

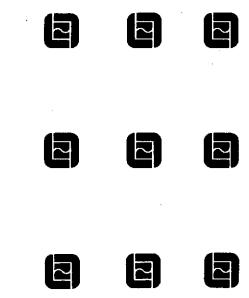


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ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

Letter of Transmittal] The company of the	Date anguacia:aaaaaaaaaaaaa
From Jenife-Beatty	Project No.	1649.08
To Susan Hugo	Subject	ndgastabbatabatabatabatabatabatabatabat in in indaposabitabatabatabatabatabatabatabatabatabat
So Swan Way # 200 Oakland, California 94621	*******************************	
The following items are: Requested	Enclosed	Sent separately
Description Tank Removal Report, Bas Letter Concerning Bay Area	Mand Propert	No. of Copies
For	our request your approval your review	For your action For your files For your information
Comments I have enclosed one add. Bashland tank removed	report for	your reviews
I have additionally ent letter written by Mr. Development Corporation Area Warehouse tank ren	Dur Marini Concerning	
d look forward to talking return from your vacat	ny to you i	her you

1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Fax (510) 652-2246



Tank Removal Report
Bashland Property
4015 Hollis Street, Emeryville, California

June 24, 1992 1649.08

Prepared for:

Catellus Development Corporation 201 Mission Street San Francisco, California 94105



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June 24, 1992

LF 1649.08

Ms. Susan Hugo Senior Hazardous Materials Specialist Division of Hazardous Materials Department of Environmental Health Alameda County Health Care Services Agency 80 Swan Way, Room 350 Oakland, California 94621

Subject: Tank Removal Report, Bashland Property

4015 Hollis Street, Emeryville, California

Dear Ms. Hugo:

The enclosed report, which was prepared by Levine Fricke on behalf of the Catellus Development Corporation, describes activities conducted to remove three underground fuel storage tanks from the Bashland Property in Emeryville, California. The report describes tank removal and disposal, excavation and backfilling, and soil sampling and disposal. Analytical results of the collected soil samples also are presented.

If you have any questions or comments, please call either of the undersigned or Amanda Spencer.

Sincerely,

Michael Stoll Senior Staff Engineer

Enclosure

cc: Mr. Lester Feldman, RWQCB

Thomas M. Johnson, R.G. Vice President and Principal Hydrogeologist

> 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500 Fax (510) 652-2246



LEVINE-FRICKE ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

June 24, 1992

LF 1649.08

Mr. Don Marini Catellus Development Corporation 201 Mission Street, Suite 202 San Francisco, California 94105

Subject: Tank Removal Report, Bashland Property

4015 Hollis Street, Emeryville, California

Dear Mr. Marini:

The enclosed report describes activities conducted at the Bashland Property in Emeryville, California, to remove three underground fuel storage tanks, including tank removal and disposal, soil excavation, excavation backfilling, soil disposal, soil sampling, and laboratory analysis results.

We have submitted this report to the Regional Water Quality Control Board - San Francisco Bay Region and the Alameda County Health Care Services Agency.

If you have any questions or comments, please call either of the undersigned or Amanda Spencer.

Sincerely,

Michael Stoll Senior Staff Engineer

Senior Staff Englheel

Thomas M. Johnson, R.G. Vice President and

Principal Hydrogeologist

Enclosure

cc: Mr. Peter Turner, Landels, Ripley & Diamond

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4	Field Density Testing Areas

June 24, 1992

LF 1649.08

TANK REMOVAL REPORT BASHLAND PROPERTY 4015 HOLLIS STREET, EMERYVILLE, CALIFORNIA

1.0 INTRODUCTION

This report describes estivities conducted to remove three underground storage tanks (USTs) from the Bashland Property, 4018 Live Freet, Emeryville, California ("the SIte"; Figures 1 and 2). The Site is adjacent to the Ward Bucha Project Site, which is owned by Catellus Development Corporation ("Catellus"). It is our understanding that the Site currently is under the management of the City of Emeryville and that Catellus is removing the tanks on the City's but of. This report is submitted to the Alameda County Health Care Services Agency Department of Environmental Health (ACHA) and the Regional Water Quality Control Board - San Francisco Bay Region (RWCQB) by Levine Fricke, Inc. ("Levine Fricke") on behalf of Catellus.

Organization of this Report

Between March 27 and Tay 1992, canada March Lan-capacity oil and two 12 000 gallon capacity first USTs were removed from the Site under permits from the City of Emeryville (permit number B-4278-492), the Emeryville Fire Department (EFD), and the ACHA. Field procedures used during tank removal are described in Section 2.0. During the course of this work, soil samples were collected and analyzed, and results of these analyses are discussed in Section 3.0. Additionally, approximately 2000 and the Section 3.0. Additionally, approximately 2000 and the Section 3.0. Additionally, sockfill soil was excavated and subsequently stockpiled on another portion of the Site; the state are discussed in Section 4.0. Section 5.0 evaluates the section 6.0 summarizes the tapk removed of the section 5.0 evaluates the section 6.0 summarizes the tapk removed of the section 5.0 provides recommendations concerning future site work.

2.0 FIELD ACTIVITIES

Excavation, tank removal, and backfilling activities were performed by Proposition Inc., of San Jose, California, on March 25 through May 201602. Before the tanks were

removed, permits were obtained for this work from the City of Emeryville, the EFD, and the ACHA. Copies of these permits are included in Appendix A. A Levine Fricke field engineer was on site to observe tank removal and soil excavation activities and to collect soil and ground-water samples from the tank excavation.

Ms. Susan Hugo, Senior Hazardous Materials Specialist of the ACHA, Mr. Ron Owcarz, Hazardous Materials Specialist with the ACHA, and a representative of the EFD were on site to observe tank removal and soil sampling activities. The ACHA Hazardous Materials Inspection form is included in Appendix A.

2.1 Tank Stabilization and Tank Contents Disposal

The tanks were rendered inert by removing the fluid remaining in them and inserting dry ice to remove organic vapors and oxygen. Explosivity meter readings were taken from the three tanks. The tanks were removed on April 7, 1992 after Lower Explosivity Limit (LEL) meter readings were below 10 percent at least one hour after dry ice had been inserted.

Residual oil contained in the 1 200 mallen capacity with tank was pumped into a vacuum truck by Evergreen Oil Recycling of Newark, California, and transported to its recycling facility on April 7, 1992. Because the oil is not hazardous waste, a manifest form was not required for its transportation.

Residual fluids (a mixture of fuel and water) contained in the 12,000-gallon-capacity fuel tanks were pumped into a vacuum truck by H & H Ship Service Company (H & H) of San Francisco, California, and transported to its recycling facility on April 7, 1992. The manifest for transporting these residual fluids from the 12,000-gallon-capacity tanks is presented in Appendix A.

2.2 Tank Inspection and Field Observations

Visual observations of sediment types encountered and the possible presence of petroleum in soils in the excavation were made by a Levine-Fricke field engineer during tank removal activities.

The former tank locations and excavation boundary are shown on Figure 3. A 2.5-inch-thick asphalt surface covered the UST area, and a 6-inch-thick concrete pad covered the pump and the dispenser island areas. The tops of the tanks were approximately 4 feet below grade (bg). The tank diameters were 3.5 feet (1,200-gallon-capacity tank) and 8 feet

(12,000-gallon-capacity tanks). The bottom of the 1,200-gallon-capacity tank was at approximately 7.5 feet bg and the bottoms of the two 12,000-gallon-capacity tanks were at approximately 12 feet bg. The tanks were positioned end-to-end and separated by approximately 3 feet. Appurtenant piping attached to the tanks included fill pipes, vent pipes, and product pipes.

After the tanks had been emptied and removed, they were visually inspected. The three banks were constructed of tar scated steel with welded seams. The westernmost 12,000-gallon-capacity tank appeared in good condition with no evidence of leakage or holes. Later visual inspection at the H & H facility found there to be provided (approximately 1/4-inch diameter) in the top of the tank: It could not be determined as to whether the hole was a result of corrosion or a result of damage during removal or transportation. The easternmost 12,000 garion capacity to a light of corrosion, and several holes (up to approximately 3/8 Inch in diameter) were observed at the time of removal. The 1,200gallon-capacity tank, which contained two compartments within the tank (one 400-gallon-capacity and one 800-galloncapacity), was situated between the 12,000-gallon-capacity Holes (up to approximately 3/8 inch in diameter) and pitting were observed in both compartments of the 1,200-gallon capacity tank at the time of removal.

Native sediments surrounding the tank backfill materials consisted of tan to brown silty sandy clay. Visual inspection and organic vapor measurements of these soils, collected using a field photoionization detector (PID) after removal of the tanks, did not indicate the presence of petroleum hydrocarbons in native soils adjacent to the tank excavation.

Ground water was encountered in the tank excavation at approximately 10 feet by. The bottoms of the 12,000-gallon-capacity tanks were situated on native tan to be said the sandy clay beneath the ground-water table.

2.3 Soil Excavation

Tank backfill soils were excavated using a Case 980B excavator. During excavation, soils were monitored using a field PID and through visual observation. Visual observations and field PID measurements indicated that excavated backfill materials (green to brown sand), formerly located beside and above the tanks, did not contain significant concentrations of volatile petroleum products. Visual observations of backfill material beneath the former 1,200-gallon-capacity tank

indicated the possible presence of product. As discussed in Section 3.1, soil samples were collected from beneath the 1,200-gallon-capacity tank, and chemical analysis results indicated the presence of the in the soil at concentrations up to 1,500 parts and beneath the 1,200-gallon-capacity tank and beneath the 1,200-gallon-capacity tank and the soil at the capacity tank and the soil at the capacity tank and the soil at th

2.4 Tank Disposal

The three tanks and appurtenant piping were transported under hazardous waste manifest by H & H to its receiving facility in San Francisco, California. Copies of the manifests and Certificates of Disposal are included in Appendix A.

2.5 Soil Sampling Locations

Soil samples were collected at selected locations approved by ACHA staff from the excavation sidewalls and bottom to assess the presence of residual petroleum hydrocarbon concentrations, if any. Soil sampling locations are illustrated on Figure 3. Soil samples were not collected from the northern excavation wall due to the presence of a retaining wall and unstable sand backfill beneath this wall. The excavation was not considered stable enough for entry to manually collect a sample and the contractor could not collect a soil sample using the excavator without damaging the retaining wall.

Two sail samples were collected from backfill sediments beneath the former ends of the transfer capacity tank (B/C-4-W-8 and B/C-5-E-8). Six sail samples were collected from the excavation sidewers (AEW-1-W-9, AEW-2-S-9, AEW-3-S-9, DEW-6-W-9, DEW-7-S-9, and DEW-8-E-9). An additional soil sample was collected from beneath the impenser island

2.6 Soil Sampling Procedures

Soil samples were collected from the floor of the excavation by driving a clean brass tube into the backfill material. Excavation sidewall soil samples of native soils were collected in clean brass tubes from the bucket of the excavator. The soil samples were labeled, capped with aluminum foil and plastic caps, and sealed with duct tape. Samples were stored in a chilled container and transported for analysis to Quanteq Laboratories in Pleasant Hill, California, a State-certified laboratory. Samples were transported under chain-of-custody protocol.

2.7 Ground-Water Sampling

As discussed in Section 2.2, ground water was encountered beneath the two larger tanks at the time of removal. The bottom of the excavation of the former 1,200-gallon-capacity tank was approximately 8 feet bg (2 feet above the ground-water table) at the time of grab ground-water sampling on April 8, 1992. The soil beneath the former 1,200-gallon-capacity tank, which was excavated on April 27, 1992, acted to separate the ground water in the excavation into two ponded areas. Grab ground-water samples were collected from each of the two ponded areas. Before collecting the grab ground-water samples, ground water in the excavations was purged and allowed to recharge. The purged ground water was stored in a vacuum truck and transported by H & H to its recycling facility in San Francisco, California. A copy of the Hazardous Waste Manifest is included in Appendix A.

