PHASE 2 - ENVIRONMENTAL SITE ASSESSMENT
SOIL SAMPLING AND ANALYTICAL TESTING
CASTERSON PROPERTY
TASSAJARA ROAD
DUBLIN, CALIFORNIA

FOR
CHARTER PROPERTIES

August 7, 1997

Job No. 2182.900

BERLOGAR GEOTECHNICAL CONSULTANTS

August 7, 1997
Job No. 2182.900

BGC
BERLOGAR
GEOTECHNICAL
CONSULTANTS

Charter Properties
6601 Owens Drive, Suite 100
Pleasanton, California 94566

Attention: Mr. Jim Tong

Subject: Phase 2 - Environmental Site Assessment
Soil Sampling and Analytical Testing
Casterson Property
Tassajara Road
Dublin, California

Gentlemen:

INTRODUCTION

General

This report contains the results of our Phase 2 environmental site assessment including soil sampling and analytical testing at the Casterson Property at 5020 Tassajara Road in Dublin, California. The vicinity of the site is shown in relation to surrounding area on the Vicinity Map, Plate 1.

A previous Phase 1 environmental assessment report was performed at the site by McLaren-Hart dated September 14, 1990 which identified several areas where potentially hazardous materials were reportedly used and stored at the site. The areas identified in the McLaren-Hart report include: 1) existing gas house sheds containing two above-ground fuel tanks; 2) six 55-gallon barrels (4 at Gas House, and 2 at Pole Barn) containing kerosene, carbon disulfide, motor oil and hydraulic fluids; 3) miscellaneous containers in sheds including: 2-4-D (Amine weed killer), rodent bait, gas cylinders with nitrogen and argon, propane, gear lube, motor oil and hydraulic fluids; 4) wooden vats for storage of nitrogen and phosphorus fertilizers; 4) numerous abandoned vehicles and farming equipment in open areas at the site; and 5) two existing residential structures with possible asbestos containing materials (ACM).

Purpose

The purpose of our Phase 2 assessment has been to obtain soil sampling and perform analytical testing to evaluate whether or not the areas identified in the McLaren-Hart report have been impacted. Our study has included:

- Performing an initial round of sampling of surface soils at areas suspected to have been impacted and analytical test on composite samples to evaluate the presence of target contaminants;

- Where contaminants are detected above regulated levels in the initial round of sampling, obtain additional soil samples and performing analytical testing to further define extent of areas and depths of contaminated soils;

- Perform asbestos survey of readily accessible areas of two residences for the presence of ACM; and

- Presenting the findings of Phase 2 study in this report.

ASBESTOS SURVEY

On May 6, 1997, an Asbestos Survey was performed by HMA, Inc. to provide an inspection of potential asbestos hazards at the two single-family residences at the site. HMA presented the results of their survey in a report dated May 8, 1997 (#7040) which is included in Appendix A. The results of the HMA, Inc. survey showed the presence of asbestos containing material (ACM) in the main residence at the following locations: 1) the transite flue, 2) the upstairs bath flooring, and 3) the sheetrock joint compound. The HMA, Inc. report indicates the materials containing asbestos would be rated a very low hazard and no corrective action is indicated at this time; however, the HMA report did indicate that in the event of demolition ACM is required to be removed by a qualified asbestos abatement contractor prior to disturbance.

SOIL SAMPLING AND ANALYTICAL TESTING

Initial Round of Soil Sampling

An initial round of soil sampling was performed on May 6, 1997. Our field representative obtained a total of 26 soil samples from the ground surface to a depth of about 1 foot. Samples R-1 through R-24 (24 samples) were obtained randomly from areas in and surrounding locations where potentially hazardous materials were reportedly used and stored. Samples S-1 and S-2 were obtained below the above ground fuel storage tanks in the gas house area. The location of samples is shown on the Sample Location Plan, Plate 2. Individual soil samples R-1 through R-24 were composited into five composite samples for analytical testing. Composite samples included: C-1 (R-1 through R-6), C-2 (R-7 through R-13), C-3 (R-14 through R-15), C-4 (R-20 through R-24), and C-5 (R-16 through R-19).

Soil samples were sealed in unused glass containers and transported on ice under proper chain-of-custody to American Environmental Network (AEN), a state certified laboratory in Pleasant Hill, California. The five composite samples were analyzed for the following:

- BTEX and Gasoline Hydrocarbons (EPA 8020)
- Total Phosphorus (EPA 365.2)
- Total Petroleum Hydrocarbon - Diesel (GC-FID)
- Hydrocarbons (EPA 418.1)
- Organo Lead (DOHS-LUFT)

- Pesticides and PCB's (EPA 8080)
- Total Cyanide (EPA 8150)
- Priority Pollutant Metals

The results of AEN analytical testing performed on the five composite samples C-1 through C-5, and individual samples S-1 and S-2 are summarized in Table 1, and the AEN report dated June 12, 1997 is presented in Appendix B1.

TABLE 1
Summary of Analytical Testing on Composited Samples

Constituent	AEN Laboratory Result - Concentration (mg/kg)						
	C-1	C-2	C-3	C-4	C-5	S-1	S-2
Total Hydrocarbons	450	390	30	130	540	--	--
TPH-Gasoline	ND	ND	ND	ND	ND	29	1.2
TPH-Diesel	500	ND	ND	ND	ND	35,000*	7,800*
Benzene	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND
Organo Lead	ND	ND	ND	ND	ND	--	--
Pesticide	ND	ND	ND	ND	ND	--	--
PCB	ND	ND	ND	ND	ND	--	--
Cyanide	ND	ND	ND	ND	ND	--	--
Phosphorus	1200	1200	580	900	1100	--	--
Metals							
Ag	0.2	0.2	0.2	0.1	0.2	--	--
As	3.2	5.5	5.6	4.4	2.9	--	--
Be	0.3	0.3	0.4	0.2	0.4	--	--
Cd	0.3	2.0	ND	0.4	0.2	--	--
Cr	22	49	24	22	27	--	--
Cu	24	69	18	19	20	--	--
Hg	ND	0.2	ND	ND	0.1	--	--
Ni	26	41	29	25	35	--	--

TABLE 1
Summary of Analytical Testing on Composited Samples

Constituent	AEN Laboratory Result - Concentration (mg/kg)						
	C-1	C-2	C-3	C-4	C-5	S-1	S-2
Pb	100	190*	10	100	780*	--	--
Sb	ND	ND	ND	ND	ND	--	--
Se	ND	ND	ND	ND	ND	--	--
Tl	ND	ND	ND	ND	ND	--	--
Zn	97	510	52	120	75	--	--

Note:

* = Elevated concentrations detected.

Based on composite sample results, additional testing was performed on initial round samples R-1 through R-13, and R-16 through R-19. Samples R-1 through R-6 were analyzed for TPH-diesel, and the results are summarized below in Table 2. Samples R-7 through R-13, and R-16 through R-19 were analyzed for lead "Pb", and the results are summarized below in Table 3. The AEN report for these additional tests are also included in their June 12, 1997 report in Appendix B1.

TABLE 2
Summary of Analytical Testing on R-1 through R-6

Constituent	AEN Laboratory Results - Concentration (mg/kg)					
	R-1	R-2	R-3	R-4	R-5	R-6
TPH - Diesel	2	280*	ND	ND	ND	1500*

Note:

* = Elevated concentrations detected.

PRG for residential is 130 ppm

TABLE 3
Summary of Analytical Testing R-7 through R-13, and R-16 through R-19 for Lead

Constituent	AEN Laboratory Results - Concentration (mg/kg)										
	R-7	R-8	R-9	R-10	R-11	R-12	R-13	R-16	R-17	R-18	R-19
Lead (Pb)	100	41	1100*	48	110	21	70	390	12	14	21

Note:

* = Elevated concentrations detected.

Second Round of Soil Sampling

A second round of soil sampling was performed on June 9, 1997, to obtain additional samples in areas where samples obtained in the initial round showed elevated concentrations. The two areas where elevated concentration were detected include: 1) the gas house shed in areas below and immediately surrounding the above ground storage tanks where TPH-diesel levels were high; and 2) the welding shop shed located north of the gas house about 80 feet adjacent to two silos where lead "Pb" concentrations exceeded Total Threshold Limit Concentrations (TTLC). A backhoe was used to obtain samples within and around these areas. A total of 12 additional samples were obtained from TP-1 through TP-8 at depths ranging from the ground surface up to 4 feet. Soil samples were sealed in unused glass containers and transported on ice, under proper chain-of-custody, to American Environmental Network (AEN). The soil samples were analyzed for TPH - diesel (GC-FID), and lead (Pb).

The results of AEN analytical testing performed on the additional samples obtained from TP-1 through TP-8 are summarized below in Table 4. The complete results are presented in the AEN report dated June 20, 1997 in Appendix B2.

