

95 AUG -7 PH 3: 44

August 3, 1995

FINAL REPORT for SOIL OVEREXCAVATION AND SUBSURFACE ASSESSMENT, NO. 2868 at

The Former Charles Lowe Facility 1400 Park Avenue Emeryville, CA

Submitted by: AQUA SCIENCE ENGINEERS, INC. 2411 Old Crow Canyon Road, #4 San Ramon, CA 94583 (510) 820-9391



Aqua Science Engineers Inc., P.O. Box 535, San Ramon, CA 94583 • 415-820-9391 • FAX 415-837-4853

1.0 INTRODUCTION

This report documents the methods and findings of Aqua Science Engineer's, Inc. (ASE) overexcavation activities and limited soil and groundwater investigation at the former Charles Lowe facility located at 1400 Park Avenue in Emeryville, California (Figure 1). The field activities were conducted to address the concerns raised by Mr. Brian Oliva of the Alameda County Health Care Services Agency (ACHCSA) as detailed in his inspection report dated April 8, 1995 (Appendix A).

ASE was contracted to perform the overexcavation and assessment activities by the Thomas A. Short Company (TASCO) who recently purchased the assets of the Charles Lowe Company. The subsurface soil and groundwater issues still remain the property of the Charles Lowe Company.

2.0 SITE HISTORY

The current property and building owner is Emeryville Properties of San Francisco, CA. The Charles Lowe Company occupied the property since the late 1970s, operating a machine shop that repaired, serviced and overhauled pumps, turbines, compressors, valves and the like.

Six (6) groundwater monitoring wells have been installed at the site by others to investigate for the presence of metals and volatile organic compounds (VOCs).

3.0 SCOPE OF WORK (SOW)

Based on the site history, the requirements as stated in the ACHCSA letter, and the site walk with TASCO and Charles Lowe Company representatives, ASE's SOW was as follows:

- 1. Prepare a site-specific health and safety plan.
- 2. Inspect the below-grade concrete areas for any discernable failures or cracks after areas have been thoroughly cleaned of residual debris and properly disposed of (Figure 2).
- 3. Excavate the accessible soil from below and around the floor of the former truck dock. Excavation boundaries were limited horizontally by the walls and foundation of the truck dock, and vertically by groundwater.

- 4. Using a vacuum truck service, evacuate groundwater from the excavation pit, as necessary, to allow for removal of additional contaminated soil.
- 5. Stockpile all overexcavated soil on plastic in the rear of the property.
- 6. Sample the native soil within the excavation pit. Samples were collected and chemically analyzed for all of the following: total extractable petroleum hydrocarbons (TEPH) as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series.
- 7. Sample the groundwater. Grab groundwater samples were collected and chemically analyzed for all of the following: TEPH as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series. Metals samples were filtered by the laboratory prior to analyses.
- 8. Sample the overburden/stockpiled soil. A composited sample was collected and chemically analyzed for all of the following: TPH-G and BTEX by EPA Method 5030/8015-8020, TEPH as diesel and honing oil by EPA Method 3550/8015, volatile organic compounds (VOCs) by EPA Method 8010, oil and grease by EPA Method 5520 E & F, semi-VOCs by EPA Method 8270, reactivity, corrosivity and ignitability (RCI), and for the LUFT five metals cadmium, chromium, lead, nickel and zinc by EPA Method 6000 series.
- 9. Manifest and dispose of all evacuated groundwater at a licensed recycling facility.
- 10. Backfill and compact the excavation with clean, imported, highlycompactable, sub-base granular fill.
- 11. Profile contaminated/stockpiled soil for acceptance into landfill facility.
- 12. Offhaul contaminated soil to appropriate landfill.
- 13. Resurface the excavation with concrete. Resurface the below-grade concrete areas with concrete.

14. Prepare a summary report detailing the methods and findings of the project.

4.0 PRE-EXCAVATION ACTIVITIES

Workplan and Health and Safety Plan

Prior to any field work, ASE prepared a workplan detailing the proposed scope of work at the subject site. Included in the workplan was a detailed health and safety plan identifying any and all potential hazards at the site. The workplan was submitted to and approved by Mr. Brian Oliva of the ACHCSA.

5.0 EXCAVATION ACTIVITIES

Project personnel at the site included David Allen and Steve Labar of ASE, Ms. Gwen Telligen representing the property owner, and Mr. Brian Oliva of the ACHCSA. Charles Lowe Company and TASCO representatives periodically visited the site.

On June 21, 1995, ASE mobilized to the site with a backhoe and operator to conduct overexcavation activities of the honing-process area (Figure 2). The honing process area took place in one of the buildings several truck bays. To gain access to the underlying soil beneath the truck bay floor, a breaker was used to destroy then remove the 6-8 inch thick concrete and rebar floor. The concrete was later hauled to Specialty Crushing Company in Emeryville where it was recycled.

Using the backhoe, obviously contaminated soil (odorous and heavily stained) was removed from the excavation to a depth of 9-feet below ground surface. The odorous and stained soil was found from just below the concrete floor to the total depth excavated; the same depth of groundwater, 9.0-feet. The excavation limits were 15-feet by 15-feet which is the area of the truck bay. Excavated soil was removed from the pit, loaded onto a dump truck, transported to the rear of the property and then stockpiled and covered with plastic.

Several times during the excavation activities, pooled groundwater was removed from the excavation by Waste Oil Recovery Services (WORS), a local vacuum truck service. All totaled, WORS removed 275 gallons of groundwater from the excavation. The water was later disposed of at a local recycling facility. A copy of the manifest is attached in Appendix A. A total of 75 yards of contaminated soil was removed from the excavation. It appeared that stained and odorous soils no longer existed at depths below the static groundwater depth of 9.0-feet (see photographs 1 & 2). However, the sidewalls of the excavation still appeared to contain elevated levels of petroleum hydrocarbons based on visual inspection. Due to the proximity of the street, building and walls of the truck bay, the sidewalls could not be further overexcavated.

6.0 SAMPLE COLLECTION AND ANALYSES

Excavation Sidewall Soil Samples

After all the accessible, contaminated soil had been removed from the excavation, ASE collected soil samples from the sidewalls and bottom of the excavation. For a description and location of soil samples collected, see Table One and Figure 3.

All four sidewall soil samples were collected at a depth of 6-feet bgs. The 6-foot depth was selected because it best represented the soil contamination that could not be removed due to the proximity of the street, building and walls of the truck bay. The sidewall soil samples consisted of dark-gray to black, damp, silty clay.

Excavation Bottom Soil Samples

Bottom of excavation soil samples were collected at a depth of 10-feet bgs, after the pooled groundwater had been evacuated. The 10-foot depth was selected because it best represented the non-contaminated soil below the former honing area. It appeared that soil contamination did not exist below the groundwater depth of 9-feet bgs. The bottom of excavation soil samples collected at 10-feet bgs consisted of light brown, saturated to wet silty sand.

Stockpiled/Contaminated Soil Samples

A four-point composite soil sample was collected from the stockpiled/contaminated soil. From four different locations on the pile, a discrete sample was collected. Upon receipt by the laboratory, the four samples were composited into one prior to analyses.

The afore-mentioned soil samples were collected then placed into a 6ounce, pre-cleaned, glass sample jar supplied by the analytical laboratory. Each sample was sealed with a plastic threaded cap, discretely labeled, placed in a plastic bag and stored on wet ice in a cooler for delivery to a CAL-EPA certified laboratory for chemical analysis under proper chain of custody procedures. ASE also collected duplicates of each soil sample for Ms. Telligen.

Soil Analyses

Soil samples were analyzed at American Environmental Network of Pleasant Hill, CA (DOHS No. 1172) for all of the following: total extractable petroleum hydrocarbons (TEPH) as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series.

Grab Groundwater Sample

After allowing groundwater to recharge back into the excavation, ASE collected a grab groundwater sample. For a description and location of the water samples collected, see Table One and Figure 3. The groundwater was collected in 40-ml glass volatile organic analysis (VOA) vials, 1-liter amber glass bottles, and plastic bottles supplied by the laboratory. The samples were labeled and stored on wet ice for transport to the analytical laboratory under proper chain of custody procedures. ASE also collected duplicates of the water sample for Ms. Telligen.

Water Analyses

The grab groundwater samples were analyzed at American Environmental Network of Pleasant Hill, CA (DOHS No. 1172) for all of the following: TEPH as diesel and honing oil by EPA Method 3550/8015, oil and grease by EPA Method 5520 E & F, volatile organic compounds (VOCs) by EPA Method 8010, and CAM 17 metals by EPA Method 6000 series. Metals samples were filtered by the laboratory prior to analyses.

Analytical results for the soil and groundwater samples are tabulated in Table Two thru Table Six. Copies of the certified analytical reports are attached in Appendix B.

7.0 BACKFILLING AND RESURFACING

On June 21 and July 13, 1995, imported backfill material was placed into the truck-bay excavation and compacted. Backfill material consisted of 118 tons of highly-compactable, sub-base, granular fill. The fill material was placed into the excavation in lifts and compacted. See Appendix C for a copy of the backfill tonnage. Upon completion of backfilling activities, the excavation was resurfaced with 6-8 inches of rebar-reinforced concrete. ASE inspected the below-grade concrete areas for any discernable failures or cracks after they had been thoroughly cleaned of residual debris. All of the below-grade concrete areas appeared to in reasonably good shape without any obvious holes, cracks or integrity failures. ASE did not see any reason to warrant the need for subsurface sampling below any of the below-grade concrete areas. Therefore, each of the below-grade concrete areas were filled completely with wire-mesh and/or rebar-reinforced concrete to the surface of the existing concrete floor.

8.0 OFFHAUL OF CONTAMINATED SOIL

Based on the analytical results of the stockpiled soil, ASE profiled the material into the Forward, Inc. landfill in Manteca, CA. The elevated concentrations of petroleum hydrocarbons require disposal of the stockpiled material at a Class II facility, which Forward's Manteca site is. On July 13, 1995, 112.36 tons of contaminated soil was transported to the Forward, Inc. landfill in Manteca, CA where it was disposed. See Appendix D for copies of the Acceptance Letter and manifests.

