

PROTECTION

95 SEP 18 PM 4: 22

August 17, 1995

Eva Chu Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, 2nd Floor Alameda, Ca 94502 (510) 567-6762 (510) 337-9335 Fax

RE: Underground Storage Tank (UST) Removal and Soil Sampling at 4951 Arroyo Road, Veterans Administration Medical Center, Livermore, California

Dear Ms. Chu:

The enclosed Underground Storage Tank (UST) Removal Addendum documents soil sampling and sample analysis that occurred at the VA Medical Center on May 25, 1995. Soil samples were collected from beneath the fire house garage. This area was suspected of being impacted by petroleum hydrocarbons associated with a fuel oil tank formerly in operation on site.

Please contact us at (707) 745-0171 if you have any questions concerning the tank removal activities.

Respectfully,

Michael T. Davis

Project Geologist

Mark Lafferty, R.G. Director of Geosciences

Mahh.h

Attachment

INTRODUCTION

Soil samples were collected on May 25, 1995 by Growth Environmental Services, Inc. with the use of Geoprobe sampling equipment. One probe was advanced in a location eighteen feet into the Fire House, eight feet southwest of the lunch room door to a depth of sixteen feet below grade. The former fuel oil tank was located beneath the area presently occupied by the fire house garage. An over-excavation of contaminated soil in front of the fire house garage is documented in the Tank Removal report dated August 17, 1995.

SOIL SAMPLING AND ANALYTICAL RESULTS

Soil Sampling. One soil probe was advanced using GROWTH's truck mounted Geoprobe sampling equipment. Three soil samples were collected at depths of 5, 10 and 15 feet below grade. The soil samples consisted of medium brown, medium grained sand with silt and occasional angular gravel. The hardness increased at approximately ten feet below grade and sampling refusal was encountered at sixteen feet below grade. No odor or staining was observed in the field until 15 feet below grade. Soon after, sampling refusal was encountered. At the lowest sample interval obtained by GROWTH, stained soil was noted to extend to the base of the sample (16 feet below grade). Soil samples were delivered on ice under GROWTH chain of custody protocol to McCampbell Analytical of Pacheco, California, a state certified laboratory.

Analytical Results. The three soil samples collected on May 25, 1995 inside the fire house were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-G), as diesel (TPH-D) and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA GCFID modified method 8015/8020. None of these analytes were detected in the samples collected from 5 and 10 feet below grade. The third sample was collected in stained soil at the 15 feet below grade surface interval. A summary of the sample results is presented in Table 1.

Table 1 Soil Sample Analytical Results Sampling Inside the Fire House May 25, 1995

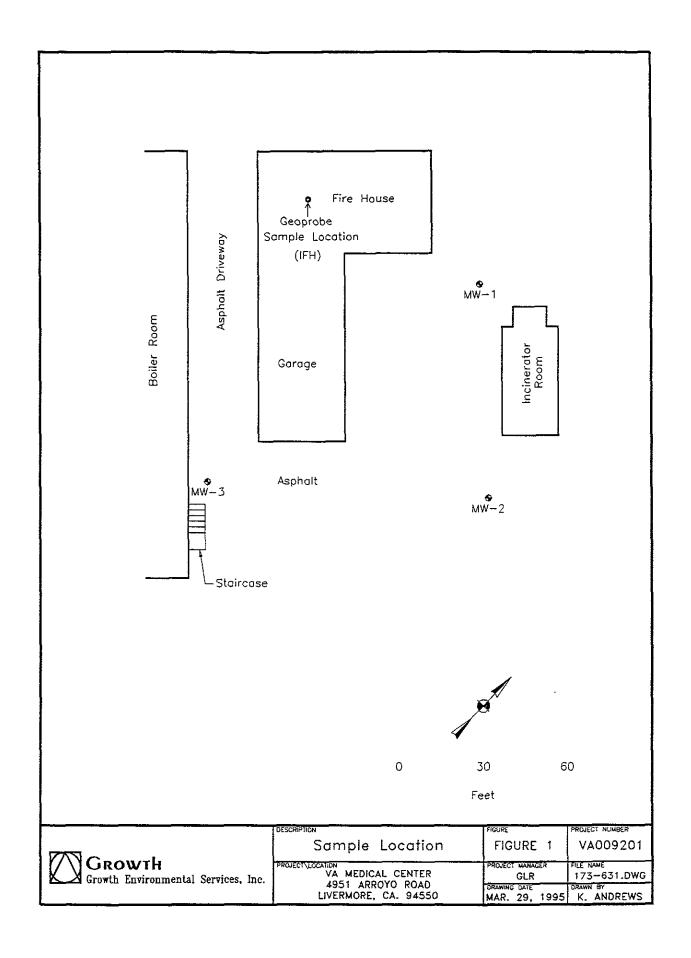
Sample I.D.	TPH-G	TPH-D	Benzene	Toluene	Ethyl- benzene	Total Xylenes	PN
IFH1-1	[€] ND	ND	ND	ND	ND	ND	
IFH1-2	ND	ND	ND	ND	ND	ND	
IFH1-3	24	950	ND	0.016	ND	0.026	/J'
Detection Limits	1.0 mg/kg	1.0 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	

ND - Below Detection Limits

A<

D

^{**} mg/kg = parts per million



The soil sample collected from 15 feet below grade surface contained minor gasoline contamination (24 ppm), trace toluene (0.016 ppm) and trace xylenes (0.026). The analytical results indicated diesel range contaminants in the soil at a level of 950 ppm.

CONCLUSIONS/RECOMMENDATIONS

Petroleum hydrocarbon contamination was detected beneath the fire house at the Veterans Administration Medical Center. Gasoline and diesel range hydrocarbons were detected at approximately 15 feet below grade. Trace toluene and xylenes were detected whereas no benzene was detected in the soil samples collected. GROWTH recommends that additional site characterization activities, including soil borings and soil sampling, be performed at this location to determine the extent of soil contamination.



SAN FRANCISCO DISTRICT 536 Stone Road, Suite J Benicia, CA 94510 (707) 745-0163 BAY

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No._____

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Growth Envi	ronmental Services		roject ID: \	/A009201;	Date Sampled: 05/25/95					
536 Stone Ro	ad, Suite J	Center				Date Received: 05/25/95				
Benicia, CA	94510	Client Co	ntact: Micha	el Davis		Date Extracted: 05/25/95				
	-	Client P.	0:		Date Analyzed: 05/25-05/26/95					
777 A - 141 - 40 5/	Gasoline Range	(C6-C12)	Volatile Hyd	irocarbons	as Gasolin	e*, with BT d GCFID(503)	EX* 0)			
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate		
52834	A,B,-1	s	ND	ND	ND	ND	ND	99		
52835	IFH 1-1	s	ND	ND	ND	ND	ND	101		
52836	IFH 1-2	s	ND	ND	ND	ND	ND	100		
52837	IFH1-3	s	24,g	ND	0.016	ND	0.026	101		
52838	Bld 65-N-2	s	1.6,g	ND	ND	ND	ND	100		
52839	Bld 65-T-1	S	ND	ND	ND	ND	ND	102		
52840	Bld 65-Stkp lB	S	6.1,g	ND	ND	ND	ND	101		
					<u> </u>					
Reporting	Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5			
wise stated; ND means not de- tected above the reporting limit		S	1.0 mg/kg	0.005	0.005	0.005	0.005			

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Growth Environmental Services
536 Stone Road, Suite J

Benicia, CA 94510

Client Project ID: VA009201; VA Med Date Sampled: 05/25/95

Center

Date Received: 05/25/95

Client Contact: Michael Davis

Date Extracted: 05/25/95

Client P.O:

Date Analyzed: 05/26-05/27/95

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

Lab ID	Client ID	Matrix	TPH(d) ⁺	% Recovery Surrogate
52834	A,B,-1	s	ND	101
52835	IFH 1-1	S	ND	98
52836	IFH 1-2	S	ND	101
52837	IFH 1-3	S	950,e	102
52838	Bld 65-N-2	s	56,a	102
52839	Bld 65-T-1	s	11,g	106
52840	Bld 65-Stkp 1B	S	64,a	103
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		w	50 ug/L	
		S	1.0 mg/kg	-

^{*} water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

Edward Hamilton, Lab Director

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant: no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (fuel oil?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1995

MCCAMPBELL ANALYTICAL, INC.

Submission #: 9506091... Re-issued September 7, 1995

Atten: Ed Hamilton/Mike Davis

Project: V.A. MED. CENTER

Project#: VA009201

Received: June 7, 1995

One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Sample ID: IFH1-3

Spl#: 91442

Matrix: SOIL

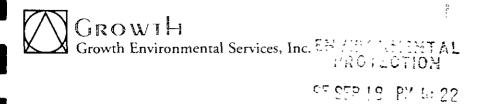
Extracted: June 8, 1995 ~

Sampled: May 25, 1995 / Method: EPA 3550/8270 Run#: 7145 Analyzed: June 12, 1995

3.173 T 270071	RESULT	REPORTING LIMIT	BLANK RESULT	BLANK SPIKE RESULT
ANALYTE	(mg/Kg)	(mq/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	5	N.D.	
2- METHYLNAPHTHALENE	N.D.	5	N.D.	
2- CHLORONAPHTHALENE	N.D.	5	N.D.	
ACENAPHTHYLENE	N.D.	5	N.D.	
ACENAPHTHENE-	N.D.	5	N.D.	75
FLUORENE	N.D.	ភសភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
PHENANTHRENE	N.D.	5	N.D.	
ANTHRACENE	N.D.	Ĕ	N.D.	
FLUORANTHRENE	N.D.	Ĕ	N.D.	
PYRENE	N.D.	Ę	N.D.	84
BENZO (A) ANTHRACENE		5		0-4
	N.D.	5	N.D.	
CHRYSENE .	N.D.	5	N.D.	
BENZO (B) FLUORANTHENE	N.D.	5	N.D.	
BENZO (K) FLUORANTHENE	N.D.	5	N.D.	
BENZO (A) PYRENE	N.D.	5	N.D.	
IDENO(1,2,3-CD)PYRENE	N.D.	5	N.D.	
DIBENZO (A, H) ANTHRACENE	N.D.	5	N.D.	
BENZO (GHI) PERYLENE	N.D.	5	N D	·
α	;	Ali-M	yh	

Chemist

Ali Kharrazi Organic Manager



UNDERGROUND STORAGE TANK REMOVALS AND REQUEST FOR CASE CLOSURE

Project Site:
Veterans Administration Medical Center
4951 Arroyo Road
Livermore, California 94550

Prepared For:

Mr. Jim Pitzer
Veterans Administration Medical Center
4951 Arroyo Road
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(510) 447-2560 Ext. 6401
(510) 455-7428 FAX

Submitted To:

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Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
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Job #SF079508

August 17, 1995

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INTRODUCTION

The purpose of this report is to document the removal of eight underground storage tank's (UST's) that were previously in use at the Veterans Administration Medical Center, 4951 Arroyo Rd., Livermore, California and to request closure of the eight tank sites. Growth Environmental Services Inc., (GROWTH) has provided environmental oversight for the tank removal and sampling. This report documents tank removal activities, over-excavation activities, confirmation soil sampling from stockpiles and tank excavation backfilling activities at the subject site.

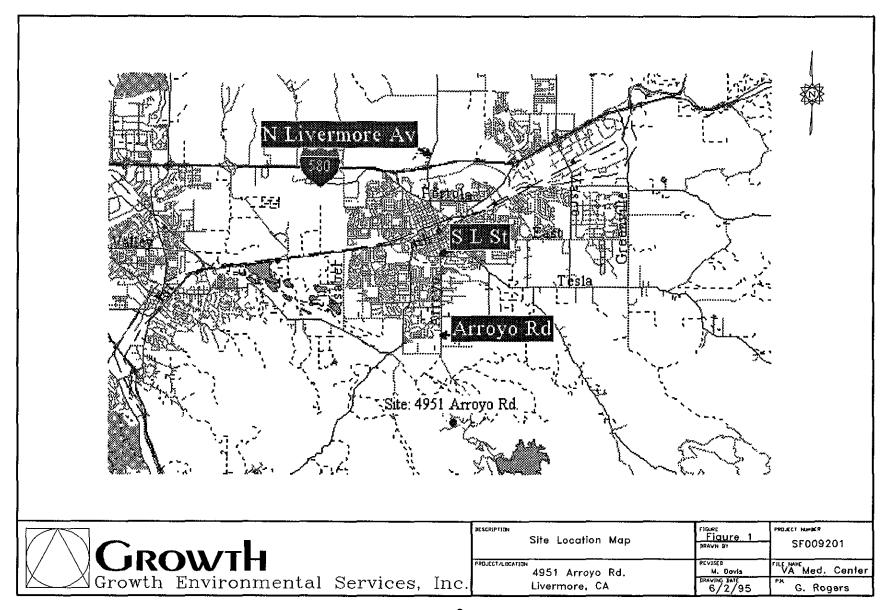
BACKGROUND

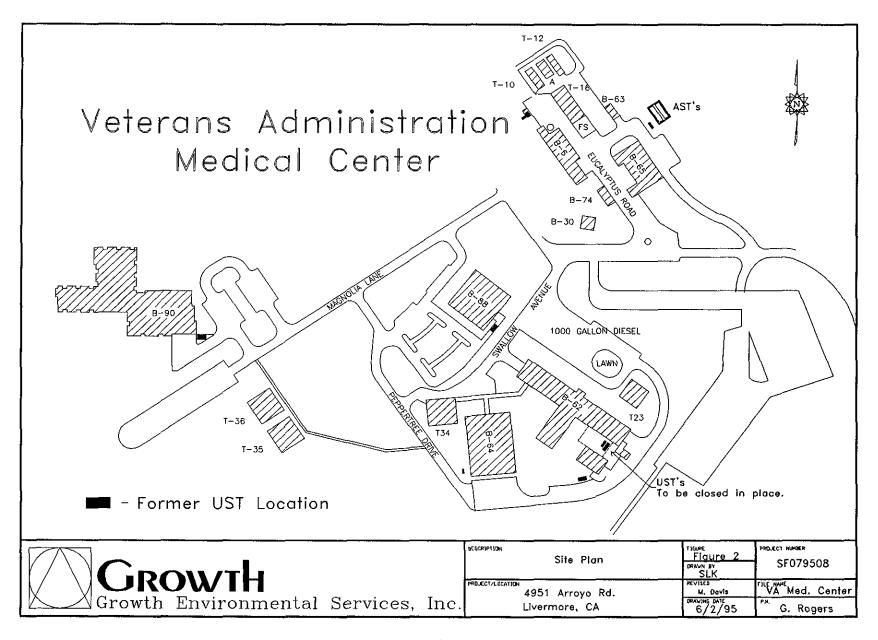
Site Location and Description. The subject property is located at 4951 Arroyo Road in Livermore, California (Figure 1). The elevation of the site is approximately 650 feet above mean sea level. Eight tanks were maintained on site ranging in size and content as follows: One 750 gallon unleaded gasoline tank one 750 gallon leaded gasoline tank and one 2,000 gallon unleaded gasoline tank in the vicinity of Building 6; one 560 gallon diesel tank behind Building 64; one 1,000 gallon diesel tank adjacent to Building 88; one 2,000 gallon diesel tank in the southeast corner of Building 90; one 500 gallon diesel tank adjacent to Building 62; and one 2,000 gallon diesel tank adjacent to the existing 20,000 gallon above ground diesel tank near Building 65. Figure 2 is a site map showing the former and existing tank locations.