TABLE 4
Summary of Analytical Testing on Second Round Samples

Constituent	Sample Depth	AEN Laboratory Results - Concentration (mg/kg)							
		TP-1	TP-2	TP-3	TP-4	TP-5	TP-6	TP-7	TP-8
TPH - Diesel	1-2	14	ND	ND	--	--	--	--	--
	2-4	9	ND	ND	--	--	--	--	--
Lead (Pb)	0-½	--	--	--	--	860	26	13	15
	1-2	--	--	--	9	--	--	--	--
	2-4	--	--	--	12	--	--	--	--

FINDINGS

The findings of our Phase 2 - Environmental Site Assessment are summarized below:

1. In the gas house area, elevated concentrations of TPH-diesel were detected in the near surface soil samples (upper 1 foot) obtained below and in the immediate east of the above ground fuel storage tanks. At sample locations S-1, S-2, R-2 and R-6 laboratory results showed concentrations ranging from 280 to 35,000 mg/kg. Samples obtained below depths of about 1 foot showed low concentrations to not detectable.

2. In the welding shop shed area, elevated concentrations of lead "Pb" were detected in the near surface soil samples (upper ½ foot) at the north doorway entrance to the shed. At sample location R-9 and TP-5 concentrations ranging from 860 to 1,100 mg/kg were detected. Regulated TTLC limits for lead are 1,000 mg/kg. Should use PRG levels 130ppm
R-16 = 390

3. The asbestos survey of the two single-family residences. At the main residence ACM was observed at the following locations: 1) the transite flue, 2) the upstairs bath flooring, and 3) the sheetrock joint compound.

EVALUATION

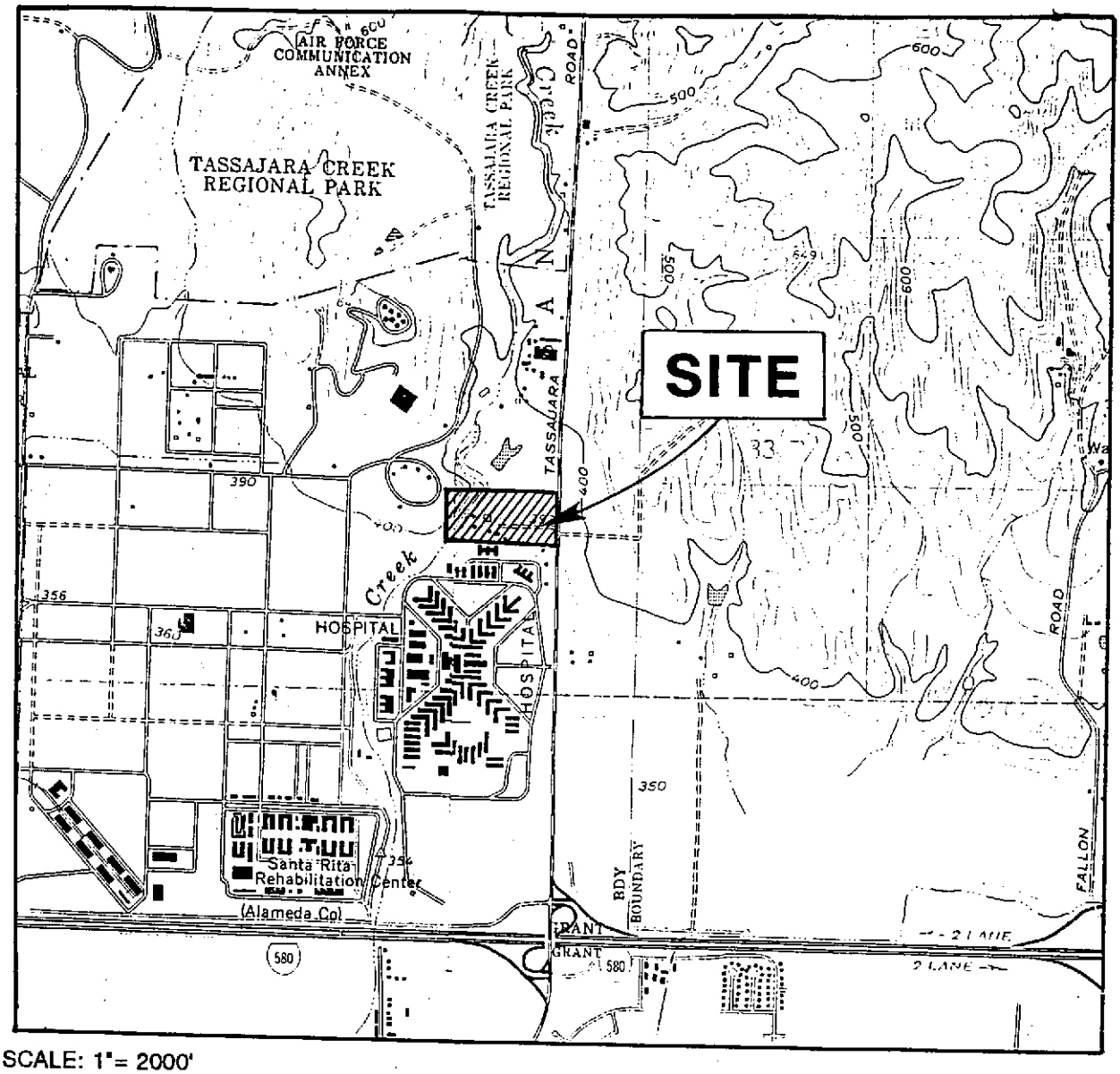
The soils containing excessive TPH-diesel in the gas house area immediately below and surrounding the above ground storage tanks will need to be treated and/or disposed of in accordance with current regulations. Similarly the soils near the welding shop entrance with excessive lead concentrations will need to be removed and disposed of in accordance with current regulatory requirements.

The ACM in the main residence is rated as a low hazard at this time, and no corrective action is required. However, the potential for future hazard is dependent on factors such as deterioration and damage. In the event of demolition of the residence the ACM will need to be removed by a qualified asbestos abatement contractor in accordance with regulatory requirements.

LIMITATIONS

Our conclusions and recommendations are based on sampling and analysis of soil samples, and a surface reconnaissance. Additional sampling and testing would be necessary if a more in-depth analysis at this site is warranted. Site descriptions described in the text are those existing at the time of our field reconnaissance in May and June, 1997, and are not necessarily representative of such conditions at other locations and times. The conclusions and recommendations contained herein are professional opinions derived in accordance with current standards of practice; no warranty is expressed or implied.

BERLOGAR GEOTECHNICAL CONSULTANTS



SCALE: 1"= 2000'

VICINITY MAP

CASTERSON PROPERTY

TASSAJARA ROAD
DUBLIN, CALIFORNIA
FOR
CHARTER PROPERTIES

BASE: PORTIONS OF USGS 7-1/2 MINUTE TOPOGRAPHIC QUADRANGLES, DUBLIN AND LIVERMORE, CALIFORNIA, PHOTOREVISED 1980, BOTH AT A SCALE OF 1:24,000.

PLATE 1

BERLOGAR GEOTECHNICAL CONSULTANTS

JOB NUMBER: 2182.900 DATE: 5-22-97 BY: DMH

APPENDIX A

HMA Asbestos Survey Report
Dated May 8, 1997

HMA INC
HAZARDOUS MATERIALS ASSESSMENT, INC.

RECEIVED
MAY 9 1997
Berlogar Geotechnical Consultants

Raimo Vahamaki
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

May 8, 1997

RE: ASBESTOS SURVEY # 7040

Effective May 6, 1997, HMA was asked to provide an inspection and report on present and/or potential asbestos hazards in the accessible interior living areas of two (2) single family residences located at 5020 Tassajara Road, Dublin, California.

PROTOCOL:

The survey was conducted by an asbestos consultant who has been certified by the State of California's Division of Occupational Safety and Health, and accredited under the EPA AHERA program for building inspection and management planning for asbestos. It was not known if the structures were to be scheduled for demolition or renovation, therefore to be as inclusive as practical, the survey was conducted in conformance with the Bay Area Air Quality Management District's Regulation 11, Rule 2, Section 303.8. The visual survey was conducted in conformance with the principles of AHERA as outlined in 40 CFR 763. PLM laboratory analysis of bulk samples was conducted by an independent NVLAP accredited facility.

INSPECTION and SAMPLES:

Main Residence:

The building identified as the main residence was a two story wood frame structure with wood siding and a recently replaced fiberglass shingle roof. Roofing materials were less than 5 years old, newer than would be considered suspect for asbestos.

The interior was reported as having been completely "gutted" and renovated approximately 25 years ago.

1933 Davis Street, Suite 303, San Leandro, California 94577-1259
Office (510) 638-4801 ○○○○○ Fax (510) 638-4803

Interior wall and ceiling plaster had been removed, and newer sheetrock installed. Sample 7040-02 was collected of the sheetrock joint compound. Results of laboratory analysis were reported as 1% to 5% chrysotile asbestos. The material in place would be considered encapsulated by the wall paint, and no further corrective action is required at this time.

Dining area ceilings were a 12 inch cellulose acoustical tile, not suspect for asbestos content.

