table below:

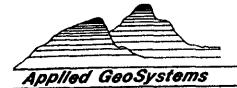
SAMPLE	SITE	TOTAL <u>HYDROCARBONS</u>
S-20-B1	8660-1	235.16
S-20-B2	8660-1	0.27

In Mar

Results in milligrams/kilogram (parts per million = ppm).

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## RECORD OF ANALYSIS

Date 7-9-86

Applied GeoSystems 43255 Mission Blvd. Fremont, CA. 94539

Attention: Glenn R. Dembroff

Iranda

Date Received: 7-7-86
Date Analyzed: 7-8-86

Laboratory# 8607-W19

## Procedure:

The water samples referenced on the attached Chain-of-Custody were analyzed for the presence and concentration of Benzene, Ethyl-Benzene, Toluene, and Xylenes (BETX) and for Total Hydrocarbons (THC) by EPA method 602. The sample were concentrated on a Tekmar LSC-2 and ALS automatic sampler prior to injection into a 5890 Hewlett Packard gas chromatograph fitted with a Photo-Ionization detector (PID) and a Flame -Ionization detector (FID). The limit of detection for this method of analysis is 0.5 micrograms/Liter (parts per billion = ppb).

The results are presented in the table below:

SAMPLE	SITE	BENZENE	ETHYL BENZENE	TOLUENE	TOTAL XYLENES	THC
W-Well	8660-1	0.03	0.005	ND	0.01	0.66
W-28-MW1	8660-1	5.52	1.37	4.92	6.07	42.09

Results in milligrams/Liter (parts per million = ppm).
ND=Non Detectable - Less than 0.0005 milligrams/Liter (ppm).

Tia Tran Chemist



Who Must File: Each person storing hazardous substances in any underground container must file this form no later than July 1, 1984 (After October 1, 1984 and no later than January 1, 1985 for tanks used on farms)

Definition of Underground Containers: The law applies to "concrete sumps, nonvaulted buried tanks or other underground containers" (Water Code section 13173) All containers, including earthen walled pits, ponds lagoons and sumps, that are below the normal ground surface level must register A tank sitting on the ground is not included Containers partially beneath the surface are included Lined or unlined pits, ponds and tagoons are covered it earth has been removed from the storage area to construct the facility. Normal grading is not considered construction below ground level

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Fee: For each tank registered a \$10 fee must be paid except that retail, gasoline stations pay \$5 per tank

Penalties: For failure to file, the penalty is \$500-\$5,000 per day. If you falsify information, you can be fined up to \$20,000 for each day the information is incorrect and has not been corrected.

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Multiple Containers: Fill I and II on one form and leave it blank on all the remaining forms. Attach all forms together securely. If you own more than 50 tanks you can file information on computer tape. Call 916/324-1262 for information.