Geology and Hydrogeology. The site is located on the southeastern end of the Amador Valley. The valley is bounded on the west by the Calaveras fault. Local valley fill consists of young Quaternary age alluvium approximately 400 feet thick which was eroded from the uplands on the west side of the fault. The Calaveras fault is a right lateral, northwest-trending, strike-slip fault. The VA Medical Center lies directly southwest of the Las Politas fault. The thick nature of the alluvium conceals the fault trace although structural analysis of the area implies its existence.

Rocks exposed in the uplands directly southwest of the VA Medical Center are dominantly marine sedimentary rocks. The consolidated sedimentary units above the VA Medical Center have been mapped as the Cierbo Sandstone, a marine unit with a dip of 35 to 45 degrees to the northwest. Miocene aged light gray arkosic sandstones are present within the Cierbo Sandstone. This unit is underlain by the upper Cretaceous Panoche Formation which consists of marine shales, siltstone and sandstone with interbedded nonmarine conglomerates and arkosic sandstone. Eastward across Arroyo Del Valle, the Livermore Formation, a non-marine unit consisting mostly of conglomerates with some claystones and minor sandstones, unconformably overlies the Cierbo Sandstone (Dibblee, Livermore Quadrangle, U.S.G.S., 1980). The subject property lies upon pliocene/peistocene terrace deposits.

The VA Medical Center is located in the Dublin sub-basin of the Livermore-Amador Valley groundwater basin. Groundwater flow in the sub-basin is relatively flat from the southeast toward the western portion of the Amador sub-basin where significant municipal groundwater pumping occurs. The elevated location of the subject property implies significant depth to groundwater (on the order of 50 to 100 feet bgs) although perched water may be present in coarse-grained geologic units.





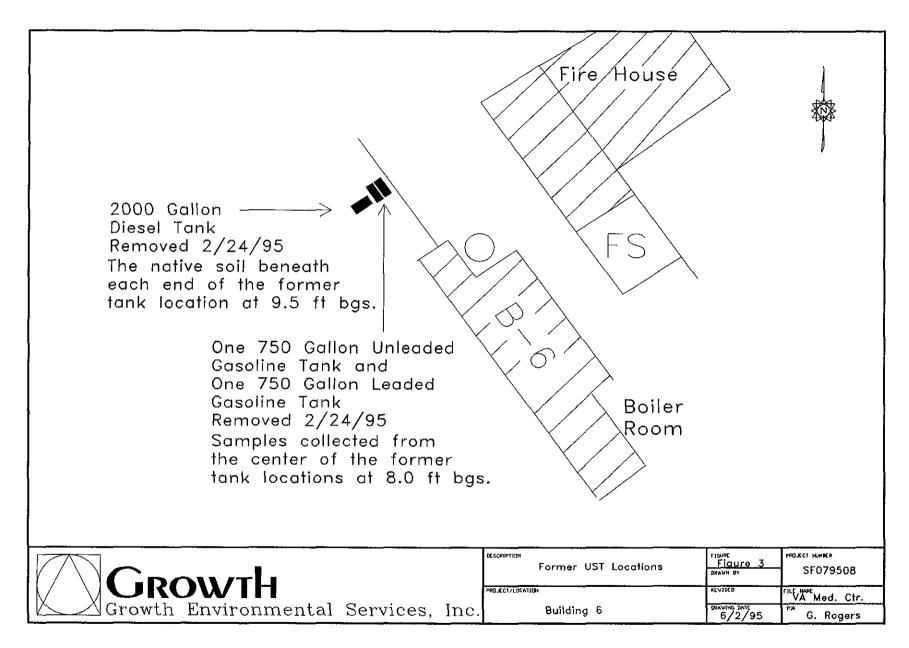
Subsurface soils observed during the tank removal activities included homogeneous brown silt as well as interbedded silts, sands and gravels. The sediments beneath the subject property exhibited normal grading, from coarser units of sandy gravel near the bottom of the excavation (approximately 10 feet bgs) to finer lithologies, in this case silts, near the top. Silts were again encountered in areas where the excavation exceeded 10.5 feet below grade surface (bgs) and this change was marked by a sharp basal contact between the graded beds and the underlying silt. This type of deposition is commonly associated with gravitationally driven alluvial fan and landslide processes.

Tank Removals Near Buildings 6 and 64

Tank Removals. On February 24, 1995 four UST's were exposed, excavated soils were stockpiled and the tanks were removed by Remedial Construction Inc. (RCI), using a 580 K backhoe. Three UST's were located in the vicinity of Building 6 and one on the west side of Building 64. Two 750 gallon gasoline tanks, one leaded and one unleaded, and one 2,000 gallon unleaded gasoline tank located near Building 6 (Figure 3) had their lower explosive limits (LEL's) lowered using 30 lbs. of dry ice in each of the two 750 gallon tanks and 50 lbs. in the 2,000 gallon tank. The two 750 gallon tanks were constructed of ½-inch-thick steel. Rust and some pitting were noted, but no holes were observed. The 2,000 gallon diesel tank was constructed of double walled fiberglass encased in a tar wrap and no holes were noted. Concrete footers and steel strap tie downs were encountered beneath each of the three tanks in this location. The straps were removed and disposed of with the tank. The concrete slabs were covered in place with clean backfill.

One 560 gallon diesel tank was also removed on February 24, 1995 from the western side of Building 64 (Figure 4). This tank was in good condition with no evidence of any holes. A small amount of corrosion was noted but it did not compromise the integrity of the tank. No concrete was encountered in this location. Following removal, the tanks and their associated product lines and tie downs were hauled as non-hazardous scrap to Erickson Inc., for recycling under Uniform Hazardous Waste Manifest # 95206251 (see Appendix A).

Soil Sampling and Analytical Results. Confirmatory bottom samples were collected at the Building 6 tank site. The soil samples were collected using a slide hammer, extension rods and 2 inch diameter brass tubes following over-excavation activities. Two samples were collected from the two 750 gallon tank excavation. The samples were collected between the concrete footers at 8 feet below grade. The analytical results for the soil sample collected from the northern 750 gallon tank location were below detection limits for both Total Petroleum Hydrocarbons as gasoline (TPH-G) and Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX). McCampbell Analytical of Pacheco California, a state certified laboratory, analyzed all samples collected by GROWTH. The soil samples were analyzed by EPA modified Method 8015, EPA Method 8020 and LUFT metals by EPA Method 6010. Minor amounts of these metals were detected in soils collected from near the southern 750 gallon gasoline tank, but they fell well below county action levels (see Table 1A). Copies of the original laboratory reports are provided in Appendix B.



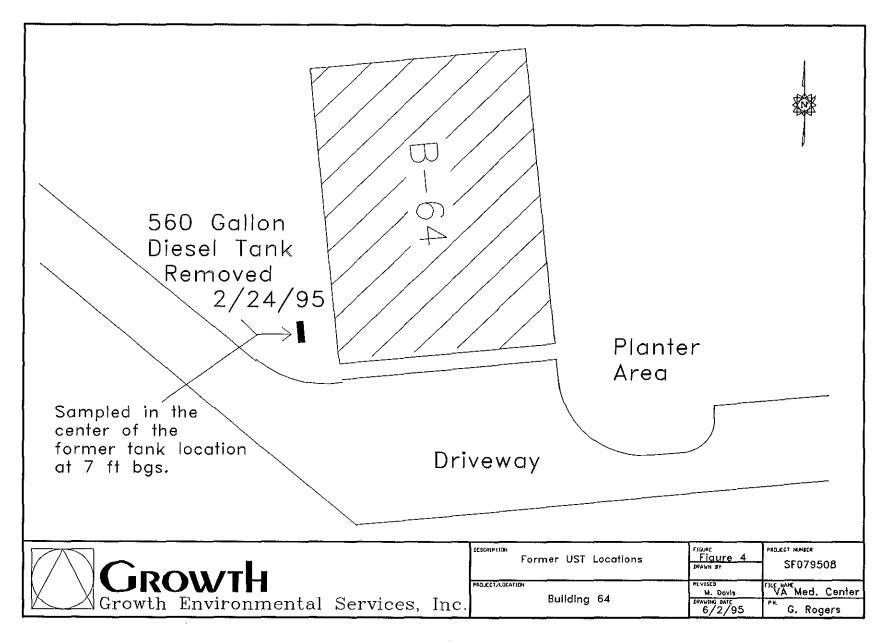


Table 1A

Analytical Results from Soil Samples Collected 2/24/95

Near Buildings 6 and 64

Sample Results Reported in mg/kg (equivalent to ppm)

Sample I.D.	TPH-G	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes
560-D @7'	NA	ND	ND	ND	ND	ND
560-D Stkp	NA	9.9	ND	ND	ND	ND
750-G N@8'	ND	NA	ND	ND	ND	ND
750-G S@8'	1.7	NA	ND	0.005	0.005	0.042
2000-G N@9.5'	4.4	NA	0.013	0.081	0.040	0.29
2000-G S@9.5'	ND	NA	ND	ND	ND	ND
750-G Stkp 1	ND	NA	ND	ND	ND	ND
750-G Stkp 2	4.6	NA	ND	0.013	ND	0.062
2000-G Stkp 1	ND	NA	ND	ND	ND	ND
2000-G Stkp 2	ND	NA	ND	ND	ND	ND
Detection Limits	1.0 (mg/Kg)	10 (mg/Kg)	0.005 (mg/Kg)	0,005 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)

NA - Not Analyzed

ND - Below detection limits

Because one of the 750 gallon gasoline tanks stored leaded gasoline, a TTLC analysis for total lead was run on both of the samples collected from this excavation (Table 1B). None of the levels detected required any further action by Alameda County Department of Environmental Health.

Table 1B
Total Lead Results from Soil Samples Collected 2/24/95
Near Building 6

Sample I.D.	Extraction	Total Lead
750G N@8'	TTLC	26
750G S@8'	TTLC	42
750G Stkp 1	TTLC	30
750G Stkp 2	TTLC	31
Detection Limits mg/kg	TTLC	4.0 mg/Kg

Soil samples were collected from the 2,000 gallon gasoline tank excavation in a similar fashion. One soil sample was collected from both the northern and southern ends of the tank excavation, both from 9.5 feet below grade. Both samples were analyzed for TPH-G/BTEX by EPA modified method 8015 and EPA Method 8020.

TPH-G was detected at a concentration of 4.4 mg/kg, benzene was not detected and the other constituent concentrations were well below regulation action levels. A summary of these soil sample analytical results is provided in Table 1A. The soil sample collected from the 560 gallon diesel tank excavation was collected in the center of the excavation at 7 feet below grade. It was analyzed for TPH-D/BTEX by EPA modified method 8015 and EPA Method 8020. The results were below detection limits for all analytes.

Three stockpiles were generated during these excavation activities. The stockpile soil sample analytical program was the same as that for corresponding tank pit soil samples. Five stockpile soil samples, two from each of the Building 6 stockpiles and one from the Building 64 stockpile, were collected by GROWTH. Based on the analytical results for the five soil stockpile samples, the three stockpiles were approved for use as backfill material by Eva Chu of the Alameda County Department of Environmental Health, and the material was returned to the respective excavation areas. Stockpile soil analytical results are summarized in Tables 1A and 1B.

Tank Removals Near Buildings 88 and 90

Tank Removals. On March 27, 1995 two diesel tanks were removed from the VA Medical Center near Buildings 88 and 90 (Figures 5 and 6). Near Building 88, one 1,000 gallon double walled fiberglass diesel tank was exposed, inerted with 30 lbs. of dry ice and removed by RCI, using a 580 K backhoe. Once the tank was removed, visual inspection revealed that no holes or perforations were present in the tank. No petroleum hydrocarbon staining or odors were detected in the excavation or in the stockpiled soil. The tank rested on a concrete slab.

Near Building 90, one 2,000 gallon, single-walled steel diesel tank was exposed, its lower explosive limit was lowered with 50 lbs. of dry ice and removed by RCI. No petroleum odor was present or staining observed in the tank pit or in the stockpiled soil.