In the upstairs furnace closet the furnace ducts were fiberglass insulated; the furnace flue connected to a vertical transite-asbestos exhaust stack. The material was non-friable and no corrective action is indicated at this time. Ultimately, the transite would be required to be removed prior to demolition.

In the crawl space under the house the ducts were fiberglass insulated.

The flooring of the kitchen and downstairs bath was a tan 12 inch floor tile. Analysis found no asbestos detected.

The flooring of the upstairs bath was a vinyl sheet with yellow rectangular pattern. Analysis confirmed 65% to 70% chrysotile asbestos in the gray fibrous backing. No corrective action is required at this time.

The ceilings were not of the sprayed acoustical type.

The hot water heater did not appear to be insulated with asbestos materials.

The oven did not contain an asbestos gasket.

The fireplace did not contain artificial asbestos cement gas logs or ashes.

No other suspect materials were identified.

Secondary Residence:

The structure was a wood frame single story (with attic) building with concrete exterior and a new (8 years) fiberglass shingle roof. Roofing materials were newer than would be considered suspect for asbestos content.

Interior walls were plaster in the kitchen and sheetrock elsewhere. Sample analysis of the plaster was reported as no asbestos detected; and analysis of the sheetrock joint compound found no asbestos detected.

The ceiling of the living room was a 12 inch acoustical tile. Sample analysis indicated no asbestos detected.

Window grout was present, and analysis confirmed no asbestos detected.

The flooring of the kitchen/utility area was a blue/green patterned linoleum. Laboratory analysis reported no asbestos detected.

The ceilings were not of the sprayed acoustical type.

The hot water heater did not appear to be insulated with asbestos materials.

The oven did not contain an asbestos gasket.

Heating was by in-wall electric heaters; no insulation was identified and no flues would be required for electric heaters.

The upstairs attic was unfinished, and used for storage. No suspect materials were identified.

ASSESSMENT FACTORS:

An assessment must consider several factors, including:

Category	transite flue	joint compound	bath flooring
Amount of Material	< 10 lineal feet	unmeasured	< 100 sq feet
Asbestos Content	untested	1% to 5%	65% to 70%
Friability	non-friable	encapsulated	sealed
Condition of Material	good	good	good
Accessibility	encapsulated	encapsulated	enclosed
Time of Exposure	-0-	-0-	-0-
Exposure to Airflow	-0-	-0-	-0-

Considering these factors, the materials would be rated a very low hazard, and no corrective action is indicated at this time. During normal use and occupancy, no corrective action would be required.

The potential for future hazard is dependent upon such factors as deterioration of the material and damage from maintenance or repair activity.

In the event of demolition, the asbestos containing materials would be required to be removed prior to disturbance.

SUMMARY:

Samples were collected of the suspect materials except the transite flue, and laboratory analysis found only the (transite flue and) the upstairs bath flooring and the sheetrock joint compound of the main residence contained greater than one percent (1%) asbestos content.

No further corrective action is required or indicated.

If there is additional information needed or if we can be of further assistance please feel free to contact us.

Sincerely,

Scott W. Compton
President
Certified Asbestos Consultant 92-0018

* The inspection and inspection report is for the sole use and benefit of Client and is not intended for use by anyone but Client. Under no circumstances shall the inspection or report be for the benefit of any third party.

HMA INC
HAZARDOUS MATERIALS ASSESSMENT, INC.

Raimo Vahamaki
Berlogar Geotechnical Consultants
5587 Sunol Boulevard
Pleasanton, CA 94566

May 8, 1997

RE: ASBESTOS SURVEY # 7040

On May 6, 1997, HMA collected bulk samples of material and was asked to obtain laboratory analysis for possible asbestos content.

Analysis was performed by an independent NVLAP accredited laboratory and results are reported as:

Sample No.	Material	Area	% Asbestos[1]	Type
7040-01	12" floor tile	kitchen, bath	none detected	
7040-02	SRJC	wall joint compound	1% to 5%	chrysotile
7040-03	vinyl flooring	2nd floor bath (backing)	65% to 70%	chrysotile
7040-04	ceiling tile	living room	none detected	
7040-05	vinyl flooring	kitchen, utility	none detected	
7040-06	plaster	kitchen wall	none detected	
7040-07	SRJC	bedroom wall	none detected	
7040-08	grout	window grout	none detected	

If there is additional information required, or if we can be of further assistance, please feel free to contact us.

Sincerely,

Scott W. Compton
Certified Asbestos Consultant 92-0018

[1]Comments: Analysis employs Polarized Light Microscopy, and is performed by an analyst qualified under the EPA bulk asbestos proficiency testing program at an NVLAP accredited laboratory. In cases where sample analysis finds asbestos present, but in concentrations of less than one percent (<1%), such samples are designated at "trace" amounts.

1933 Davis Street, Suite 303, San Leandro, California 94577-1259
Office (510) 638-4801 ○○○○○ Fax (510) 638-4803

APPENDIX B1

AEN Analytical Testing Report
Dated June 12, 1997

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

RECEIVED

JUN 16 1997

Berlogar Geotechnical Consultants

BERLOGAR GEOTECH. CONSULTANTS
5587 SUNOL BOULEVARD
PLEASANTON, CA 94566

REPORT DATE: 06/12/97

DATE(S) SAMPLED: 05/06/97

DATE RECEIVED: 05/07/97

AEN WORK ORDER: 9705073

ATTN: TED BAYHAM
CLIENT PROJ. ID: 8450.900
CLIENT PROJ. NAME: CASTERSON RNCH

PROJECT SUMMARY:

On May 7, 1997, this laboratory received 31 soil sample(s).

Client requested 24 sample(s) be analyzed for chemical parameters; seven were placed on hold. Portions for EPA 8150 and cyanide were subcontracted to DOHS certified laboratories; subcontract reports are included. Results of analysis are summarized on the following page(s). 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.

William Luboda, for
Larry Klein
Laboratory Director

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-1
AEN LAB NO: 9705073-01
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	2 *	1	mg/kg	05/28/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-2
AEN LAB NO: 9705073-02
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	280 *	10	mg/kg	05/29/97

RL elevated due to high levels of non-target compounds
Sample run dilute.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-3
AEN LAB NO: 9705073-03
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	ND	10	mg/kg	05/29/97

RL elevated due to high levels of non-target compounds
Sample run dilute.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-4
AEN LAB NO: 9705073-04
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	ND	1	mg/kg	05/29/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-5
AEN LAB NO: 9705073-05
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	ND	1	mg/kg	05/29/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-6
AEN LAB NO: 9705073-06
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	05/27/97
TPH as Diesel	GC-FID	1,500 *	20	mg/kg	05/29/97

RL elevated due to high level of target compound.
Sample run dilute.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-7
AEN LAB NO: 9705073-07
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	100 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-8
AEN LAB NO: 9705073-08
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	41 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-9
AEN LAB NO: 9705073-09
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	1,100 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-10
AEN LAB NO: 9705073-10
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	48 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-11
AEN LAB NO: 9705073-11
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	110 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-12
AEN LAB NO: 9705073-12
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	21 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-13
AEN LAB NO: 9705073-13
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	70 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-16
AEN LAB NO: 9705073-16
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	390 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-17
AEN LAB NO: 9705073-17
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	12 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-18
AEN LAB NO: 9705073-18
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	14 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: R-19
AEN LAB NO: 9705073-19
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	21 *	3	mg/kg	06/03/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	06/02/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-1
AEN LAB NO: 9705073-25
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	05/15/97
Toluene	108-88-3	ND	5	ug/kg	05/15/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/15/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/15/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	05/15/97
Total Phosphorus in Soil	EPA 365.2	1,200 *	5	mg/kg	05/15/97
#Extraction for TPH	EPA 3550	-		Extrn Date	05/12/97
TPH as Diesel	GC-FID	500 *	10	mg/kg	05/14/97
Organo Lead in Soil	DOHS-LUFT	ND	1	mg/kg	05/16/97
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	05/08/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	05/08/97
#Soil Extrn for HCs	IR	-		Extrn Date	05/08/97
Hydrocarbons (IR)	EPA 418.1	450 *	10	mg/kg	05/09/97
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/12/97
Pesticides & PCBs	EPA 8080				
Aldrin	309-00-2	ND	10	ug/kg	05/13/97
alpha-BHC	319-84-6	ND	10	ug/kg	05/13/97
beta-BHC	319-85-7	ND	10	ug/kg	05/13/97
delta-BHC	319-86-8	ND	10	ug/kg	05/13/97
gamma-BHC (Lindane)	58-89-9	ND	10	ug/kg	05/13/97
Chlordane	57-74-9	ND	100	ug/kg	05/13/97
4,4'-DDD	72-54-8	ND	20	ug/kg	05/13/97
2,4'-DDD	53-19-0	ND	20	ug/kg	05/13/97
4,4'-DDE	72-55-9	ND	20	ug/kg	05/13/97
2,4'-DDE	3424-82-6	ND	20	ug/kg	05/13/97
4,4'-DDT	50-29-3	ND	20	ug/kg	05/13/97
2,4'-DDT	789-02-6	ND	20	ug/kg	05/13/97
Dieldrin	60-57-1	ND	20	ug/kg	05/13/97
Endosulfan I	959-98-8	ND	10	ug/kg	05/13/97
Endosulfan II	33212-65-9	ND	20	ug/kg	05/13/97
Endosulfan Sulfate	1031-07-8	ND	20	ug/kg	05/13/97