2.8 Excavation Backfilling

Chemical analysis results of soil samples collected from the conservations whereast he indicated have its product the first terms of the contract ter quantum problem of discoland apple to the land and the compounds (cheares) and yets results was disminstable in more detail in Section 3.0). Therefore, the tank excavation was backfilled on May and 7, 1992 (after receiving approval from ACHA staff), using 3/4inch drain rock and clean import fill material. Drain rock was placed in the bottom of the tank excavation to provide a stable base for compaction. Drain rock was placed to one foot above the ground-water table. A layer of geotextile comme waterplaced compacted drain rock. Fill, consisting of a brown clayey sand, was imported from the Colma Quarry in Colma, California. This fill material was placed in 8-inchthick uncompacted lifts and compacted using a steel sheepfooted compactor wheel attached to the excavator. Levine Fricke engineer was on site to observe backfilling operations and to test the degree of compaction attained in the field. The backfill was tested to meet 95 percent relative compaction using a nuclear density gauge. Laboratory compaction testing of the imported fill indicated 1000 personal fill indic age served in Table 1. Field density testing areas was

3.0 CHEMICAL ANALYSIS RESULTS

3.1 Tank Excavation Soils

In accordance with the ACHA permit for the tank removal, soil samples collected from the tank excavation sidewalls or floor were analyzed for total petroleum hydrocarbons (TIM) using modified EPA Method (TIM), for purgeable aromatics (Dense, talk the same and xylenes (DEEX)) using EPA Method 8020, and for total lead. Additionally, at the request of the ACHA, soil samples beneath the 1,200-gallon-capacity oil tank and the soil sample beneath the dispenser island also were analyzed to analyze the sample beneath the dispenser island also were analyzed to analyze the sample beneath the dispenser island also were analyzed to analyze the sample sample to the sample sample to the sample
Analysis results of exercitive sides all samples indicated the following:

- Frequency and break were not detected above laboratory detection limits in the soil samples collected from the excavation sidewalls.
- TPHd was not detected above laboratory detection limits in four of six said samples collected from the excavation sidewalls. The was detected at a concentration of milligrams per kilogram (mg/kg) in two of six soil samples collected from the excavation sidewalls.
- Total lead concentrations of the six soil samples collected from the excavation sidewalls were less than langua, which is well below California Environmental Protection Agency's (Cal-EPA) Total Threshold Limit Concentration (TTLC) of 1,000 mg/kg for hazardous waste.

Analysis results of excavation floor samples (collected beneath the 1,200-gallon-capacity tank; Section 2.5) indicated the following:

detection limits in the soil samples collected from the excavation floor.

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- TPHo was not detected above laboratory detection limits in one of two soil samples collected from the excavation floor. TPHO was detected at a consentration of 1 mg/kg in one excavation floor sample.
- Osc was detected at concentrations between 30 and 1,300 mg/kg in excavation floor samples.
- TPH was not detected above the laboratory detection limit in one excavation floor sample; TPH was detected at a concentration of laboratory in one excavation floor sample.
- Halogenated volatile organics were not detected above laboratory detection limits in the two excavation floor samples.
- Semivolatile organic compounds were not detected above the laboratory detection limits in the one excavation floor sample analyzed for these compounds.
- Cadmium, chromium, nickel, lead, and zinc concentrations of the two soil samples collected from the excavation floor were within expected tasks and tender and well below Cal-EPA TTLCs of the mg/kg 2 500 mg/kg. 2 500 mg/kg.
 Market Waste.

3.2 Excavation Ground Water

Grab ground-water samples were analyzed for TPH using modified EPA Method 8015 to detect TPHd, TPHo, and TPHg, for volatile organics using EPA Method 8240, and for O&G and TPH using EPA Method 5520 C and F. Chemical analysis results are summarized in Table 3, and copies of the laboratory certificates are included in Appendix B.

Analysis results indicated the following:

- TPHg, O&G, and TPH were not detected above laboratory detection limits in either of the ground-water samples.
- TPHd was detected at low concentrations in both water samples (1.2 and 0.5 milligrams per liter [mg/L]).
- TPHo was not detected above laboratory detection limits in the grab ground-water sample collected from beneath the former location of the westernmost 12,000-gallon-capacity

tank; it was detected at a concentration of the grab ground-water sample collected from benefits.

Low concentrations of cis-1,2 (less than 1,2-DCE) (less than 1,2-DCE) (less than 1,2-DCE) (less than 1,2-DCE) were detected in both water samples.

3.3 Dispenser Island Area

One soil sample, P-1-1.5, collected at a depth of 1.5 feet bg directly beneath the former dispenser island, did not contain TPHg, BTEX, halogenated volatile organics, or semivolatile organic compounds. The soil sample did contain low residual concentrations (2000), and TPH (5000), Concentrations (2000), and TPH (5000), Concentrations (2000), and Concentrations (2000), Concentrations (200

4.0 EXCAVATED SOIL STOCKPILE

The approximately the soul of excavated soil removed from the tank excavation were stockpiled an electing. Stockpile soil samples were collected for characterization purposes. Stockpile soil samples were analyzed for TPH using modified EPA Method 8020. Four stockpile soil samples were collected in clean brass tubes, labeled, capped with aluminum foil and plastic caps, sealed with duct tape, and stored in a chilled container for transportation to Precision Analytical Laboratory of Richmond, California, a state-certified laboratory. Samples were transported under chain-of-custody protocol. Chemical analysis results of stockpile soil samples indicated the following:

- TPHo, benzene, and ethylbenzene were not present above the laborator limits.
- three samples and was present at a concentration of in one sample.
- was not detected above laboratory detection limits in one sample and was present at concentrations up to the in three samples.
- · Tales was present at concentrations up to kg.

· were present at concentrations up to 107 mg/kg

Chemical analysis results are summarized in Table 2. Copies of laboratory certificates are included in Appendix B.

The excavated soils currently are stockpiled on the Yerba Buena Project Site. Based on the results of the chemical analyses of the stockpiled soil samples, indicating low to nondetected concentrations and the FEX, it is proposed that we soil be incorporated into the soil containment program at the Texas Buena Project Site.

5.0 EVALUATION OF RESULTS

Chemical analysis results for soil samples collected from the excavation sidewalls indicated low (Aman) to nondetected concentrations of petroleum product or associated constituents. Therefore, the tank excavation was backfilled upon the approval of the ACHA. Ground water was encountered at approximately lace during excavation activities. Analysis of grab ground-water samples collected from beneath the 12,000-gallon-capacity tanks detected low concentrations of the chlorinated solvents legality and the selections (less than 1990 my 2 miles 22 miles consider in both grab ground-water samples. Chlorinated solvents were not detected above laboratory detection limits in three soil samples analyzed for these compounds. It should be noted that **Manufacture** was detected in ground-water samples from well rormerly located approximately. the tanks at the Site, in February 1990 during a one-time sampling of that well (Levine Fricke 1990). (The well was abandoned in the Street and the court proceed in that area [Levine • Fricke 1991]). Additionally, chlorinated collected from the wall bore for well the Because neither TCE new 1.2-DCE were detected in soil samples from the tank' excession or the war detected in granted water upgradient from the tank excavation at the Charles when the contract of the spirite like it

6.0 SUMMARY AND CONCLUSIONS

Three USTs were removed and disposed by a licensed hazardous waste transportation company under a hazardous waste manifest. Inspection of the tanks after removal indicated that two of

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the tanks showed signs of corrosion (pitting and holes up to 3/8 inch in diameter), and one tank had a hole (approximately 1/4 inch in diameter) of unknown origin. Approximately 200 cubic yards of petroleum-affected soil were removed from the tank excavation.

Soil samples collected from the final excavation sidewalls indicated trace (2 mg/kg) to nondetectable concentrations of diesel and nondetectable concentrations of oil, gasoline, and BTEX. Grab ground-water samples collected from the bottom of the excavation indicated the presence of low concentrations of the excavation indicated the presence of low concentrations of the excavation indicated the presence of low concentrations of the excavation and the TCE and 1.2-DCE were not detected in ground water approval of the excavation and the TCE and 1,2-DCE detected in ground water approval of the excavation was backfilled with ACHA approval of May 6 and 7, 1992, and compacted to 95 percent

7.0 RECOMMENDATIONS

To evaluate the possible presence of petroleum in the vicinity of the retaining wall, it is recommended that soil samples be collected from beneath the retaining wall, along the northern edge of the tank excavation/property line, when the wall is removed from the Site during proposed site development. Additionally, as discussed in this report, holes were observed in at least two of the three tanks removed and grab groundwater samples collected from the bottom of the excavation indicated low concentrations of petroleum hydrocarbons (less Therefore, based on the RWQCB's than 0.5 mg/L). "Recommendations for Initial Evaluation and Investigation of Underground Tanks" (Tri-Regional Guidelines), dated June 2, 1988, it also is recommended that ground water in the vicifity of the excavation be investigated further, by installing and sampling one shallow ground-water monitoring well downgradient from the former tanks, to evaluate whether petroleum hydrocarbons are present in the ground water.

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REFERENCES

Levine Fricke, Inc. 1990. Phase I and II environmental investigation, Yerba Buena Project Site, Emeryville, California. October 26.

Buena Project Site, Emeryville and Oakland, California.
November 19.

TABLE 1 RESULTS OF FIELD DENSITY TESTS
BASHLAND PROPERTY, EMERYVILLE, CALIFORNIA

Date	Test Number	Sample ID	Location	Approximate Depth Below Final Grade (feet)	Dry Density (pcf)	Moisture Content (%)	% Relative Compaction*	Retest	Specified 3 Relative Compaction
06-May-92		BM	Middle	5.0	123.2	9.93	95		95
06-May-92	2 3	BM	East	4.0	128.3	10.37			95
6-May-92	3	BM	Middle	3.5	125.3	9.54	97		9 5
6-May-92		BM	West	3.0	129.1	9.67	99		95
6-May-92	5	8M	Middle	2.5	124.2	9.63	96		95
6-May-92	6	BM	West	2.0	121.7	11.48	. 94		9 5
6-May-92	7	BM	West	2.0	121.8	10.85	94	retest of #6	95
6-May-92	8	BM	West	2.0	127.7	9.72	98	retest of #7	9 5
7-May-92	9	ВМ	West	1.5	129.3	9.12	100		95
7-May-92	10	BM	East	1.0	115.0	11.27	89		95
7-May-92	11	BM	Middle	1.0	118.2	11.02	91		95
7-May-92	12	BM T	Niddle	1.0	127.5	8.39	98	retest of #11	95
7-May-92	13	BM	East	1.0	119.1	9.24	9 2	retest of #10	
7-May-92	14	BM	East	1.0	123.0	10.16	95	retest of #13	95
7-May-92	15	BM	West	0.5	121.6	8.27	94		95
7-May-92	16	BM	West	0.5	126.7	8.07	98	retest of #15	95
7-May-92	17	BM	Middle	0.0	126.4	8.41	97		95
7-May-92	18	BM	East	0.0	122.9	8.50	95		95

pcf = pounds per cubic foot
* - percent of maximum dry density

TABLE 2

SOIL CHEMICAL ANALYSIS RESULTS

APRIL 7, 1992

BASHLAND PROPERTY, EMERYVILLE, CALIFORNIA (All results expressed in milligrams per kilogram [mg/kg])