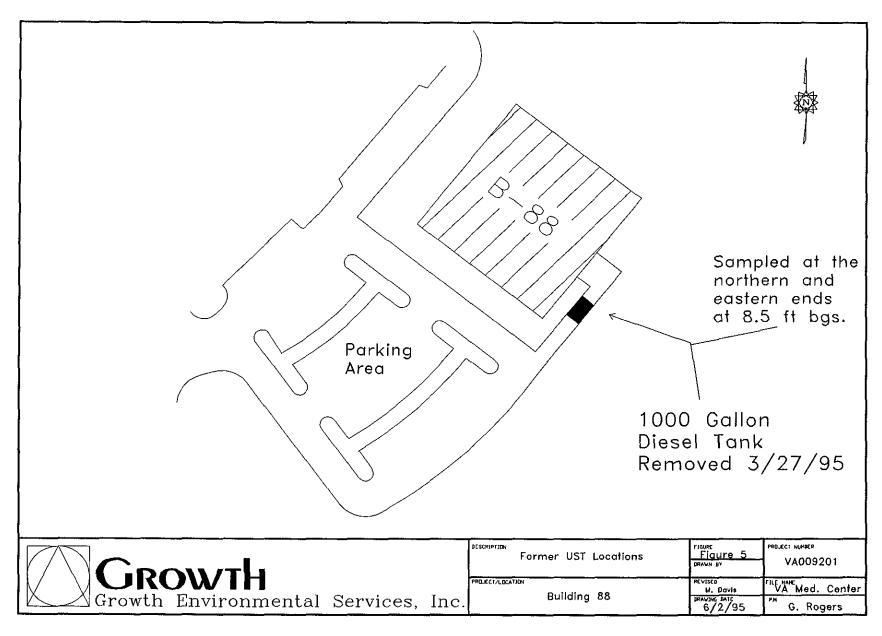
The tanks and their associated product lines were hauled as nonhazardous scrap to Erickson Inc., for recycling under Uniform Hazardous Waste Manifest # 95204830 (see Appendix A).

Soil Sampling and Analytical Results. Two samples of native soil were collected beneath and adjacent to the concrete slab that acted as a footer for the 1,000 gallon Building 88 diesel tank. Soil samples were collected from the northern and southern ends of this former tank location. The northern sample was collected from a depth of 8.5 feet below grade and the southern sample was collected beneath the fill end of the former tank from a depth of 9 feet below grade. One discrete stockpile soil sample was also collected at this time.

The samples were analyzed for TPH-D and BTEX by EPA modified methods 8015 and EPA Method 8020, respectively. Both native soil samples from the Building 88 excavation yielded results which were below detection limits for all analytes. The stockpile soil sample contained 52 ppm TPH-D, whereas, BTEX constituents were not detected. This material was disposed of under manifest #529364 to Browning-Ferris Industries Vasco Road site.

Two soil samples were collected from the excavation near Building 90 and analyzed for TPH-D and BTEX by EPA modified method 8015 and EPA Method 8020, respectively. Both the western and eastern samples were collected in native soil at 10 feet below grade. The results of the laboratory analysies indicated 3.2 ppm diesel in the western sample. The soil sample results were below detection limits for all other analytes. Two discrete soil samples were collected from the stockpiled soil and analyzed for TPH-D and BTEX. Diesel was detected at a level of 11 ppm and no BTEX was detected. GROWTH obtained regulatory approval from Alameda County for this material to be used as backfill. The second Building 90 stockpile soil samples resulted in 26 ppm for diesel and was disposed of under manifest #529364 to Browning-Ferris Industries Vasco Road site (copies of soil disposal manifests are provided in Appendix C).

All analytical results from this sampling event are summarized in Table 2. Copies of the original laboratory reports are provided in Appendix B.



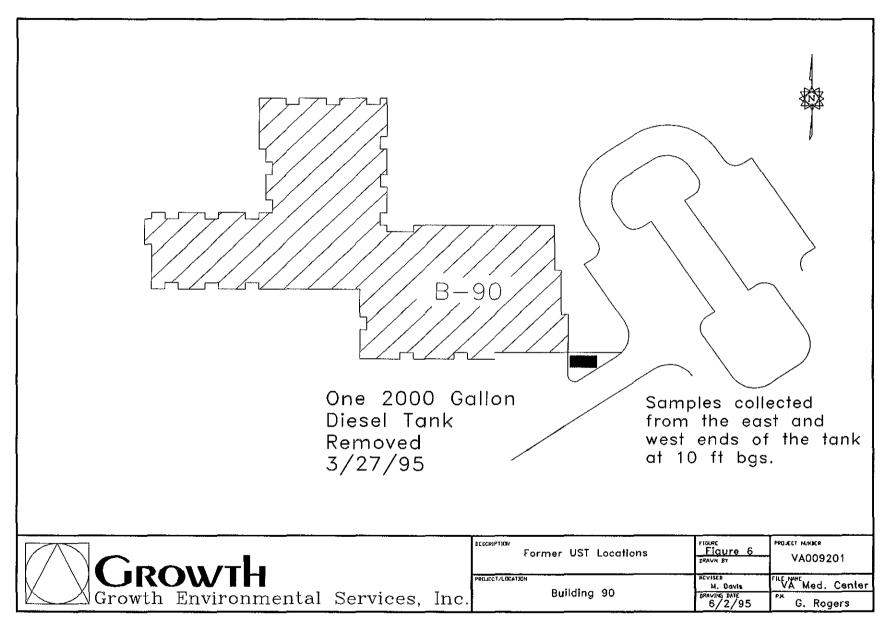


Table 2
Analytical Results from Soil Samples Collected 3/27/95
Near Buildings 88 and 90
Sample Results Reported in mg/Kg (equivalent to ppm)

Sample I.D.	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes
Bld. 88-N	ND	ND	ND	ND	ND
Bld. 88-S	ND	ND	ND	ND	ND
Bld. 90-W	3.2	ND	ND	ND	ND
Bld. 90-E	ND	ND	ND	ND	ND
Bld. 88 Stkp.	52	ND	ND	ND	ND
Bld. 90 Stkp1	11	ND	ND	ND	ND
Bld. 90 Stkp2	26	ND	ND	ND	ND
Detection Limits	1.0 mg/Kg	0.005 mg/Kg	0.005 mg/Kg	0.005 mg/Kg	0.005 mg/Kg

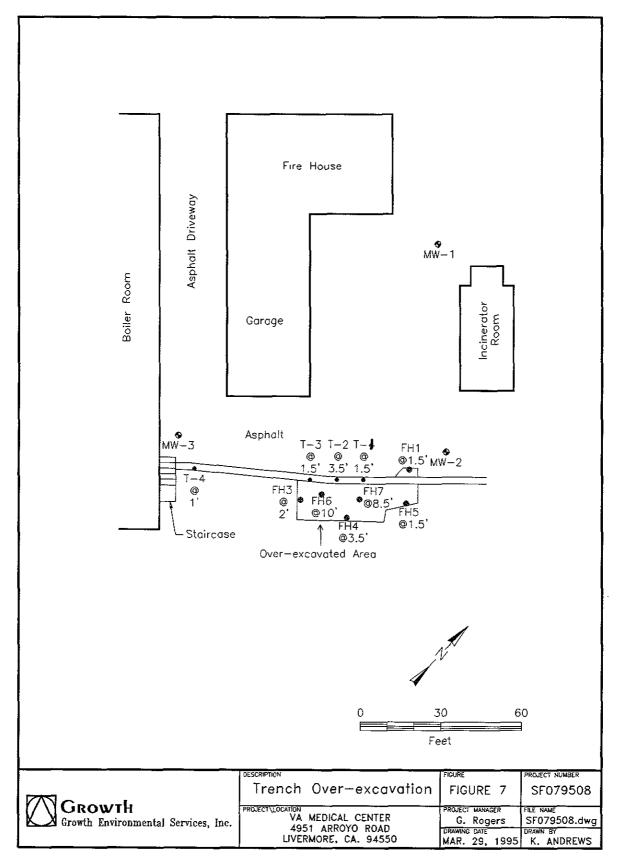
ND - Below Detection Limits

TRENCHING AND OVER-EXCAVATION NEAR THE FIRE STATION

Two 12,000 gallon underground storage tanks (see Figure 7) were excavated and removed from the VA Medical Center Fire Station, located at 4951 Arroyo Road, Livermore, California (Figure 1) in November 1990. The tanks stored No. 5 fuel oil and had not been used since 1965. During tank removal conducted by Augeas Corporation, contamination of subsurface soils and groundwater beneath the site was identified.

In November and December 1990, approximately 4,000 cubic yards of soil were excavated and stockpiled on site. Soil samples collected during excavation revealed levels of contamination at 9,000 ppm Oil and Grease (O+G) and 3,700 ppm of Total Petroleum Hydrocarbons as Diesel (TPH-D) in the excavated soil.

In 1991, Augeas Corporation reported that soil sample analytical results indicated that fuel oil contamination existed only on the northwestern wall extending under the fire house garage. During in-house trenching activities in front of the fire house at the VA Medical Center, operators encountered what appeared to be petroleum hydrocarbon contamination in the soil. On March 17, 1995 a GROWTH geologist collected four soil samples at locations marked T-1 through T-4 on Figure 7. Diesel contamination was detected in the samples up to a level of 5700 ppm, and over-excavation activities were initiated on March 29, 1995. The soil removed extended the middle of the original trench to approximately 12 feet by 45 feet to an average depth of 7 feet



below grade. Stockpiled soil was sampled in four to one composites and disposed of, along with stockpiled soil from the Building 65 tank removal activities, to Browning-Ferris Industries under non-hazardous special waste manifest #'s 529365 and 529366 (copies of soil disposal manifests are provided in Appendix A).

~36cy

The depth and extent of the over-excavation was determined by visual inspection. Subsequent confirmatory bottom and sidewall samples were collected by GROWTH. Five soil samples were collected from the side walls and two from the bottom (Figure 7). Low levels of TPH-D were detected using EPA method 8015 (see Table 3A), although further excavation was not required by Eva Chu of the Alameda Department of Environmental Health. The post-excavation soil sample analytical results ranged from ND to 30 ppm for diesel. All analytical results from this sampling event are provided in Tables 3A and 3B.

Table 3A
Fire Station Excavation Soil Samples Analytical Results
Collected on 3/17/95 and3/29/95
Sample Results Reported in mg/Kg (equivalent to ppm)

Sample I.D.	TPH-G	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes
Stkp 1 (3/17/95)	NA	19	ND	ND	ND	ND
T-1	NA	5700	0.017	0.022	0.21	0.50
T-2	NA.	50	ND	ND	ND	0.009
T-3	NA	3.5	ND	ND	ND	ND
T-4	NA	ND	ND	ND	ND	ND
Stkp 1 (3/29/95)	47	980	ND	0.005	0.022	0.078
Stkp 2	9.2	760	ND	ND	ND	ND
FH-1 @ 1.5'	ND	ND	ND	ND	ND	ND
FH-2 @ 3.5'	ND	3.0	ND	ND	ND	ND
FH-3 @ 2'	ND	6.2	ND	ND	ND	ND
FH-4 @ 3.5'	ND	ND	ND	ND	ND	ND
FH-5 @ 1.5'	ND	22	ND	ND	ND	ND
FH-6 @ 10'	ND	9.7	ND	ND	ND	ND
FH-7 @ 8.5'	ND	30	ND	ND	ND	ND
Detection Limits	1.0 mg/Kg	10 mg/Kg	0.005 mg/Kg	0.005 mg/Kg	0.005 mg/Kg	0.005 mg/Kg

NA - Not Analyzed

ND - Below Detection Limits

Table 3B
LUFT Metal Results from Soil Samples Collected at Trench on 3/17/95
and Over-excavation on 3/29/95
Sample Results Reported in mg/kg (equivalent to ppm)

Sample I.D.	Lead	Cadmium	Chromium	Nickel	Zinc
Stkp 1 (3/17/95)	7.8	ND	17	22	31
T-1	6.1	ND	13	11	19
T-2	6.5	ND	22	20	28
T-3	8.3	ND	17	16	39
T-4	4.9	ND	16	14	23
Stkp 1(3/29/95)	7.6	ND	16	16	30
Stkp 2	7.1	ND	23	21	35
FH-1 @ 1.5	ND	ND	26	30	27
FH-2 @ 3.5'	7.5	ND	20	20	40
FH-3 @ 2'	14	ND	25	21	45
FH-4 @ 3.5'	6.3	ND	16	17	35
FH-5 @ 1.5'	4.8	ND	16	9.9	19
FH-6 @ 10'	9.9	ND	25	35	41
FH-7 @ 8.5'	8.6	ND	37	51	6
Detection Limits	4.0 mg/kg	1.0 mg/kg	5.0 mg/kg	2.0 mg/kg	1.0 mg/kg

ND - Below Detection Limits

Tank Removals Near Buildings 62 and 65

Tank Removals. On May 19, 1995 two double-walled fiberglass UST's were exposed, the interior LEL lowered, and removed by RCI. The 2,000 gallon double-walled fiberglass diesel tank formerly located near Building 65 (Figure 8) was made inert using 50 lbs. of dry ice. The tank appeared in good condition with no holes or cracks noted. The 500 gallon diesel tank formerly located behind the pump house southwest of Building 62 (Figure 9) was composed of double-walled fiberglass and mounted on a concrete slab. It was made inert using 25 lbs. of dry ice. There was no sign of any holes or perforations on the outside of the tank.