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-1
AEN LAB NO: 9705073-25
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Endrin	72-20-8	ND	20	ug/kg	05/13/97
Endrin Aldehyde	7421-93-4	ND	20	ug/kg	05/13/97
Heptachlor	76-44-8	ND	10	ug/kg	05/13/97
Heptachlor Epoxide	1024-57-3	ND	10	ug/kg	05/13/97
Methoxychlor	72-43-5	ND	20	ug/kg	05/13/97
Toxaphene	8001-35-2	ND	100	ug/kg	05/13/97
Aroclor 1016	12674-11-2	ND	100	ug/kg	05/13/97
Aroclor 1221	11104-28-2	ND	100	ug/kg	05/13/97
Aroclor 1232	11141-16-5	ND	100	ug/kg	05/13/97
Aroclor 1242	53469-21-9	ND	100	ug/kg	05/13/97
Aroclor 1248	12672-29-6	ND	100	ug/kg	05/13/97
Aroclor 1254	11097-69-1	ND	100	ug/kg	05/13/97
Aroclor 1260	11096-82-5	ND	100	ug/kg	05/13/97
Priority Pollutant Metals					
Ag Silver	EPA 6010	0.2 *	0.1	mg/kg	05/12/97
As Arsenic	EPA 7060	3.2 *	0.5	mg/kg	05/09/97
Be Beryllium	EPA 6010	0.3 *	0.1	mg/kg	05/12/97
Cd Cadmium	EPA 6010	0.3 *	0.2	mg/kg	05/12/97
Cr Chromium	EPA 6010	22 *	0.5	mg/kg	05/12/97
Cu Copper	EPA 6010	24 *	0.5	mg/kg	05/12/97
Hg Mercury	EPA 7471	ND	0.06	mg/kg	05/08/97
Ni Nickel	EPA 6010	26 *	1	mg/kg	05/12/97
Pb Lead	EPA 6010	100 *	1	mg/kg	05/12/97
Sb Antimony	EPA 6010	ND	1	mg/kg	05/12/97
Se Selenium	EPA 7740	ND	1	mg/kg	05/09/97
Tl Thallium	EPA 7841	ND	1	mg/kg	05/10/97
Zn Zinc	EPA 6010	97 *	1	mg/kg	05/12/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-2
AEN LAB NO: 9705073-26
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	05/15/97
Toluene	108-88-3	ND	5	ug/kg	05/15/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/15/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/15/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	05/15/97
Total Phosphorus in Soil	EPA 365.2	1,200 *	5	mg/kg	05/15/97
#Extraction for TPH	EPA 3550	-		Extrn Date	05/12/97
TPH as Diesel	GC-FID	ND	10	mg/kg	05/13/97
Organo Lead in Soil	DOHS-LUFT	ND	1	mg/kg	05/16/97
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	05/08/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	05/08/97
#Soil Extrn for HCs	IR	-		Extrn Date	05/08/97
Hydrocarbons (IR)	EPA 418.1	390 *	10	mg/kg	05/09/97
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/12/97
Pesticides & PCBs	EPA 8080				
Aldrin	309-00-2	ND	20	ug/kg	05/13/97
alpha-BHC	319-84-6	ND	20	ug/kg	05/13/97
beta-BHC	319-85-7	ND	20	ug/kg	05/13/97
delta-BHC	319-86-8	ND	20	ug/kg	05/13/97
gamma-BHC (Lindane)	58-89-9	ND	20	ug/kg	05/13/97
Chlordane	57-74-9	ND	200	ug/kg	05/13/97
4,4'-DDD	72-54-8	ND	40	ug/kg	05/13/97
2,4'-DDD	53-19-0	ND	40	ug/kg	05/13/97
4,4'-DDE	72-55-9	ND	40	ug/kg	05/13/97
2,4'-DDE	3424-82-6	ND	40	ug/kg	05/13/97
4,4'-DDT	50-29-3	ND	40	ug/kg	05/13/97
2,4'-DDT	789-02-6	ND	40	ug/kg	05/13/97
Dieldrin	60-57-1	ND	40	ug/kg	05/13/97
Endosulfan I	959-98-8	ND	20	ug/kg	05/13/97
Endosulfan II	33212-65-9	ND	40	ug/kg	05/13/97
Endosulfan Sulfate	1031-07-8	ND	40	ug/kg	05/13/97

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-2
AEN LAB NO: 9705073-26
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Endrin	72-20-8	ND	40	ug/kg	05/13/97
Endrin Aldehyde	7421-93-4	ND	40	ug/kg	05/13/97
Heptachlor	76-44-8	ND	20	ug/kg	05/13/97
Heptachlor Epoxide	1024-57-3	ND	20	ug/kg	05/13/97
Methoxychlor	72-43-5	ND	40	ug/kg	05/13/97
Toxaphene	8001-35-2	ND	200	ug/kg	05/13/97
Aroclor 1016	12674-11-2	ND	200	ug/kg	05/13/97
Aroclor 1221	11104-28-2	ND	200	ug/kg	05/13/97
Aroclor 1232	11141-16-5	ND	200	ug/kg	05/13/97
Aroclor 1242	53469-21-9	ND	200	ug/kg	05/13/97
Aroclor 1248	12672-29-6	ND	200	ug/kg	05/13/97
Aroclor 1254	11097-69-1	ND	200	ug/kg	05/13/97
Aroclor 1260	11096-82-5	ND	200	ug/kg	05/13/97
Priority Pollutant Metals					
Ag Silver	EPA 6010	0.2 *	0.1	mg/kg	05/12/97
As Arsenic	EPA 7060	5.5 *	0.5	mg/kg	05/09/97
Be Beryllium	EPA 6010	0.3 *	0.1	mg/kg	05/12/97
Cd Cadmium	EPA 6010	2.0 *	0.2	mg/kg	05/12/97
Cr Chromium	EPA 6010	49 *	0.5	mg/kg	05/12/97
Cu Copper	EPA 6010	69 *	0.5	mg/kg	05/12/97
Hg Mercury	EPA 7471	0.16 *	0.06	mg/kg	05/08/97
Ni Nickel	EPA 6010	41 *	1	mg/kg	05/12/97
Pb Lead	EPA 6010	190 *	1	mg/kg	05/12/97
Sb Antimony	EPA 6010	ND	1	mg/kg	05/12/97
Se Selenium	EPA 7740	ND	1	mg/kg	05/09/97
Tl Thallium	EPA 7841	ND	1	mg/kg	05/10/97
Zn Zinc	EPA 6010	510 *	1	mg/kg	05/12/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-3
AEN LAB NO: 9705073-27
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	05/15/97
Toluene	108-88-3	ND	5	ug/kg	05/15/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/15/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/15/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	05/15/97
Total Phosphorus in Soil	EPA 365.2	580 *	5	mg/kg	05/15/97
#Extraction for TPH	EPA 3550	-		Extrn Date	05/12/97
TPH as Diesel	GC-FID	ND	2	mg/kg	05/13/97
Organo Lead in Soil	DOHS-LUFT	ND	1	mg/kg	05/16/97
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	05/08/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	05/08/97
#Soil Extrn for HCs	IR	-		Extrn Date	05/08/97
Hydrocarbons (IR)	EPA 418.1	30 *	10	mg/kg	05/09/97
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/12/97
Pesticides & PCBs	EPA 8080				
Aldrin	309-00-2	ND	5	ug/kg	05/13/97
alpha-BHC	319-84-6	ND	5	ug/kg	05/13/97
beta-BHC	319-85-7	ND	5	ug/kg	05/13/97
delta-BHC	319-86-8	ND	5	ug/kg	05/13/97
gamma-BHC (Lindane)	58-89-9	ND	5	ug/kg	05/13/97
Chlordane	57-74-9	ND	50	ug/kg	05/13/97
4,4'-DDD	72-54-8	ND	10	ug/kg	05/13/97
2,4'-DDD	53-19-0	ND	10	ug/kg	05/13/97
4,4'-DDE	72-55-9	ND	10	ug/kg	05/13/97
2,4'-DDE	3424-82-6	ND	10	ug/kg	05/13/97
4,4'-DDT	50-29-3	ND	10	ug/kg	05/13/97
2,4'-DDT	789-02-6	ND	10	ug/kg	05/13/97
Dieldrin	60-57-1	ND	10	ug/kg	05/13/97
Endosulfan I	959-98-8	ND	5	ug/kg	05/13/97
Endosulfan II	33212-65-9	ND	10	ug/kg	05/13/97
Endosulfan Sulfate	1031-07-8	ND	10	ug/kg	05/13/97