	EP/	A Method	8015			:=======	====================================			**=========	***********	::::::	*****	-===	(222:	*****
	TPH as	TPH as	TPH as		EPA M	ethod 802	:0	EPA Method 5520E	EPA Method 5520F	EPA Method	EPA Method					
Sample ID	0il	Diesel	Gasoline	Benzene	Toluene	Xylenes	Ethylbenzene	Oil and Grease	TPH	8010	8270	Cď	Cr	Ni	Pb	Zn
Excavation Sa	amples															
AEW-1-W-9 AEW-2-S-9 AEW-3-S-9 B/CEB-4-W-8* B/CEB-5-E-8* DEW-6-W-9 DEW-7-S-9 DEW-8-E-9 P-1-1.5	<5 <5 <5 <5 1,500 <5 <5 <5 86	<1 2 <1 <1 <1 2 <1 <1 8	<pre><0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2</pre>	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005	NA NA NA 20 1,300 NA NA NA	NA NA <10 1,200 NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA O.4 <0.2 NA NA NA O.3	NA NA 46 34 NA NA 47	NA NA 41 17 NA	8 8 11 10 9 11 10 9	NA NA 45 30 NA NA NA 30
Stockpile San	nples		-													
SP1 SP2 SP3 SP4	<50 <50 <50 <50	<10 (18) <10 <10	1.0 2.4 1.1 <1	<0.005 <0.005 <0.005 <0.005	0.009 0.018 0.012 0.013	0.036 0.107 0.092 0.097	<0.005 <0.005 <0.005 <0.005	NA NA NA NA	NA NA NA	NA 1 NA NA NA	NA NA: NA	NA NA NA	NA NA NA NA	NA NA NA	AR AR AR AR	KA NA NA

NOTES:

NA - Not analyzed ND - Not detected

TPH - Total Petroleum Hydrocarbons.

Excavation soil sample locations shown on Figure 3.

Soil samples analyzed by Quanteq Laboratory of Pleasant Hill, California and Precision Analytical Laboratory of Richmond, California, both state-certified laboratories.

See laboratory data sheets for EPA Method 8010 analytes.

See laboratory data sheets for EPA Method 8270 analytes and detection limits

^{* -} Soil beneath and adjacent to sampling location excavated and removed on April 27, 1992.

TABLE 3

WATER CHEMICAL ANALYSIS RESULTS BASHLAND PROPERTY, EMERYVILLE, CALIFORNIA APRIL 8, 1992

(all results expressed in milligrams per liter [mg/l])

********		**********			************	
	EPA Mo	dified Met	hod 8015		EPA Method	EPA Method 5520 F
Sample ID	TPK as Oil	TPH as Diesel	TPH as Gasolin e	EPA Nethod 624	5520 C Oil & Grease	Total Petroleum Hydrocarbons
AGW(1)	<0.1	1.2	<0.05	cis-1,2-Dichloroethene - 0.00 Trichloroethene - 0.01	•	<0.5
DGW(2)	0.4	0.3	<0.05	cis-1,2-Dichloroethene - 0.00 Trichloroethene - 0.02		<0.5

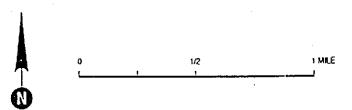
Notes:

AGW(1) - grab ground-water sample collected beneath former location of westernmost 12,000-gallon-capacity tank. DGW(2) - grab ground-water sample collected beneath former location easternmost 12,000-gallon-capacity tank.

Only detectable compounds are listed for EPA Method 624; see laboratory data sheets.

Ground-water sample analyzed by Quanteq Laboratories of Pleasant Hill, California, a state-certified laboratory.





MAP SOURCE: Alameda & Contra Costa Coundes, Thomas Bros. map, 1990 Edition

Figure 1: SITE LOCATION MAP

BASHLAND PROPERTY SITE

Project No. 1649.08

LEVINE-FRICKE ENGINEERS, HYDROGEOLOGISTS & APPLIED SCIENTISTS

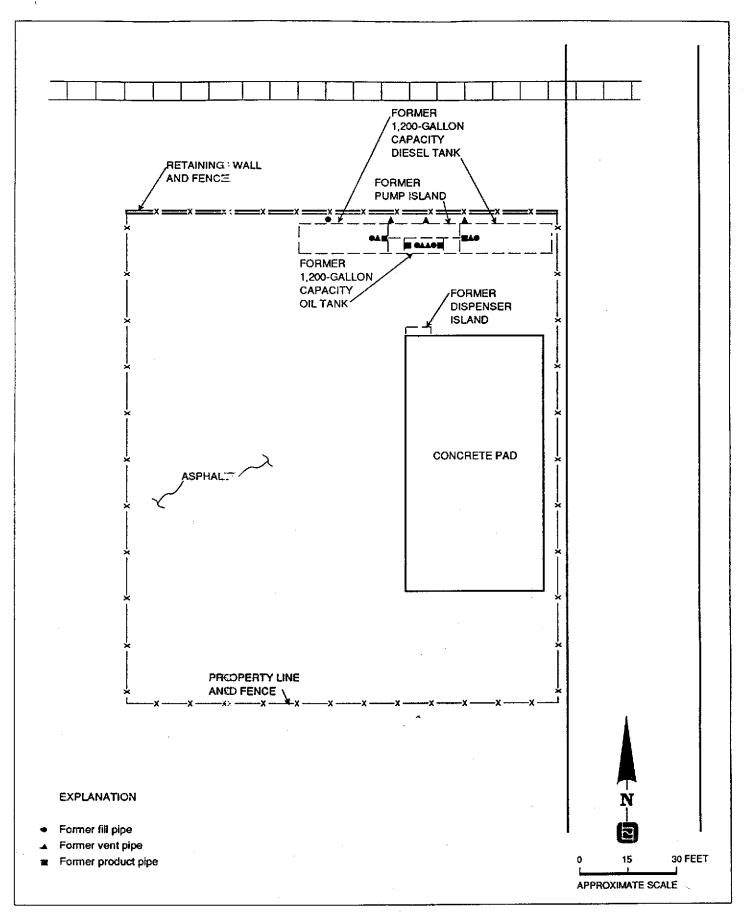


Figure 2: SITE PLAN AND TANK LOCATIONS

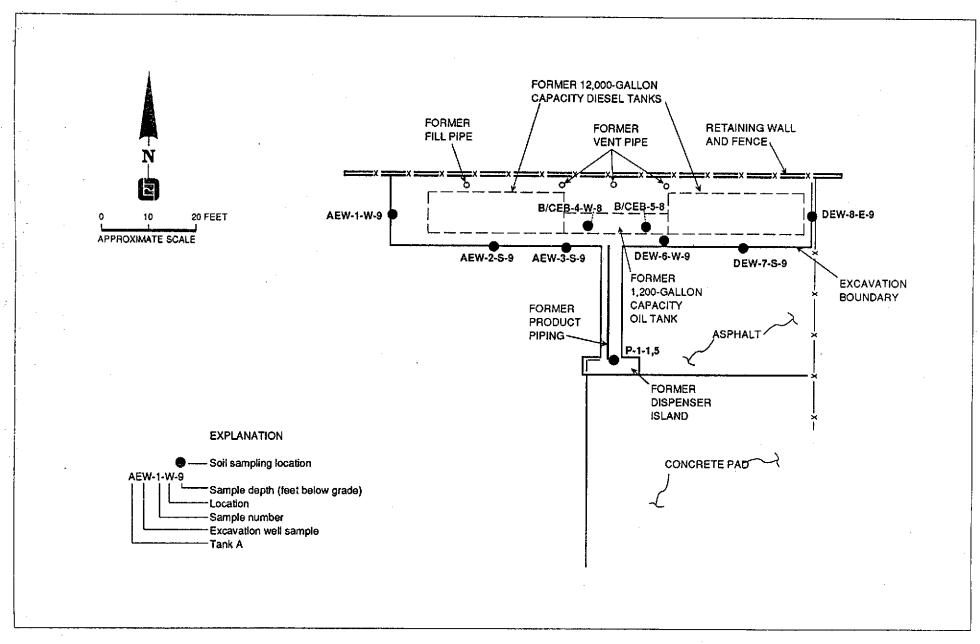


Figure 3: SITE PLAN SHOWING FORMER TANK AND SOIL SAMPLING LOCATIONS AND EXCAVATION BOUNDARIES

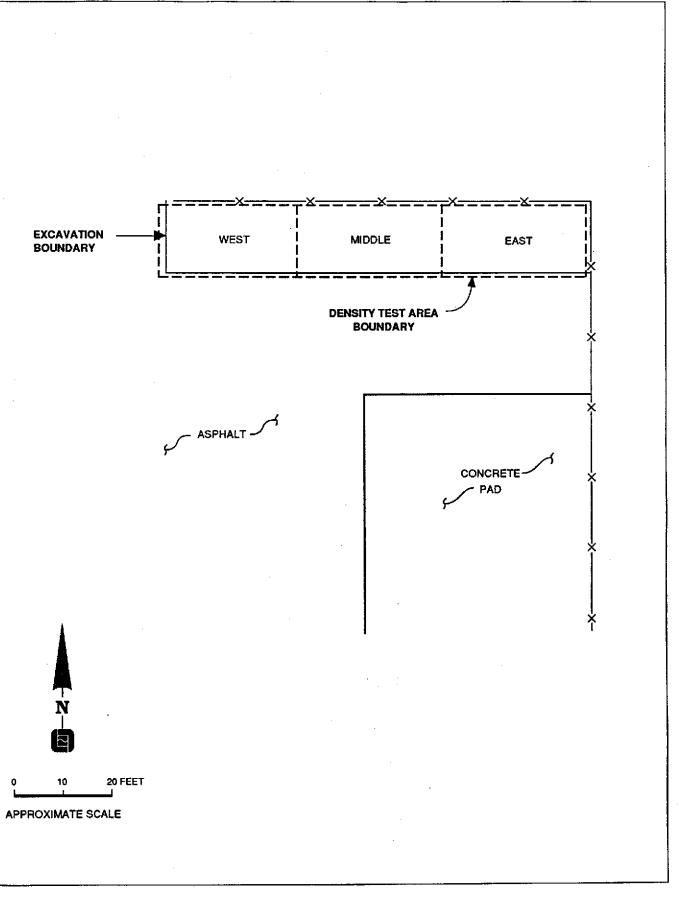


Figure 4: FIELD DENSITY TESTING AREAS

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School S.M.I.P.SB1374

ADDRESS

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGRES TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE PENALTY OF LAW! HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES. NOTICE! THIS PERMIT WILL EXPIRE BY LIMITATION IF WORK IS NOT STATIED WITHIN 180 DAYS OF IF WORK ABANDONED FOR MORE THAN 180 DAYS DO NOT CONCEAL OR COVER ANY CONSTITUTION OF THE WORK IS NOT STATIED WITHIN 180 DAYS OR IN CONCEAL OR COVER ANY CONSTITUTION OF THE WORK IS NOT STATIED WITHIN 180 DAYS OR IN CONCEAL OR COVER ANY CONSTITUTION OF THE WORK IS NESPECTED AND THE INSPECTION IS RECORDED ON THE PROPERTY OF THE WORK IS NESPECTED AND THE INSPECTION IS RECORDED ON THE PROPERTY OF THE

imployees and agents against all liabilities, judgments, casts and experies which may accurate the City in consequence of the granting of this permit or from the use or occupancy of any sidewalk, street or subsidewalk, or otherwise by virtue thereof, and will in all things strictly approximately the conditions under which this profit is granted.