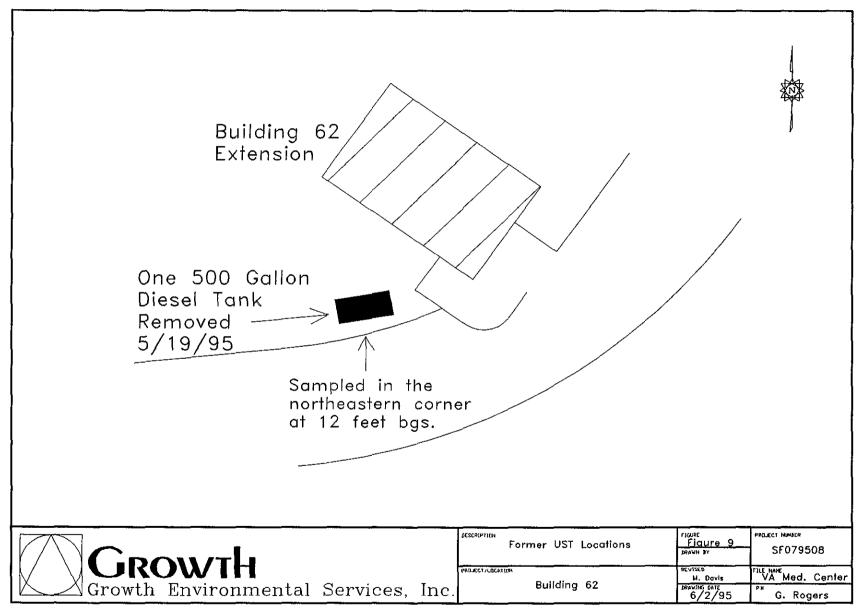
The tanks and their associated product lines were hauled as non-hazardous scrap to Erickson Inc., for recycling under Uniform Hazardous Waste Manifest # 95205623 (see Appendix A).

Sampling and Analytical Results. One soil sample was collected from the northern edge of the Building 65 excavation at 10 feet below grade in stained green clayey gravel. The second sample was collected from the eastern sidewall at 11.5 feet below grade. Both were analyzed for TPH-D and BTEX by EPA methods modified 8015 and 8020 as well as polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270 and extraction method 3550.

The stockpile was sampled twice and analyzed for the same hydrocarbon parameters as the confirmatory bottom samples.

The sample collected from the eastern portion of the Building 65 excavation yielded analytical results which were below detection limits for all analytes. The northern sample from the Building 65 excavation contained 2100 ppm diesel and a trace of pyrene (0.06 ppm). Over-excavation continued to 12 feet below grade. This area of the excavation was re-sampled along with the trench that contained the associated piping. These samples were analyzed for TPH-G, TPH-D and BTEX. Low level gasoline was detected as well as diesel, although none of the BTEX analytes were detected. No further action was required by Alameda County Department of Environmental Health. Analytical results are summarized in Tables 4 and 5. Copies of the original laboratory reports are provided in Appendix B.

The former 500 gallon diesel tank location was sampled in the center of the excavation at 12 feet below grade. One stockpile sample was also collected. The soil samples were analyzed for TPH-D and BTEX. None of these analytes were detected in the native soil. The backfill material contained 210 ppm diesel, but there was no BTEX constituents detected. This soil was transported to Browning-Ferris Industries under non-hazardous special waste manifest #'s 529365 and 529366.



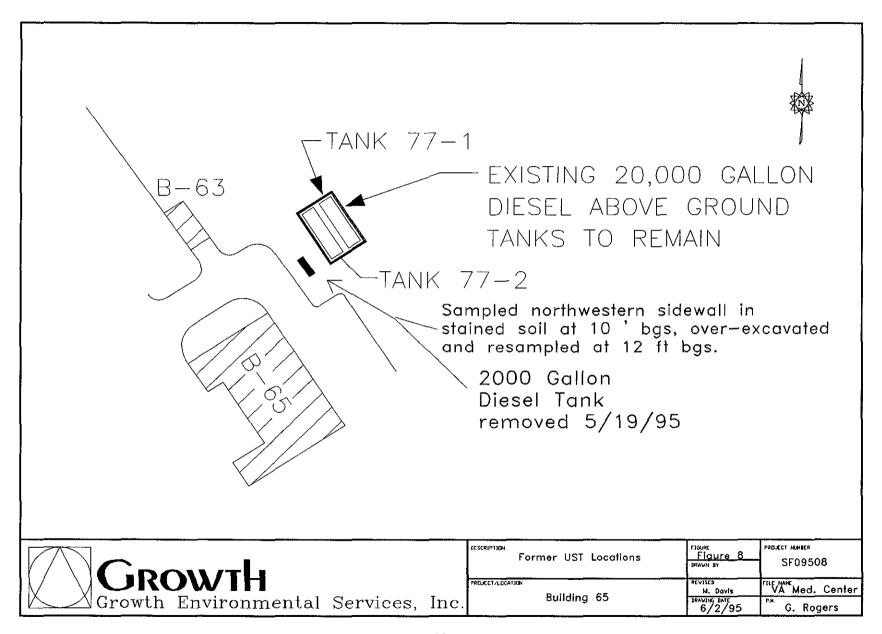


Table 4
Analytical Results from Soil Samples Collected 5/19/95
Near Buildings 62 and 65 (mg/Kg equivalent to ppm)

Sample I.D.	TPH-D	Benzene	Toluene	Ethyl- benzene	Xylenes
Bld62-500-D	ND	ND	ND	ND	ND
Bld62-500-D Stkp	210	ND	ND	ND	ND
Bld65 - N	2100	ND	ND	ND	ND
Bld65-E	21	ND	ND	ND	ND
Bld65-Stkp 1	73	ND	ND	ND	ND
Bld65-Stkp 1A	8.2	ND	ND	ND	ND
Bld65-Stkp2	200	ND	ND	ND	ND
Detection Limits	1.0 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)

ND - Below Detection Limits

Table 5
Analytical Results from Soil Samples Collected 5/25/95
Near Building 65 (mg/Kg equivalent to ppm)

Sample I.D.	TPH-G	TPH-D	Benzene	Toluene	Ethyl- benzene	Xylenes
Bld.65-N-2	1.6	56	ND	ND	ND	ND
Bld.65-T-1	ND	11	ND	ND	ND	ND
Bld.65-Stkp1B	6.1	64	ND	ND	ND	ND
Detection Limits	1.0 (mg/Kg)	1.0 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)	0.005 (mg/Kg)

ND - Below Detection Limits

PNAS

,06 ppm pyrenes

BUILDING 62 IN PLACE TANK CLOSURES

Two underground storage tanks (USTs) are currently located behind Building 62. One 5,000 gallon diesel tank is situated in a northeast-southwest orientation and a 2,000 gallon diesel tank lies perpendicular to it on its northwestern side. Since their existence on the subject property, additional construction has enclosed the tank area. The two tanks are now enclosed between Building 62 to the north and northwest, electrical transformers to the south and a sloped, landscaped area to the southeast. Because of the enclosed nature of the tank location, in place closure was considered the best option by Alameda County Department of Environmental Health.

SAMPLING BENEATH THE TANKS

One angled boring was advanced using Geoprobe sampling equipment. The truck-mounted hydraulic foot was tilted and the sampler and rods were advanced at an angle of approximately thirty five degrees. One soil sample was collected at the rod depth of 20 to 24 feet at an approximate vertical depth of 12 to 13.5 feet below grade. This sample, A.B.-1 was collected in native soil beneath the 5,000 gallon diesel tank. The native soil consisted of medium brown, medium grained sand with silt with iron oxide lenses approximately ½ to ½ inch in diameter. The soil exhibited no hydrocarbon staining or odor.

Due to the limited access, sampling beneath the 2,000 gallon diesel tank required hand augered borings to be advanced. One was advanced vertically at a location between the two tanks. At approximately eleven feet below grade a concrete slab was encountered. A sample of the gray, medium sand backfill material was collected. Because the second sample was not in native soil a third boring, the second hand auger boring, was advanced beneath the northwestern fill end of the 2,000 gallon diesel tank. One soil sample was collected in native, medium brown silty sand with gravel at an approximate depth of 9.5 feet below grade.

ANALYTICAL RESULTS

The three soil samples collected from the vicinity of the Building 62 tanks were collected in plastic Geoprobe sampling tubes. Sample tubes were labeled, sealed at each end with Teflon sheeting and PVC end caps, and stored in an ice chest with ice. Samples were delivered under GROWTH chain-of-custody protocol to McCampbell Analytical, a state-certified analytical laboratory. The samples were analyzed for TPH-D (diesel) and BTEX using EPA GCFID modified methods 8015 and EPA Method 8020, respectively.

Analytical results for all three soil samples were below detection limits for all BTEX constituents. In HA-1, diesel range hydrocarbons were detected at 1.5 ppm. In HA-2, diesel was detected at 290 ppm. A summary of the analytical results is provided in Table 6.

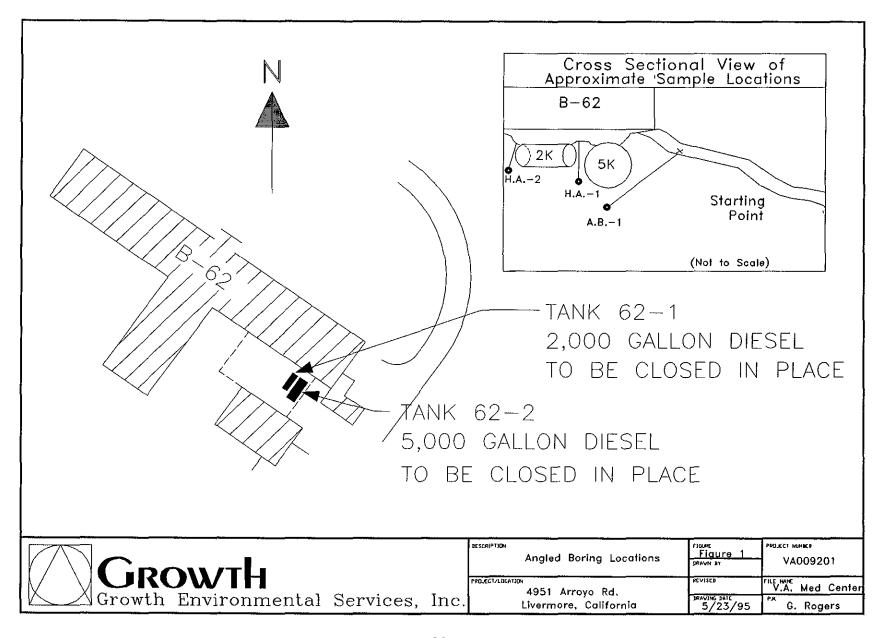


Table 6 Building 62, In Place Tank Closures Sampled May 25 and 26, 1995 Analytical Results Reported in mg/kg (equivalent to ppm)

			·			
	Sample I.D.	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes
	A.B1	ND	ND	ND	ND	ND
۲	H.A1	1.5	ND	ND	ND	ND
	H.A2	290	ND	ND	ND	ND
	Detection Limits	1.0 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg	0.005 mg/kg

Need 66 results

ND - Below Detection Limits mg/L = parts per million

TANK CLOSURE

all out

The tanks were vacuumed and their contents were submitted to a waste recycler. All venting pipe was disconnected and the tanks were pumped with 40 cubic yards of 4 sack sand grout by RCI to ensure that no storage space was left for rain water or other substances (Pictures documenting the grouting are provided in Appendix D). The exposed area of the tanks was covered with the displaced surface soil to grade.

CONCLUSIONS/RECOMMENDATIONS

All tank removal and associated over-excavation activities that occurred at the VA Medical center removed the majority of the petroleum hydrocarbon contamination present. The low levels that remain, or were returned as backfill, are within acceptable ranges as indicated by Eva Chu of the Alameda County Department of Environmental Health. GROWTH recommends case closure on the eight tanks that were removed at the Veterans Administration Medical Center, 4951 Arroyo Road, Livermore, California.

During the sampling activities on May 25 and May 26, 1995, at the Building 62 UST's (designated to be closed in place), twoof the three soil samples collected contained detectable levels of petroleum hydrocarbons. No BTEX constituents, however, were found in any of the three samples collected on May 25 and 26, 1995. The levels and amounts of diesel present are within an acceptable range for closure in place, as communicated by Eva Chu of the Alameda County of Environmental Health. Therefore, GROWTH recommends no additional work be performed and case closure be granted for the two tanks closed in place in the vicinity of the Building 62 at the Veterans Administration Medical Center.

LIMITATIONS

This report has been prepared in accordance with generally accepted environmental, geological and engineering practices. No warranty, either expressed or implied, is made as to the professional advice presented herein. The analysis, conclusions and recommendations contained in this report are based upon site conditions as they existed at the time of the investigation, and they are subject to change.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity and interpretation of available information as described in this report. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this document or its findings, conclusions or recommendations presented herein is at the sole risk of said user.