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-3
AEN LAB NO: 9705073-27
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Endrin	72-20-8	ND	10	ug/kg	05/13/97
Endrin Aldehyde	7421-93-4	ND	10	ug/kg	05/13/97
Heptachlor	76-44-8	ND	5	ug/kg	05/13/97
Heptachlor Epoxide	1024-57-3	ND	5	ug/kg	05/13/97
Methoxychlor	72-43-5	ND	10	ug/kg	05/13/97
Toxaphene	8001-35-2	ND	50	ug/kg	05/13/97
Aroclor 1016	12674-11-2	ND	50	ug/kg	05/13/97
Aroclor 1221	11104-28-2	ND	50	ug/kg	05/13/97
Aroclor 1232	11141-16-5	ND	50	ug/kg	05/13/97
Aroclor 1242	53469-21-9	ND	50	ug/kg	05/13/97
Aroclor 1248	12672-29-6	ND	50	ug/kg	05/13/97
Aroclor 1254	11097-69-1	ND	50	ug/kg	05/13/97
Aroclor 1260	11096-82-5	ND	50	ug/kg	05/13/97
Priority Pollutant Metals					
Ag Silver	EPA 6010	0.2 *	0.1	mg/kg	05/12/97
As Arsenic	EPA 7060	5.6 *	0.5	mg/kg	05/09/97
Be Beryllium	EPA 6010	0.4 *	0.1	mg/kg	05/12/97
Cd Cadmium	EPA 6010	ND	0.2	mg/kg	05/12/97
Cr Chromium	EPA 6010	24 *	0.5	mg/kg	05/12/97
Cu Copper	EPA 6010	18 *	0.5	mg/kg	05/12/97
Hg Mercury	EPA 7471	ND	0.06	mg/kg	05/08/97
Ni Nickel	EPA 6010	29 *	1	mg/kg	05/12/97
Pb Lead	EPA 6010	10 *	1	mg/kg	05/12/97
Sb Antimony	EPA 6010	ND	1	mg/kg	05/12/97
Se Selenium	EPA 7740	ND	1	mg/kg	05/09/97
Tl Thallium	EPA 7841	ND	1	mg/kg	05/10/97
Zn Zinc	EPA 6010	52 *	1	mg/kg	05/12/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-4
AEN LAB NO: 9705073-28
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	05/16/97
Toluene	108-88-3	ND	5	ug/kg	05/16/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/16/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/16/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	05/16/97
Methyl t-Butyl Ether	1634-04-4	ND	50	ug/kg	05/16/97
Total Phosphorus in Soil	EPA 365.2	900 *	5	mg/kg	05/15/97
#Extraction for TPH	EPA 3550	-		Extrn Date	05/12/97
TPH as Diesel	GC-FID	ND	2	mg/kg	05/13/97
Organo Lead in Soil	DOHS-LUFT	ND	1	mg/kg	05/16/97
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	05/08/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	05/08/97
#Soil Extrn for HCs	IR	-		Extrn Date	05/08/97
Hydrocarbons (IR)	EPA 418.1	130 *	10	mg/kg	05/09/97
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/12/97
Pesticides & PCBs	EPA 8080				
Aldrin	309-00-2	ND	20	ug/kg	05/13/97
alpha-BHC	319-84-6	ND	20	ug/kg	05/13/97
beta-BHC	319-85-7	ND	20	ug/kg	05/13/97
delta-BHC	319-86-8	ND	20	ug/kg	05/13/97
gamma-BHC (Lindane)	58-89-9	ND	20	ug/kg	05/13/97
Chlordane	57-74-9	ND	200	ug/kg	05/13/97
4,4'-DDD	72-54-8	ND	40	ug/kg	05/13/97
2,4'-DDD	53-19-0	ND	40	ug/kg	05/13/97
4,4'-DDE	72-55-9	ND	40	ug/kg	05/13/97
2,4'-DDE	3424-82-6	ND	40	ug/kg	05/13/97
4,4'-DDT	50-29-3	ND	40	ug/kg	05/13/97
2,4'-DDT	789-02-6	ND	40	ug/kg	05/13/97
Dieldrin	60-57-1	ND	40	ug/kg	05/13/97
Endosulfan I	959-98-8	ND	20	ug/kg	05/13/97
Endosulfan II	33212-65-9	ND	40	ug/kg	05/13/97

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-4
AEN LAB NO: 9705073-28
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Endosulfan Sulfate	1031-07-8	ND	40	ug/kg	05/13/97
Endrin	72-20-8	ND	40	ug/kg	05/13/97
Endrin Aldehyde	7421-93-4	ND	40	ug/kg	05/13/97
Heptachlor	76-44-8	ND	20	ug/kg	05/13/97
Heptachlor Epoxide	1024-57-3	ND	20	ug/kg	05/13/97
Methoxychlor	72-43-5	ND	40	ug/kg	05/13/97
Toxaphene	8001-35-2	ND	200	ug/kg	05/13/97
Aroclor 1016	12674-11-2	ND	200	ug/kg	05/13/97
Aroclor 1221	11104-28-2	ND	200	ug/kg	05/13/97
Aroclor 1232	11141-16-5	ND	200	ug/kg	05/13/97
Aroclor 1242	53469-21-9	ND	200	ug/kg	05/13/97
Aroclor 1248	12672-29-6	ND	200	ug/kg	05/13/97
Aroclor 1254	11097-69-1	ND	200	ug/kg	05/13/97
Aroclor 1260	11096-82-5	ND	200	ug/kg	05/13/97
Priority Pollutant Metals					
Ag Silver	EPA 6010	0.1 *	0.1	mg/kg	05/12/97
As Arsenic	EPA 7060	4.4 *	0.5	mg/kg	05/09/97
Be Beryllium	EPA 6010	0.2 *	0.1	mg/kg	05/12/97
Cd Cadmium	EPA 6010	0.4 *	0.2	mg/kg	05/12/97
Cr Chromium	EPA 6010	22 *	0.5	mg/kg	05/12/97
Cu Copper	EPA 6010	19 *	0.5	mg/kg	05/12/97
Hg Mercury	EPA 7471	ND	0.06	mg/kg	05/08/97
Ni Nickel	EPA 6010	25 *	1	mg/kg	05/12/97
Pb Lead	EPA 6010	100 *	1	mg/kg	05/12/97
Sb Antimony	EPA 6010	ND	1	mg/kg	05/12/97
Se Selenium	EPA 7740	ND	1	mg/kg	05/09/97
Tl Thallium	EPA 7841	ND	1	mg/kg	05/10/97
Zn Zinc	EPA 6010	120 *	1	mg/kg	05/12/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-5
AEN LAB NO: 9705073-29
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	5	ug/kg	05/15/97
Toluene	108-88-3	ND	5	ug/kg	05/15/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/15/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/15/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.2	mg/kg	05/15/97
Total Phosphorus in Soil	EPA 365.2	1,100 *	5	mg/kg	05/15/97
#Extraction for TPH	EPA 3550	-		Extrn Date	05/12/97
TPH as Diesel	GC-FID	ND	10	mg/kg	05/14/97
Organo Lead in Soil	DOHS-LUFT	ND	1	mg/kg	05/16/97
#Digestion, Metals by GFAA	EPA 3050	-		Prep Date	05/08/97
#Digestion, Metals AA/ICP	EPA 3050	-		Prep Date	05/08/97
#Soil Extrn for HCs	IR	-		Extrn Date	05/08/97
Hydrocarbons (IR)	EPA 418.1	540 *	10	mg/kg	05/09/97
#Extraction for Pest/PCBs	EPA 3550	-		Extrn Date	05/12/97
Pesticides & PCBs	EPA 8080				
Aldrin	309-00-2	ND	20	ug/kg	05/13/97
alpha-BHC	319-84-6	ND	20	ug/kg	05/13/97
beta-BHC	319-85-7	ND	20	ug/kg	05/13/97
delta-BHC	319-86-8	ND	20	ug/kg	05/13/97
gamma-BHC (Lindane)	58-89-9	ND	20	ug/kg	05/13/97
Chlordane	57-74-9	ND	200	ug/kg	05/13/97
4,4'-DDD	72-54-8	ND	40	ug/kg	05/13/97
2,4'-DDD	53-19-0	ND	40	ug/kg	05/13/97
4,4'-DDE	72-55-9	ND	40	ug/kg	05/13/97
2,4'-DDE	3424-82-6	ND	40	ug/kg	05/13/97
4,4'-DDT	50-29-3	ND	40	ug/kg	05/13/97
2,4'-DDT	789-02-6	ND	40	ug/kg	05/13/97
Dieldrin	60-57-1	ND	40	ug/kg	05/13/97
Endosulfan I	959-98-8	ND	20	ug/kg	05/13/97
Endosulfan II	33212-65-9	ND	40	ug/kg	05/13/97
Endosulfan Sulfate	1031-07-8	ND	40	ug/kg	05/13/97