Seriops with the conditions under which this perfeit is granted.

I Contractor

Sproyel of Contractor Shreet or Agent

Agent for Gonfractor Owner

Address of Agent

	. 200	- 1		TELEPHONE
 				1. Sec. 12.

CITY

			#
APPLICATION FOR PERMIT TO C	PERATE, MAINTAIN OR S	TORE	
Make check payable to:	CITY OF EMERYVILLE		F.P.B. Permit No
Mail to: 596-3750 PHONE: 339 006709K	Emeryville Fire Department Fire Prevention Bureau 6303 Hollis Street Emeryville, CA 94608		Due Date:X Original X Renewal
maintain Remove UG tank(s swift) Swift Suant to Section 4.108 Dication made by: Trumph Blos Pation: 7 4015 Hollis St	of uniform Fire Code 1988 (INC. Peet Alliens 8.1 Thone #_408 192	sembly	Date: Fee: \$ Cash Ck. No Receipt No Received by:
upancy Group? Other Occup or to be Used: Area to be Used? DING: Height Stories, ft. Type Location-Exterior Wall Openings?	eancies in Bullding?sq. ft. Previous Occupa	ancy? Is there a	basement?
Is there 20 sq. ft. of Opening In every 50' on one	•		
Distance from Property Line on North?			·
S: Number? Total Width?	How far Apart? Do Ex	its Lead to Street?	<u> </u>
Number of Exits from Hazardous Area (over 200 Do Doors Swing Out?Exit Sign Number of Stairways?Width?_ Exterior Stairway or Fire Escape?WHICH) PROTECTION: Standpipes: Wet? Number and Type of Extinguishers? Other Fire Protection?Is if	Open or Enclose Where Located? Dry? Sprinklers?	ed?ed? Distance from Street	?
E OF INSPECTION: MARKS: Filing fee= \$35.00/Hour FDVrequires a minimum of 48-	-hours notice prio	r to remova	1/Coordination
Alameda County Dept of Healt			
	Signed	5.05	No

white -env.healih yellow -facility pink -files

A BUSINESS PLANS (Title 19) _____ 1. Immediate Reporting _____ 2. Bus. Plan Stds.

3. RR Can > 30 days 4. Inventory information

__ 5. Inventory Complete 6. Emergency Response
7. Training

10. Registration Form Filed 11. Form Complete 12. RMPP Contents

16. Persons Responsible

H. UNDERGROUND TANKS (Title 23) 1. Permit Application

____ 2. Pipeline Leak Defection

___ 3. Records Maintenance 4. Release Report

5. Closure Plans 6. Method 1) Monthly Test 2) Daily Vadose Semi-crinual gridwater One time sols 3) Daily Vadose One time soils Annual track test 4) Monthly Gnowater One time sols 5) Daily inventory Annual tank testing

6/88

17. Certification 18. Exemption Request? (Y/N) 19. Trade Secret Requested?

13. Implement Sch. Reg'd? (Y/N) 14, OffSite Conseq. Assess. 15. Probable Risk Assessment

8. Deficiency 9. Modification

B ACUTELY HAZ MATLS

2703 25503(ъ) 25503.7 25504(a)

2730

25504(b) 25504(c) 25505(a)

25505(b)

25533(d) 25533(b)

25534(c)

25524(c) 25534(d)

25534(g) 25534(1) 25536(b)

25284 (H&S)

25292 (H&S) 2712

2651

25538

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

		·	
Uazardone	Materiale	<u>Inspection</u>	Earm
nuzuluvus	Maidiai	1113DECTION	TUUL

Site Site BASHLAND Today's 7,92
Site Address 40/5 Hollis Street
City & mery ville zip 94608 Phone
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories: 1. Haz. Mat/Waste GENERATOR/TRANSPORTER 1. Business Plans, Acute Hazardous Materials 1. III. Underground Tanks 1. 12:45 P.M.
Callif, Administration Code (CAC) or the Health & Safety Code (HS&C) Callif, Administration Code (CAC) or the Health & Safety Code (HS&C)
comments: HEH-Hoz Wash Hawler # 300 935 loxp 1/9 3-Underground Storage Janks
2 contagnets DIESEL
1/1/1/ E
* 25
VACANT Z
7
36
\$ 40th Sheet
1200 Gal Tank - obvious conscion, holes
found on Side of tank.
31. In LELGO2, Sal underneall the
tank har obvious contamination, black
& Strong petroleum HC odor

Contriples leak det Vadase/gndwaterman. 6) Daily Inventory Annual tank testing Contriples leak det 7) Weekly Tank Gauge Annual tank Isting 8) Annual Tank Testing Daily Inventory 9) Other		75 7	407L	Street	
7. Precis Tank Test Date:	2643 2644 2646 2647	1200 Gal Tan	k - obvious Side of to	consion	, holes
11.Monitor Plan 12.Access. Secure 13.Plans Submit 	2632 2634 2711 2635	3% for tank he Estrong po	LELGOZ, an obsione Co. Uroleum H	réancements	or, block
Contact: Title: _ Signature:		e) Stoll tall Engineer	Inspector: Signature:	Just	II, III

white -env.health yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF **ENVIRONMENTAL HEALTH**

80 Swan Way, #200 Oakland, CA 94621

Hazardous Materials Inspection Form

(415) 271-4320

	1.1	
		Site Site Name BASHLAND Today's 7,92
LA BUSINESS PLANS (Title 19)	-	
1. Immediate Reporting 2. Bus. Plan Stds.	2703 25503(b)	Site Address 4015 HOLLIS STREE!
3. RR Can > 30 days 4. Inventory Information	25503.7 25504(a) 2730	City Energy//c zip 94608 Phone
5, inventory Complete 6. Emergency Response 7. Training	25504(b) 25504(c)	
5. Deficiency 7. Modification	25505(c) 25505(b)	MAX-AMT stored > 500 lbs, 55 gal., 200 cft.?
- Andanasio	,	inspection Categories:
B ACUTELY HAZ. MATLS		I. Haz. Mat/Waste GENERATOR/TRANSPORTER(II. Business Plans. Acute Hazardous Materials
10. Registration Form Filed 11. Form Complete	25533(a) 25533(b)	III. Underground Tanks
12. RMPP Contents 13. Implement Sch. Regid? (Y/I		
14. OffSite Conseq. Assess. 15. Probable Risk Assessment	25524(c) 25534(d)	* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
16. Persons Responsible 17. Certification 18. Examption Request? (Y/N)	25534(g) 25534(l) 25536(b)	
19. Trade Secret Requested?	25538	Comments:
		H 12 - C 11 to A (distract)
ISI. UNDERGROUND TANKS (TIH	e 23)	10 /2/000 Galler Tare (areses)
1. Permit Application 2. Pipeline Leak Detection	25284 (H&S) 25292 (H&S)	LEL E, 02 = 3%.
3. Records Maintenance 4. Release Report	2712 2651	Grandwater gresent - former frown Sh
5. Closure Plans	2670	Tund has Slight conveione no obvious
6. Method 1) Monthly Test 2) Daily Vadose		Lales Pums groundwater & let it
Semi-annual gnawater Che fime sols		See Soil Sample
3) Daily Vadose One time sols	Car lan	141) a 14 th of the strate. I say strate
Annual tank test 4) Monthly Gnawater	(2 endgr	tody collected at the soil groundwaler interface
One fitne sols 5) Dolly inventory		manifel # 1/5/1/4/ for tank 1/80
Avrual tank testing Contribbe leak det	. *	12000 (rollon york (gardline)
Vadase/gnawatermon, 6) Daily Inventory		LEL-1.0% D2-815/1
Annual tank testing Contribute leak det 7) Weekly Tank Gauge		Dequalitate and I - Sources brown
3: Annual tank testing 6) Annual Tank Testing		16 to the the that
Daily Inventory 9) Other		Beile fresh in the rank in forcing
7. Precis Tank Test	2643	2 Sail sangele calleted at soil grow buter in turkel (In
Date:	2044	118,H - 200739 (EXP. 1/93)
9. Soil Testing. 10. Ground Water.	2646 2647	man lent # 415/1/40
11.Monftor Plan	2632	
12.Access. Secure 13.Plans Submit 2 Date:	2634 2711	Hockailed Sail must be alla actuirelle
14. As Built Date:	2635	And all the transfer
lev 6/88		crucia ura Vigania.
·	•	Excavation set must be Recured.
		1 Riving trench Sty Strongle Collection
Contact:	Michae	12011 an onsporter.
Title:	<u> Sono-</u>	Skill France Inspector:
Signature:	-7Mu	but Stoop Signature: Susan & Hugo

e pint or type. Form designed for use on eite (12-pitch typewriter).	See instruction	s on bac	c of bo	ige 6.	Toxic Substances Control Program
UNIFORM HAZARDOUS 1. Generators US WASTE MANIFEST CLAUD 19.18	EPA ID No. Moni	fest Documen		2 Page 1	information in the shaded areas is not required by Federal law.
3. Generator's Name and Molling Address CATELLUS DEVELOPMENT CORPORATION	(11)7 18 17 17 14 18 L (L		A State	Monfest Document	Number 91511729
201 Mission Street, Suite 250, Sa	n Francisco, CA.	94105	B. State	Generators ID	91011100
4. Generator's Phone (415) 974-4637 5. Transporter I Company Name	6. US EPA ID Number			Increporter's ID	300946
H & H Ship Service Company	CJA JD JO JO JA 17 17 13	11 16 18	000000000000000000000000000000000000000	porter's Phone	(415) 543-4835
7. Transporter 2 Company Name	8, ÜS ÉPÁ ID Number			Tronsporter's ID xorter's Phone	
9. Designated Facility Name and Site Address H & H Ship Service Company	10. US EPA ID Number	<u>.</u>	A CONTRACTOR OF THE PARTY OF TH	Focility's ID LAIDED LOI 4	17:7:1:1:6:8
H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107	 <u> </u>	11 16 19	H. Foc#	ly it Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Cla		12. Conta		13. Total Quantity	14, Unit Wt/Vol E:Woste Number
a.	, i	1	1,700	Grown willy	State
G OIL AND WATER				44 040	136 241 EPA/Cithet
NON-RCRA HAZARDOUS WASTE LIQUID		0 0 1	TIT	02000	G State
R					EPA/Other
A c.		1 1	1	1 1 1 1	State
b R					EPA/Other
d.		<u> </u>		1 1 1	Sigle
					EPA/Other
J. Additional Descriptions for Maferials Listed Above:		1 1	V. Honeli	1 1 I I	
FUEL, OIL AND WATER			a.		p.
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JOB #10425		OB SIT		ATELLUS DE	
24 Hr. Emergency Contact: H & H APPROPRIATE PROTECTIVE CLOTHING				015 Hollis mervville.	Street California
16. GENERATOR'S CERTIFICATION: I hereby declare that the content	nts of this consignment are fully and		escribed	above by proper sh	apping name and are classified;
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management method that is available to me and that I can affe					
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T 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	<u></u>	^		Month Day Year
WAYMON H. MC DONALD		mich) .	()	
18. Transporter 2 Acknowledgement of Receipt of Materials	Waymon H	7.70	- Gre	W.	0 4 0 7 9 2
Printed/Typed Name	Signature /				Month Day Year
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[k				
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20. Facility Owner or Operator Certification of receipt of hazardous in Printed/Typed Name	Signature Signature	ept as noted /	pritem 19		Month Day Year
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Form designed for use on eitle (12-pitch typewriter).