Michael T. Davis Project Geologist Mark R. Lafferty, R.G. Director of Geosciences R.G. No. 4701

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APPENDIX A

Uniform Hazardous Waste Transportation and Disposal Manifests

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Fax ()	bisposal Method Requested: □ Working Face □ Daily Cover
Date!	>+ >
	CTERIZATION CATA MEDINAMI SINS
	white from the release of petroleum products only and is not to be used for
IMPORTANT: This form is to be used to describe contaminated soils resinazardous waste or PCB's regulated by a federal or applicable state, pro-	uiting from the release of petroleum products only and is not to be used for ovincial, or local authority.
INSTRUCTIONS: A representative of the generator must complete the V	Vaste Characterization Data (WCD) portion of this form. Please be thorough in ibly printed in link or typewritten, and the completed form must be signed and and the complete that the link being to describe the waste and expedite its review. Use the
your answers. The entire form must be completed, answers must be leg	cal data that will help to describe the waste and expedite its review. Use the
form only one time since this form has a unique WCD number assigned.	
	100000000000000000000000000000000000000
	BHINEDRIANDA
a) Generator's Name: D. V.A. Medical Center	e) Customer's Name: Remedia Constancions, EnC.
b) Generating Facility's Address: 495/ Agango Rd	f) Customer's Mailing Address: 5030 Sh.lo Rd.
City: Livea more State CA Zip. 94530	City: MOdes 10 State: A Zip. 23 33
c) Generator's Representative: 1:m P.T2 <r.< th=""><td>g) Representative:</td></r.<>	g) Representative:
- THE SPIRATION MANAGER	Telephone: (\$70) 371 - 0488
Telephone: (570) 447-2560 ExT. 6401	Fax: (50) 371 - 8481
Fax: ()	
d) Emergency/Information Contact: J:m P:Tz-c2	
Title Ofenations Manager Telephone (510) 447-2560 Ext. 6405	,
Telephone (5/0) 49 / - 23 - 22 : 49 - 3	***************************************
erer erenigitärikeiteiteiteiteiteiteiteiteiteiteiteiteite	HEATTHE AND INFORMATION OF THE PROPERTY OF THE
THE RESIDENCE OF THE PARTY OF T	
	ASTROMOVAL 3) - Spill for Medical facility.
b) Type of facility generating the contaminated soll: Back up	
c) is this waste subject to the UST corrective action regulations under 4	_ ★Cubic Yards □Tons □ Gallons □ Cubic Meters □ Tonnes(metric)
d) Anticipated Volume: Per: □Year □Month □Week □Day □	
Other Per: U Year U Month U Week U Day : To be transported in: ABulk U Drums (type/size)	
le be transported in: Aspira Updata (type-size)	Regulations? ☐ Yes Z No
terms are the second description of the property of the second assigned	ed :
f) Is this a "Special Waste", an "Industrial Process Waste", or a "Pollution	on Control Waste" as defined by State, Provincial, or local Regulations?
Yes Pino If yes, enter Waste Identification Number, if one ha	is been assigned:
at Recommended personal protection equipment and special handling	procedures: [-1000, SAPETY BOOTS - ATTENDED
hi Has a representative sample of the contaminated soil been provided	I to BFI? TYes Pano (Level C)

Collector's Name: Michael Davis

Signature: Michael Davis

Company: Conouth Environmental

Title: Project Manager

Telephone Number: (202) 745-0171

Me Campbell Analytical (peel off label)

Generator's Name: D.V.A. Medick (content of label)

Waste Description: Soil Content of label)

Date Collected: 5/25/95

Date Collected: _

WCD No. SB

Telephone (916) 381-6864 EAX (916) 381-1573 MA	NLEY &				INC.	HAZARDOUS WASTE HAULER REG. NO. 2843
DATE: (0-16-95 MATERI		TYPE OF	BELT D	O, CA 95828 HOT PLANT CONT LOADER S	OTHER.	FREIGHT PRILL NO: 28699
ESTINATION: FT	LIVERN	IDRE	John Co. J.	CONT LOADER &	-	TIME CARD HOURS
OINT OF ORIGIN: DILLA	111/EA	20006) <u></u>			START A STOP
CONSIGNOR: () 1/ A	INIVE	CONSIGNOR	<u></u>			TOTAL
ONSIGNEE: DET		ADDRESS CONSIGNEE				S DEDUCT
DEBTOR: RC I		ADDRESS DEBTOR	 -			NET
CATION TOB AND : 9	"30 MILEAGE	ADDRESS	0781	WHEN ZONE	RATES APPLY.	YARDAGE CAPY
TAG NUMBER WEIGHT	LOADING		LEAVE SCALES	UNLO A DI	DEL ZONE NG TIMES	REMARKS
170 NOMBER TREOM	ARRIVE Q'20	DEPART	SCALES	ARRIVE	DEPART	
629266 22 22	1.)0	2180		10.20	10199	OUMP 146#691781
2 52 1.767 25,00	11.12	2116		120	2:00	67177
529366 18.65	5170	212		4.45	2.110	
4	5.20					
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13						TERMS: PAYMENT DUE BY 20TH OF FOLLOWING MONTH (Section 7108.6 of
						the California Business & Professions
15						Code). A service charge of 11/2% per month (18% per annum) will be charged on past
_						due accounts. Debtor (Contractor) agrees to pay reasonable attorney fees and court
					<u> </u>	costs in case of suit to collect. BID HOURS
						SID NOCKS
SPATCH ELAPSED RUN	INING TIME		E (4) TO LAST LOAD S DOUBLE LINE (6)		ME THAT DEBTO	DR ELAPSED UNLOADING
TIME: B LOADED TRAV				UNE G TO PA	Y FOR ISHOW DOV ME LUNCH ETC MARKS SECTION)	IN LINE OLESS
TIME: 4.50 " END TIME		TOTA	L TIME: 🏷	D	EDUCTIONS:	' NET TIME: 8
X Don adker	CAL	T-NO ENSE NUMBER	1.027	NO OF AXLES 5 CHECK IF UNDER 156 BETWEEN 1ST AND LAST AXLES	RATE AND CHARGES	OR HRS RATE AMOUNT DUE
DERLYING RRIER	16) SEN	E06234			CONSIGNSE 7	
DRESS	972 PUL	17774	M11		CONSIGNAE SIGNATURE	ul
						
Į.					,	
_						



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS N

If waste is asbestos waste, co	mplete Sections I; II, III and IV. No. 529364
II WASIE IS NOT ASSESSED WAS	te complete only Sections I, II and III
VA MEDICAL CENTER	WAS NEDICAL CENTER (ASSESSED)
	b. Generating Location:
Cartes	d. Address: 4951 ARBOYO ROAD
LIVERACRE, CA. 94550	LIVERNORE, CA 1997
Gone No. (510) 447-2560 X 6405	f. Phone No.: (510) 447-2560 X 6405
me, of the generating facility differs from the generator, provide:	
	h Owner's Phone No.:
C A 4 0 5 0 6 1 3 9	Containers DM - METAL DRUM DP PLASTIC DRUM
escliption of Waste:	k Quantity units No. TYPE BA 6 MIL PLASTIC BAG
PETROLEUM CONTAMINATED SOIL ***	T TRUCK OF OTHER
NERATOR'S CERTIFICATION: I hereby certify that the above named material is applicable state law; has been properly described, classified and packaged.	s not a hazardous waste as defined by 40 CFR Part 261
opiicable regulations; AND, if the waste is a treatment residue of a previously r	estricted hazardous waste subject to the Land Disposal . V - VARDS
trictions; certify and warrant that the waste has been treated in accordance with a continuous waste as defined by 40 CFR Part 261.	are a figure of the control of the
JIN PITZER	O - OTHER
Pherator Authorized Agent Name Signature	Shipment Date
TRANSPORTER (Generator	complete and Transporter Loomplete (a.g.)
MANLEY & SONS TRUCKING, INC.	TRANSPORTER II
8896 ELDER CREEK ROAD	
SACRAMENTO, CA 95828	_ I. Address:
river Name Fitte: WAA FOKINS	Driver Name/Title:
1000 No.: 916-381-6864 PRINT/TYPE P. Truck No.: M //	k. Phone No.:
Bhicle License No./State: <u>CA. 9006234</u>	
cknowledgement of Receipt of Materials.	m. Vehicle License No./State: Acknowledgement of Receipt of Materials.
100 Collins 06159F	
Shipment Date	Driver Signature Shipment Date
	mptetes a.d. destination site completes e.t.)
le Name:	c. Phone No.:



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 529366

ACOT N. VASCO ROAD

रत्याः हरा है			
Perferator Name: VA MEDICAL CENTER	b.:Generating Location:	VA MEDICAL CE	VIER
495! AFFOYO ROAD	d. Address:	4951 ARROYO ROA	ND .
LIVERMORE, CA. 94550	u. Address.	LIVERMORE, CA	
tone No.: (510) 447-2560 X 6405	f. Phone No.:	(510) 447-2560	X 6405
mer of the generating facility differs from the generator, provide:	h. Owner's Phone No.: _		
F VASTE CODE C A 4 0 5 0 8 1 3 9 5	47624	Containers	TYPE DM - METAL DRUM DP - PLASTIC DRUM
eactipition of Waste: PETROLELM CONTAMINATED SOIL	Quantity	Units No. TYPE	B - BAG BA - 6 MIL PLASTIC BAG of WRAP T TRUCK O OTHER
ENERATOR'S CERTIFICATION: I hereby certify that the above named material is any applicable state law, has been properly described, classified and packaged, philoable regulations; AND, if the waste is a treatment residue of a previously restrictions, I certify and warrant that the waste has been realed in accordance with taxanious waste as defined by 40 CFR Part 281.	and is in proper condition for t	ransportation according to	P - POUNDS Y - YARDS M3 - CUBIC METERS Y3 - CUBIC YARDS O - OTHER
enerator Authorized Agent Name	Shipn	nent Date	
STILL TRANSPORTER (Generator	companie a di Prancionalia	onibilities (C.)	
TRANSPORTER I MANLEY & SONS TRUCKING, INC.	gráfi je	TRANSPORTER	
8996 ELDER CREEK ROAD	h. Name:		
SACRAMENTO, CA 95828	_ i. Address:		
Wer Name/Title: DON ANKINS			THE WARREN
916-381-6364 PRINT/TYPE none No.: e. Truck No.:	k. Phone No.:	PRIM	Truck No.:
Hicle License No./State: <u>CA, 7CC6234</u>	m. Vehicle License No		
Knowledgement of Receipt of Materials.	Acknowledgemen	nt of Receipt of Materia	
for Signature Shipment Date	Driver Signature		Shipment Date
B.F.I. BISTINATION (Generator con	nplates and destination site of	Chipietes e-1) (*** (510) 447-049	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS N

If waste is asbestos waste, complete Sections I, II, III and IV.

No. 52936.5

क्रिकेट कर्म अस्तिवाचित्रपूर्वा १६			
Generator Name: VA MEDICAL CENTER	_b. Generating Location:	VA MEDICAL CE	VIER-13/SIGN TO 1
Address: 4951 ARROYO ROAD	d. Address:	4951 ARROYO RO	ND: 23 7
LIVERNORE. CA. 94550	. u. Audiess.	LIVERMORE, CA	
thone No.: (510) 447-2560 X 6405	f Dhone No.	(510) 447-2560	X 6405
winer of the generating facility differs from the generator, provide:	_f. Phone No.:	4	
Dwner's Name:	h. Owner's Phone No.:		
C A 4 0 5 0 6 1 3 9	5 4 7 6 2 4	S Containers	DM METAL DRUM DB PLASTIC DRUM
Eliption of Waster	k Quantity	Units No. TYPE	B BAG BA 6 MIL. PLASTIC BAG
PETROLELM CONTAMINATED SOIL	# 4 8	Y DIT	OF WRAP TO - TRUCK O - OTHER
ENERATOR'S CERTIFICATION: I hereby certify that the above named material any applicable state law, has been properly described; classified and packaged policable regulations; AND, if the waste is a treatment residue of a previously lestrictions, I certify and warrant that the waste has been treated in accordance with a property of the part 261. JIN PITZEP Senerator Authorized Agent Name Someture	and is in proper condition for	transportation according to	P - POUNDS Y - YARDS M³ - CUBIC METERS Y³ - CUBIC YARDS O - OTHER
tion it TRANSPORTER (German	'	ment Date compane e-2 Compane (E)	
MANLEY & SONS TRUCKING, INC.		TRANSPORTER	П
8896 FLDFR CREEK POAD	h. Name:		
ddress: SACRAMENTO, CA 95828	i. Address:		
Don Dours	<u>-</u> 9355		and the second of the second
TiveC Name / Title: 101/ 010/K/NV 9 916-381-6884 PRINT/TYPE	j Driver Name/Title		IT/TYPE
none No.: e. Truck No.:	k. Phone No.:		Truck No.:
efficie License No./State: CA 9006234	m. Vehicle License N		
knowledgement of Receipt of Materials.	Acknowledgeme	ent of Receipt of Materia	is.
Nor Clother 06199			
Ver Signature Shipment Date			, , , , , , ,
	Driver Signature		Shipment Date
DESTINATION (Generator of B.F.I.	Driver Signature Impletes a-ti, destination site o	completes e-f.)	Shipment Date

APPENDIX B

Laboratory Reports

MIN	CLUTHIN
((3))	Consulting INC.
A truth	Consulting mc.

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. 1425
Laboratory: Please Call Accounts Payable for P.O. No.

#74 614 61 6 . 1	lautala CA	\$101.01 3 kd					١.	noda	atory	'i i'le	430	Cull	ACCO	initica i	, ay				• • • • • • • • • • • • • • • • • • • •					
536 Stone Road, Ste. J., 1 Ofc. (707) 745-0171 (800)	228-0171 F	94310-1016 ax. (707) 745	-0163						LE-TE-T-VEST-E-T-		····						1_	<u> Jale</u>	2/24	195	Sheel	<u> </u>	!!	- X
		<u> </u>			Pare	mete	:18							t					Lab Na Addres	nne <i>ELL</i>	בלבקומצ	vILA		
Project Number: 173.6 Project Name: Vet. Med. Address: 4900 Acress	center 2d				3015/8020			010)		(3)	ganic)	1							Phone	Humber 'Niriia		ıd T		
Sampler's Name Michael Davis Sampler's Signature Michael Davis		 ;	300	as Gasoline as Diesel SO	G and B.	ጚ & E 3020	ဗ္ဗ	volitie Organics (8010)	CAM Metals (17)	P. Pollutant Metals (13)	Base/Nieu/Acids (Organic)	Psoicides 8140/8141	hal Lead					Maure (Soil/Water)		24 11		[]	N A A N	' "
Sample Location Number	Date	Time :	<u> </u> i	E E	5-H21	日マス	ਰ	.3	<u>U</u>	ᅹ	- A	35	10								Doj "i	ţ	60441	1,
510-D @ 7'	2124/95	10: 25,4.1		_ \	<u> </u>	X	\ \		.			 -						S	 		<u> </u>	5	0442	!
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750-G North@.B'	Ì	11:40 A.I		_ -	- -		·[<u> </u> -	-	-		 	XX			i			· ···			•		
750-67 South@B'		11:45 A,1			🕏]			1-				-	-		-	-	17	-		Í		EOA	
2000 G North @ 4.5'		12:00 P.1		-		<u> </u>	-	-	-	\- <u>-</u>	-		\·			\							504	45
2000 G South@ 4.5'		12:35 P	1-	- -		<u> </u>	-	-	-	-		-	X										พระ โลว	o nell
750-61 5Hsp. 1		12:35 0.1				:	-	-					X	1	<u>-д</u>	~	1	17	_	PDE	SERV/	ATIVE:	VONS DA	
2000 · Ly SIKp1		12:30 P.1	 -	_ -	X]		_	G(or	400	iБm	I N	1 222	APF	ROPA	IATE.		
3000-Cy Stkp &		12:30P.				_	_	_		_	.	_ _	_{			\$PAI				COI	NTAINE	RS_		
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Relinquished fly		line	<u></u>		·····,			_ -			-\-			Cor	មាន	1013	l bis	She	et: 	10		<u>-</u>		1447
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t. Dispatched by	Date	Time	A Re-	rrived l	in 1 ab 1	iy			Date		- -	Tin)¢			-	on	i,	e in	icec	Hes 1	' i		
		-									-1-			1										"

Casaline Pance (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*								
	Client P.O: # 1425	Date Analyzed: 02/24-02/25/95						
Benicia, CA 94510-1016	Client Contact: Michael Davis	Date Extracted: 02/24/95						
536 Stone Road, Ste. J	Center	Date Received: 02/24/95						
Growth Environmental Services	Client Project ID: # 173-631; Vet. Med.	Date Sampled: 02/24/95						

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

Lab ID	5030, modified 8015, and 8 Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethyiben- zene	Xylenes	% Rec. Surrogate
50440	560-D @ 7'	s		ND	ND	ND	ND	97
50441	560-D Stkp	s		ND	ND	ND	ND	96
50442	750-G North 8'	s	ND	ND	ND	ND	ND	94
50443	750-G South 8'	S	1.7,b	ND	0.005	0.005	0.042	91
50444	2000-G North 9.5'	S	4.4,b	0.013	0.081	0.040	0.29	90
50445	2000-G South 9.5'	S	ND	ND	ND	ND	ND	95
50446	750-G Stkp 1	S	ND	ND	ND	ND	ND	96
50447	750-G Stkp 2	S	4.6,d	ND	0.013	ND	0.062	87
50448	2000-G Stkp 1	S	ND	ND	ND	ND	ND	97
50449	2000-G Stkp 2	S	ND	ND	ND	ND	ND	92
	n Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5	
wise stated	i; ND means Not De- tected	s	1.0 mg/kg	0.005	0.005	0.005	0.005	

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

Growth Envir	ronmental Services		Client Project ID: # 173-631; Vet. Med.	Date Sampled: 02/24/95 Date Received: 02/24/95				
536 Stone Ro			Center					
Benicia, CA	94510-1016	ļ,	Client Contact: Michael Davis	Date Extracted: 02/24/95				
		ļ.	Client P.O: # 1425	Date Analyzed	1: 02/26-02/27/95			
	Diesel R	tange (C	C10-C23) Extractable Hydrocarbons as California RWQCB (SF Bay Region) method GC	Diesel *	'ID(3510)			
EPA methods m	Client ID	Matri			% Recovery Surrogate			
50440	560-D @ 7'	s	ND		97			
50441	560-D Stkp	s	9.9,a		97			
					·			
			_					
	<u> </u>							
	imit unless other-	w	50 ug/L					
wise stated; ND means Not Detected		s	10 mg/kg					

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Growth Env	ironmental Services	c C	lient Project ID:	:# 173-631; Vet. Med.	Date Sampled: 02/24/95			
36 Stone Ro	oad, Ste. J	C	enter		Date Received: 02/24/95 Date Extracted: 02/27/95			
Benicia, CA	94510-1016	C	lient Contact: M	lichael Davis				
		c	lient P.O: # 142:	5	Date Analyzed: 02/27/95			
			Lea	d [*]				
PA analytical	method 239.2 or 7420 ⁺							
Lab ID	Client ID	Matrix	Extraction ^o		Lead*			
50442	750-G North 8'	S	TTLC		26			
50443	750-G South 8'	S	TTLC		42			
50446	750-G Stkp 1	S	TTLC		30			
50447	750-G Stkp 2	S	TTLC		31			
	 	1						

Detection Limit unless otherwise stated; ND means Not Detected	w	TTLC	0.005mg/L
stated, ND means Not Detected	s	TTLC	4.0 mg/kg
		STLC,TCLP	0.20 mg/L
	L,		

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples o EPA extraction methods 1311(TCLP), 3010/3020 (water, TTLC), 3040 (organic matrices, TTLC), 3050 (solids, TTLC); STLC from CA Title 22

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. 1479
Laboratory: Please Call Accounts Payable for P.O. No.

536 Stone Road, Ste. J.	. Benleia, CA	94510-1016					1.4			• • •-					•				m1. 15m
Ofe. (707) 745-0171 (80	0) 228-0171 Fa	эх. <mark>(707) 745-0</mark> 1	63														1	<u>) iils</u> .	3/17/95 Sheet / of /
			• ***		Para	nete	ıs		_									_	Late Hame McConstall Flatel
Project Number: 173 - Project Name: VA Ptal Address: 4951 Acc	Center Center CA		\$015		\$015/8020		Q	3010)		(3)	rganic)		ta K						Phone Humber Turnaround Time
Sampler's Name M. Jane 1	n. 4			812	X		5528	ធ្ល	5	Sal	읽	8140/8141	Mets	1	1		1	vate	
Sampler's Signature	Davo		zs Gasoli	as Diesel	S and B	₹ ± \$020	ᇤ	Volitile Organics (8010)		Pr. Pollurant Merals (13)	Base/New/Acids (Organic)	esticides 814	<u>1057</u>					Maurix (Soil/Water)	Rush 24 Hour 48 Hour 5 Da Report to:
Sample Location Number	Date	Time :	臣		TPH-(BIX	Oil and		<u></u>	d.	38	T.	7					ZY.	Comments
Stkp 1	3/17/95	8:5'5 ,2,4		Ž		子	-			 			7					<u> </u>	*** 4 lo 1
Sthal		8:55 AM	·				-}-	 			-								Carneriste
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Relinquished by Date Time Received by Date Time

Plichar Davis 3/17/95 11:20 Am

Plichar Davis 3/17/95 11:20 Am

**PROPRIATE TIME

**Received by Date Time

**PROPRIATE TIME

**Received by Date Time

CONTAINERS

Thial Number of Containers This Sheet:

Method of Shipment

Special Shipment / Handling or Storage Requirements:

alisered on The

50968

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Growth Envir	ronmental Services				I. Date Sam	Date Sampled: 03/17/95						
536 Stone Ro	ad, Ste. J		Center, Livern	ore	Date Rec	Date Received: 03/17/95						
Benicia, CA	94510-1016	7	Client Contact:	: Michael D	Date Ext	Date Extracted: 03/17-03/20/95						
		[Client P.O: # 1	479	Date Ana	ilyzed: 03/1	7-03/20/95					
TD4	Gasoline Rang	ge (C6-C	C12) Volatile H	ydrocarbor	s as Gasoli	ne*, with B	e*, with BTEX*					
Lab ID	Client ID	Matrix	Τ	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate				
50964	Stkp 1	S		ND	ND	ND	ND	103				
50965	T-1	s		0.017	0.022	0.21	0.50	99				
50966	T-2	s		ND	ND	ND	0.009	101				
50967	T-3	s		ND	ND	ND	ND	108				
50968	T-4	S		ND	ND	ND	ND	103				
								ļ				
						<u> </u>						
		ļ										
					ļ							
Detection L	imit unless other- ; ND means Not	w	50 ug/L	0.5	0.5	0.5	0.5	4				
D	etected	s	1.0 mg/kg	0.005	0.005	0.005	0.005					

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

Client Project ID: # 173-631; VA Med. Date Sampled: 03/17/95 Growth Environmental Services Center, Livermore 536 Stone Road, Ste. J Date Received: 03/17/95 Benicia, CA 94510-1016 Client Contact: Michael Davis Date Extracted: 03/17/95 Date Analyzed: 03/17/95 Client P.O: # 1479 Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel * EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510) % Recovery TPH(d)+ Client ID Matrix Lab ID Surrogate 98 19,b 50964 Stkp 1 S 99 50965 T-l S 5700.a 97 S 50,b/e 50966 T-2 98 S 3.5,d,g 50967 T-3 97 S ND T-4 50968 W Detection Limit unless other-50 ug/L wise stated; ND means Not Detected S 1.0 mg/kg

Edward Hamilton, Lab Director

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(cl) or heavy(ch) diesel compounds are significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(degraded diesel?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

Growth Envir	onmental Services		Client Project ID: # 173-631; VA Med.	Date Sampled: 03/17/95
536 Stone Ro	ad, Ste. J	į	Center, Livermore	Date Received: 03/17/95
Benicia, CA	94510-1016	}	Client Contact: Michael Davis	Date Extracted: 03/17/95
	_		Client P.O: # 1479	Date Analyzed: 03/17/95
Total Recove	rable Petroleum B	lydroca	rbons as Oil & Grease (with Silica Gel (trometry*	Clean-up) by Scanning IR Spec-
EPA method 418	3.1 or 9073; Standard M	ethods 2	<u> </u>	
Lab ID	Client ID	Matr	x TRPH ⁺	····
50964	Stkp 1	S	250	
50965	T-1	S	12,000	
50966	T-2	s	150	
50967	T-3	S	ND	
50968	T-4	S	ND	
				
	imit unless other-	W	5 mg/L	
wise stated De	; ND means Not etected	s	50 mg/kg	
			<u></u>	

^{*}water samples are reported in mg/L and soils in mg/kg

⁺ If TPH(d) is not requested then all positive results are run by direct injection chromatography with FID detection. The following comments pertain to these GC results: a) gasoline-range compounds (C6-C12) present; b) diesel range compounds (C10-C23) present; c) oil-range compounds (> C18) present; d) other patterned solvent(?); e) isolated peaks; f) GC compounds are absent or insignificant relative to TRPH inferring that complex biologically derived molecules (lipids?) are the source of IR absorption.

Growth Envi	ronmental Service	3 -			Date Sampled: 03/17/95							
536 Stone Ro	oad, Ste. J	C	enter, Livermo	re		Date Received	: 03/17/9:	5				
Benicia, CA	94510-1016	c	lient Contact: N	Aichael Da	vis	Date Extracted: 03/17/95						
		С	lient P.O: # 147	9	Date Analyzed: 03/20/95							
			LUFT N	/Ietals*	·							
		EPA analy	tical methods	239.2,7420+	213.1,7130	218.1,7190	249.1,7520	289.1,7950				
Lab ID	Client ID	Matrix	Extraction	Lead*	Cadmium*	Chromium*	Nickel*	Zinc*				
50964	Stkp 1	S	TTLC	7.8	ND	17	22	31				
50965	T-1	S	TTLC	6.1	ND	13	11	19				
50966	T-2	S	TTLC	6.5	ND	22	20	28				
50967	T-3	S	TTLC	8.3	ND	17	16	39				
50968	T-4	s	TTLC	4.9	ND	16	14	23				
		<u> </u>										
·····												
i												
i						<u> </u>						
	nit unless otherwise neans Not Detected	w	TTLC	0.005mg/L	0.05	0.25	0.10	0.05				
•		S	TTLC	4.0 mg/kg	1.0	5.0	2.0	1.0				
			STLC,TCLP	0.20 mg/L	0.05	0.25	0.10	0.05				

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 7420 (AA Flame) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples o EPA extraction methods 1311(TCLP), 3010/3020 (water, TTLC), 3040 (organic matrices, TTLC), 3050 (solids, TTLC); STLC from CA Title 22

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CHAIN OF CUSTODY RECORD Laboratory Analysis P.O. No. 1494

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536 Stone Road, Stc. J., B Ofc. (707) 745-0171 (800)	lenicia, CA 9 228-0171 Fa	4510-1016 x. (707) 745-	0163				•						_,				<u>Dai</u>	ي	3/27/9				====
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Project Number: 173-63 Project Name: VA Med Address:	Canter Canter	ر مساعد مشور با مشور ب	53		\$015/802d			(3010)		(13)	rganic)	41						~	ddiest — lune Hon 'Nt			lime	
Sampler's Name Michael Day Sampler's Signature Michael Days		· ·	as Gassoline 8015	as Diesel SO	TPH-G and B.TE.X	B.TX & 5 8020	Oil and Grease 5520	Organica	CAM Metals (17)	Pollutani Metais (13)	Base/New/Acids (Organic)	Psticide 8140/8141					Marrix (Soil/Water)			1 Hour			Day
Sample Lacution	Date	Time :		E	F	쁘	g	. <u>ē</u>	<u>Ü</u>	<u> </u>	<u> </u>	- C			_	- -	- 2	_			099		j
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McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Growth Environmental Services 536 Stone Road, Ste. J	Client Project ID: # 173-631; VA Med. Center	Date Sampled: 03/27/95 Date Received: 03/27/95
Benicia, CA 94510-1016	Client Contact: Michael Davis	Date Extracted: 03/27/95
	Client P.O: # 1496	Date Analyzed: 03/27/95

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID (5030)												
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate				
51099	Bld. 88 -N	s		ND	ND	ND	ND	108				
51100	Bld. 88 -S	s		ND	ND	ND	ND	98				
51101	Bld. 90-W	S		ND	ND	ND	ND	106				
51102	Bld. 90-E	s		ND	ND	ND	ND	109				
51103	Bld. 88 Stkp	S		ND	ND	ND	ND	99				
51104	Bld. 90 Stkp 1	S		ND	ND	ND	ND	97				
51105	Bld. 90 Stkp 2	S		ND	ND	ND	ND	99				
	imit unless other- ; ND means Not	W	50 ug/L	0.5	0.5	0.5	0.5					
	etected	s	1.0 mg/kg	0.005	0.005	0.005	0.005					

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

Edward Hamilton, Lab Director

[#] cluttered chromatogram; sample peak co-elutes with surrogate peak

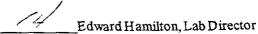
⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds are significant; no recognizable pattern; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible phase is present.