9.0 CONCLUSIONS

112.36 tons of extractable range-petroleum hydrocarbons were excavated, then disposed of off-site, from the former honing area at the Charles Lowe facility in Emeryville, CA.

Elevated concentrations of extractable range-petroleum hydrocarbons and hydrocarbon oil & grease (as high as 870 parts per million (ppm) and 1400 ppm respectively) still remain in the sidewalls of the excavation. Further excavation and removal of these areas is not warranted due to the relation of the truck-bay walls, the street and the sidewalk.

Groundwater within the excavation contains elevated concentrations of extractable range-petroleum hydrocarbons (as high as 7,000 ppb total), hydrocarbon oil & grease (as high as 10,000 ppb), and volatile organic compounds (as high as 100 ppb trichloroethene). Since there were no VOCs detected in any soil samples collected from within the excavation and there is known groundwater VOC contamination from neighboring sites, it is believed that the trichloroethene and other VOCs found in the excavation pit water are the result of neighboring properties.

None of the excavation soil samples contained concentrations of CAM 17 metals above the TTLC for each metal.

10.0 RECOMMENDATIONS

Since all accessible contaminated soil within the honing process area has been removed from the site, ASE recommends no further soil excavation activities.

Due to the elevated concentrations of extractable-range petroleum hydrocarbons, oil & grease, and VOCs detected in the excavation pit water, the ACHCSA will most likely require the installation of a groundwater monitoring well downgradient of the former honing process area. ASE would propose to the ACHCSA that only one well be installed and that analyses be limited to only the oil range hydrocarbons found within the excavation. ASE would be able to use gradient information from the 6 existing monitoring wells to insure the proper placement of any additional wells.

Aqua Science Engineers appreciates the opportunity to assist TASCO and the Charles Lowe Company with their environmental needs. Should you have any questions or comments, please feel free to call us at (510) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

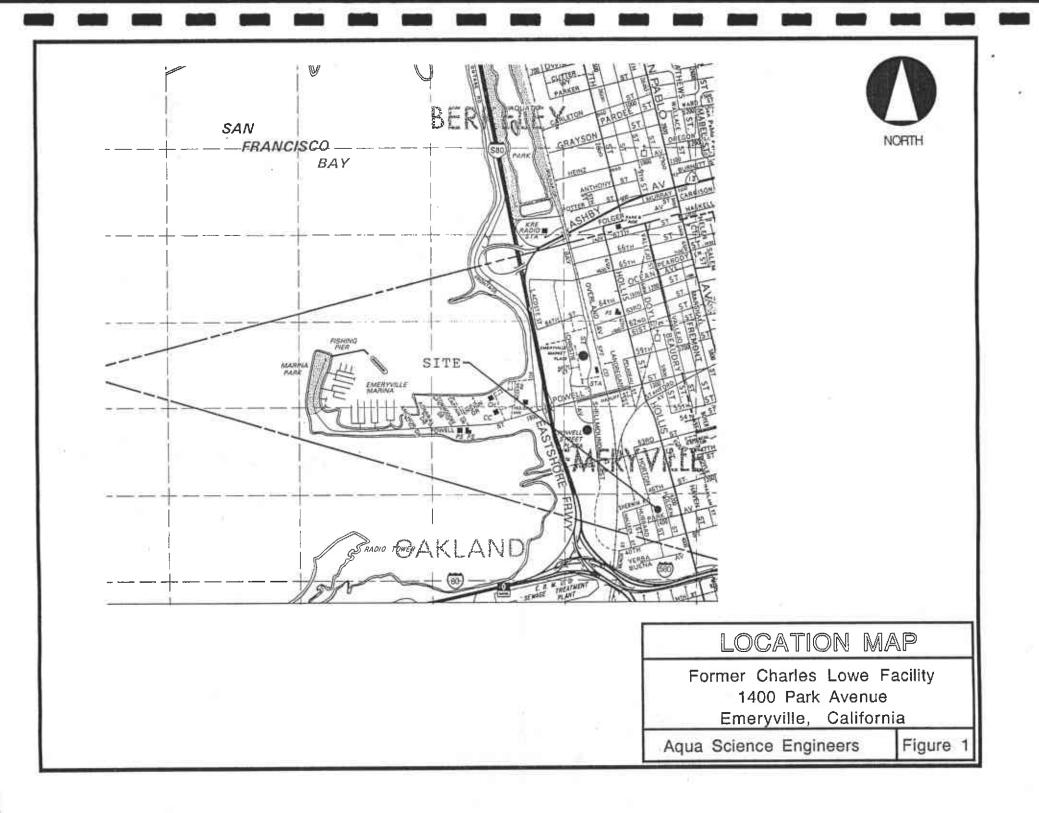
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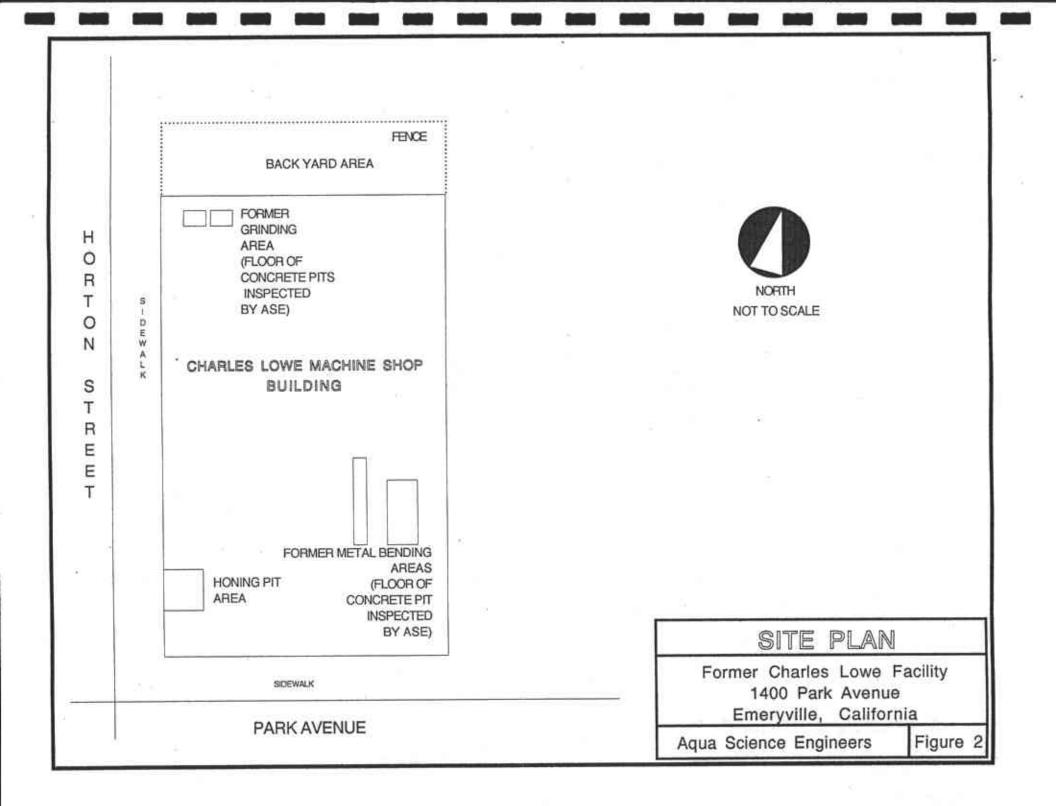
David Allen, R.E.A. Project Manager

Attachments: Figures 1, 2 & 3 Tables One thru Six Appendix A-D Photographs 1 & 2



Mr. Thomas D. LaFlamme, TASCO President
 Mr. Steve Slade, Former Charles Lowe Company President
 Mr. Brian Oliva, ACHCSA
 Ms. Gwen Telligen, Environmental Oversight for Property Owner
 Ms. Kari Erickson, Attorney for TASCO





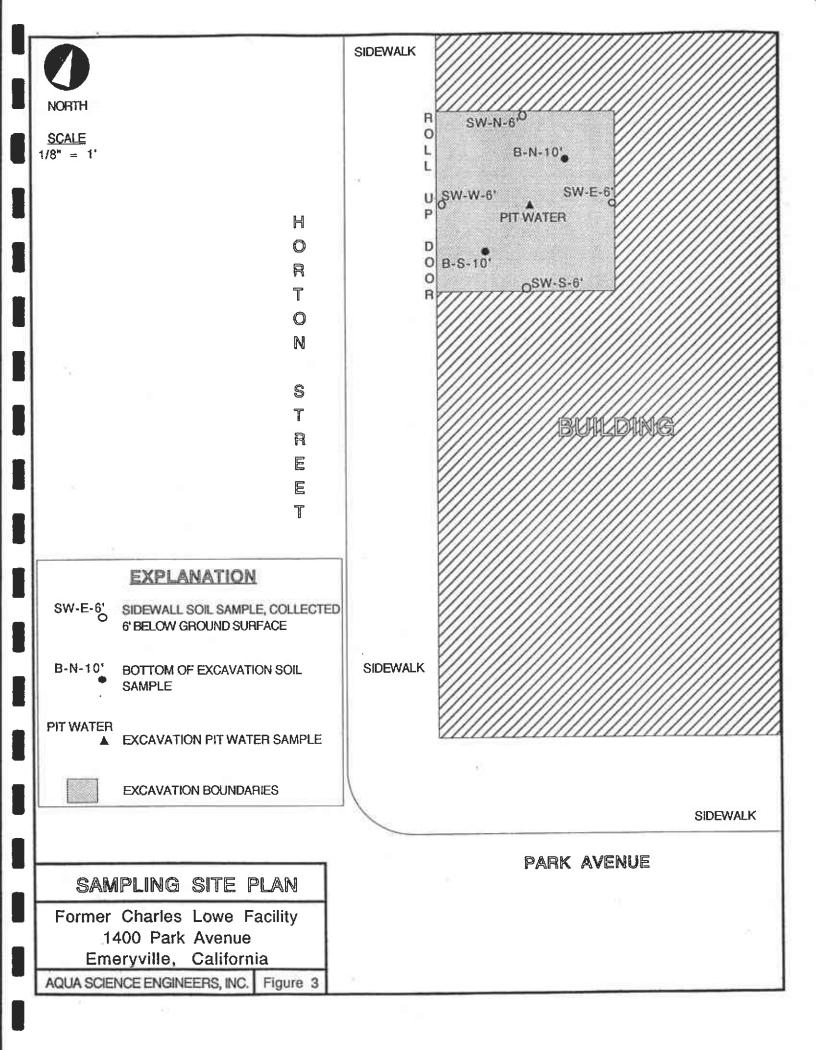


TABLE ONE SAMPLE LOCATIONS - EXCAVATION PIT and STOCKPILE

Sample Identification	Location	<u>Depth</u>
<u>(BGS)</u>		
SW-N-6'	Northern Sidewall	6'
SW-S-6'	Southern Sidewall	6'
SW-W-6'	Western Sidewall	6'
SW-E-6'	Eastern Sidewall	6'
B-N-10'	Northern Bottom	10'
B-S-10'	Southern Bottom	10'
STKP	Stockpiled Soil	
PIT WATER	Groundwater within Excavation	10'

TABLE TWO

SOIL AND WATER SAMPLE RESULTS TOTAL EXTRACTABLE HYDROCARBONS $\pm m$

All Results

Sample Id.	Mineral Spirit/ Kerosene Range Hydrocarbons (C8-C14)	Diesel Range Hydrocarbons (C14-C22)	Light Oil Range Hydrocarbons (C22-C32)	Motor Oil/ Asphalt Range Hydrocarbons (C32-C44)	Total Hydrocarbons
SOIL					_
SW-N-6'	320	370	140	40	
SW-S-6'	540	140	62	14	
SW-W-6'	100	180	120	30	430
SW-E-6'	92	340	150	40	
B-N-10'	<10	<10	<10	<10	<10
B-S-10'	<10	<10	<10	<10	<10
STKP	890	390	200	<50	
WATER					
PIT WATE	1.6	3.0	2.0	0.4	7.0
EPA METHOD	3550/ 8015	3550/ 8015	3550/ 8015	3550/ 8015	3550/ 8015

TABLE THREESOIL SAMPLE RESULTSOIL & GREASE AND VOCsAll Results in Parts Per Million

Sample Id.	Total Oil & Grease	Hydrocarbon Oil & Grease	All VOCs
SOIL			
SW-N-6'	970	850	< 0.005-0.02
SW-S-6'	1100	890	< 0.005-0.02
SW-W-6'	970	810	< 0.005-0.02
SW-E-6'	1600	1400	< 0.005-0.02
B-N-10'	20	20	< 0.005-0.02
B-S-10'	20	20	< 0.005-0.02
STKP	1900	1900	<0.005-0.02
EPA METHOD	5520E	5520E&F	8010

TABLE FOURWATER SAMPLE RESULTSOIL & GREASE AND VOCsAll Results in Parts Per Billion

Sample Id.	Total Oil & Grease	Hydrocarbon Oil & Grease	A11 VOCs
WATER			and and a state of the state of
PIT WATER	11,000	cis trans T	2-Dichloroben 1,2-Dichloroethene @ s-1,2-Dichloroethene @ etrachloroethene @ 19.0 Frichloroethene Vinyl Chloride All Others @ <2
EPA	5520C	5520C&F	8010

METHOD

TABLE FIVESOIL AND WATER SAMPLE RESULTSCAM 17 METALSAll Results in Parts Per Million

SW W 6'	SW_E_6'	B-N-10'	PIT WATER
5 44 - 44 -0	5W-E-0	DIVIO	
-0.1	-0.1	<01	< 0.005
<0.1			0.002
1			
			0.10
0.6	0.5		< 0.002
<0.2	<0.2	<0.2	< 0.005
7.9	6.5	11	< 0.005
		34	< 0.01
	16	18	< 0.01
	< 0.006	< 0.006	< 0.0002
	<0.2	0.2	< 0.01
31	29	40	0.02
6	6	6	<0.04
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<1	<1	<1	<0.004
	4	4	< 0.05
	26	39	< 0.005
		38	0.03
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6000/	6000/	6000/	6000/
7000	7000	7000	7000
	7.9 36 16 <0.006 <0.2 31 6 <1 <1 3 28 32 6000/	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

TABLE SIX STOCKPILED SOIL SAMPLE RESULTS All Results in Parts Per Million

TPH GASOLINE, BTEX

Sample Id.	TPH Gasoline	Benzene	Toluene	Ethyl Benzene	Total Xylenes
STKP	25	<0.005	<0.005	<0.005	<0.005
EPA METHOD	5030/ 8015	8020	8020	8020	8020

FIVE METALS

Sample Id. STKP	Cadmium <0.2	Chromium 41	Lead 12	Nickel 54	Zinc 39
EPA METHOD	6010	6010	6010	6010	6010

SEMI-VOLATILE ORGANIC COMPOUNDS

		A11
Sample		Other
Id.	Bis-Phthalate	SVOCs
STKP	2.4	<0.33-1.6

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If I am a large quantity generator, I certify th economically practicable and that I have select	ted the practicable method of treat	ment, storage, or disposa	I currently ave	ailable to me which	minimizes the presen
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APPENDIX B

Certified Analytical Report for Soil and Groundwater Samples

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

AQUA SCIENCE ENGINEERS, INC 2411 OLD CROW CANYON RD. #4 SAN RAMON, CA 94583

ATTN: DAVID ALLEN CLIENT PROJ. ID: 2868 CLIENT PROJ. NAME: TASCO-LOWE REPORT DATE: 07/07/95 DATE(S) SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 AEN WORK ORDER: 9506303

PROJECT SUMMARY:

On June 22, 1995, this laboratory received 9 (8 soil and 1 water) sample(s).

Client requested eight samples be analyzed for organic and inorganic parameters; one sample was placed on hold. Portion for reactivity was subcontracted to a DOHS certified laboratory: subcontract report will be forwarded at a later date. Results of analysis are summarized on the following pages. Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

arry Klein

Laboratory Director

AQUA SCIENCE ENGINEERS, INC.

AEN JOB NO: 9506303 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 CLIENT PROJ. ID: 2868

Client Sample Id	AEN Lab Id	Purgeable Hydrocarbons as Gasoline (mg/kg)	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
SW-N-6'	01		970	850				
SW-S-6*	02		1,100	890				
SW-W-6'	03		970	810				
SW-E-6'	04		1,600	1,400				
B-N-10"	06		20	20	•••			
B-S-10'	07		20	20	•••			
STKP	80	25	1,900	1,900	ND	ND	ND	ND
Reporting	Limit:	1	10	10	0.005	0,005	0.005	0.02

Client AEN Sample Id Lab Id	Purgeable Hydrocarbons as Gasoline (ug/L)	Oil & Grease (ug/L)	Hydrocarbons (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)
PITWATER 09		11,000	10,000				
Reporting Limit:		500	500				
EPA Method:	5030 GCFID	5520C	5520F	8020	8020	8020	8020
Date Extracted:	NA	06/26/95 06/29/95 (08) 06/28/95 (09)	06/26/95 06/29/95 (08) 06/28/95 (09)	NA	АИ	NA	NA
Date Analyzed:	06/26/95	06/27/95 06/29/95 (08) 06/28/95 (09)	06/28/95 06/29/95 (08) 06/28/95 (09)	06/26/95	06/26/95	06/26/95	06/26/95

Reporting limits were elevated for gasoline/BTEX due to high levels of non-target compounds; sample was run at a dilution. NA = Not Applicable ND = Not Detected

AQUA SCIENCE ENGINEERS, INC.

AEN JOB NO: 9506303 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 CLIENT PROJ. ID: 2868

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Client Sample Id.	AEN Lab Id.	Mineral Spirit/ Kerosene Range Hydrocarbons C8 - C14 (mg/kg)	Diesel Range Hydrocarbons C14 - C22 (mg/kg)	Light Oil Range Hydrocarbons C22 - C32 (mg/kg)	Motor Oil/ Asphalt Range Hydrocarbons C32 - C44 (mg/kg)	Total (mg/kg)
	01	320	370	140	40	870
SW-S-6'	02	540	140	62	14	750
SW-W-6'	03	100	180	120	30	430
SW-E-6'	04	92	340	150	40	620
B-N-10'	06	ND	ND	ND	ND	ND
B-S-10'	07	ND	ND	ND	ND	ND
STKP	08	890 (10)	390 (10)	200 (50)	ND (50)	1500
Reporting L (unless o		1 oted by parentheses)	1	1	5	

EPA Method: EPA 3550 GCFID

Client Sample [d.	AEN Lab Id.	Mineral Spirit/ Kerosene Range Hydrocarbons C8 - C14 (ug/L)	Diesel Range Hydrocarbons C14 - C22 (ug/L)	Light Dil Range Hydrocarbons C22 - C32 (ug/L)	Motor Oil/ Asphalt Range Hydrocarbons C32 - C44 (ug/L)	Total (ug/L)
PITWATER	09	1,600	3,000	2,000	400	7,000
Reporting L		0.05	0.05	0.2	0.2	
EPA Method:	EPA 3510	GCFID				
Date Extrac		3/95 9/95 (02)				

Date Analyzed: 06/26-27/95 07/01/95 (02)

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-N-6' AEN LAB NO: 9506303-01 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ND = Not detected at or above the reporting limit * = Value at or above reporting limit

American Environmental Network

PAGE 5

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-S-6' AEN LAB NO: 9506303-02 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

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DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