-	UNIFORM HAZARDOUS WASTE MANIFEST	1, Generator's US	EPÀ ID No. 17 15 19 15 17 <u>14 1</u>	Monifest Docume		2. Poge I	Information in the shaded areas is not required by Federal law.
	3. Generator's Name and Mailing Address CATELLUS DEVELOPMENT COP				A. Storte	Acrifest Document	Number 91511767
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	# % H Ship Service Com:	an"	1- 1- 10 1/ 1/ B. US EPA ID Number	<u> </u>	120000000000000000000000000000000000000	oriers Phone rorsporters ID	(415) 543-4835
	7. Transporter 2 Company Name		B US EPA ID NUMBER	11111	C-200000000000	orter's Phone	
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IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

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ISDF JENOS THIS COPY TO DHS WITHIN 30 DAYS. P.O. Box 3000, Sacramento, CA 95812

Please print or type.

Form designed for use on ellie (12-pitch typewriter).

WASTE MANIFEST	enerator's USEPA ID No.	Monfest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address CATELLUS DEVELOPMENT CORPOR		A. State	Montest Docume	91511740
201 Mission Savort Suite 2		CA. 94105 B.Store	≑euerajouz ID	
4. Generator's Phone (415) 974-4627 5. Transporter 1 Company Name	US EPA ID Number		Increporter • E	300939
H & H Ship Service Company		17 17 11 14 16 19 DE Mans	porter's Phone	14151 540-4835
7. Transporter 2 Company Name	8. US EPA ID Number	************	roneporter's ID orter's Phone	
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H & H Ship Service Company	' · · · · · · · · · · · · · · · · · ·		(#Phone	417171111618
San Francisco. CA 94107	<u> </u>	17 17 14 16 13 18 17 17 17 17 17 17 17 17 17 17 17 17 17	15 / 12 / 13 / 13 / 13 / 13 / 13 / 13 / 13	CP Fal Unit
9. Designated facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco. CA 94107 11. US DOT Description (Including Proper Shipping Name CRESIDUE GASOLINE TANK	e, Hazard Class, and ID Number)	No, Type	Quantity	Wt/Vot 1: Words Number:
O G RESIDUE GASOLINE TANK				EPA/Other
E NON-RCRA HAZARDOUS WASTE S	SOLTE:	0 10 1 17 17	1	
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R RESIDUE BUBE UIL TANK				EPA/ORGE*
Z T c.	K-ini 1)	0 10 1 1 1 1	} + ! - () - 	State
TE O				EPA/Other
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98-1				EPA/Other
75		. 1 1 1	1 1 1	
J. Additional Descriptions for Moderical Lated Above EMPTY 12,000 and 1,000 gal containing gasoline and 10	lon tanks last		g Codes for Woste	b. b.
Containing gasoline and lu with ary ice for transport PROFIDE #A1675	mbe oil. Tanks iner	ted 11		<u>01</u>
 15. Special Handling Instructions and Additional Information 	ation			
JOB #10428		JOB SITE: C	ATELLUS D	EV. CORP.
24 Hr. Emergency Contact:		835 4	015 Holli	s Street
APPROPRIATE PROTECTIVE CLO				. California
16. GENERATOR'S CERTIFICATION: I hereby declare the pocked, marked, and labeled, and are in all respectively.	of the contents of this consignment are ets in proper condition for transport by t	 fully and accurately described in lighway according to applicable in 	tenorional and a tenorional and	thipping name and are classified, national government regulations,
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Printed/Typed Name	Signature		 	Month Day Year
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Michae Stoll	X Michiga	Istolf Dea	Squet 60	R 014 10 17 10 12
Printed/Typed Name NORWAN L. BERG Norway L. BERG Receipt of Mater 18. Transporter 2 Acknowledgement of Receipt of Mater Printed/Typed Name	Signature	00	<u> </u>	Month Day Year
O Ñ I S S NORMAN L. BÉRG	1 / NA	" \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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JEGUTION !!!	Mey St	They		04101797

• DAY AND NIGHT: (415) 543-4835 FAX (415) 543-8265

O 220 CHINA BASIN, SAN FRANCISCO, CA 94107

CERTIFICATE OF DISPOSAL

APRIL 13, 1992

H & H Ship Service Company hereby certifies to TRUMPP BROTHERS that:

1. The storage tank(s), size(s) 2-12,000 GALS. AND 1-1,000 GALS.

removed from the

CATELLUS DEVELOPMENT CORPORATION

facility at

4015 HOLLIS STREET

EMERYVILLE, CALIFORNIA

were transported to H & H Ship Service Company, 220 China Basin St., San Francisco, California 94107.

2. The following tank(s), H & H Job Number 10428

have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.

- 3. Disposal site: SCHNITZER STEEL, OAKLAND, CALIFORNIA.
- 4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.
- 5. Should you require further information, please call (415) 543-4835.

Very Truly Yours,

Operations Coordinator

Quanteq Laboratories An Ecologics Company

Certificate of Analysis

PAGE 1 OF 8

DOHS CERTIFICATION NO. E772

AIHA ACCREDITATION NO. 332

LEVINE-FRICKE
1900 POWELL STREET
12TH FLOOR

EMERYVILLE, CA 94608 ATTN: AMANDA SPENCER

CLIENT PROJECT NO: 1649.08

C.O.C. NO: 9010

REPORT DATE: 04/24/92

DATE SAMPLED: 04/08/92

DATE RECEIVED: 02/08/92

QUANTEQ JOB NO: 9204066

ANALYSIS OF: WATER SAMPLES

Client Sample Id.	Quanteq Lab Id.	Purgeable Hydrocarbons as Gasoline (mg/L)	Extractable Hydrocarbons as Diesel (mg/L)	Extractable Hydrocarbons as Oil (ng/L)	Oil & Grease (mg/L)	Hydrocarbons (mg/L)
AGU(1)	01C	ND				• •••
AGU(1)	01E		1.2	ND		
AGM(1)	01G				ND	ND
DGU(2)	02C	ND			•••	
DGW(2)	02E		0.3	0.4		
DGU(2)	02G				MD	ND
Detection Li	mīt	0.05	0.05	0.1	0.5	0.5
Method:		5030 GCFID	3520 GCFID	3520 GCFID	5520C	5520F
Instrument:		F	c	С	IR	IR
Date Extract	ed:		04/13/92	04/13/92	04/20/92	04/20/92
Date Analyze	:d:	04/09/92	04/15/92	04/15/92	04/20/92	04/20/92
ND = Not Det	ected					

Andrew Bradeen, Manager Organic Laboratory

Results FAXed 04/20-22/92

RECEIVED

APR 2 7 1992

LEVINE-FRICKE

Quanteq Laboratories

PAGE_2 OF 8

LEVINE-FRICKE

SAMPLE ID: AGW (1) CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/08/92 DATE RECEIVED: 04/08/92 REPORT DATE: 04/24/92 QUANTEQ LAB NO: 9204066-01A QUANTEQ JOB NO: 9204066 DATE ANALYZED: 04/14/92

INSTRUMENT: 12

EPA METHOD 8240 (WATER MATRIX) GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	10
2-Butanone	78- 9 3-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND	10
Dibromochloromethane	124-48-1	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1.2-Dichloroethene	156-59-2		5 5 5 5 5 5
trans-1,2-pichtoroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
trans-1,3-Dichloropropene	10061-02-6	ND	5
Ethylbenzene	100-41-4	ND	5
2-Hexanone	591-78-6	ND	50
Methylene Chloride	75-09-2	ND	5
4-Methyl-2-pentanone	108-10-1	ND	50
Styrene	100-42-5	ND	5
1,1,2,2-Tetrachloroethane	79-34-5	ND	Š
Tetrachloroethene	127-18-4	ND	5 5
Toluene	108-88-3	ND	5
1,1,1-Trichloroethane	71-55-6	ND	5 5
1,1,2-Trichloroethane	79-00-5	ND	5
Trickle and the second			5
v my v Acetate	108-05-4	ND	50
Vinyl Chloride	75-01-4	ND	10
Xylenes, total	1330-20-7	ND	10

Quanteq Laboratories An Ecologics Company PAGE 3 OF 8

LEVINE-FRICKE

SAMPLE ID: DGW (2) CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/08/92 DATE RECEIVED: 04/08/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204066-02A QUANTEQ JOB NO: 9204066 DATE ANALYZED: 04/14/92 INSTRUMENT: 12

EPA METHOD 8240 (WATER MATRIX) GC/MS VOLATILE ORGANIC COMPOUNDS

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acetone	67-64-1	ND	100
Benzene	71-43-2	ND	5
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	- 5
Bromomethane	74-83-9	ND	10
2-Butanone	78-93-3	ND	100
Carbon Disulfide	75-15-0	ND	10
Carbon Tetrachloride	56-23-5	ND	5
Ch1orobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	10
2-Chloroethyl Vinyl Ether	110-75-8	ND	10
Chloroform	67-66-3	ND	5
Chloromethane	74-87-3	ND ND	10
Dibromochloromethane	124-48-1	ND	
1,1-Dichloroethane	75-34-3	ND	5 E
1,2-Dichloroethane	107-06-2	ND	
l,1-Dichloroethene	75-35-4	ND ND	
	19,00		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
trans-1,z-vichloroethene	156-60-5	ND	
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	5
rans-1,3-Dichloropropene	10061-02-6	ND ND	
thylbenzene	100-41-4	ND	5
?-Hexanone	591-78-6	ND	50
lethylene Chloride	75-09-2	ND ND	5
l-Methy1-2-pentanone	108-10-1	ND	
Styrene	100-42-5	ND	50 E
,1,2,2-Tetrachloroethane	79-34-5	ND	5
etrachloroethene	127-18-4	ND ND	2
oluene	108-88-3	ND 14D	5 5 5
,1,1-Trichloroethane	71-55-6	שא ND	5
,1,2-Trichloroethane	79-00-5	ND ND	5
richloroethene	79-00-5 79-01-6	NU 22	5
inyl Acetate	108-05-4	ZZ ND	5
inyl Chloride	75-01-4		50
ylenes, total	1330-20-7	ND ND	10
J	1330-20-7	ND	10

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QUALITY CONTROL DATA

DATE EXTRACTED: 04/20/92 DATE ANALYZED: 04/20/92 CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204066 SAMPLE SPIKED: DI WATER

INSTRUMENT: IR

.