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: C-5
AEN LAB NO: 9705073-29
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Endrin	72-20-8	ND	40	ug/kg	05/13/97
Endrin Aldehyde	7421-93-4	ND	40	ug/kg	05/13/97
Heptachlor	76-44-8	ND	20	ug/kg	05/13/97
Heptachlor Epoxide	1024-57-3	ND	20	ug/kg	05/13/97
Methoxychlor	72-43-5	ND	40	ug/kg	05/13/97
Toxaphene	8001-35-2	ND	200	ug/kg	05/13/97
Aroclor 1016	12674-11-2	ND	200	ug/kg	05/13/97
Aroclor 1221	11104-28-2	ND	200	ug/kg	05/13/97
Aroclor 1232	11141-16-5	ND	200	ug/kg	05/13/97
Aroclor 1242	53469-21-9	ND	200	ug/kg	05/13/97
Aroclor 1248	12672-29-6	ND	200	ug/kg	05/13/97
Aroclor 1254	11097-69-1	ND	200	ug/kg	05/13/97
Aroclor 1260	11096-82-5	ND	200	ug/kg	05/13/97
Priority Pollutant Metals					
Ag Silver	EPA 6010	0.2 *	0.1	mg/kg	05/12/97
As Arsenic	EPA 7060	2.9 *	0.5	mg/kg	05/09/97
Be Beryllium	EPA 6010	0.4 *	0.1	mg/kg	05/12/97
Cd Cadmium	EPA 6010	0.2 *	0.2	mg/kg	05/12/97
Cr Chromium	EPA 6010	27 *	0.5	mg/kg	05/12/97
Cu Copper	EPA 6010	20 *	0.5	mg/kg	05/12/97
Hg Mercury	EPA 7471	0.07 *	0.06	mg/kg	05/08/97
Ni Nickel	EPA 6010	35 *	1	mg/kg	05/12/97
Pb Lead	EPA 6010	780 *	1	mg/kg	05/12/97
Sb Antimony	EPA 6010	ND	1	mg/kg	05/12/97
Se Selenium	EPA 7740	ND	1	mg/kg	05/09/97
Tl Thallium	EPA 7841	ND	1	mg/kg	05/10/97
Zn Zinc	EPA 6010	75 *	1	mg/kg	05/12/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: S-1
AEN LAB NO: 9705073-30
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	300	ug/kg	05/20/97
Toluene	108-88-3	ND	300	ug/kg	05/20/97
Ethylbenzene	100-41-4	ND	300	ug/kg	05/20/97
Xylenes, Total	1330-20-7	ND	300	ug/kg	05/20/97
Purgeable HCs as Gasoline	5030/GCFID	29 *	10	mg/kg	05/20/97
#Extraction for TPH	**EPA 3550**	-		Extrn Date	05/12/97
TPH as Diesel	**GC-FID**	35,000 *	200	mg/kg	05/14/97
Organo Lead in Soil	**DOHS-LUFT**	ND	1	mg/kg	05/16/97

See page 31 for comments pertaining to this sample.

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: S-2
AEN LAB NO: 9705073-31
AEN WORK ORDER: 9705073
CLIENT PROJ. ID: 8450.900

DATE SAMPLED: 05/06/97
DATE RECEIVED: 05/07/97
REPORT DATE: 06/12/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	5	ug/kg	05/15/97
Toluene	108-88-3	ND	5	ug/kg	05/15/97
Ethylbenzene	100-41-4	ND	5	ug/kg	05/15/97
Xylenes, Total	1330-20-7	ND	5	ug/kg	05/15/97
Purgeable HCs as Gasoline	5030/GCFID	1.2 *	0.2	mg/kg	05/15/97
#Extraction for TPH	**EPA 3550**	-		Extrn Date	05/12/97
TPH as Diesel	**GC-FID**	7,800 *	100	mg/kg	05/14/97
Organo Lead in Soil	**DOHS-LUFT**	ND	1	mg/kg	05/16/97

RL elevated for diesel due to high level of target compound. Sample run dilute.

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9705073

CLIENT PROJECT ID: 8450.900

Quality Control Summary

Samples C-1, C-2, C-3, C-4 and C-5: Reporting limits elevated for EPA 8080 due to high levels of non-target compounds. Sample(s) run dilute. Reporting limit elevated for diesel due to insufficient sample amount.

Samples C-1, S-1 and S-2: Reporting limit elevated for diesel due to high level of target compound. Sample(s) run dilute.

Samples C-2 and C-5: Reporting limit elevated for diesel due to high levels of non-target compounds. Sample(s) run dilute.

Sample S-1: Due to an apparent matrix effect, it was necessary to dilute sample to achieve adequate surrogate recoveries for gasoline/BTEX analysis. Reporting limits have been adjusted accordingly.

All other 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.

QUALITY CONTROL DATA

METHOD: EPA 418.1

AEN JOB NO: 9705073
DATE EXTRACTED: 05/08/97
DATE ANALYZED: 05/09/97
SAMPLE SPIKED: LCS
INSTRUMENT: IR
MATRIX: SOIL

Laboratory Control Sample Summary

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits Percent Recovery
Oil	250	100	74-115

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9705073
DATE(S) EXTRACTED: 05/12/97; 05/27/97
INSTRUMENT: A
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
05/28/97	R-1	01	69
05/29/97	R-2	02	68
05/29/97	R-3	03	59
05/29/97	R-4	04	75
05/29/97	R-5	05	69
05/29/97	R-6	06	D
05/14/97	C-1	25	71
05/13/97	C-2	26	106
05/13/97	C-3	27	96
05/13/97	C-4	28	99
05/14/97	C-5	29	99
05/14/97	S-1	30	D
05/14/97	S-2	31	D
QC Limits:			55-115

D: Surrogates diluted out.

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9705073
DATE EXTRACTED: 05/09/97
DATE ANALYZED: 05/11/97
SAMPLE SPIKED: 9705064-01
INSTRUMENT: C
MATRIX: SOIL

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	40.0	102	1	50-115	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9705073
INSTRUMENT: E, H
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
05/15/97	C-1	25	121
05/15/97	C-2	26	137
05/15/97	C-3	27	110
05/16/97	C-4	28	107
05/15/97	C-5	29	118
05/20/97	S-1	30	103
05/15/97	S-2	31	117
QC Limits:			70-130

DATE ANALYZED: 05/15/97
SAMPLE SPIKED: LCS
INSTRUMENT: E

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	18.2	105	3	60-120	20
Toluene	61.0	111	<1	60-120	20
Hydrocarbons as Gasoline	500	111	<1	60-120	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 8080

AEN JOB NO: 9705073
DATE EXTRACTED: 05/12/97
INSTRUMENT: B
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2,4,5,6-Tetrachloro-meta-xylene
05/13/97	C-1	25	75
05/13/97	C-2	26	85
05/13/97	C-3	27	89
05/13/97	C-4	28	89
05/13/97	C-5	29	86
QC Limits:			72-119

DATE EXTRACTED: 05/12/97
DATE ANALYZED: 05/12/97
SAMPLE SPIKED: LCS
INSTRUMENT: B

Laboratory Control Sample Summary

Analyte	Spike Added (mg/kg)	Percent Recovery	QC Limits Percent Recovery
Lindane	13.2	104	74-114
Heptachlor	13.9	105	74-115
Aldrin	13.2	107	71-112
Dieldrin	31.0	112	75-114
Endrin	27.5	114	75-114
4.4'-DDT	33.1	94	75-115

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9705073
SAMPLE SPIKED: SAND
DATE(S) ANALYZED: 05/08-06/03/97
MATRIX: SOIL

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/kg)	Spike Added (mg/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Ag, Silver	ICP/6010	ND	5.00	99	<1	60-120	10
As, Arsenic	4000/7060	ND	10.0	97	1	77-141	15
Be, Beryllium	ICP/6010	ND	5.00	95	1	80-110	10
Cd, Cadmium	ICP/6010	ND	5.00	95	1	87-110	10
Cr, Chromium	ICP/6010	ND	50.0	95	<1	87-110	10
Cu, Copper	ICP/6010	ND	50.0	98	1	85-113	10
Hg, Mercury	Hg/7471	ND	0.400	86	6	79-118	15
Ni, Nickel	ICP/6010	ND	50.0	97	<1	90-120	10
Pb, Lead	ICP/6010	ND	50.0	97	1	90-120	10
Pb, Lead	V12/7420	ND	50.0	104	1	80-119	10
Sb, Antimony	ICP/6010	ND	50.0	87	1	66-114	10
Se, Selenium	4000/7740	ND	20.0	86	2	70-127	13
Tl, Thallium	4000/7841	ND	10.0	92	1	75-125	20
Zn, Zinc	ICP/6010	ND	50.0	90	1	83-111	10
Phosphorus	NOVASPEC/365.2	ND	50.0	101	1	75-125	15
Organo Lead	V12/DOHS-LUFT	ND	5.0	96	3	75-125	20

*** END OF REPORT ***

American Environmental Network (Arizona), Inc.