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ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Soil matrix El Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropethane cis-1,2-Dichloropethane trans-1,2-Dichloropene trans-1,3-Dichloropropene Methylene Chloride	CAS# PA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2	ND ND ND ND ND ND ND ND ND ND ND ND ND N	LIMIT 0.005 0.005 0.02 0.005 0.02 0.005 0.02 0.005	mg/kg mg/kg	ANALYZED 06/27/95
1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane Vinyl Chloride	79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.005 0.02 0.02	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AQUA SCIENCE ENGINEERS, INC

DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95

REPORT DATE: 07/07/95

SAMPLE ID: SW-W-6' AEN LAB NO: 9506303-03 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

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ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	06/22/95
<pre>#Digestion, Metals AA/ICP</pre>	EPA 3050	_ *		Prep Date	06/22/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Co Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium Tl Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010 EPA 6010	ND 1.0 * 180 * 0.6 * ND 7.9 * 36 * ND 31 * ND 31 * 28 * 32 *	$\begin{array}{c} 0.1\\ 0.5\\ 1\\ 0.2\\ 0.2\\ 0.5\\ 0.5\\ 0.6\\ 0.2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 0.5\\ 1\end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND ND ND ND ND ND ND ND ND ND ND ND ND N	0.005 0.02 0.02 0.005 0.02 0.005 0.02 0.005	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-W-6 AEN LAB NO: 9506303-03 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane Vinyl Chloride	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND ND ND ND ND ND ND ND ND ND ND ND	$\begin{array}{c} 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.02\\ 0.005\\ 0.02\\ 0.005\\ 0.02\end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-E-6' AEN LAB NO: 9506303-04 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

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DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	REPOR RESULT LIM		DATE ANALYZED
#Digestion, Metals by GFAA	EPA 3050	-	Prep Date	06/22/95
<pre>#Digestion, Metals AA/ICP</pre>	EPA 3050		Prep Date	06/22/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Co Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium Tl Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010 EPA 6010	2.9 * 160 * 0.5 * ND 6.5 * 34 * 16 * ND 29 * 6 * ND ND 4 *	1 mg/kg 1 mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND 0. ND 0 ND 0. ND 0.	005 mg/kg 005 mg/kg 02 mg/kg 005 mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: SW-E-6' AEN LAB NO: 9506303-04 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RE	SULT	REPORTING LIMIT	UNITS	DATE ANALYZED
trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethan Vinyl Chloride	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 ne 76-13-1 75-01-4		ND ND ND ND ND ND ND ND ND ND ND	$\begin{array}{c} 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.02\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.02\\ 0.02\\ 0.02\\ 0.02\\ 0.02\end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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AQUA SCIENCE ENGINEERS, INC

DATE CAMPLED.

SAMPLE ID: B-N-10' AEN LAB NO: 9506303-06 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Digestion, Metals by GFAA	EPA: 3050	-		Prep Date	06/22/95
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/22/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Co Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium TI Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010 EPA 6010	ND 17 * 90 * 0.4 * ND 11 * 34 * 18 * ND 0.2 * 40 * ND ND 4 * 39 * 38 *	$ \begin{array}{c} 1\\ 0.1\\ 0.2\\ 0.2\\ 0.5\\ 0.5\\ 0.06\\ 0.2\\ 1\\ 1\\ 1\\ 1\\ 1\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.6\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.2\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5\\ 0.5$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/25/95 06/23/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95 06/25/95
EPA 8010 - Soil matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2	ND ND ND ND ND ND ND ND ND ND ND ND ND N	$ \begin{array}{c} 0.005\\ 0.005\\ 0.02\\ 0.005\\ 0.$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: B-N-10' AEN LAB NO: 9506303-06 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

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DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
trans-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Methylene Chloride 1,1,2,2-Tetrachloroethane Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane Vinyl Chloride	156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	ND ND ND ND ND ND ND ND ND ND ND	$\begin{array}{c} 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.005\\ 0.02\\ 0.005\\ 0.02\\ 0.005\\ 0.02\end{array}$	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

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AQUA SCIENCE ENGINEERS, INC

DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95

REPORT DATE: 07/07/95

SAMPLE ID: B-S-10 AEN LAB NO: 9506303-07 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

DATE REPORTING METHOD/ UNITS ANALYZED LIMIT RESULT CAS# ANALYTE EPA 8010 EPA 8010 - Soil matrix 06/27/95 0.005 mq/kq ND 75-27-4 Bromodichloromethane 06/27/95 0.005 mq/kq 75-25-2 ND Bromoform 06/27/95 0.02 mq/kq ND 74-83-9 Bromomethane 06/27/95 0.005 mg/kg ND 56-23-5 Carbon Tetrachloride 06/27/95 0.005 mq/kq ND 108-90-7 Chlorobenzene 06/27/95 mg/kg 0.02 ND 75-00-3 Chloroethane 0.005 06/27/95 ma/ka 110-75-8 ND 2-Chloroethyl Vinyl Ether 06/27/95 ND 0.005 mg/kg 67-66-3 Chloroform 06/27/95 ND 0.02 mg/kg 74-87-3 Chloromethane 0.005 mg/kg 06/27/95 ND 124-48-1 Dibromochloromethane 06/27/95 0.005 mg/kg 95-50-1 ND 1.2-Dichlorobenzene 06/27/95 0.005 mq/kq ND 541-73-1 1.3-Dichlorobenzene 06/27/95 0.005 mg/kg ND 106-46-7 1.4-Dichlorobenzene 06/27/95 0.02 mg/kg ND 75-71-8 Dichlorodifluoromethane 06/27/95 06/27/95 0.005 mg/kg ND 75-34-3 1.1-Dichloroethane 0.005 mg/kg ND 107-06-2 1.2-Dichloroethane 06/27/95 0.005 mq/kq 75-35-4 ND 1.1-Dichloroethene 06/27/95 mq/kq 0.005 ND 156-59-2 cis-1.2-Dichloroethene 06/27/95 0.005 mg/kg ND trans-1,2-Dichloroethene 156-60-5 06/27/95 78-87-5 0.005 mg/kg ND 1.2-Dichloropropane 06/27/95 mg/kg 0.005 10061-01-5 ND cis-1.3-Dichloropropene 06/27/95 0.005 mq/kg ND 10061-02-6 trans-1,3-Dichloropropene 06/27/95 0.02 mg/kg 75-09-2 ND Methylene Chloride 06/27/95 0.005 mg/kg ND 79-34-5 1,1,2,2-Tetrachloroethane 06/27/95 0.005 mg/kg ND 127-18-4 Tetrachloroethene 06/27/95 0.005 mg/kg 1.1.1-Trichloroethane 71-55-6 ND. 06/27/95 mq/kg 79-00-5 ND 0.005 1.1.2-Trichloroethane 06/27/95 mg/ka 0:005 ND 79-01-6 Trichloroethene 06/27/95 mq/kg 0.02 ND Trichlorofluoromethane 75-69-4 06/27/95 0.005 mg/kg 1,1,2Trichlorotrifluoroethane 76-13-1 ND 06/27/95 mg/kg 0.02 ND 75-01-4 Vinyl Chloride

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AQUA SCIENCE ENGINEERS, INC

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SAMPLE ID: STKP AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Corrosivity in soil (pH)	EPA 9045	8.3		S.U.	06/26/95
Ignitability in solid	CFR40/261.21	NEGATIVE		0	06/28/95
<pre>#Digestion, Metals AA/ICP</pre>	EPA 3050	• ••		Prep Date	06/22/95
Cadmium	EPA 6010	ND	0.2	mg/kg	06/25/95
Chromium	EPA 6010	41	* 0.5	mg/kg	06/25/95
Lead	EPA 6010	12	* 1	mg/kg	06/25/95
Nickel	EPA 6010	54	* 1	mg/kg	06/25/95
Zinc	EPA 6010	39	* 1	mg/kg	06/25/95
#Extraction for BNAs	EPA 3550	-		Extrn Date	e 06/23/95
Semi-Volatile Organics Acenaphthene Acenaphthylene Anthracene Benzidine Benzoic Acid Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Benzo(c)fluoranthene Bis(2-chlorotosopropyl) Ether Bis(2-chlorotosopropyl) Ether Bis(2-chlorotosopropyl) Ether Bis(2-chlorotosopropyl) Ether Butylbenzyl Phthalate 4-Chloronaphthalene 4-Chloronaphthalene Dibenzo(c)fluoranthene Dibenzo(c)fluoranthene Dibenzofuran	e 117-81-7 101-55-3 85-68-7 106-47-8 91-58-7	ND ND ND ND ND ND ND ND ND ND ND ND ND N	0.33 0.33 0.66 0.33 0.33 0.33 0.33	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95