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS METHOD SPIKE RECOVERY SUMMARY (WATER MATRIX)

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
oil	6.97	NĐ	6.65	6.65	95.4	0.0

CURRENT QC LIMITS (Revised 01/09/92)

<u>Analyte</u>	Percent Recovery	RPD
Oil	(82-112)	5.4

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

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PAGE 5 OF 8

DATE EXTRACTED: 04/13/92 DATE ANALYZED: 04/15/92 CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204066 SAMPLE SPIKED: DI WATER

INSTRUMENT: C

MATRIX SPIKE RECOVERY SUMMARY TPH EXTRACTABLE WATERS METHOD 3520 GCFID (WATER MATRIX; EXTRACTION METHOD)

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Diesel	2.52	ND	1.50	1.55	60.5	3.3

CURRENT QC LIMITS (Revised 08/15/91)

<u>Analyte</u>	Percent Recovery	RPD
Diesel	(49.3-101.4)	29.0

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

PAGE 6 OF 8

DATE ANALYZED: 04/09/92 SAMPLE SPIKED: 9204066-02C CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204066

INSTRUMENT: F

MATRIX SPIKE RECOVERY SUMMARY METHOD 5030 w/GCFID/8020 (WATER MATRIX)

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
Benzene Toluene Hydrocarbons	14.4 44.8	ND ND	14.9 45.6	14.6 45.9	102.4 102.1	2.0 0.7
as Gasoline	550	ND	546	542	98.9	0.7

CURRENT QC LIMITS (Revised 08/15/91)

Analyte Benzene Toluene Gasoline	Percent Recovery	RPD
Toluene	(77.7-118.0) (80.7-116.2) (72.5-110.7)	10.3 10.1 13.6

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

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INSTRUMENT: 12

QUANTEQ JOB NO: 9204066

CLIENT PROJ. ID: 1649.08

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8240 (WATER MATRIX)

	LE IDENTIFICATI	ON	SURROG	ATE RECOVERY (PE	RCENT)
Date Analyzed	Client Id.	Lab No.	1,2-Dichloro- ethane-d ₄	Toluene-d ₈	p-Bromofluoro- benzene
04/14/92 04/14/92	AGW(1) DGW(2)	01A 02A	118.7 107.0	94.6 95.3	100.6 102.3

CURRENT QC LIMITS

ANALYTE	PERCENT RECOVERY
1,2-Dichloroethane-d4 Toluene-d8	(83-127) (90-108)
p-Bromofluorobenzene	(91-109)

PAGE 8 OF 8

DATE ANALYZED: 04/09/92 SAMPLE SPIKED: 9204066-02A

INSTRUMENT: 10

QUANTEQ JOB NO: 9204066

CLIENT PROJ. ID: 1649.08

MATRIX SPIKE RECOVERY SUMMARY

METHOD 8240 (WATER MATRIX)

Trichloroethene	Spike	Sample	MS	MSD	Average	RPD
Benzene	Conc.	Result	Result	Result	Percent	
Toluene	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Recovery	
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50.0 50.0 50.0 50.0 50.0	ND 21.6 ND ND ND	57.2 71.4 52.8 52.7 53.8	52.5 71.4 52.8 52.8 54.6	109-7 99.6 105.6 105.5 108.4	8.6 0.0 0.0 0.2

CURRENT QC LIMITS (Revised 08/13/91)

<u>Analyte</u>	Percent Recovery	RPD
1,1-Dichloroethene	(65-133)	13.5
Trichloroethene	(84-120)	8.7
Benzene	(84-121)	9.4
Toluene	(89-119)	8.4
Chlorobenzene	(83-116)	7.5

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9204066

Project No	·: B	1649.	08		Field						T	Date	: 4/8/92	Serial N	90	
Project Na	me: Be	whlan a	1	<u> </u>	Projec	t L	ocatio	n:	Eme	ارباد	le (·	7/8/72	_	90	10
Sampler (si	gnature)		nichael Sto	El .				_	/	NAL	YSES	•		Sample	ers.	
		S/	AMPLES				(8)	/3 ^b	//	/5	//		79/ <i>&</i> /	MI		
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON- TAINERS	SAMPLE TYPE		The of	8r /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	× ,00	16 of		HOLD ST		EMARKS	
AGW(1)	4/8/92		01A-H	8	Wester	!	X	X	×	不		Ĭ	70	4-600011	f	
D6W(2)	4/8/92		02A-H	8	Wester		X	×	×	X	 		70	1 - 6 200111	<u> </u>	1.6.11
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Sample Coll	ector:		LEVINE-FRICKE	<u></u>			·	Δ	nalvi	tical	Labo					····
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			Emeryville, Ca (415) 652-4500	94608						0	ciant	en .	Pleasant 1	111 /		
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FORMERLY MED-TOX

Certificate of Analysis

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DOHS CERTIFICATION NO. E772

AIHA ACCREDITATION NO. 332

LEVINE-FRICKE 1900 POWELL STEET 12TH FLOOR EMERYVILLE, CA 94608

ATTN: MICHAEL STOLL

CLIENT PROJ. ID: 1649.08 C.O.C. SERIAL NO: 9015

ANALYSIS OF: SOIL SAMPLES

See attached for results

REPORT DATE: 04/24/92

DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92

ADDITIONAL ANALYSIS
REQUESTED: 04/15/92

QUANTEQ JOB NO: 9204054

Sherri Moore, Manager Inorganic Laboratory

Results FAXed 04/09-20/92



Andrew Bradeen, Manager Organic Laboratory

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LEVINE-FRICKE

DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 CLIENT PROJ. ID: 1649.08

REPORT DATE: 04/24/92

QUANTEQ JOB NO: 9204054

Client Sample Id.	Quanteq Lab Id.	Extractable Hydrocarbons as Diesel (mg/kg)	Extractable Hydrocarbons as Oil (mg/kg)	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Cadmium (mg/kg)	Chronium (mg/kg)	Nickel (mg/mg)	Lead (mg/kg)	Zinc (mg/kg)
AEV-1-V-9	01A	ND	ND		<u>-</u>					
AEV-2-S-9	02A	2	ND		•••			***	8	
AEV-3-S-9	03A	ND	ND						8	
B/CEB-4-W-8	04A	ND	ND	20	ND	0.4	46	41	11	
B/CEB-5-E-8	05A	ND	1,500	1.300	1,200	ND	46 34	17	10	45
DEU-6-U-9	06A	2	ND	.,500	1,200	ND .	34	17	9	30
DEW-7-S - 9	07A	ND	ND						11	
DEW-8-E-9	A80	ND	ND		•••				10	
P-1-1.5	09A	8	86	70	50	0.3	47	34	9 8	30
Detection limi	it	1	5	10	10	0.2	6	3	2	2
Method:		3550 GCFID	3550 GCFID	5520E	5520F	6010	6010	6010	6010	6010
Instrument:		C	С	IR	IR	ICP	ICP	ICP	ICP	ICP
Date Extracted Date Analyzed:										

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LEVINE-FRICKE

SAMPLE ID: B/CEB-4-W-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-04A **QUANTEQ JOB NO: 9204054** DATE ANALYZED: 04/09/92

INSTRUMENT: G

EPA METHOD 8010 (SOIL MATRIX) HALOGENATED VOLATILE ORGANICS

Bromodichloromethane 75-27-4 Bromoform 75-25-2 Bromomethane 74-83-9 Carbon Tetrachloride 56-23-5 Chlorobenzene 108-90-7 Chloroethane 75-00-3	ND ND ND ND ND ND	5 5 5 5 5 5 5 5 5
Bromoform 75-25-2 Bromomethane 74-83-9 Carbon Tetrachloride 56-23-5 Chlorobenzene 108-90-7	ND ND ND ND ND	
Bromomethane 74-83-9 Carbon Tetrachloride 56-23-5 Chlorobenzene 108-90-7	ND ND ND ND	5 5 5
Carbon Tetrachloride 56-23-5 Chlorobenzene 108-90-7	ND ND ND	5 5
Chlorobenzene 108-90-7	ND ND	5 5
	ND	Į.
1,3-00-3	= = = = = = = = = = = = = = = = = = = =	£
2-Chloroethyl Vinyl Ether 110-75-8	1417	
Chloroform 67-66-3	ND ND	. D
Chloromethane 74-87-3	ND	
Dibromochloromethane 124-48-1	ND	5
1,2-Dichlorobenzene 95-50-1	ND ND	5
1,3-Dichlorobenzene 541-73-1	ND ND) F
1,4-Dichlorobenzene 106-46-7	ND ND	
Dichlorodifluoromethane 75-71-8	ND ND	555555555555555555555555555555555555555
1,1-Dichloroethane 75-34-3	ND	
1,2-Dichloroethane 107-06-2	ND ND	
1,1-Dichloroethene 75-35-4	ND	5 E
Cis-1,2-Dichloroethene 156-59-2	ND	
trans-1,2-Dichloroethene 156-60-5	ND	ב ד
1,2-Dichloropropane 78-87-5	ND	5
cis-1,3-Dichloropropene 10061-01-5	ND ND	5
trans-1,3-Dichloropropene 10061-02-6	ND ND	5
Methylene Chloride 75-09-2	ND	5
1,1,2,2-Tetrachloroethane 79-34-5	ND ND	5
Tetrachloroethene 127-18-4	ND ND	5
,1,1-Trichloroethane 71-55-6	ND ND	5
1,1,2-Trichloroethane 79-00-5	ND ND	5
richloroethene 79-01-6	ND ND	5
richlorofluoromethane 75-69-4	ND	5
1,2,2-trifluoroethane 76-13-1	ND	5
/inyl Chloride 75-01-4	ND	5

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LEVINE-FRICKE

SAMPLE ID: B/CEB-5-E-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92 QUANTEQ LAB NO: 9204054-05A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92 INSTRUMENT: G

EPA METHOD 8010 (SOIL MATRIX) HALOGENATED VOLATILE ORGANICS

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	555555555555555555555
Bromomethane	74-83-9	ND	5
Carbon Tetrachloride	56-23-5	ND	Š
Ch1orobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	Š
2-Chloroethyl Vinyl Ether	110-75-8	ND	5
Chloroform	67-66-3	ND	Š
Chloromethane	74-87-3	ND	š
Dibromochloromethane	124-48-1	ND ·	Š.
1,2-Dichlorobenzene	95-50-1	ND	Š
1,3-Dichlorobenzene	541-73-1	ND	, ,
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	J 5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	S E
l,1-Dichloroethene	75-35-4	ND ND	
cis-1,2-Dichloroethene	156-59-2	ND	5 E
trans-1,2-Dichloroethene	156-60-5	ND ND	ე ნ
1,2-Dichloropropane	78-87-5	ND ND) F
cis-1,3-Dichloropropene	10061-01-5	ND ND	5
rans-1,3-Dichloropropene	10061-01-5		5
Methylene Chloride	75-09-2	ND ND	5
1,1,2,2-Tetrachloroethane	79-34-5		5
[etrach] oroethene	127-18-4	ND ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane		ND ND	5
richloroethene	79 -0 0-5	ND ND	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
richlorofluoromethane	79-01-6	ND	5
,1,2-Trichloro-	75-69-4	ND	5
1,2,2-trifluoroethane	76-13-I	ND	5
inyl Chloride	75-01-4	ND	. 5

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LEVINE-FRICKE

SAMPLE ID: P-1-1.5 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-09A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: G

EPA METHOD 8010 (SOIL MATRIX) HALOGENATED VOLATILE ORGANICS

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Bromodichloromethane	75-27-4	ND	5
Bromoform	75-25-2	ND	5
Bromomethane	74-83-9	ND	5
Carbon Tetrachloride	56-23-5	ND	5
Chlorobenzene	108-90-7	ND	5
Chloroethane	75-00-3	ND	Š
2-Chloroethyl Vinyl Ether	110-75-8	ND	5
Chloroform	67-66-3	ND	· 5
Chloromethane	74-87-3	ND	, <u>, , , , , , , , , , , , , , , , , , </u>
Dibromochloromethane	124-48-1	ND	5
1,2-Dichlorobenzene	95-50-1	ND .	, Ę
1,3-Dichlorobenzene	541-73-1	ND	5
1,4-Dichlorobenzene	106-46-7	ND	5
Dichlorodifluoromethane	75-71-8	ND	5
1,1-Dichloroethane	75-34-3	ND	5
1,2-Dichloroethane	107-06-2	ND	5
1,1-Dichloroethene	75-35-4	ND	5
cis-1,2-Dichloroethene	156-59-2	ND	, ,
trans-1,2-Dichloroethene	156-60-5	ND	5
1,2-Dichloropropane	78-87-5	ND	5
cis-1,3-Dichloropropene	10061-01-5	ND	, ,
trans-1,3-Dichloropropene	10061-02-6	ND	5
Methylene Chloride	75-09-2	ND ND	S E
1,1,2,2-Tetrachloroethane	79-34-5	ND	5
Tetrachloroethene	127-18-4	ND ND	5
1,1,1-Trichloroethane	71-55-6	ND	5
1,1,2-Trichloroethane	79-00-5	ND ND	5
[richloroethene	79-01-6	ND ND	j E
<pre>Irichlorofluoromethane 1,1,2-Trichloro-</pre>	75-69-4	ND	555555555555555555555555555555555555555
1,2,2-trifluoroethane	76-13-1	ND	5
/inyl Chloride	75-01-4	ND	5

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LEVINE-FRICKE

SAMPLE ID: AEW-1-W-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-01A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	DM	5
PURGEABLE HYDROCARBO	NS AS:		
Gasoline		ND mg/kg	0.2 mg/

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LEVINE-FRICKE

SAMPLE ID: AEW-2-S-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-02A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND ND	5
Toluene	108-88-2	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBON	S AS:		
Gasoline		ND mg/kg	0.2 mg/k g

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LEVINE-FRICKE

SAMPLE ID: AEW-3-S-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-03A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBO	NS AS:		
Gasoline		ND mg/kg	0.2 mg/l

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LEVINE-FRICKE

SAMPLE ID: B/CEB-4-W-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-04A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
71-43-2	ND	5
108-88-2	ND	- 5
100-41-4	ND	5
1330-20-7	ND	5
NS AS:		
	ND mg/kg	0.2 mg/kg
	71-43-2 108-88-2 100-41-4	CAS # (ug/kg) 71-43-2 ND 108-88-2 ND 100-41-4 ND 1330-20-7 ND

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LEVINE-FRICKE

SAMPLE ID: B/CEB-5-E-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-05A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBON	IS AS:		
Gasoline		ND mg/kg	0.2 mg/kg

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LEVINE-FRICKE

SAMPLE ID: DEW-6-W-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-06A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethy1benzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBO	NS AS:		
Gasoline		ND mg/kg	0.2 mg/l

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LEVINE-FRICKE

SAMPLE ID: DEW-7-S-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

ND = Not Detected

QUANTEQ LAB NO: 9204054-07A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92 INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethylbenzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBO	NS AS:		
Gasoline		ND mg/kg	0.2 mg/

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LEVINE-FRICKE

SAMPLE ID: DEW-8-E-9 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-03A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

			•
COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
Toluene	108-88-2	ND	5
Ethy1benzene	100-41-4	· ND	5
Xylenes, Total	1330-20-7	ND	5
PURGEABLE HYDROCARBOI	NS AS:		
Gasoline		ND mg/kg	0.2 mg/k g
	•		

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LEVINE-FRICKE

SAMPLE ID: P-1-1.5 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054 - 09A QUANTEQ JOB NO: 9204054 DATE ANALYZED: 04/09/92

INSTRUMENT: H

BTEX AND HYDROCARBONS (SOIL MATRIX) METHOD: EPA 8020, 5030 GCFID

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	5
ToTuene	108-88-2	ND	5
Ethy1benzene	100-41-4	ND	5
Xylenes, Total	1330-20-7	· ND	5
PURGEABLE HYDROCARBO	NS AS:		
Gasoline		ND mg/kg	0.2 mg/k

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LEVINE-FRICKE

SAMPLE ID: B/CEB-5-E-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-05A QUANTEQ JOB NO: 9204054 DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92

INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX) SEMI-VOLATILE ORGANIC COMPOUNDS

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Álcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	39638-32-9	ND	330
<pre>3is(2-ethylhexyl) phthalate</pre>	117-81 - 7	ND	330
-Bromophenyl phenyl eth	er 101-55-3	ND	330
Butylbenzyl phthalate	85-68 - 7	ND	330
l-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
I-Chlorophenyl phenyl ether	7005-72-3	. ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
)ibenzofuran	132-64-9	ND	330
)i-n-butylphthalate	84-74-2	ND	330
,2-Dichlorobenzene	95-50-1	ND	330

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LEVINE-FRICKE

SAMPLE ID: B/CEB-5-E-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92

QUANTEQ LAB NO: 9204054-05A QUANTEQ JOB NO: 9204054 DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92 INSTRUMENT: 11

EPA METHOD 8270

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	. ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n- propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

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LEVINE-FRICKE

SAMPLE ID: B/CEB-5-E-8 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92 QUANTEQ LAB NO: 9204054-05A QUANTEQ JOB NO: 9204054 DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92

INSTRUMENT: 11

EPA METHOD 8270 GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	· ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Phenol	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND ·	330
2,4,6-Trichlorophenol	88-06-2	ND	330

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LEVINE-FRICKE

SAMPLE ID: P-1-1.5 CLIENT PROJ. ID: 1649.08

DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92

REPORT DATE: 04/24/92

QUANTEQ LAB NG:

9204054-09A

QUANTEQ JOB NO: 9204054 DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92

INSTRUMENT: 11

EPA METHOD 8270 (SOIL MATRIX) SEMI-VOLATILE ORGANIC COMPOUNDS

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Acenaphthene	83-32-9	ND	330
Acenaphthylene	208-96-8	ND	330
Anthracene	120-12-7	ND	330
Benzidine	92-87-5	ND	1600
Benzoic Acid	65-85-0	ND	1600
Benzo(a)anthracene	56-55-3	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330
Benzo(g,h,i)perylene	191-24-2	ND	330
Benzo(a)pyrene	50-32-8	ND	330
Benzyl Álcohol	100-51-6	ND	660
Bis(2-chloroethoxy) methane	111-91-1	ND	330
Bis(2-chloroethyl)ether	111-44-4	ND	330
Bis(2-chloroisopropyl) ether	39638-32-9	ND	330
Bis(2-ethylhexyl) phthalate	117-81-7	ND	330
4-Bromophenyl phenyl ethe	r 101-55-3	ND	330
Butylbenzyl phthalate	85-68-7	ND	330
4-Chloroaniline	106-47-8	ND	660
2-Chloronaphthalene	91-58-7	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330
Chrysene	218-01-9	ND	330
Dibenzo(a,h)anthracene	53-70-3	ND	330
Dibenzofuran	132-64-9	ND	330
Di-n-butylphthalate	84-74-2	ND	330
l,2-Dichlorobenzene	95-50-1	ND	330

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LEVINE-FRICKE

SAMPLE ID: P-1-1.5 CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92 REPORT DATE: 04/24/92 QUANTEQ LAB NO: 9204054-09A QUANTEQ JOB NO: 9204054 DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92

INSTRUMENT: 11

EPA METHOD 8270 GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1,3-Dichlorobenzene	541-73-1	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330
3,3'-Dichlorobenzidine	91-94-1	ND	660
Diethylphthalate	84-66-2	ND	330
Dimethylphthalate	131-11-3	ND	330
2,4-Dinitrotoluene	121-14-2	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330
Di-n-octylphthalate	117-84-0	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330
Fluoranthene	206-44-0	ND	330
Fluorene	86-73-7	ND	330
Hexachlorobenzene	118-74-1	ND	330
Hexachlorobutadiene	87-68-3	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330
Hexachloroethane	67-72-1	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330
Isophorone	78-59-1	ND	330
2-Methylnaphthalene	91-57-6	ND	330
Naphthalene	91-20-3	ND	330
2-Nitroaniline	88-74-4	ND	1600
3-Nitroaniline	99-09-2	· ND	1600
4-Nitroaniline	100-01-6	ND	1600
Nitrobenzene	98-95-3	ND	330
N-Nitrosodimethylamine	62-75-9	ND	330
N-Nitrosodiphenylamine	86-30-6	ND	330
N-Nitroso-di-n- propylamine	621-64-7	ND	330
Phenanthrene	85-01-8	ND	330
Pyrene	129-00-0	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330

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LEVINE-FRICKE

SAMPLE ID: P-1-1.5

CLIENT PROJ. ID: 1649.08 DATE SAMPLED: 04/07/92 DATE RECEIVED: 04/07/92

REPORT DATE: G4/24/92

QUANTEQ LAB NO: 9204054-09A QUANTEQ JOB NO: 9204054

DATE EXTRACTED: 04/15/92 DATE ANALYZED: 04/18/92

INSTRUMENT: 11

EPA METHOD 8270

GC/MS EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
4-Chloro-3-methylphenol	59-50-7	ND	330
2-Chlorophenol	95-57-8	ND	330
2,4-Dichlorophenol	120-83-2	ND	330
2,4-Dimethylphenol	105-67-9	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND .	1600
2,4-Dinitrophenol	51-28-5	ND	1600
2-Methylphenol	95-48-7	ND	330
4-Methylphenol	106-44-5	ND	330
2-Nitrophenol	88-75-5	ND	330
4-Nitrophenol	100-02-7	ND	1600
Pentachlorophenol	87-86-5	ND	1600
Pheno 1	108-95-2	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330

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QUALITY CONTROL DATA

DATE EXTRACTED: 04/08/92 DATE ANALYZED: 04/08/92 CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204054 SAMPLE SPIKED: 9204054-09A

INSTRUMENT: IR

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS METHOD SPIKE RECOVERY SUMMARY (SOIL MATRIX)

ANALYTE	MS Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
oit	222	67	271	271	91.9	0.0

CURRENT QC LIMITS (Revised 01/09/92)

Analyte Percent Recovery RPD
Oil (84-113) 8.1

MS = Matrix Spike

MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

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QUALITY CONTROL DATA

DATE EXTRACTED: 04/08/92 DATE ANALYZED: 04/13/92 CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204054 SAMPLE SPIKED: 9204054-01A

INSTRUMENT: C

MATRIX SPIKE RECOVERY SUMMARY TPH EXTRACTABLE SOILS METHOD 3550 GCFID (SOIL MATRIX; EXTRACTION METHOD)

ANALYTE	Spike Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Diesel	49.5	ND	31.8	35.0	67.5	9.6

CURRENT QC LIMITS (Revised 08/15/91)

Analyte Percent Recovery <u>RPD</u> Diesel (60.3-116.2) 19.7

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

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QUALITY CONTROL DATA

INSTRUMENT: G

QUANTEQ JOB NO: 9204054

CLIENT PROJ. ID: 1649.08

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8010/8020 (SOIL MATRIX)

SAMPLE IDENTIFICATION			SURROGATE RECOVERY (PERCENT)			
Date Analyzed	Client Id.	Lab No.	Bromochtoro- methane	1-Brozo-2-chloro- propane	1-Chloro-2-fluoro benzene	
04/09/92	8/CEB-4-W-8	04A	113.5	122.9	90.9	
04/09/92 04/09/92	B/CEB-5-E-8 P-1-1.5	05A 09A	112.5 113.9	124.8 120.6	89.9 90.6	

CURRENT QC LIMITS (Revised 01/06/92)

ANALYTE	PERCENT RECOVERY
Bromochloromethane	(67-131)
1-Bromo-2-chloropropane	(73-133)
1-Chloro-2-fluorobenzene	(82-124)

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QUALITY CONTROL DATA

DATE ANALYZED: 04/09/92

INSTRUMENT: G

CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO:

9204054

SAMPLE SPIKED:

9204054-09A

METHOD SPIKE RECOVERY SUMMARY

METHOD 8010/8020 (SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
1,1-Dichloroethene Trichloroethene	500	ND	369	398	76.7	7.6
Benzene	500	ND	466	502	96.8	7.4
	500	ND	445	468	91.3	5.0
Toluene	500	ND	445	468	91.3	5.0
Chlorobenzene	500	ND	407	445	85.2	8.9

CURRENT QC LIMITS (Revised 01/06/92)

<u>Analyte</u>	Percent Recovery	<u>RPD</u>
1,1-Dichloroethene	(44-126)	10.1
Trichloroethene	(69-136)	14.0
Benzene	(79-118)	6.4
Toluene	(74-126)	6.7
Chlorobenzene	(75-122)	10.4

MS = Matrix Spike
MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

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QUALITY CONTROL DATA

DATE ANALYZED: 04/09/92 SAMPLE SPIKED: 9204018-10A CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204054

INSTRUMENT: H

MATRIX SPIKE RECOVERY SUMMARY METHOD: EPA 8020, 5030 GCFID (SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Benzene Toluene	32.4	ND	32.1	33.0	100.0	2.8
liydrocarbons as Gasoline	97.7 1100	ND 1020	94.4 1890	102.2	101.0 86.9	7.9 9.6

CURRENT QC LIMITS (Revised 08/15/91)

<u>Analyte</u>	Percent Recovery	<u>rpd</u>
Benzene	(80.8-125.2)	9.6
Toluene	(82.7-119.1)	10.2
Gasoline	(54.0-120.1)	14.8

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference

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QUALITY CONTROL DATA

DATE ANALYZED: 04/18/92

QUANTEQ JOB NO: 9204054

CLIENT PROJ. ID: 1649.08

INSTRUMENT: 11

SURROGATE STANDARD RECOVERY SUMMARY

METHOD 8270 (SOIL MATRIX)

	PLE IDENTIFIC	MOITA	_	SUR R	OGATE	RECOVE	R Y (PERCEN	т) .
Date Extracted	Client Id.	Lab No.	Nitro- benzene-d ₅	2-Fluoro- biphenyl	Ter pheny l- ^d 14	Phenol-d ₅	2-Fluoro- phenol	2,4,6-Tribromo- phenol
04/15/92 04/15/92	B/CEB-5-E-8 P-1-1.5	05A 09A	53.4 41.1	72.9 47.6	119.5 90.0	66.2 68.2	55.4 53.4	103.0 93.2

CURRENT QC LIMITS

<u>ANALYTE</u>	PERCENT RECOVERY
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 Phenol-d5 2-Fluorophenol 2,4,6-Tribromophenol	(23-120) (30-115) (18-137) (24-113) (25-121) (19-122)
* *******	(+> +44)

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QUALITY CONTROL DATA

DATE ANALYZED: 04/15/92 DATE EXTRACTED: 04/18/92 CLIENT PROJ. ID: 1649.08

QUANTEQ JOB NO: 9204054 SAMPLE SPIKED: 9204058-03A INSTRUMENT: 11

MATRIX SPIKE RECOVERY SUMMARY METHOD 8270 (SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (Ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Phenol	3910	ND	2930	3370	80.6	14.0
2-Chlorophenol	3380	ND	2540	2970	81.5	15.6
1,4-Dichlorobenzene	3340	ND	1740	1880	53.6	
N-Nitroso-di-n-propylamine	3360	ND ·	2350	2530	73.1	7.7
1,2,4-Trichlorobenzene	3490	ND	1710	1940		7.4
4-Chloro-3-methylphenol	3390	ND	2610	2730	52.3	12.6
Acenaph thene	3410	ND	1930		78.8	4.5
4-Nitrophenol	3340			2010	57.8	4.1
2,4-Dinitrotoluene	3390	ND	1130	921	30.7	20.4
Pentachlorophenol		ND	2260	2400	68.7	6.0
Pyrene	3430	ND	2390	2260	67.8	5.6
ryrene	3360	GN	2260	2330	68.3	3.1

CURRENT QC LIMITS

<u>Analyte</u>	Percent Recovery	<u>RPD</u>
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-di-n-propylamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	(35-81) (28-88) (28-81) (27-83) (30-82) (31-104) (30-101) (7-102) (26-86) (11-94) (23-128)	33 26 9 20 22 28 17 32 24 41 23

MS = Matrix Spike MSD = Matrix Spike Duplicate

RPD = Relative Percent Difference

PAGE 28 OF 28

QUALITY CONTROL DATA

MATRIX: SOIL

QUANTEQ JOB NO: 9204054

CLIENT PROJ. ID: 1649.08

SAMPLE SP1KED: 9203235-01A

MATRIX SPIKE RECOVERY SUMMARY

								QC CONTROL	LIMITS
COMPOUND	INST./ METHOD	SAMPLE RESULT	SPIKE ADDED	OBSERVED (mg/ MS		% REC.	RPD	REC. % LIMIT	RPD LIMIT
Cd, Cadmium	ICP/6010	0.30	20	15.74	16.14	78.2	2.46	66.1- 95.5	12.3
Cr, Chromium	1CP/6010	61.2	100	111.8	115.4	62.4	3.15	41.6-110.6	10.2
Ni, Nickel	ICP/6010	56.3	100	123.1	125.2	67.8	1.67	59.8- 94.6	10.6
Pb, Lead	ICP/6010	24.9	100	90.8	96.1	68.5	5.65	65.0- 96.7	15.3
Zn, Zinc	ICP/6010	70.0	100	154.7	152.6	83.6	1.41	46.7- 98.6	5.0

R-4, 5-A

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9204654

Project No.	·: 16	49.08			Field							Date	: 4/-	ıla r	Serial N	901	
Project Name: Bashkad Sike Project Location: Emery Sampler (Signature): Mulmel Holl AN								'//		11/		<u></u>	901	15			
Sampler (Sig	gnature)	:Mu	direl At	6/1	<u> </u>				- 1115 	MAL	YK F	<u> </u>		_	/ ASample	anc i	
			AMPLES					1/N	ΔZ	$\overline{\lambda}$	7		26 Z		Sample	:15. (
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON- TAINERS	SAMPLE TYPE	/\$ ⁵			84.0	64, 6 4, 5	74E/0	No Me	(** * */	25	<i>40 /</i>	EMARKS	
AFW-1-W-9	4/7/92		OIA		SOIL	\ /		1		1/	ĺ	<u> </u>	X		Total	Lead by	AA
AEW-2-, S-9			OZA	1		\setminus		IV	ΙХ	ΙX			X	1			ydoinhou 80/
AEW-3-3-39			03A	- 1		\wedge		Λ	I/Λ	I/Λ			X		TDH- 6-	TPHa (mi	Alian
B/CEB-4-W-8			04A	1		W	X	X	X	X	X	久	X		TP1+-D =		
B/C EB-5-F-X			05A.				X	X	X	X	X	X	$\dot{\lambda}$	X	BTXE -		161
DEW-6-W-9			06A	1		$\sqrt{/}$		1	17	1			$\overline{\lambda}$		0+6-01		DA DIE
DEW-7-5:9			07A	1		X		A	\forall	 	<u> </u>		X		Metal . L.		
DEW-8-E-9			08A	Į.		$/ \uparrow$		1	$1/\Gamma$	1/			文		<u> </u>	3, 4, 1 0, £1	2, / / /
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RELINQUISHED 8 (Signature)	Y:			·	DATE		ME	R	ECETVE	D BY:			```	<u> </u>		DATE	1900 TIME
RELINQUISHED B (Signature)	Y:			· · · · · · · · · · · · · · · · · · ·	DATE	TI	ME	R	Signat ECEIVE	D BY:		:)		DATE	TIME
METHOD OF SHIP	MENT:				DATE	TI	ME		Signat AB CON	MENTS:			·		· · · · · · · · · · · · · · · · · · ·		1
Sample Coll	ector:		LEVINE-FRICKE 1900 Powell St Emeryville, Ca (415) 652-4500	reet, 12th	n Floor			A	naly	_		ratoi EQ	•	art	1417), (A	·.	
hipping Copy (White)	Lab	Copy (Green)	File	Сору (Үе	llow)		Field	Сору	(Pink	}					FORM NO.	. 86/COC/ARF



4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received:

04/08/92

Extraction:

04/08/92

Reported:

04/09/92

Job #:

73398

Attn: Michael Stoll

Levine-Fricke

1900 Powell Street, 12th Floor

Emeryville, CA 94608

Project: Bashland/1649.08

Matrix: Soil

coc: 9014

Total Petroleum Hydrocarbon Analysis

DHS Extraction Method (LUFT) mg/Kg

<u>Lab ID</u>	Client ID	<u>oil</u>	MDL.
73398-1	SP-1	ND<50	50
73398-2	SP-2	ND<50	50
73398-3	SP-3	ND<50	50
73398-4	SP-4	ND<50	50

QA/QC: Spike Recovery: 115%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

JC/td/

APR 1 3 1992

LEVINE-FRICKE



4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 04/08/92

Extraction: 04/08/92 Reported: 04/09/92

Job #: 73398

Attn: Michael Stoll

Levine-Fricke

1900 Powell Street, 12th Floor

Emeryville, CA 94608

Project: Bashland

Matrix: Soil

Total Petroleum Hydrocarbon Analysis DHS Extraction Method (LUFT) mg/Kg

Lab ID	Client ID	<u>Diesel</u>	MDL
73398-1	SP-1	ND<10	10
73398-2	SP-2	18	10
73398-3	SP-3	ND<10	10
73398-4	SP-4	ND<10	10

QA/QC: Spike Recovery: 117%

MDL: Method Detection Limit. Compound below this level would not be detected.

Taime Chow

aboratory Director

JC/td



4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251 -

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 04/08/92

Reported: 04/09/92

Job #:

73398

AND THE REPORT OF THE PROPERTY
Attn: Michael Stoll

Levine-Fricke

1900 Powell Street, 12th Floor

Emeryville, CA 94608

Project: Bashland

Matrix: Soil

Total Petroleum Hydrocarbon Analysis EPA Method 5030 mq/Kq

<u>Lab ID</u>	Client ID	<u>Gasoline</u>	MDL
73398-1 73398-2 73398-3 73398-4	SP-1 SP-2 SP-3 SP-4	1.0 2.4 1.1 ND<1.0	1.0 1.0 1.0

Spike Recovery: 86%

MDL: Method Detection Limit. Compound below this level would not

be detected.

Jaime Chow

Laboratory Director

JC/td



4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received:

04/08/92

Reported:

04/09/92

Job #:

73398

Attn: Michael Stoll

Levine-Fricke

1900 Powell Street, 12th Floor

Emeryville, CA 94608

Project: Bashland

Matřix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
73398-1	SP-1	ND<0.005	0.005	0.009	0.005
73398-2	SP-2	ND<0.005	0.005	0.018	0.005
73398-3	SP-3	ND<0.005	0.005	0.012	0.005
73398-4	SP-4	ND<0.005	0.005	0.013	0.005
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
73398-1	SP-1	ND<0.005	0.005	0.036	0.005
73398-2	SP-2	ND<0.005	0.005	0.107	0.005
73398-3	SP-3	ND<0.005	0.005	0.092	0.005
73398-4	SP-4	ND<0.005	0.005	0.097	0.005

QA/QC:

Spike Recovery for Benzene:

87%

Spike Recovery for Toluene:

87%

Spike Recovery for Xylene:

81%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

JC/td

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Project No.	Field Logbook No				0.:				Date: 4/8/92			No.: 901						
Project Nar	Projec	it L	ocatio	n:	EMENEULLA				/A			901	14					
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RELINQUISHED BY: (Signature)					DATE 1		TIME	R	RECEIVED BY: (Signature)							DATE	TIME	
METHOD OF SHIP	DATE TIM		TIME	LAB COMMENTS:				·				<u> </u>						
Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor								A	Analytical Laboratory: Attn. Sunder									
Emeryville, Ca 94608 (415) 652-4500									Analytical Laboratory: Attn. Surinder Precision Analytical, Richmond, (A									

File Copy (Yellow) Field Copy (Pink)

FORM NO. 86/COC/ARF