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I Owner									
Name (Corporation Individual or Pr Harbert Tran		on, Inc.						1	
Street Address 93 Jackson S	Street Address 93 Jackson Street							State CA	94544
II Facility					***····	P-11-2-1		····	· · · · · · · · · · · · · · · · · · ·
Facility Name Harbert Tran	sportati	on Servi	ce Facil	lity		nan/Supervisor Worth:	ingto	n G	en . Mgr.
Sireer Address 19984 Meekla							Nearest	Cross Street	011 6 11261 6
City Hayward			——————————————————————————————————————			County Alame		22011	ZIP O A E A 4
Mailing Address	+	•			City		ua	State	94541 ZIP
93 Jackson S Phone w/area code	treet		Type of Business		Наума		Tompos	CA	94544
(415) 889-72		Township	□ or Motor		l Station	Other:			eet Serv.
Aumber of Tanks at this vac may	Rural Areas Only:	Township		Range			Section		
III 24 Hour Emerge		Person							
Jack E. Wort		(415) 89	9-7200			rthing		415)	471-3118
COM	PLETE THE	FOLLOWING	G ON A SE	EPARATE	FORM	FOR EACH	1 CONT	AINER	
IV Description									
A. 20 or Tank 🗆 02 Sum	p □∞ Lagoo	n, Pit or Pond	□ ₀₄ Other			Co.	ntainer Numb	iallo	s no number assign one) n #1
B. Manufacturer (if app	ropriate) unk	nown Ye	ear of Mfg		С	Year Installe	ed		Unknown
D. Container Capacity:	4000 gallor	ns 🗆 Unknown	E Contain	er Repairs	<b>挡</b> a None	e □ ω Unkr	nown 🗆	ຫ Yes	Year
F. Is Container currently	/ used? E∰	Yes □ ∞ No t	f No. year of	last use					_ □ ₀₃ Unknown
G. Does the Container	Store (Check C	One) □ ⊕ Was	te ŽŠw Prod	uct					
H Does the Container	Store Motor Ve	hicle Fuel or Wa	iste Oil? 🏝	on Yes □ ·	No If	Yes, Check	appropria	ate box(e	es)
X⊡ oi Unleaded □ o2	Regular □ 03	Premium 🗆 04	Diesel □ 05	Waste Oil	□ 16 Othe	er (List)			
V Container Constr	uction								<del></del>
A Thickness of Primary	/ Containment		Gauge □ In	iches 🛚 ci	n 🖾 un	known			· · · · · · · · · · · · · · · · · · ·
B □ or Vaulted (Locate	d i <b>n an</b> undergi	round Vault)	🗶 02 Non-va	ulted 🗅	⊪ Unknov	vn			
C. □ or Double Walled	🗖 🛭 Single	Walled 🗆 03	Lined 🗓 0	4 Wrapped	Ø≸es U	nknown	□ ∞ None	)	
D. 🗆 os Carbon Steel	□ oz Stainless	Steel 🗆 🗅 os F	berglass	□ ⊶ Polyvi	nyl Chlori	de □ ⊕ C	Concrete	□ o6 /	Aluminum
□ or Steel Clad □	l oa Bronze	□	□ い Non	-metallic	D nE	arthen Walls			
X□ 12 Unknown □	13 Other								
E. 🗆 or Rubber Lined	□ o₂ Alkyd Lir	ning 🔲 ⊕ Epo	oxy Lining	□ ∞ Pheno	olic Lini <b>n</b> g	□ o5 Gla	ss Lining		Clay Lining
🗖 o² Unlined 🛮 🛣 👊	Unknown [	D ⇔ Other						e e	
F □ o₁ Polyethlene Wra	p □	Wrapping D	∃ a₁ Cathodic	Protection	 - <b>Д</b> 61 U	nknown l	□ v None	·	· Other

A. Associated Piping:	□ or Above Gr	ound 🌠 o₂ Ur	nderground 🗆 🛭 03 Vaulted	
B. Underground Piping:	□ or Gravity	□ o₂ Pressure	Suction □ 04 Unknown	
C. Piping Repairs:	⊠oi None	□ ₀₂ Unknown	☐ 03 Yes, Year of most recent repair: _	
VII Leak Detection			***************************************	
☐ or Visual	nitoring Wells [	⊒ ∞ Tile Drain ⊒ ∞ Pressure Tes		
VIII Chemical Comp	osition of Mate	erials Currently	or Previously Stored in Undergrou	und Containers
currently previously	# (If known)	1	Chemical Do Not Use Commercial Name (Use additi	onal paper for more room)
□ o1 □ o2				
O1 G02				
O1 02				
□ 01 □ 02		<del> </del>		,
□ 01 □ 02	1 1 1 1 1			
01 02		<del></del>		
01 02	<del></del>			
Do1 Do2	<del></del>	<del>                                     </del>		
01 02		<del> </del>		
01 02	<del>-   -   -   -   -   -   -   -   -   -  </del>	]		
01 02	<del></del>	<del>                                     </del>		
O01 O2	<del>1-1-1-1-1-</del>	<del>                                     </del>		
must be responsible for the or ranking elected official or auth	d instructions before signed by 1) a prine verall operation of the horized representative.	ore signing cipal executive office the facility where the ve of a public ager	cer at the level of vice-president or by an author etank(s) are located 2) a general partner propincy the best of my knowledge, is true and correct	rietor, or 3) a principal executive offici
Signaturd				3.26.86
Jack E. Wor	thington		Tate General Mgr.	("47"5")" (889-7200
Send check to: Hazardous S  Person Filing Statement  Jack E. Wor		Statement, State W	ater Resources Control Board, P.O. Box 100, S  Phone w/area code  ( 415) 889-72	
For additional forms or n		call 916/324-120		
FOR STATE USE ONL	.ү	Accounting Number	County Number	

Date Received

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# Official Registration Form California Water Resources Could build Hazardous Substance Storage Statement



Who Must File: Each person storing hazardous substances in any underground container must file this form no later than July 1, 1984 (After October 1, 1984 and no later than January 1, 1985 for tapks used on farms).

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A1 Libing	
A. Associated Piping: ☐ on Above Ground ☑ ∞ Under	ground 🗆 🛭 🗪 Vaulled
B. Underground Piping: ☐ or Gravity ☐ oz Pressure 4	Suction Do Unknown
C. Piping Repairs: Zoi None 🗆 02 Unknown 🗆	03 Yes, Year of most recent repair:
VII Leak Detection	
☐ or Visual ☐ or Stock Inventory ☐ or Tile Drain ☐ or	Vapor Sniff Wells □ ∞ Sensor Instrument
☐ Ground Water Monitoring Wells ☐ or Pressure Test	☐ ∞ Internal Inspection ☐ ∞ None
🗆 10 Other;	
VIII Chemical Composition of Materials Currently or If you checked yes to IV-H you are not required to complete tr	Previously Stored in Underground Containers
	Themical Do Not Use Commercial Name (Use additional paper for more room)
01 00	
O1	
O1	,
······································	
s Container located on an Agricultural Farm?	No A
IX IMPORTANTI Read instructions before signing:	
	he level of vice-president or by an authorized representative. The representative is are located 2) a general partner proprietor, or 3) a principal executive office
anking elected official or authorized representative of a public agency. This form has been completed under the penalty of perjury and, to the be-	
Statute 2 M	Date
Jack E. Worthington	3.26.86   General Mgr. (1415) 889-7200
	(4.5) (6) (200
end check to: Hazardous Substance Storage Statement, State Water Re	sources Control Board, P.O. Box 100, Sacramento, CA 95801-0100
erson Filing Sistement	Phopo 4/15 5ode 8837200
Jack E. Worthington	(413) 889-7200
for additional forms or more information call 916/324-1262	
OR STATE USE ONLY  Number  As counting Number	
	County Number
Date Received Dis	' 1

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I Owner							
Name (Corporation Individual or Public Agency)					<del></del>		
Street Address			City	1-1		Stale	ZIP
II Facility					<del></del>		
Fac44y Name			Dealer/F	oreman/Superviso	OI		
Street Address						Nearest Cross Str	pet
City			· · · · · · · · · · · · · · · · · · ·	County			ZIP
Mailing Address		-	City			State	ZIP
Phone w/area code		Type of Business		······································			
Number of Tanks at this Facility   Buret Assault	ownship	□ or Motor Veh	T	n □ o₂ Oth	er	·	
Number of Tanks at this Facility 3 Rural Areas Only:	ownship		Range			Section	
III 24 Hour Emergency Contact P	erson						
Days Name (last name list) and Phone w/area code Jack E. Worthington (4	15) 889-	<b>-7</b> 200 Ja	os Name dast name	orthine	gton	(415)	471-3118
COMPLETE THE F	OLLOWING	G ON A SEPA	RATE FORM	I FOR EA	CH C	ONTAINE	R
IV Description							
A	Pit or Pond [	□ o4 Other			Contain	er Number pil ther	e no number assign one)
B. Manufacturer (if appropriate): unkn				C Year Inst	L	<del></del>	& Unknown
D. Container Capacity: 6000 gallons						· · · · · · · · · · · · · · · · · · ·	
F. ts Container currently used?		<del></del>				***************************************	□ ©3 Unknown
G Does the Container Store (Check One				**			- 13 03 011/11/04/1
H. Does the Container Store Motor Vehic	le Fuel or Was	ste Oil? 12 Ye	s Ll No	If Yes, Chr	ek anr	propriate box	(rec)
☐ or Unleaded Øo₂ Regular ☐ o₃ Pro							(65)
V Container Construction			10 011 27 47 47	TICH (EIGH)			
A Thickness of Primary Containment		Pauge Tilnches		nknown	<del></del>		
B. 🗆 🔞 Vaulted (Located in an undergrou		□ ∞ Non-vaulted		7		,	
C. ☐ or Double Walled ☐ 02 Single Wa				Unknown	Поб	None	
D. □ or Carbon Steel □ o₂ Starnless St	eel □ or Fi		Polyvinyl Chic		5 Conc		Aluminum
□ or Steel Clad □ ∞ Bronze □ c	Composite	□ « Non-met		Earthen Wa		icie 🗀 00	Addisordin
Ø12 Unknown □ 13 Other	•		Inic D II	Laitricii wa	113		
E. 🗆 or Rubber Lined 💮 oz Alkyd Lining		xy Lining □ □	Phenolic Linir		21005		Clauter
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Lesk Detection   De Visual	_						
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□ w Ground Water Monitoring Wells □ or Prossure Test □ or Internal Inspection □ or None  □ to Other:  VIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers    VIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers   VIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers   VIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers   VIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers   VIII Chemical Composition or Previously Stored in Underground Containers   Container Inc.   Container Inc.   Containers   Cont							
The collaboration of Materials Currently or Previously Stored in Underground Containers    YIII Chemical Composition of Materials Currently or Previously Stored in Underground Containers   YIII Chemical Year On the Composition that section	□ o₁ Visual 🗚 o₂	Stock Inventory	☐ ∞ Tile Drain	□ 04 Vapor Si	off Wells	□ øs Sensor f	nstrument
Container located on an Agricultural Farm?   Dev yes   No.	☐ ∞ Ground Water	Monitoring Wells	☐ or Pressure Tes	it 🗆 😅 Inter	nal Inspection	n □∞ No	ne
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Commission Profession Constructions and Construction of the constr	VIII Chemical Co	mposition of Mat es to IV-H you are no	erials Currently t required to comple	or Previous te this section	ly Stored in	Undergro	und Containers
Got		CAS # (if known)		Chemical Do N	of Use Commercia	l Name (Use add	tional paper for more room)
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Container located on an Agricultural Farm? On Yes On No  K IMPORTANTI Read instructions before signing  parture: The form must be signed by 1) a principal executive officer at the level of yes—profested to by an authorized representative. The representative to responsible for the overall operation of the facility where the tank(s) are located 2) a general particle proprietor or 3) a principal executive of king level and closed or authorized representative of a public again, and so the best of my knowledge is true and correct  So yes the control board of the facility where the tank(s) are located 2) a general particle proprietor or 3) a principal executive of knowledge is true and correct  So yes the control board of the facility where the tank (s) are located 2) a general particle proprietor or 3) a principal executive of knowledge is true and correct  So yes the control board of the penalty of perjury and, to the best of my knowledge is true and correct  So yes the control board PO Box 100, Sacramento, CA 95801-0100  The particle of the penalty of perjury and to the best of my knowledge is true and correct  So fang Saugment  Jack E. Worthington  Proprietor of the penalty of perjury and to the best of my knowledge is true and correct  Proprietor of the penalty of perjury and to the best of my knowledge is true and correct  So fang Saugment  Jack E. Worthington  Proprietor of the penalty of penalty of penalty and the penalty of penalty are penalty of penalty and the penalty of penalty are penalty of penalty and the penalty of penalty are penalty of penalty and the penalty of penalty and t	O1 02	1 1 1 1 1					**************************************
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# Official Registration Form California Water Resources Contr Hazardous Substance Storage Statement



Who Must File: Each person storing hazardous substances in any underground container must file this form no later than July 1, 1984 (After October 1, 1984 and no later than January 1, 1985 for tanks used on farms)

Definition of Underground Containers: The law applies to "concrete sumps, nonvaulted buried tanks or other underground containers" (Water Code section 13173) All containers, including earthen walled pits ponds lagoons and sumps, that are below the normal ground surface level must register. A tank sitting on the ground is not included. Containers partially beneath the surface are included. Lined or unlined pits, ponds and lagoons are covered if earth has been removed from the storage area to construct the facility. Normal grading is not considered construction below ground level.

Definition of Hazerdous Substance: Any substance listed in Section 6382 of the Labor Code or in Section 25316 of the Health and Safety Code This includes: gasoline, diesel fuel, all industrial solvents, pesticides, herbicides and furnigants if the material must be carried by a registered hauler, disposed of at a hazardous waste site, is explosive, generates pressure due to heat or decomposition or would harm humans or wildlife you must register

the tank. Wastes are included

Fee: For each tank registered a \$10 fee must be paid, except that retail gasoline stations pay \$5 per tank

Penalties: For failure to file, the penalty is \$500-\$5,000 per day. If you faisify information, you can be fined up to \$20,000 for each day the information is incorrect and has not been corrected.

Confidentiality: If you have information protected by trade secret laws, please attach a list of the information on this form that is confidential and the justification for confidentiality, including specific citations of relevant statutory and case law

Multiple Containers: Fill I and II on one form and leave it blank on all the remaining forms. Attach all forms together securely. If you own more than 50 tanks you can file information on computer tape. Call 916/324-1262 for information.

This is not a Permit Application. All Underground Tanks will be subject to tocal regulation. Some jurisdictions have already begun programs. Check with your local county government for further information.

## NOTE: ALL UNDERGROUND CONTAINERS MUST REGISTER EVEN IF STATE AND/OR LOCAL PERMITS ARE IN FORCE.

I Owner			
Name (Corporation Individual or Public Agency)			
Street Address	Спу	State	ZiP
II Facility		1	<u></u>
Facility Name	Dealer/Foreman/Supervisor		
Street Address		Nearest Cross St	irget
City	County		ZIP
Mailing Address	( ity	State	ZIP
Phone w/area code Type of Business			
<del></del>	e Fuel Station 🔲 😡 Other	Section	
Only:			
III 24 Hour Emergency Contact Person  Days Name (last name first) and Phone w/area code  Name (last name first) and Phone w/area code	Nami (la 2 o etic first) and Phoras w are	i code	
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COMPLETE THE FOLLOWING ON A SEPARA	ATE FORM FOR EACH	CONTAIN	ER
IV Description			
A. № Tank □ 97 Sump □ 93 Lagoon, Pit or Pond □ 94 Other	Cor	H H	ick is no norther assign one)
B. Manufacturer (if appropriate) ປນ ແລວພາວ Year of Mfg	C Year Installe	d	DUnknown
D. Container Capacity. 300 gallons D Unknown E Container Rep	airs ⊠ None ⊟ ⊍ Unkr	own □ o+ Yes	S Year
F is Container currently used? ☑ vi Yes □ ∞ No if No, year of last us	е .		□ ↔ Unknown
G Does the Container Store (Check One) 12 Waste 🖂 Product			
H Does the Container Store Motor Vehicle Fuel or Waste Oil? Very Yes	□ . No If Yes Check	appropriate bo	ox(es)
□ or Unleaded □ o₂ Regular □ o₁ Premium □ □ □ Diesel ☑ o Waste	Oil 🗆 = Other (List)		
V Container Construction			
A Thickness of Primary Containment	□ cm <b>⊠</b> Unknown	***************************************	. <del> </del>
B. ☐ or Vaulted (Located in an underground Vault ) ☐ ∞ Non-vaulted	<b>∀</b> a∗ Unknown	***************************************	
C. ☐ or Double Walled ☐ or Single Walled ☐ ura Lined ☐ or Wrap	ped <b>Ç</b> ∞ Unknown (	⊒ c6 None	
D. □ o Carbon Steel □ ∞ Stainless Steel □ ∞ Fiberglass □ ∞ P	tolyvinyl Chloride □ os C	oncrete 🗆	∞ Aluminum
☐ or Steel Clad ☐ ∞ Bronze ☐ ∞ Composite ☐ ○ Non-metall	ic — □ → Earthen Walls		
☑ 19 Unknown ☐ 19 Other		-	
E □ or Rubber Lined □ or Alkyd Lining □ □ + Epoxy Lining □ + F	Phenolic Lining - 🗀 🖦 Gla	ss Lining = E	∃ - Clay Lining
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B. Under	ground Pip	ing:	01	Grav	vity	(	☐ 02	Pre	SSI	ıre	□ o₃ Suct	ion	□ 04	Unknown	··		······································
C. Piping	Repairs:		<b>1</b> 01	Non	е е		02 L	Inkr	IOW	'n	□ o3 Yes, `	Year	of mos	t recent repair			
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