AQUA SCIENCE ENGINEERS, INC

DATE SAMPLED: 06/21/95

SAMPLE ID: STKP AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868

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ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Di-n-butyl Phthalate	84-74-2	ND	0.33	mg/kg	06/28/95
1.2-Dichlorobenzene	95-50-1	ND	0.33	mg/kg	06/28/95
1,3-Dichlorobenzene 1,4-Dichlorobenzene	541-73-1 106-46 - 7	ND ND	0.33 0.33	mg/kg mg/kg	06/28/95 06/28/95
3,3'-Dichlorobenzidine	91-94-1	ND	0.66	mg/kg	06/28/95
Diethyl Phthalate	84-66-2	ND	0.33	mg/kg	06/28/95
Dimethyl Phthalate	131-11-3	ND	0.33	mg/kg	06/28/95
2,4-Dinitrotoluene	121-14-2	ND	0.33	mg/kg	06/28/95
2,6-Dinitrotoluene	606-20-2	ND	0.33	mg/kg	06/28/95
Di-n-octyl Phthalate	117-84-0	ND	0.33	mg∕kg	06/28/95
Fluoranthene	206-44-0	ND ND	0.33 0.33	mg/kg mg/kg	06/28/95 06/28/95
Fluorene Hexachlorobenzene	86-73-7 118-74-1	ND	0.33	mg/kg	06/28/95
Hexachlorobutadiene	87-68-3	ND	0.33	mg/kg	06/28/95
Hexachlorocyclopentadiene	77-47-4	ND	0.33	mg/kg	06/28/95
Hexachloroethane	67-72-1	ND	0.33	mg/kg	06/28/95
Indeno(1,2,3-cd)pyrene	193-39-5	ND	0.33	mg/kg	06/28/95
Isophorone	78-59-1	ND	0.33	mg/kg	06/28/95
2-Methylnaphthalene	91-57-6	ND	0.33 0.33	mg/kg	06/28/95 06/28/95
Naphthalene 2 Nitroapiline	91-20-3 88-74-4	ND ND	1.6	mg/kg mg/kg	06/28/95
2-Nitroaniline 3-Nitroaniline	99-09-2	ND	1.6	mg/kg	06/28/95
4-Nitroaniline	100-01-6	ND	1.6	mg/kg	06/28/95
Nitrobenzene	98-95-3	ND	0.33	mg/kg	06/28/95
N-Nitrosodiphenylamine	86-30-6	ND	0.33	mg/kg	06/28/95
N-Nitrosodi-n-propylamine	621-64-7	ND	0.33	mg/kg	06/28/95
Phenanthrene	85-01-8	ND	0.33	mg/kg	06/28/95
Pyrene	129-00-0	ND	0.33	mg/kg mg/kg	06/28/95 06/28/95
1,2,4-Trichlorobenzene	120-82-1 59-50-7	ND ND	0.33	mg/kg mg/kg	06/28/95
4-Chloro-3-methylphenol 2-Chlorophenol	95-57-8	ND	0.33	mg/kg	06/28/95
2,4-Dichlorophenol	120-83-2	ND	0.33	mg/kg	06/28/95
2,4-Dimethylphenol	105-67-9	ND	0.33	mg/kg	06/28/95
4,6-Dinitro-2-methylphenol	534-52-1	ND	1.6	mg/kg	06/28/95
2.4-Dinitrophenol	51-28-5	ND	1.6	mg/kg	06/28/95
2-Methylphenol	95-48-7	ND	0.33	mg/kg	06/28/95
4-Methylphenol	106-44-5	ND	0.33 0.33	mg/kg mg/kg	06/28/95 06/28/95
2-Nitrophenol 4-Nitrophenol	88-75-5 100-02-7	ND ND	1.6	mg/kg	06/28/95
Pentachlorophenol	87-86-5	ND	1.6	mg/kg	06/28/95
Phenol	108-95-2	ND	0.33	mg/kg	06/28/95
2,4,5-Trichlorophenol	95-95-4	ND	0.33	mg∕kg	06/28/95
2.4.6-Trichlorophenol	88-06-2	ND	0.33	mg/kg	06/28/95

DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

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AQUA SCIENCE ENGINEERS, INC

SAMPLE ID: STKP AEN LAB NO: 9506303-08 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8010 - Soil matrix EF Bromodichloromethane Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene 1.4-Dichlorobenzene Dichlorodifluoromethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethane 1.2-Dichloroethene cis-1.2-Dichloroethene trans-1.2-Dichloropene trans-1.3-Dichloropropene trans-1.3-Dichloropropene Methylene Chloride 1.1.2.2-Tetrachloroethane	CAS# PA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2 75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5	ND ND ND ND ND ND ND ND ND ND ND ND ND N	LIMIT 0.005 0.005 0.02 0.005 0.02 0.005 0.05	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	ANALYZED 06/27/95
Tetrachloroethene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,1,2Trichlorotrifluoroethane Vinyl Chloride	127-18-4 71-55-6 79-00-5 79-01-6 75-69-4	ND ND ND ND ND ND	0.005 0.005 0.005 0.005 0.02 0.02 0.005 0.02	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95 06/27/95

ND = Not detected at or above the reporting limit * = Value at or above reporting limit

AQUA SCIENCE ENGINEERS, INC

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SAMPLE ID: PIT WATER AEN LAB NO: 9506303-09 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

					·
ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Sample Filtration	0.45 um	•		Filtr Date	06/22/95
#Digestion, Metals by GFAA	EPA 3020	-		Prep Date	06/26/ <u>9</u> 5
#Digestion, Metals ICP/AA	EPA 3010	-		Prep Date	06/27/95
CCR 17 Metals Ag Silver As Arsenic Ba Barium Be Beryllium Cd Cadmium Cd Cobalt Cr Chromium Cu Copper Hg Mercury Mo Molybdenum Ni Nickel Pb Lead Sb Antimony Se Selenium T1 Thallium V Vanadium Zn Zinc	EPA 6010 EPA 7060 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 7470 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010 EPA 6010	ND 0.002 * 0.10 * ND ND ND ND ND ND ND ND ND ND ND ND ND	$\begin{array}{c} 0.01\\ 0.002\\ 0.005\\ 0.005\\ 0.01\\ 0.01\\ 0.002\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.01\\ 0.05\\ 0.005\\ 0.005\end{array}$	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95 06/28/95
EPA 8010 - Water matrix Bromodichloromethane Bromoform Bromomethane Carbon Tetrachloride Chlorobenzene Chloroethane 2-Chloroethyl Vinyl Ether Chloroform Chloromethane Dibromochloromethane 1.2-Dichlorobenzene 1.3-Dichlorobenzene Dichlorodifluoromethane 1.1-Dichloroethane 1.2-Dichloroethane	EPA 8010 75-27-4 75-25-2 74-83-9 56-23-5 108-90-7 75-00-3 110-75-8 67-66-3 74-87-3 124-48-1 95-50-1 541-73-1 106-46-7 75-71-8 75-34-3 107-06-2	ND ND ND ND ND ND ND ND ND ND ND ND ND N	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95

AQUA SCIENCE ENGINEERS, INC

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SAMPLE ID: PIT WATER AEN LAB NO: 9506303-09 AEN WORK ORDER: 9506303 CLIENT PROJ. ID: 2868 DATE SAMPLED: 06/21/95 DATE RECEIVED: 06/22/95 REPORT DATE: 07/07/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
1.1-Dichloroethene cis-1.2-Dichloroethene trans-1.2-Dichloroethene 1.2-Dichloropropane cis-1.3-Dichloropropene trans-1.3-Dichloropropene Methylene Chloride 1.1.2.2-Tetrachloroethane Tetrachloroethene 1.1.1-Trichloroethane 1.1.2-Trichloroethane Trichloroethene Trichlorofluoromethane 1.1.2Trichlorotrifluoroethane Vinyl Chloride	75-35-4 156-59-2 156-60-5 78-87-5 10061-01-5 10061-02-6 75-09-2 79-34-5 127-18-4 71-55-6 79-00-5 79-01-6 75-69-4 76-13-1 75-01-4	3 ND ND ND ND 19 ND ND 100 ND	* 0.5 * 0.5 0.5 0.5 0.5 2 0.5 * 0.5 * 0.5 * 0.5 * 0.5 * 0.5 * 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95 06/29/95

ND = Not detected at or above the reporting limit * = Value at or above reporting limit

American Environmental Network

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AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9506303 CLIENT PROJECT ID: 2868

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

American Environmental Network

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QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9506303 DATE EXTRACTED: 06/23/95 INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
06/27/95	PITWATER	09	117
QC Limits:			59-118

DATE EXTRACTED: 06/22/95 DATE ANALYZED: 06/24/95 SAMPLE SPIKED: DI WATER INSTRUMENT: C

Method Spike Recovery Summary

	Carilia	A		QC Limits		
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD	
Diesel	1.82	90	2	65-103	12	

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9506303 DATE(S) EXTRACTED: 06/23/95; 06/29/95 INSTRUMENT: C MATRIX: SOIL

Surrogate Standard Recovery Summary			
Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
06/26/95 07/01/95 06/26/95 06/26/95 06/27/95 06/26/95 06/27/95	SW-N-6' SW-S-6' SW-W-6' SW-E-6' B-N-10' B-S-10' STKP	01 02 03 04 06 07 08	99 100 110 86 98 95 100
QC Limits:			45-110

DATE EXTRACTED:	06/23/95
DATE ANALYZED:	06/26/95
SAMPLE SPIKED:	9506303-07
INSTRUMENT: C	

Matrix Spike Recovery Summary

		· ·		QC Li	nits .
Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	36.3	87	3	44-108	13

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QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9506303 DATE EXTRACTED: 06/26/95 DATE ANALYZED: 06/27/95 SAMPLE SPIKED: 9506265-13 INSTRUMENT: IR MATRIX: SOIL

Matrix Spike Recovery Summary

				QC Lim	its
Analyte	Spike Added (mg/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
0i1	221	94	<1	61-127	14

DATE EXTRACTED: 06/26/95 DATE ANALYZED: 06/26/95 INSTRUMENT: IR MATRIX: WATER

Method Spike Recovery Summary

				QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
0il	6.6	94	2	80-109	5

PAGE 22

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9506303 INSTRUMENT: G MATRIX: WATER

Surrogate Standard Recovery Summary

			Percen	t Recovery
Date .Analyzed	Client Id.	Lab Id.	Bromochloro- methane	1-Bromo-3-chloro- propane
06/29/95	PITWATER	09	102	94
QC Limits:	·		70-130	70-130

DATE ANALYZED: 06/20/95 SAMPLE SPIKED: 9506191-02 INSTRUMENT: G

Matrix Spike Recovery Summary

	Spike	Augusta		QC Limit	,s
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
1,1-Dichloroethene Trichloroethene Chlorobenzene	50 50 50	96 95 89	<1 4 <1	37-156 54-122 54-141	20 20 20

PAGE 23

QUALITY CONTROL DATA

METHOD: EPA 8010

Surrogate Standard Recovery Summary

AEN JOB NO: 9506303 INSTRUMENT: G MATRIX: SOIL

mo_3-chloro∙				
propane	Bromochloro- 1-6 methane	Lab Id.	Client Id.	Date Analyzed
91 89	78 73	01 02	SW-N-6' SW-S-6'	06/27/95 06/27/95
86 99	78 82	03 04	SW-W-6' SW-E-6'	06/27/95 06/27/95
85 90 88	76 80	06 07	B-N-10' B-S-10'	06/27/95
	76	06	B-N-10'	06/27/95 06/27/95 06/27/95 06/27/95 0C Limits:

DATE ANALYZED:	06/28/95
SAMPLE SPIKED:	9506285-04
INSTRUMENT: G	

Matrix Spike Recovery Summary

	Caller	A		QC Lim	nits
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
1,1-Dichloroethene Trichloroethene Chlorobenzene	50 50 50	84 109 97	1 3 4	37-156 54-122 54-141	20 20 20

PAGE 24

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9506303 INSTRUMENT: E MATRIX: SOIL

Surrogate Standard Recovery Summary

Date			Percent Recovery
Analyzed	Client Id.	Lab Id.	Fluorobenzene
06/26/95	STKP	08	108
QC Limits:			92-110

DATE ANALYZED: 06/26/95 SAMPLE SPIKED: 9506234-14 INSTRUMENT: E

Matrix Spike Recovery Summary

	Crite	1		QC Limi	ts
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Benzene Toluene	36.8 101.2	103 101	4	79-113 84-110	26 20
Hydrocarbons as Gasoline	1000	90	1	60-126	20

QUALITY CONTROL DATA

METHOD: EPA 8270

AEN JOB NO: 9506303 DATE EXTRACTED: 06/23/95 INSTRUMENT: 11 MATRIX: SOIL

Surrogate Standard Recovery Summary

					Pe	ercent Recove	ery	
Date Analyzed	Client Id.	Lab Id.	Nitro- benzene-d _s	2-Fluoro- biphenyl	Terphenyl - d ₁₄	Phenol-d _s	2-Fluoro- phenol	2,4,6-Tribromo- phenol
06/28/95	STKP	08	67	69	63	55	67	122
QC Limits:			23-120	30-115	18-137	24-113	25-121	19-122

DATE EXTRACTED: 06/19/95 DATE ANALYZED: 06/20/95 SAMPLE SPIKED: 9506151-01 INSTRUMENT: 11

Matrix Spike Recovery Summary

	Castlas	A		QC Lim	its
Analyte	Spike Added (ug/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitrosodi-n-propylamine 1,2,4-Trichlorobenzene 4-Chloro-3-methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	3630 3470 3430 3500 3450 3380 3380 3560 3480 3450 3580	52 73 61 63 69 89 81 90 60 85 73	14 12 12 <1 10 4 11 15 8 12 24	$\begin{array}{c} 39-102\\ 20-123\\ 20-108\\ 0-156\\ 31-101\\ 37-136\\ 48-115\\ 18-131\\ 34-101\\ 0-140\\ 26-148 \end{array}$	36 37 14 41 33 38 18 35 33 30 24

QUALITY CONTROL DATA

AEN JOB NO: 9506303 SAMPLE SPIKED: DI WATER DATE(S) ANALYZED: 06/26-28/95 MATRIX: WATER

Method Spike Recovery Summary

		Costko	Augmana		QC Lim	its
Analyte	Inst./ Method	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Ag, Silver	ICP/6010	0.025	88	4	80-119	10
As, Arsenic	4000/7060	0.04	115	5	84-118	12
Ba, Barium	ICP/6010	1.0	110	2	93-112	5
Cd, Cadmium	ICP/6010	0.05	100	6	90-113	9
Cr, Chromium	ICP/6010	0.10	109	1	87-117	7
Cu, Copper	ICP/6010	0.13	108	3	83-114	5
Hg, Mercury	Hg/7470	2.0 ug/L	104	<1	91-117	7
Ni, Nickel	ICP/6010	0.25	108	2	91-113	5
Pb, Lead	ICP/6010	0.50	107	3	94-115	6
Se, Selenium	4000/7740	0.08	95	5	80-114	14
Zn, Zinc	ICP/6010	0.25	106	2	92-113	5

QUALITY CONTROL DATA

AEN JOB NO: 9506303 SAMPLE SPIKED: SAND DATE(S) ANALYZED: 06/23-25/95 MATRIX: SOIL

Method Spike Recovery Summary

		Spiko	Auguago		QC Limi	ts
Analyte	Inst./ Method	Spike Added (mg/kg)	Average Percent Recovery	RPD	Percent Recovery	RPD
Ag, Silver	ICP/6010	10	86	1	33- 95	5
As, Arsenic	4000/7060	10	116	4	76-128	15
Ba, Barium	ICP/6010	100	98	1	91-107	5
Cd, Cadmium	ICP/6010	10	98	2	87-108	5
Cr. Chromium	ICP/6010	50	98	1	88-110	5
Cu. Copper	ICP/6010	50	100	1	91-108	5
Hg, Mercury	Hg/7471	0.4	107	3	80-117	5
Ni, Nickel	ICP/6010	50	101	1	88-109	5
Pb, Lead	ICP/6010	50	101	1	88-110	5
Se, Selenium	4000/7740	20	95	2	70-125	14
Zn, Zinc	ICP/6010	50	95	1	85-105	5

Daily method blanks for all associated runs showed no contamination over the reporting limit.

*** END OF REPORT ***



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600(510) 988-9600(916) 921-9600

FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

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American Environmental Net.	Client Proj. ID: 9506303	Sampled: 06/21/95
3440 Vincent Road	Sample Descript: STKP	Received: 06/23/95
Pleasant Hill, CA 94523	Matrix: SOLID	
	Analysis Method: Comb	Analyzed: 06/26/95
Attention: Denise Harrington	Lab Number: 9506F62-01	Reported: 07/05/95

QC Batch Number: IN062695084600A

Reactivity

B

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Reactivity: Sulfide Cyanide Reaction with Water	13 0.50	N.D. N.D. N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOTA ANALYTICAL - ELAP #1210

Mark Cargasacchi Project Manager

Page:



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834

(415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

American Environmental Network	Client Project ID:	9506303		•	
3440 Vincent Road	Matrix:	Solid			
Pleasant Hill, CA 94523					
Attention: Denise Harrington	Work Order #:	9506F62 -01	Reported:	Jul 5,	1995
i i i i i i i i i i i i i i i i i i i					

QUALITY CONTROL DATA REPORT

Analyte:	Reactive Cyanide	Reactive Sulfide	
QC Batch#: Analy. Method: Prep. Method:	IN062695084600A SW-846 N/A	IN062695084600A SW-846 N/A	
Analyst:	A. Pina	K. Newberry	
MS/MSD #:	-	•	
Sample Conc.:	•		
Prepared Date:	-		
Analyzed Date:	-	•	
Instrument I.D.#:	-	•	
Conc. Spiked:	-	•	
Result:	-	-	
MS % Recovery:	-	-	
Dup. Result:	. ,	-	
MSD % Recov.:	-	-	
RPD: RPD Limit:	-	-	

LCS #:	LCS062695	LCS062695
Prepared Date:	6/26/95	6/26/95
Analyzed Date:	6/26/95	6/26/95
Instrument I.D.#:	Manual	Manual
Conc. Spiked:	0.20 mg/L	10 mg/L
LCS Result:	0.069	9.8
LCS % Recov.:	34	98
MS/MSD LCS	6.5-40	80-120

Control Limits

Please Note:

SEQUOIA ANALYTICAL

(ı Mark J. Cargasacchi Project Manager

the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents,

preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

Aqua Scien 2411 Old Cr San Ramon,	ce Eng ow Cal	gineers, nyon Ro 1583	Inc. ad, #4,		CI	na	lİl	1	0	f	(JU	IS	to	d	y					
(510) 820-9			10) 837-4	1853					•					DAT	<u>е 6</u> .	21.0	<u>is</u>	PAGE	(_OF	<u>(</u>
SAMPLERS (S	,			(PF 820-9	HONE 1		PROJ	ECT N RESS	IAME	T EM	ASC E.R	:0- 411	LOU	<u>ع ب</u>			۲۲	10	<u>28</u> 5	68	
ANA	LYS	IS RI	EOUE				£42		46 8	#5d	8	Rep.							-	12	
SPECIAL INST Changes to on 6/23/9	RUCTI	ONS:			SOJO/BOLS)	TPH- GASOLINE/BTEX (EPA 5030/8015-8020)	TPH- DIESEL Extead (EPA 3510/8015)	PURCABLE AROMATICS (EPA 602/C320)	PURCABLE HALOCARBONS (EPA 601(8010)) PULL	VOLATTLE ORGMIICS (EPA 624/8240)	BASE/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE R	LUFT METALS (5) (EPA 6010+7000)	E 22 (CAM 17) 6010+7000)	(OTET/TTET	STLC- CAM WET (EPA 1311/1310)	reactt vi ty corrosi vi ty i gig tabilli ty	01:	MIULA, CHECH	TER & ERVE PLASTIC	
SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	трн- с (Ера	TPH- C	трн-4 (ера	PURG) (EPA	PURG; (EPA	VOLA (EPA	BASE, (EPA	OIL (EPA	LUFT (EPA	TITLE (EPA 6	TCLP EPA	STLC.	REAC CORRC I GRU	82	CAD.	FIC PEG	
SW-N-6'	44	15:22	Soll	. 1			X		X		 	X		- X-			н-17 рел	•			
SW-5-61	Ĺ	15:25	Soil	1		ļ	X		X		 	<u>×</u>			DSH-	NO CA	11-17 per	chint	1/23		
SW-W-6'		15:30	Soll	1		·	X		\times		ļ	X	 	X		 	: 				
SW-E-6'		5:20	SOIL	١			X		X	 	ļ	X	 	X_			 	ļ			
50-8-91		15:15	Sole	١			-×		<u>×</u> -			<u> </u>		<u> </u>	k	- 45	perde	wit is	4 <u>23</u>		
B-N-10'		15:35	SOIL	1		<u> </u>	X		<u>×</u> .		ļ	X		X			[
B-5-10"		15:38	SOIL	1			\times	ļ	X		L	X			DSH-	NO CA	1-17 per	chent	4/23		
STEP	(16:40	SolL	4		X	X		X			X				ļ	X	$ \Sigma $	[X]		
PITWATER	. V	15:10	WATER	7			X		<u> X </u>			X_		X						X	
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D. Aller (printed name)		6-22.		<u> 12 R R I L</u> 20 name)	<u>, </u>	<u>6-77</u> (date		<u>1. HE</u> nied na	<u>RRIC</u> 1mc)	<u>K (</u>	<u>577</u> (date		GTU nied na	<u>ime)</u>	illes	le (date	*5) A 5 R	day EN A	TAT	on a ses	el
Company- A				any- 12	· •			mpany						- AE)	16	2119	C R	eactin	ity o	n Ster	der

APPENDIX C

Certified Report for Imported Backfill Material



AND SONS, INC. P.O. Box 1194 • Pleasanton, CA 94566 • 846-7124

July 19, 1995

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Rd. #4 San Ramon, CA 94583

Attn: Dave Allen

Dear Dave:

At your request, our trucking company imported material to 1400 Park Avenue in Emeryville at the corner of Park and Horton.