AEN I.D. 705134

May 19, 1997

American Environmental Network-CA
3440 Vincent Road
Pleasant Hill, CA 94523

Project Name/Number: 8450.900

Attention: Bill Svoboda

On 05/09/97/97, American Environmental Network (Arizona), Inc., received a request to analyze soil sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

D indicates the compound was analyzed at a greater dilution.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jmf

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

American Environmental Network (Arizona), Inc.

CLIENT : AMERICAN ENVIRONMENTAL NETWORK-CA DATE RECEIVED : 05/09/97
PROJECT # : 8450.900
PROJECT NAME : (NONE) REPORT DATE : 05/19/97
ATI I.D. : 705134

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	C-1	SOIL	05/06/97
02	C-2	SOIL	05/06/97
03	C-3	SOIL	05/06/97
04	C-4	SOIL	05/06/97
05	C-5	SOIL	05/06/97

----- TOTALS -----

MATRIX	# SAMPLES
SOIL	5

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70513401

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	DATE SAMPLED	: 05/06/97
PROJECT #	: 8450.900	DATE RECEIVED	: 05/09/97
PROJECT NAME	: (NONE)	DATE EXTRACTED	: 05/12/97
CLIENT I.D.	: C-1	DATE ANALYZED	: 05/15/97
SAMPLE MATRIX	: SOIL	UNITS	: MG/KG
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4-D	<0.08
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08

SURROGATE PERCENT RECOVERIES

DCAA (%)	89

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70513402

TEST : **CHLORINATED HERBICIDES** (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	DATE SAMPLED	: 05/06/97
PROJECT #	: 8450.900	DATE RECEIVED	: 05/09/97
PROJECT NAME	: (NONE)	DATE EXTRACTED	: 05/12/97
CLIENT I.D.	: C-2	DATE ANALYZED	: 05/15/97
SAMPLE MATRIX	: SOIL	UNITS	: MG/KG
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4-D	**0.4 D**
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08

SURROGATE PERCENT RECOVERIES

DCAA (%)	100

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70513403

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	DATE SAMPLED	: 05/06/97
PROJECT #	: 8450.900	DATE RECEIVED	: 05/09/97
PROJECT NAME	: (NONE)	DATE EXTRACTED	: 05/12/97
CLIENT I.D.	: C-3	DATE ANALYZED	: 05/15/97
SAMPLE MATRIX	: SOIL	UNITS	: MG/KG
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4-D	<0.08
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08
SURROGATE PERCENT RECOVERIES	
DCAA (%)	90

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70513404

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	DATE SAMPLED	: 05/06/97
PROJECT #	: 8450.900	DATE RECEIVED	: 05/09/97
PROJECT NAME	: (NONE)	DATE EXTRACTED	: 05/12/97
CLIENT I.D.	: C-4	DATE ANALYZED	: 05/15/97
SAMPLE MATRIX	: SOIL	UNITS	: MG/KG
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4-D	1.8 D
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08

SURROGATE PERCENT RECOVERIES

DCAA (%)	96

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 70513405

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	DATE SAMPLED	: 05/06/97
PROJECT #	: 8450.900	DATE RECEIVED	: 05/09/97
PROJECT NAME	: (NONE)	DATE EXTRACTED	: 05/12/97
CLIENT I.D.	: C-5	DATE ANALYZED	: 05/15/97
SAMPLE MATRIX	: SOIL	UNITS	: MG/KG
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4-D	<0.08
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08

SURROGATE PERCENT RECOVERIES

DCAA (%)	92

American Environmental Network (Arizona), Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT	: AMERICAN ENVIRONMENTAL NETWORK-CA	ATI I.D.	: 705134
PROJECT #	: 8450.900	DATE EXTRACTED	: 05/12/97
PROJECT NAME	: (NONE)	DATE ANALYZED	: 05/14/97
CLIENT I.D.	: REAGENT BLANK	UNITS	: MG/KG
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
2,4-D	<0.08
2,4,5-TP (SILVEX)	<0.08
2,4,5-T	<0.08
DINOSEB	<0.08
2,4-DB	<0.08
DICAMBA	<0.08

SURROGATE PERCENT RECOVERIES

DCAA (%)	112

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 705134

TEST : CHLORINATED HERBICIDES (EPA METHOD 8150)

CLIENT : AMERICAN ENVIRONMENTAL NETWORK-CA
PROJECT # : 8450.900
PROJECT NAME : (NONE)
REF I.D. : 70599930

DATE ANALYZED : 05/14/97
SAMPLE MATRIX : NON-AQUEOUS
UNITS : MG/KG

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
2,4-D	<0.08	0.10	0.10	100	0.10	100	0
SILVEX	<0.08	0.10	0.09	90	0.09	90	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

1. Client: AENCA
Add[redacted]
Contact: Bill Svoboda
Alt. Contact: Robin Bylars

American Environmental Network AEN
[redacted]40 V[redacted] Roa[redacted]sant [redacted]A 94[redacted]
Phone (510) 930-9090
FAX (510) 930-0256

Page 1 of 1

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

705134

Lab Job Number:
Lab Destination: AENAZ
Date Samples Shipped: 5-8-97
Lab Contact:
Date Results Required: 5-16-97
Date Report Required: 5-22-97
Client Phone No.:
Client FAX No.:

Address Report To:
2. #1

Send Invoice To:
3. #1

Send Report To: (1) or 2 (Circle one)

Client P.O. No.: 9705073 Client Project I.D. No.: 8450.900

Sample Team Member (s) ——

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	8150	Comments / Hazards
1	C-1		5/6/97	8	COLD	1	JAR	X	Include PO # and project I.D. on report and invoice
2	C-2								
3	C-3								FAX results
4	C-4								
5	C-5								

Relinquished by: (Signature) Gina Gillespie	DATE 5-8-97	TIME 1500	Received by: (Signature) [illegible] 5/9/97 DATE 900 TIME
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature) DATE TIME
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature) DATE TIME
Method of Shipment			Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

APPENDIX B2

AEN Analytical Testing Report
Dated June 20, 1997

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

BERLOGAR GEOTECH. CONSULTANTS
5587 SUNOL BOULEVARD
PLEASANTON, CA 94566

ATTN: TED BAYHAM
CLIENT PROJ. ID: -

REPORT DATE: 06/20/97
DATE(S) SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
AEN WORK ORDER: 9706101

PROJECT SUMMARY:

On June 9, 1997, this laboratory received 12 soil sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). 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.

Larry Klein
Laboratory Director

American Environmental Network, Inc.
11 East Olive Road • Pensacola, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by: Linda Lofton
AEN Project Manager

Client:	AMERICAN ENVIRONMENTAL NETWORK (CA), INC. PLEASANT HILL, CALIFORNIA
Project Name:	8450.900
Project Number:	9705073
Project Location:	N/S
Accession Number:	705167
Project Manager:	BILL SVOBODA
Sampled By:	N/S

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Analysis Report

Analysis: Group of Single Wetchem

Accession:	705167
Client:	AMERICAN ENVIRONMENTAL NETWORK (CA), INC.
Project Number:	9705073
Project Name:	8450.900
Project Location:	N/S
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 705167
Client: AMERICAN ENVIRONMENTAL NETWORK (CA), INC.
Project Number: 9705073
Project Name: 8450.900
Project Location: N/S
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: C-1			Lab ID: 001		
CYANIDE, (9010)	MG/KG	ND	0.25	CNS007	
Comments:					
Client ID: C-2			Lab ID: 002		
CYANIDE, (9010)	MG/KG	ND	0.25	CNS007	
Comments:					
Client ID: C-3			Lab ID: 003		
CYANIDE, (9010)	MG/KG	ND	0.25	CNS007	
Comments:					
Client ID: C-4			Lab ID: 004		
CYANIDE, (9010)	MG/KG	ND	0.25	CNS007	
Comments:					
Client ID: C-5			Lab ID: 005		
CYANIDE, (9010)	MG/KG	ND	0.25	CNS007	
Comments:					

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 705167
Client: AMERICAN ENVIRONMENTAL NETWORK (CA), INC.
Project Number: 9705073
Project Name: 8450.900
Project Location: N/S
Test: Group of Single Wetchem

Client ID:	Lab ID:	Matrix:	Date/Time Sampled:	Date Received:
C-1	001	SOIL	06-MAY-97 N/S	09-MAY-97
C-2	002	SOIL	06-MAY-97 N/S	09-MAY-97
C-3	003	SOIL	06-MAY-97 N/S	09-MAY-97
C-4	004	SOIL	06-MAY-97 N/S	09-MAY-97
C-5	005	SOIL	06-MAY-97 N/S	09-MAY-97

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	705167
Client:	AMERICAN ENVIRONMENTAL NETWORK (CA), INC.
Project Number:	9705073
Project Name:	8450.900
Project Location:	N/S
Department:	WET CHEM