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Growth Envir	onmental Services		Client Project ID: # 173-631; VA Med. Center	Date Sampled	: 03/27/95
536 Stone Roa	ad, Ste. J		Center	Date Received	1: 03/27/95
Benicia, CA 9	4510-1016		Client Contact: Michael Davis	Date Extracte	d: 03/27/95
			Client P.O: # 1496	Date Analyze	1: 03/27/95
FPA methods ma			C10-C23) Extractable Hydrocarbons as California RWQCB (SF Bay Region) method GC		FID(3510)
Lab ID	Client ID	Matrix			% Recovery Surrogate
51099	Bld. 88 -N	s	ND		95
51100	Bld. 88 -S	S	ND		96
51101	Bld. 90-W	S	3.2,a		98
51102	Bld. 90-E	S	ND		96
51103	Bld. 88 Stkp	s	52,a		100
51104	Bld. 90 Stkp 1	S	11,a		100
51105	Bld. 90 Stkp 2	s	26,a	<u> </u>	99
	···				
	<u> </u>				
Datastics 7	mit unless sales.	w	5057	<u></u>	
wise stated;	mit unless other- ND means Not etected		50 ug/L	····	
De	recieu	S	1.0 mg/kg		

^{*}water samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L



[#] cluttered chromatogram; surrogate and sample peaks co-elute or surrogate peak is on elevated baseline

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) modified diesel?; light(c_L) or heavy(c_H) diesel compounds are significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel(?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible phase is present.

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CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. 1500

Laboratory: Please Call Accounts Payable for P.O. No. 536 Stone Hond, Ste. J., Benkla, CA 94510-1016 Date 3/29/95 Sheet 2 of 2 Ofc. (707) 745-0171 (800) 228-0171 Fax. (707) 745-0163 Parameters. Project Number: 173-631
Project Name: VA Med Center Address: Arroya Rd Phone Humber 8140/8141 Turnaround Time as Gasoline 3015 Scil/Water) Sampler's Name Michael Davis
Sampler's Signature
Michael Davis Rush 24 Hour 48 Hour 5 Day Report to: "Chilibrang *** Sample Date Time: Location 51170 Number 10:30 AM 1.5' 3/29/95 FH-1 @ 51171 10:35 A.M. 3.5 FH-2 @ 21 10:40 1.1 FH-3 @ 51172 10:45 AM FH-4 0 3.51 X FH-5 @ 1.5' 10:50 A.M. 51173 10 10: 55 A.M. FH-6 @ 14:00 A.M FH-1 6 51174 51175 -vors pag have then PRESERVATIVE ICE/T: **EPPROPRIAT** GOOD CONDITIONS CONTAINERS HEAD SPACE ABSENT___ Total Number of Those Date Received By 11me Relinquished By Date Containers This Sheet: 12 25 3-29-95 3/29/95 12:300 Method of Shipment Delivered Special Shipment / Handling or Storage Requirements: Date line Received in Lab Hy Dispatched by Time Dale

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CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No. 1500 Laboratory: Please Call Accounts Payable for P.O. No.

536 Stone Rond, Stc. J., Benlein, CA 94510-1016

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Commente Cinecal	impler's Name Michael Davis impler's Signature Michael Davis			as Gasoline 3015	as Diesel 3015	G and B.TEX	工工会 三 8020	ואָ	Volitile Organics (8010)	CAM Metals (17)	Pollutant Metals (13)	Base/New/Acids (Organic)	Pesticides 8140/8141	LUFT Metals	STIC PA			Marrix (Soil/Water)	Rush 24 Hour 48 Hour 5 Day Report to:
Sample Number	Lacation	Date	Time :	12.	띮	TPH-G	<u> </u>	00	.jō	<u> </u>	di	88	g.	77	$\left \frac{n}{N}\right $	-		-X/2	Comments **
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Growth Envi	ronmental Services		Project ID:	# 173-631	Date Sam	Date Sampled: 03/29/95				
536 Stone Ro	ad, Suite J	Center				Date Rec	Date Received: 03/29/95			
Benicia, Ca.	94510-1016	Client (Contact: Mic	hael Davis	Date Ext	racted: 03/2	29/95			
		Client I	2.0;		Date Ana	lyzed: 03/2	9/95			
Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with BTEX* EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID (5030)										
Lab ID	Client ID	Matrix	Xylenes	% Rec. Surrogate						
51168	Stkp 1	s	47,g	ND	0.005	0.022	0.078	103		
51169	Stkp 2	S	9.2,g	ND	ND	ND	0.010	103		
51170	FH-1 @ 1.5'	S	ND	ND	ND	ND	ND	106		
51171	FH-2 @ 3.5'	S	ND	ND	ND	ND	ND	109		
51172	FH-3 @ 2'	S	ND	ND	ND	ND	ND	108		
51173	FH-4@3.5'	s	ND	ND	ND	ND	ND	106		
51174	FH-5 @ 1.5'	s	ND	ND	ND ND		ND	99		
51175	FH-6@10'	S	ND	ND	ND	ND	ND	100		
51176	FH-7@8.5'	S	ND	ND	ND	ND	ND	103		
Reporting wise stated;	Limit unless other- ND means not de-	w	50 ug/L	0.5	0.5	0.5	0.5			

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

1.0 mg/kg

0.005

0.005

0.005

0.005

tected above the reporting limit

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Growth Envi	ronmental Services	I	Project ID: # 173-631; VA Med.	Date Sampled: 03/29/95			
536 Stone Ro	ad, Suite J	Center		Date Received: 03/29/95 Date Extracted: 03/29/95 Date Analyzed: 03/29-03/30/95			
Benicia, Ca.	94510-1016	Client C	Contact: Michael Davis				
		Client F	P.O: # 1500				
EPA methods m	Diesel Ra	nge (C10- 3510; Califo	C23) Extractable Hydrocarbons as rnia RWQCB (SF Bay Region) method GCI	Diesel * FID(3550) or GCFIL)(3510)		
Lab ID	Client ID	Matrix	$TPH(\mathtt{d})^+$		% Recovery Surrogate		
			090 a		107		

Lab ID	Client ID	Matrix	rnia RWQCB (SF Bay Region) method GCFID(3550) or GCFII $TPH(d)^+$	% Recovery Surrogate
51168	Stkp 1	S	980,a	107
51169	Stkp 2	s	760,a	107
51170	FH-1 @ 1.5'	s	ND	97
51171	FH-2@3.5'	s	3.0,b/g	92
51172	FH-3 @ 2'	s	6.2,b/g	96
51173	FH-4@3.5'	S	ND	98
51174	FH-5@1.5'	s	22,b/g	104
51175	FH-6@10'	S	9.7,b/g	97
51176	FH-7 @ 8.5'	S	30,b	103
Danastin	I imit unless other	W	50 ug/L	
Reporting Limit unless other- wise stated; ND means not de- tected above the reporting limit		S	1.0 mg/kg	-

^{*} water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern: c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

Tele: 510-798-1620 Fax: 510-798-1622

	nvironmental Ser	rvices	Client Proj	ject ID: #	173-631; V	Date Sampled: 03/29/95						
536 Stone	Road, Suite J						Date Received: 03/29/95					
Benicia, C	a. 94510-1016		Client Cont	act: Michae	el Davis		Date Extra	acted: 03/	29/95			
			Client P.O:			Date Anal	yzed: 03/2	29/95				
LUFT Metals * EPA analytical methods 6010/200.7, 239.2 +												
Lab ID	Client ID	Nickel	Zinc	% Rec. Surrogate								
51168	Stkp 1	S	TTLC	ND	16	7.6	16	30	95			
51169	Stkp 2	s	TTLC	ND	23	7.1	21	35	97			
51170	FH-1 @ 1.5'	s	TTLC	ND	26	ND	30	27	85			
51171	FH-2 @ 3.5'	S	TTLC	ND	20	7.5	20	40	97			
51172	FH-3 @ 2'	s	TTLC	ND	25	14	21	45	95			
51173	FH-4 @ 3.5'	s	TTLC	ND	16	6.3	17	35	96			
51174	FH-5@1.5'	s	TTLC	ND	16	4.8	9.9	19	94			
51175	FH-6 @ 10'	S	TTLC	ND	25	9.9	35	41	98			
51176	FH-7 @ 8.5'	S	TTLC	ND	37	8.6	51	69	97			
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit W			TTLC	0.5 mg/L	0.5	3.0	2.0	1.0	_			
			TTLC	0.01 mg/kg	0.005	0.005	0.02	0.01				
			STLC,TCLP	0.01 mg/L	0.05	0.2	0.05	0.05				

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

Growth Enviro	onmental Services			# 173-631; VA Med.	Date Sampled: 03/29/95				
536 Stone Roa	ıd, Suite J	Center			Date Received:	03/29/95			
Benicia, Ca. 94	4510-1016	Client	Contact: Mich	nael Davis	Date Extracted: 03/31-04/02/95				
		Client	P.O: # 1500		Date Analyzed:	04/02/95			
EPA analytical m	ethods 6010/200.7, 239.2		Lea	d [*]					
Lab ID	Client ID	Matrix	Extraction	Lead*		% Recovery Surrogate			
51168	Stkp 1	S	STLC	ND		N/A			
51169	Stkp 2	s	STLC	ND		N/A			
			_						
		. <u> </u>							
					<u> </u>				
	<u></u>								
				; 					
						<u> </u>			
					<u></u>				
	unless otherwise stated; detected above the re-	S	TTLC	3.0 mg/k	g	_			
	rting limit	w	TTLC	0.005 mg	/L				
			STLC,TCLP	0.2 mg/I	L				

^{*} soil samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L

⁺ Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC from CA Title 22

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

i) liquid sample that contains greater than ~ 2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



SAN FRANCISCO DISTRICT 536 Stone Road, Suite I Benicia, CA 94510 (707) 745-0163 FAX

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No.____

('Formerly CEC/WRA')	(707)	745-0163 FAX												Date 5/19/95 Sheet ut /
					Par	imicl	ers.		- <u>-</u>					1 at Name Mc Compatell Arrolytical
Project Number: Project Name: VA Med Address: Accept Liver Sampler's Name Michael Davis Sampler's Signature Michael Davis	nore	4	as Gasoline 8015	as Diesel 8015	-G and B.TEX 8015/8020	ርል ፱ 8020	Oil and Grease 5520	Volitite Organics (8010)	CAM Metals (17)	Pr. Pollutant Metals (13)	Basc/Neu/Acids (Organic)	Pesticides 8140/8141	PNA'S	Phone Number Thrustound Time
Sample Number Lucation	Date	Time	TPH	표	TPH-G	B.TX.&	Oila	Voli	3	Pr. P	Base	Pasu	à	Comments S 2669
BH.62-5000 12'	3/19/15	9:501.M		×		X								52669
BH.62-500-DS1kp. BH-65-N 10'		9:58 A.M. 10:55 N.M	<u> </u>	+									X	52670
Bld-65-N 10' Bld-65-E 11.5'		1:00 P.M	,	+	ļ								-	
BU-65 51k,1		1:10 P.M.												52671
Bld-65 stkp1A		1:11 P.M.		1									_	52672
Bld-65 Stkp 2	¥	1:15 P.M.	-	业		V								[
		_							-			CE		PRESERVATIVE APPROPRIATE
												GO()	13 J	ACE ABSENT CONTAINERS
	 													52673
Relinquished By	Date	Time '	-\mathcal{k}	cíveii	fily		L	}).	ite	I	! 	line		Thint Number of 7 52674
Michael Dars	5/19/95	15:00 1		~ \	1				5/1	9	3	:45	D.M.	
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		l a					i							Special Shipment / Handling or Storage Requirements:
Dispatched Hy	Date	Time R	rceived	lin i :	di Hy	·			ile 			line	_	
	1	<u> </u>		···				<u> </u>		<u></u>				

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

	vironmental Services	Client	Project II	D: VA M	, Date Sam	ipled: 05/19	9/95			
230 Stolle L	Road, Suite J				Date Rec	Date Received: 05/19/95				
Benicia, Ca	. 94510-1016	Client	Contact: Mic	hael Davis	Date Ext	racted: 05/1	19/95			
		Client l	P.O:		Date Ana	ılyzed: 05/2	0/95			
EPA methods	e*, with BT d GCFID(503									
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Ethylben- zene	Xylenes	% Rec. Surrogate			
52669	Bld-62-500-D	S		ND	ND	ND	ND	104		
52670	Bld-62-500-D Stkp	S		ND	ND	ND	0.029	100		
52671	Bld-65-N	S		ND	ND	ND	ND	100		
52672	Bld-65-E	S		ND	ND	ND	ND	101		
52673	Bld-65-Stkp1	S		ND	ND	ND	0.011	98		
52674	Bld-65-Stkp1A	s		ND	ND	ND	ND	108		
52675	Bld-65-Stkp2	S		ND	ND	ND	ND	109		
							· · · · · · · · · · · · · · · · · · ·	_		
							: 			

50 ug/L

1.0 mg/kg

W

S

0.5

0.005

0.5

0.005

0.5

0.005

0.5

0.005

Reporting Limit unless other-

wise stated; ND means not detected above the reporting limit

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant, biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553 Tele: 510-798-1620 Fax: 510-798-1622

Growth Environmental Services 536 Stone Road, Suite J			Project ID: VA Med Center,	Date Sampled:	05/19/95
536 Stone R	oad, Suite J	Liverme	ore	Date Received	05/19/95
Benicia, Ca.	94510-1016	Client (Contact: Michael Davis	Date Extracted	: 05/19/95
		Client F	P.O:	Date Analyzed	: 05/22-05/23/95
EPA methods			C23) Extractable Hydrocarbons as in Extractable Hydrocarbons a		D(3510)
Lab ID	Client ID	Matrix	TPH(d) ⁺		% Recovery Surrogate
52669	Bld-62-500-D	s	ND		95
52670	Bld-62-500-D Stkp	S	210,a		96
52671	Bld-65-N	S	2100,a		95
52672	Bld-65-E	s	21,a		95
52673	Bld-65-Stkp1	s	73,a		95
52674	Bld-65-Stkp1A	S	8.2,a		98
52675	Bld-65-Stkp2	S	200,a		100

W

S

50 ug/L

1.0 mg/kg

Reporting Limit unless other-

wise stated; ND means not detected above the reporting limit

^{*} water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

CHROMALAB, INC.

Environmental Services (SD8)

May 23, 1995

Submission #: 9505265

MCCAMPBELL ANALYTICAL, INC.

Re-issued September 7, 1995

Atten: Ed Hamilton

Project: VIA MED CENTER Received: May 19, 1995

re: One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Sample ID: Blg-65-N

Spl#: 89262 Sampled: May 19, 1995 Method: EPA 3550/8270 Matrix: SOIL Extracted: May 22, 1995 Run#: 6757

Analyzed: May 22, 1995:

		REPORTING	BLANK	BLANK SPIKE
	RESULT	LIMIT	RESULT	RESULT
ANALYTE	(mg/Kg)	(mq/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	0.05	N.D.	
2- METHYLNAPHTHALENE	N.D.	0.05	N.D.	
2- CHLORONAPHTHALENE	N.D.	0.05	N.D.	
ACENAPHTHYLENE	N.D.	0.05	N.D.	
ACENAPHTHENE	N.D.	0.05	N.D.	87
FLUORENE	N.D.	0.05	N.D.	~ ~
PHENANTHRENE	N.D.	0.05	N.D.	
ANTHRACENE	N.D.	0.05	N.D.	
FLUORANTHRENE	N.D.	0.05	N.D.	
PYRENE	0.06	0.05	N.D.	78
BENZO (A) ANTHRACENE	N.D.	0.05	N.D.	
CHRYSENE	N.D.	0.05	N.D.	
BENZO (B) FLUORANTHENE	N.D.	0.05	N.D.	
BENZO (K) FLUORANTHENE	N.D.	0.05	N.D.	
BENZO (A) PYRENE	N.D.	0.05	N.D.	
IDENO(1,2,3-CD)PYRENE	N.D.	0.05	N.D.	
DIBENZO (A, H) ANTHRACENE	N.D.	0.05	N.D.	
BENZO (GHI) PERYLENE	N.D.	0.05	N.D.	

Alex Tam Chemist

Ali Kharrazi Organic Manager

4207 16X 785



SAN FRANCISCO DISTRICT 536 Stone Road, Suite J Benicia, CA 94510 (707) 745-0171

CHAIN OF CUSTODY RECORD

Laboratory Analysis P.O. No.

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FHIOH 30'					ļ								<u> </u>	-{}		. -	52837
CFH1-3 15'		12:582										.[~	-\\-	_		52836
FH1-1 5'		18:45		1		- -								.\ -	_		
A, B, -1 14'	5/25/95	10:50 Air		I		门		-	-								52835
Number	Date	Thre				뀌	러	-			-						52834
Sample			ř	TPE a	TPEG	K	150 150		i	1 88	Ĭ			1 1		Marrix	Comments
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idiess: Arroyo Livery	Rdi		2	- 1	1	Ì			[9]	E E	4				١,	- {	Tunaround Time
njeet Number: VA OO ojeet Name: VA Med Idress: Acceyo	Center		1	1	\$015/8020					<u>g</u>	1	1	11				Phone Humber
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("LOXMIALLY CEC/NIRA")					Panu	neler)										5/25/75 Shust 1 ml
ENVIRONMENTAL SERVICES, INC	🎜 (707) 74	5-0163 FAX													124	1l::	

Growth Environmental Services			roject ID: V	/A009201;	Date Sampled: 05/25/95			
536 Stone Road, Suite J		Center			Date Received: 05/25/95			
Benicia, CA 9	4510	Client Co	ntact: Micha	el Davis	Date Extracted: 05/25/95			
	-		0:		Date Analyzed: 05/25-05/26/95			
EDA markada 60	Gasoline Range 30, modified 8015, and 80	(C6-C12)	Volatile Hyd	irocarbons	as Gasolin	e*, with BT	EX*	
Lab ID	Client ID	Matrix	TPH(g) ⁺	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate
52834	A,B,-1	S	ND	ND	ND	ND	ND	99
52835	IFH1-1	S	ND	ND	ND	ND	ND	101
52836	IFH 1-2	S	ND	ND	ND	ND	ND	100
52837	IFH 1-3	S	24,g	ND	0.016	ND	0.026	101
52838	Bld 65-N-2	S	1.6,g	ND	ND	ND	ND	100
52839	Bld 65-T-1	S	ND	ND	ND	ND	ND	102
52840	Bld 65-Stkp1B	S	6.1,g	ND	ND	ND	ND	101
Reporting	Limit unless other-	w	50 ug/L	0.5	0.5	0.5	0.5	
wise stated tected above	ND means not de- e the reporting limit	S	1.0 mg/kg	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, soil samples in mg/kg, and all TCLP extracts in mg/L

[#] cluttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant: b) heavier gasoline range compounds are significant (aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

Growth Envi	ronmental Services		roject ID: VA009201; VA Med	VA009201; VA Med Date Sampled: 05/25/95			
536 Stone Ro	oad, Suite J	Септег		Date Received: 05/25/95 Date Extracted: 05/25/95			
Benicia, CA	94510	Client Co	ontact: Michael Davis				
		Client P.	0:	Date Analyzed:	05/26-05/27/95		
EPA methode w	Diesel Ra	nge (C10-	C23) Extractable Hydrocarbons at ornia RWQCB (SF Bay Region) method G	S Diesel *	D(3510)		
Lab ID	Client ID	Matrix	TPH(d) [†]		% Recovery Surrogate		
52834	A,B,-1	S	ND		101		
52835	IFH 1-1	S	ND		98		
52836	IFH 1-2	S	ND		101		
52837	IFH1-3	S	950,e		102		
52838	Bld 65-N-2	S	56,a		102		
52839	Bld 65-T-1	S	11,g		106		
52840	Bld 65-Stkp1B	S	64,a		103		
Reporting Limit unless other-		w	50 ug/L	· · · · · · · · · · · · · · · · · · ·			

S

1.0 mg/kg

wise stated; ND means not detected above the reporting limit

^{*} water samples are reported in ug/L, soil samples in mg/kg, and all TCLP and STLC extracts in mg/L

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (fuel oil?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment.

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1995

MCCAMPBELL ANALYTICAL, INC.

Atten: Ed Hamilton/Mike Davis

Project: V.A. MED. CENTER

Received: June 7, 1995

Project#: VA009201

One sample for Polynuclear Aromatic Hydrocarbons (PAHs) analysis.

Sample ID: IFH1-3

 Spl#: 91442
 Matrix: SOIL

 Sampled: May 25, 1995
 Run#: 7145

Method: EPA 3550/8270

Extracted: June 8, 1995

Submission #: 9506091

Re-issued September 7, 1995

Analyzed: June 12, 1995

		REPORTING	BLANK	BLANK SPIKE
	result	LIMIT	result	result
ANALYTE	(mq/Kq)	(mg/Kg)	(mg/Kg)	(%)
NAPHTHALENE	N.D.	5	N.D.	
2- METHYLNAPHTHALENE	N.D.	5	N.D.	~-
2- CHLORONAPHTHALENE	N.D.	5	N.D.	
ACENAPHTHYLENE	N.D.	5	N.D.	→
ACENAPHTHENE-	N.D.	5	. N.D.	. , <u>, , , , , , , 75</u>
FLUORENE	N.D.	5	N.D.	· · · · · · · · · · · · · · · · · · ·
PHENANTHRENE	N.D.	5	N.D.	~ ~
ANTHRACENE	N.D.	5	N.D.	
FLUORANTHRENE	N.D.	ភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភភ	N.D.	
PYRENE	N.D.	5	N.D.	84
BENZO (A) ANTHRACENE	N.D.	5	N.D.	
CHRYSENE .	N.D.	5	N.D.	
BENZO (B) FLUORANTHENE	N.D.	5	N.D.	
BENZO (K) FLUORANTHENE	N.D.	5	N.D.	
BENZO (A) PYRENE	N.D.	5	N.D.	
IDENO(1,2,3-CD)PYRENE	N.D.	5	N.D.	
DIBENZO (A, H) ANTHRACENE	N.D.	5	N.D.	
BENZO (GHI) PERYLENE	N.D.	5	N,D.	
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Alex Tam

Chemist

Ali Kharrazi Organic Manager

APPENDIX C

Photo-Log of in Place Tank Closures and Grout Recipts

(408) 293-6272 FAY (408) 294-3162

PLEASANTON PLANT (510) 449-4334



Westside BINLDING MATERIALS (408) 947-8606

INVOICE DATE 06/15/95

80038

06/15/95 DATE SHIPPED 06/15/95

INVOICE PAGE NO.

INVOICE

REMEDIAL CONSTRUCTORS, INC

5030 SHILDH RDAD

MODESTO

CA 95358-0000

CPU#

62

1 CUSTOMER NO.

2 517700

10.00 C 10.00 C 10.00 C 10.00 C	YD 104	DESCRIPTION 4 SK SAND GROUT 4 SK SAND GROUT 4 SK SAND GROUT	39.60 39.60		450111
10.00 C 10.00 C 10.00 C	YD 104 YD 104	4 SK SAND BROUT	39.60	48.00	
		4 SK SÅND BROUT OVERTIME/LABOR	99.40 99.40 90.00 0.00	48.00 48.00 25.00 0.00	90 480 480 480 480 480 480 480 480 480 48
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trequired by the Truth in Landing Act, to advised that EMARCE CHARGES that be computed a periodic rate of 1-122% per month (which is an ANRIVAL PERCENTAGE RATE of 18%) or infulmium financia charge of \$1.00 on beforeces under \$66.00. Customer further trees to bey Court Codes and attorneys hose in the event action is instituted to collect the nounts true. If any action at law or in equity to necessary loop subscrees or interest the terms of is agreement, the previating party shall be untilled to reasonable alterneys fees and sets is addition to any other relief to which he may be entitled.

IPORTANT: Please see reverse side for terms and conditions of sale.

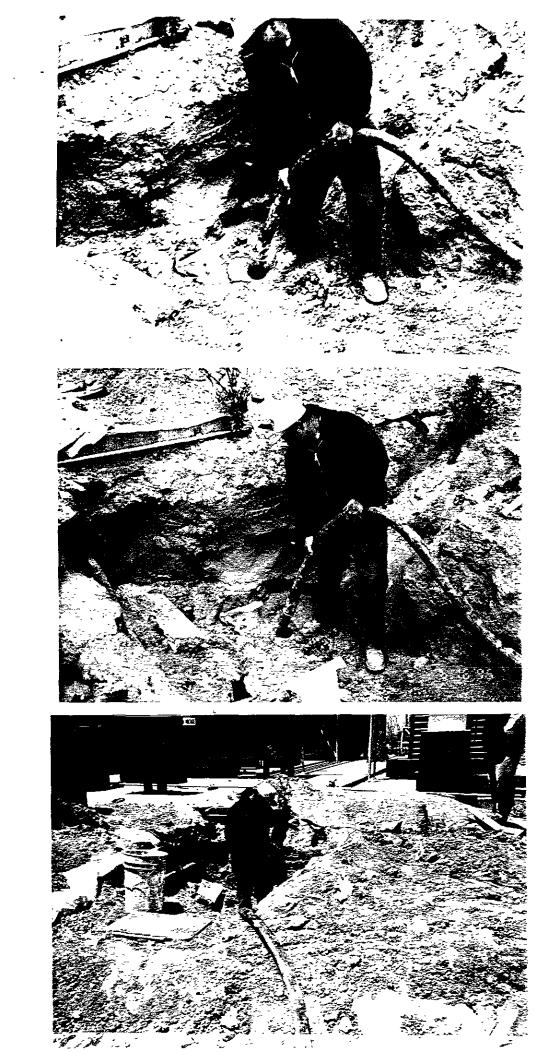
THE DISCOUNT SHOWN WILL BE ALLOWED AT FAIL BY 10TH OF MONTH FOLLOWING DELIVERY PROVIDED ALL FAST DUE BALANCES ARE PAID.



. - ORIGINAL



610 MC KÉNDRIE STREI SAN JOSE, CA 95110



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