On 6/21/95 the total import to that job site was 48.36 tons of sub base (product code 401). On 7/13/95 we imported a total of 69.84 tons of sub base (product code 401).

Sincerely,

T. E. O'Connor & Sons ('hris Devois

Chris Lewis

APPENDIX D

Acceptance Letter Manifests and Weight Tags for Forward Landfill, Inc.





P.O. BOX 6336 STOCKTON, CA 95206 (209) 466-4482 FAX (209) 465-0631

July 18, 1995

Aqua Science Engineers, Inc. 2411 Old Crow Canyon Road, #4 San Ramon, California 94583

Attention: Dave Allen

RE: FORWARD, INC. Approval No. CMM-4369 Contaminated Soil 1400 Park Avenue, Emeryville, California

Dear Mr. Allen:

FORWARD, INC. is pleased to confirm the disposal of 112.36 tons of soil as referenced above. The material was received at our Manteca, California facility for disposal on July 13, 1995. The waste was placed in a Class II waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted by Aqua Science Engineers, Inc., dated July 7, 1995 on behalf of the Charles Lowe Company. Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by Charles Lowe Company (whoever signed waste profile form) in the waste profile.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please do not hesitate to contact myself or Fay Williams at (209) 466-4482.

Sincerely,

FORWARD, INC.

OVIACE M. Mathews/70

Corrina M. Mathews Account Manager

/frw

P.O. BOX 63	SORWARD N C O R P O R A T E D 36 • STOCKTON, CA 95206 482 • FAX (209) 465-0631			0076 WEIGH		GRID D94
DAVE 2411 SAN	SCIENCE ENGINEERS ALLEN OLD CROW CANYON ROAD- RAMON, CA 94583	#4	0	DATE IN 7/13/95 DATE OUT 7/13/95		TIME IN 16:04 (ME OUT 16:05
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FORWARD INCORPORATED	- · ·	SITE 01	TICKET	GRID D94
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004369 AQUA SCIENCE ENGINEERS DAVE ALLEN 2411 OLD CROW CANYON ROAD- SAN RAMON, CA 94583 VEHICLE ROLLOFF	- #4		0 1 / 1 / 1 / 1 0	DATE IN 7/13/95 DATE OUT 7/13/95	ORIGIN	TIME IN 11:44 TIME OUT 11:44
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	36 • STOCKTON, CA 95206 482 • FAX (209) 465-0631				CHERNEL AND	IMASTER 1993	
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Manual Gross Weight Manual Tare Weight Net Weight	70160 30960 39200	LB LB LB	In	bound -	Charge	ticket	
	· · · · · ·						AMOUNT
Manifest # 44032 Generator CHARLES LOWE CO. P.O. # NONE Schedule 24 hours in advance Call (209)982-4298 to schedu	e directl	y with	the l	andfill			ET AMOUNT TENDERED CHANGE
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FORWA	RD	4-1+	NON-HAZARDOUS WASTE MANIFE	
INC.	JOB ACCEPT	TANCE NO.		
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OTTY STATE, 21P Emperium IIE PHONE	Avenue CA 94608		SPECIAL HANDLING PROCEDURES: 11840 B 31020 EB 15740 LB	51
510-655-9 contact person Strue, 5100 Strue, 5100 Strue, 5100	375 Ke Rizhdvagenni / Intle	DATE	14920 LB 3:37P 7-13-95 73520 LB T6	
* / / LUUUUUUU	- Agent for C	4-7-13-0	75 Y, UC RECEIVING FACILITY	7C.
TREATMENT SOIL DISPOSAL SOIL CONSTRUCTION SO	WOOD	ABLE ASBESTOS	FORWARD INC. LANDFIL 9999 SOUTH AUSTIN RO/ MANTECA, CALIFORNIA 95	AD 33
1400 Park	cwe Comp Acente 11e . CA 946	1	(209) 982-4298 PHONE (209) 982-1009 FAX	
NAME T.E.O'(OD) ADDRESS P.O. POX 119	nor t Sor au	η <u>ς</u> : Ι	CI-12	JMB
PLACEDING PLACEDING PHONE 510-746-7		()		NNSF
	BIZEDIAGENTI OBIDBIN	EF DATE 7-13-	ROUL-OFF(S) FLATIBLE VAN IC 2 1 1 1 25 1 1 1	
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conditions impair the safe impairs the safe and effe- reasonable efforts to prom	ective operation of the Lar nptly notify Disposer of its	ne waste or if the wa ndfill, Forward shall is inability to accept the waste is based	on Disposal METHOD: (10) BE COMPLETED BY I	1 - E -
waste for any reason. If h	ditions. Forward shall notify	the Disnoser when		11.1
waste for any reason. If h weather or other site cond conditions are expected to the waste.	ditions, Forward shall notify			
waste for any reason. If h weather or other site cond conditions are expected to	ditions, Forward shall notify o change such that Forwar		ept	
Waste for any reason. If H weather or other site cond conditions are expected to the waste. REMARKS	ditions, Forward shall notify o change such that Forwar			

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MANIFEST # 44027

FORWARD	NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY
JOB ACCEPTANCE NO.	<u>section de seguenda</u>
GENERATOR Una cless love Company (CLC) Mailung address 1400 Press Prance Ory State JP	REQUIRED PERSONAL PROJECTIVE OUIPMENT
CA94602 FROME 510.655 -9375 CONTACT PRESON CONTACT PRESON	$\begin{array}{c} 13646 \text{ LB} \\ 313680 \text{ LB} \\ 18000 \text{ LB} \\ 17620 \text{ LB} \\ 3:35F 7 - \frac{1}{3} \cdot 75 \end{array}$
A Public AUTHORIZED AGENT / HILE DATE	80540 LB T6 31,0467
	RECEIMING FACILITY
TREATMENT SOIL TREATMENT SOIL TOISPOSAL SOIL CONSTRUCTION SOIL TOISPOSAL SOIL	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
GENERATING FACILITY CHARKS LOVE COMPARY 1400 FALLE AVENUE EMERIQUITE CA 941608	(209) 982-4298 PHONE (209) 982-1009 FAX
NAME TE O'COODOR + SONG ADDRESS PO BOX 1194	NOTES TRUCK NUMBER
PIEOSADTOD (IA 94566) HE 510 F46-7 D4 SIGNATURE OF AUTHORIZEDAAGENT ORDRIVER DATES.	END DUMP BOTTOM DUMP FRANSFER ROH-OFF(S) FLAGBED VAN DRUMS
* May Klepter 17. 13. 15	
FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	CUEIC YARDS
conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.	DISPOSAL METHOD (TO BE COMPLETED BY FORWARD) DISPOSE BIC ABRAUS SIGNALS OTHER:
the waste.	
PACILITY ROKET NUMBERT SIGNATURE OF AUTHORIZED AGENT	
SIGNATURE OF AUTHORIZED AGENT DATE	☐ ASH
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SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR TO EXPECTED ARRIVAL • ANY UNSCHEDULED LOADS ARE SUBJECT TO REFUSAL UPON ARRIVAL ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298 MANIFEST # 44028

FORWARD	NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY
JOB ACCEPTANCE NO.	
GENEBATIOR Angles Lour Comining (clc) MAILING ADDRESS 14/00 Park ADDREDUC	BEQUIRED PERSONAL PROTECTIVE COUPMENT QGLOVES GOGGLES RESPIRATOR ALARD HAT TY-VEK OTHER SPECIAL HANDLING PROCEDURES:
HONE HINNE DID: 1655 - 9375 CONTACT PERSON B-1616 SIG OF SIGNATURE OF AUTHORIZED AGENT / THATE IDATE IDATE IDATE	11960 LB 24700 LB 11260 LB 11260 LB 11200 LB 10:25A 7-13-95 5300 LB 59120 LB T6 10:52A 7-13-95
*/auf alle Agent for CLC 7-13-95	BEGEVINGHAGUUTY
Image: Solution of the second state of th	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
GENERAUNG FACILITY Charles Coure Conference (Company 1400 Pourk Pace Emericantle CA 94408	(209) 982-4298 PHONE (209) 982-1009 FAX
NAME TE O'COMMY + SONS (1) ADDRESS PO MOX 1194 SITY STATE ZIP	A NOTES A 14 A STATE OF A STATE O
PLEASADTON (A. 9956) PLEANE SIGNATURE OF AUTHORIZED AGENT OF DRIVER DATES T -12-95	ROULOFF(S) FLATBED VAN DERUMS
FORWARD INC. LANDFILL	CUBIC VARDS
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of-its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste.	DISPOSALEMENTHOD: (TO BE COMPLETED BY FORWARD)
	SLUDGE
A PAGILITY ATCKET NUMBER	
SGNATURE OF AUTHORIZED AGENT	ASH
SCHEDULING MUST BE MADE PRIOR TO 4:00 P.M. THE DAY PRIOR	TO EXPECTED ARRIVAL . ANY UNSCHEDULED LOADS ARE

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SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL. THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298 MANIFEST # 44029

FORWARD		NON-HAZÁRDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY
JOB ACCEP	TANCÉ NO. 👖	
GENERATOR CONFICS/OUCCON MAILING ADDRESS	man (cuc)	REQUIRED REPSONAL PROTECTIVE COURMENT GLOVES GOGGLES RESPIRATOR HAT TY-VEK OTHER
EMPY LIVING (14) 44/008		SPECIAL HANDLING PROCEDURES:
510-655-9375 CONTAGT PERSON 31002 Stack		13600 LB 12520 LB 10:23A 7-13-95 61420 LB T6 10:23A 7-13-95 10:48A 7-13-95 10:48A 7-13-95 10:48A 7-13-95
SIGNATURE OF AUTHORIZED AGENT / UNITE * * (Author) / (Alle Agent Fry (MASTE TYPE	041E CU 7.13.95	RECEIVINGIFACILITY
O DISPOSAL SOIL DISPOSAL SOIL ASH	NABLE ASBESTOS	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD
GENERATING FACILITY		MANTECA, CALIFORNIA 95336 (209) 982-4298 PHONE (209) 982-1009 FAX
EMERIJUIK CA GULTE		NOTES
$T \in O' CONDOR + SOL$	<u> </u>	INGLES AND
TE O'COMMONT SON ADDRESS P.D. BOX 1194 SITUMISTATE ZIP DIRECTOR (18) 905		1NOTES
" ADDRESS	the second s	ENDIDUMP BOTIOMIDUMP FRANSFER BOTIOMIDUMP FRANSFER BOTIOMIDUMP FRANSFER ROLLOFE(S) FFDAT BED VAN DEUMST
ADDRESS PD BOX 1194 OTTVI STATE ZIP PICCISCUITON CA 945 PIONE 510-816-7124	the second s	END DUMP. BOTTOM DUMP. TRANSFER.
ADDRESS PD BOX 1194 SILVISIALE ZIP PIECISCUTTON CA 945 FORWARD INC. LAN		END DUMP. A BOTTOM DUMP. TRANSFERS
ADDRESS PD BOX 1194 SILLY STATE ZIP PICOS CUTTOR CA 945 FORMATURE OF AUTHORIZED AGENT OR DRIV SIGNATURE OF AUTHORIZED AGENT OR DRIV * Real August FORWARD INC. LAN Forward shall have no obligation to accept the conditions' impair the safe and effective disposal of the	TER DATE DATE DATE DATE DATE DATE DATE DATE	END DUMP BOTTOM DUMP TRANSFER ROLLOFE(S) FEDAT, BED VAN DEUMST C C C C C C C C C C C C C C C C C C C
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ADDRESS PD BOX 1194 SIGNATURE ZIP PICO CONTON CA QL/F FIONE SIGNATURE OF AUTHORIZED AGENTION OR DRIV * Rem Augu- FORWARD INC. LAN Forward shall have no obligation to accept the conditions impair the safe and effective disposal of the impairs the safe and effective operation of the La reasonable efforts to promptly notify Disposer of its waste for any reason. If Forward's refusal to accept weather or other site conditions, Forward shall notify conditions are expected to change such that Forward the waste. REMARKS	TER DATE TER DATE IDFILL waste if weather or other the waste or if the waste indfill. Forward shall use is inability to accept the it the waste is based on it the Disposer when site	END DUMP A BOITIOM DUMP TRANSFER CONTOFE(S) AFFATEBED VAN DEUMST CUBIC VARDS DISPOSAL-METHOD A (ITCIBE COMPLETED BY FORWARD) DISPOSE ROY AFFATE STOCKALE OTHER DISPOSE ROY AFFATE STOCKALE OTHER
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SUBJECT TO REFUSAL UPON ARBIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298 MANIFEST # 44030

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	NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY
JOB ACCEPTANCE NO.	
GENERATOR Uncur les / Duce Company (CLC) Mateingradoress	REQUIRED PERSONAL PROTECTIVE COULD NENT XGLOVES GOGGLES RESPIRATOR HAT TY-VEK OTHER
1400 FOR CHENDE OUTY, STATE AP COMPTINITE, CH 94608 PHONE	SPECIAL HANDLING PROCEDURES: 10140 LB 11720 LB
H SID-655-9375 GONTAGT PERSON SSRUE STACE	25940 LB 14400 LB 13340 LB 10:26A 7-13-95 3980 LB
SIGNATURE OF AUTHORIZED AGENT / TILLE AND DATES THE	66080 LB T6 10:49A 7-13-95 31060 LB T6
G WASTE DYRE	BEGEIVING/FACILITY
Image: Stream of the second	FORWARD INC. LANDFILL 9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
GENERATING FACILITY CHARLES LOUIE COMPANY 1400 POUR & AUENUE EXMERLIVILLE (1A GUKOS	(209) 982-4298 PHONE (209) 982-1009 FAX
NAME T.E.O'CONDOX ADDRESS PO.EOX 1191 SITY, STATE DP PIFUS QUITO ('A '19566	TNOTES TRUCK NUMBER
HIONE SIGNATURER AUTHORIZED AGENTION DRIVER DATE	END DUMP BOTTOM DUMP TRANSFER BOTTOM DUMP IP ROLL-OFFIS ELALBED VAN I I I
FORWARD INC. LANDFILL	
Forward shall have no obligation to accept the waste if weather or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill. Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site- conditions are expected to change such that Forward will be able to accept the waste. REMARKS	DISPOSAL METHOD: CITO BE COMPLETED BY FORWARD) DISPOSE BIO AFRATE STOCKTUE OTHER SOIL
	NON-FRIABLE ASBESTOS
FAGILITAT TICKET NUMBER	
► + (2.2.4)	ASH

SUBJECT TO REFUSAL UPON ARRIVAL ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298 MANIFEST # 44031 4.5

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E ORWARD	NON-HAZARDOUS WASTE MANIFEST WASTE TREATMENT AND DISPOSAL FACILITY
JOB ACCEPTANCE NO.	
GENERATOR UM 165 LOUX (UMMMU/CCLC) MATHING ADDRESS	REQUIRED PERSONAL PROTECTIVE EQUIPMENT
Emerinille, CA 901608	SPECIAL HANDLING PROCEDURES: 12160 LB 12974X LB 14480 LB 9380 LB
HE GID-UE5-9375 CONTAGT PERSON DELECTION SIGNATURE OF AUTHORIZED AGENITY THINE HOATE	14180 LB 12:33P 7-13-95 5140 LB 70160 LB T6 4160 LB
*/ budllh Hgut for CLC 7:13-95	12:50P 7-13-95
	RECEIVING FAGILITY
TREATMENT SOIL	FORWARD INC. LANDFILL
	9999 SOUTH AUSTIN ROAD MANTECA, CALIFORNIA 95336
GENERATING FACILITY	(209) 982-4298 PHONE
ENTRYINING OF 44118	(209) 982-1009 FAX
NAME	
	NOTES:
NAME T.E.O'COMMON 1 SONS ADDRESS FO. COX 1191 CITY-STATE ZIP	16
NAME: $T \in O'CONNOV + SONS$ ADDRESS $P O \in C \times 1191$ CITY-STATE ZIF $P I \in C \oplus D = 0$ (14 94566 PHONE $P I \cap C \oplus D = 0$	END DUMP BOTIOM DUMP TRANSFERS
NAME T.E. O'CONNOL 4 SONS ADDRESS P.O. ECX 1191 CITY-STATE ZIP PLECE ON TOO (14 94566 PHONE PHONE EDO: 246-71540	16
NAME T.E.O.CONVOLTSONS ADDRESS P.O. ECX 1191 CITY STATE ZIR PLCC 20100 (17, 94566 PHONE FIO: 246-7104 SIGNATURE OF AUTHORIZED AGENTRORIDRIVER DATES	END DUMP BOTIOM DUMP TRANSFERS
NAME T.E.D.CONCOLLSONS ADDRESS P.D.ECX 1191 CITY-STATE ZIP PLCCONTON (74 94566 PHONE 510.246-1194 SIGNATURE OF AUTHORIZED AGENT OR DRIVER 510.246-1194 SIGNATURE OF AUTHORIZED AGENT OR DRIVER MAKE T-13-95 FORWARD INC. LANDFILL Forward shall have no obligation to accept the waste if weather or other	END DUMP BOTTOM DUMP TRANSFER ROEL-OFFISI FIAI-BED AVAN DRUMS CUBICAYARDS
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NAME T.E.O.CONDOCALSONS ADDRESS D. BOX 144 D. BOX 144 D. BOX 144 CITY STATE ZIE PLACCONTOD (14 94566 PHONE DATE SIGNATURE OF AUTHORIZED AGENT OR DRIVER DATE Mark T-13-95 FORWARD INC. LANDFILL Notes and effective disposal of the waste or other conditions impair the safe and effective disposal of the waste or if the waste impairs the safe and effective disposal of the waste or if the waste impairs the safe and effective operation of the Landfill, Forward shall use reasonable efforts to promptly notify Disposer of its inability to accept the waste for any reason. If Forward's refusal to accept the waste is based on weather or other site conditions, Forward shall notify the Disposer when site conditions are expected to change such that Forward will be able to accept the waste. REMARKS REMARKS	LILL END DUMP BOTTOM DUMP TRANSFER ROEL-OFF(S) FLAT-BED VAN DRUMS CUBIC MARDS CUBIC MARDS DISPOSAL METHOD (TO BE COMPLETED BY FORWARD) DISPOSE BIO AFFATE STOCKPLE TO THER SOIL SLUDGE NON-FRIABLE ASBESTOS

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SUBJECT TO REFUSAL UPON ARRIVAL. ONGOING DAILY DELIVERIES MUST BE SCHEDULED WITH THE LANDFILL THE DAY BEFORE. TO SCHEDULE CALL (209) 982-4298 MANIFEST # 44032

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