AMERICAN ENVIRONMENTAL NETWORK 11 East Olive Road Pensacola, Florida 32514 (904) 474-1001

"WetChem Quality Control Report"

Parameter:	CYANIDE
Batch Id:	CNS007
Blank Result:	<0.25
Anal. Method:	9010
Prep. Method:	N/A
Analysis Date:	16-MAY-97
Prep. Date:	15-MAY-97

Sample Duplication

Sample Dup:	705167-1
Rept Limit:	<0.25
Sample Result:	<0.25
Dup Result:	<0.25
Sample RPD:	N/C
Max RPD:	0.25
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	705167-1
Rept Limit:	<0.25
Sample Result:	<0.25
Spiked Result:	8.84
Spike Added:	10.00
% Recovery:	88
% Rec Limits:	38-146
Dry Weight%	N/A

ICV

ICV Result:	0.322
True Result:	0.354
% Recovery:	91
% Rec Limits:	90-110

LCS

LCS Result:	0.612
True Result:	0.684
% Recovery:	89
% Rec Limits:	60-127

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
# = ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE. (DILUTION PRIOR TO ANALYSIS)
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX. (DILUTION PRIOR TO DIGESTION)
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL". SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES, EPA600/R-93/100, AUGUST 1993
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBILOGICAL PROPERTIES, 2ND EDITION.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG	RB = REBECCA BROWN	AB = ANDY BROTHERTON
JL = JAN LECLEAR	NSB = NANCY S. BUTLER	MM = MIKE MCKENZIE
ED = ESTHER DANTIN	LV = LASSANDRA VON APPEN	JTZ = JONATHAN T. ZIENTARSKI
PLD = PAULA L. DOUGHTY	RH = RICKY HAGENDORFER	

American Environmental Network of Florida
PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 205167 Date Received: 5/9/97

1. Was there a Chain of Custody? **Yes** No*
2. Was Chain of Custody properly filled out and relinquished? **Yes** No*
3. Were samples received cold? (Criteria: 1° - 4°C: AEN-SOP 1055) **Yes** No* N/A
4. Were all samples properly labeled and identified? **Yes** No*
5. Did samples require splitting? Yes* **No** Req By: PM Client Other*
6. Were samples received in proper containers for analysis requested? **Yes** No*
7. Were all sample containers received intact? **Yes** No*
8. Were samples checked for preservative? *(Check pH of all H_2O requiring preservative except VOA vials that require zero headspace)*+ Yes No* **N/A**
9. Is there sufficient volume for analysis requested? **Yes** No*
10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) **Yes** No*
11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* No **N/A**
12. If sent, were matrix spike bottles returned? Yes No* **N/A**
13. Was Project Manager notified of problems? (initials:_______) Yes No* **N/A**

Airbill Number(s): 847609311 3 Shipped By: DHL

Cooler Number(s): Client Shipping Charges: N/A

Cooler Weight(s): N/A Cooler Temp(s) (°C): CC15 = 4°C

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIF FOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: SF Date: 5/10/97 Logged By: SF Date: 5/10/97

* *Note all Out-of-Control and/or questionable events on Comment Section of this form.*

♦ *Note who requested the splitting of samples on the Comment Section of this form.*

\+ *All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).*

* *According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).*

WORD\ELKINS\SAMPCTRL\PSIF.DOC FEBRUARY 24, 1997

Reporting Information:

1. Client: AENCA
Address:
Contact: Bill Svoboda
Alt. Contact: Robin Byars

American Environmental Network
5440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN 05167 R 1 of 1

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number:
Lab Destination: AENFL
Date Samples Shipped: 5-8-97
Lab Contact:
Date Results Required: 5-16-97
Date Report Required: 5-22-97
Client Phone No.:
Client FAX No.:

Address Report To:
2. #1

Send Invoice To:
3. #1

Send Report To: (1) or 2 (Circle one)

Client P.O. No.: 9705073 Client Project I.D. No.: 8450.900

Sample Team Member (s)

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS: Cyanide	Comments / Hazards
	C-1		5/6/97	8	COLD	1	JAR	X	Include PO # and project ID on report and invoice
	C-2		↓	↓	↓	↓	↓	↓	
	C-3								FAX results
	C-4								
	C-5								

Relinquished by: (Signature)	Gina Gillespie	DATE 5-8-97	TIME 1500	Received by: (Signature)	Suzanne R. Fox 5
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)	
Relinquished by: (Signature)		DATE	TIME	Received by: (Signature)	
Method of Shipment				Lab Comments	

DATE 5/9/97 TIME 1150

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-1/2'
AEN LAB NO: 9706101-01
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	14 *	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-1/4'
AEN LAB NO: 9706101-02
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	9 *	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-2/2'
AEN LAB NO: 9706101-03
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	ND	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-2/4'
AEN LAB NO: 9706101-04
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	ND	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-3/2'
AEN LAB NO: 9706101-05
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	ND	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-3/4'
AEN LAB NO: 9706101-06
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn Date	06/13/97
TPH as Diesel	GC-FID	ND	1	mg/kg	06/15/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-4/2'
AEN LAB NO: 9706101-07
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	9 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-4/4'
AEN LAB NO: 9706101-08
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	12 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-5/0'-1/2'
AEN LAB NO: 9706101-09
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	860 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-6/0'-1/2'
AEN LAB NO: 9706101-10
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	26 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-7/0'-1/2'
AEN LAB NO: 9706101-11
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	13 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

BERLOGAR GEOTECH. CONSULTANTS

SAMPLE ID: TP-8/0'-1/2'
AEN LAB NO: 9706101-12
AEN WORK ORDER: 9706101
CLIENT PROJ. ID: -

DATE SAMPLED: 06/09/97
DATE RECEIVED: 06/09/97
REPORT DATE: 06/20/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Lead	EPA 7420	15 *	3	mg/kg	06/14/97
#Digestion for ICP/AA	EPA 3050	-		Prep Date	06/13/97

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9706101

CLIENT PROJECT ID: -

Quality Control 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.

QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9706101
DATE EXTRACTED: 06/13/97
INSTRUMENT: A
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
06/15/97	TP-1/2'	01	92
06/15/97	TP-1/4'	02	89
06/15/97	TP-2/2'	03	86
06/15/97	TP-2/4'	04	86
06/15/97	TP-3/2'	05	76
06/15/97	TP-3/4'	06	88
QC Limits:			55-115

DATE EXTRACTED: 06/13/97
DATE ANALYZED: 06/14/97
SAMPLE SPIKED: 9706101-06
INSTRUMENT: A

Matrix Spike Recovery Summary

Analyte	Spike Added (mg/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Diesel	40.0	90	4	50-115	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

QUALITY CONTROL DATA

AEN JOB NO: 9706101
SAMPLE SPIKED: SAND
DATE(S) ANALYZED: 06/14/97
MATRIX: SOIL

Method Blank and Spike Recovery Summary

Analyte	Inst./ Method	Blank Result (mg/kg)	Spike Added (mg/kg)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Pb, Lead	V12/7420	ND	50	104	1	80-119	10

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

Reporting Information:

[redacted]

1. Client: Berlitz [illegible]
Address: 5787 [illegible]
Pleasanton, CA 94566
Contact: Ted [illegible]
Alt. Contact: [illegible]

American Environmental Network
3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN

Page [redacted] of [redacted]

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9706101
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.:
Client FAX No.:

Address Report To:
2. Same

Send Invoice To:
3. Same

Send Report To: (1) or 2 (Circle one)

Client P.O. No.: Client Project I.D. No.:

Sample Team Member (s) Ron

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	DIESEL	LEAD									Comments / Hazards
01A	TP-1 / 2'		8:00	Jar	-	1	Jar	✓										
02A	TP-1 / 4'		6997/8:15	Jar	-	1	Jar	✓										
03A	TP-2 / 2'		6997/8:30	Jar	-	1	Jar	✓										
04A	TP-2 / 4'		6997/8:45	Jar	-	1	Jar	✓										
05A	TP-3 / 2'		6997/9:00	Jar	-	1	Jar	✓										
06A	TP-3 / 4'		6997/9:15	Jar	-	1	Jar	✓										
07A	TP-4 / 2'		6997/9:30	Jar	-	1	Jar		✓									
08A	TP-4 / 4'		6997/9:45	Jar	-	1	Jar		✓									
09A	TP-5 / 0'-1/2'		6997/10:00	Jar	-	1	Jar		✓									
10A	TP-6 / 0'-1/2'		6997/10:15	Jar	-	1	Jar		✓									
11A	TP-7 / 0'-1/2'		6997/10:30	Jar	-	1	Jar		✓									
12A	TP-8 / 0'-1/2'		6997/10:45	Jar	-	1	Jar		✓									

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	6.9.97	11:45 am			
[signature]	6/9/97	16:15	[signature]	6/9/97	1615
[signature]	6/9/97	1655	[signature]	6/9/97	17:45

Method of Shipment

Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT