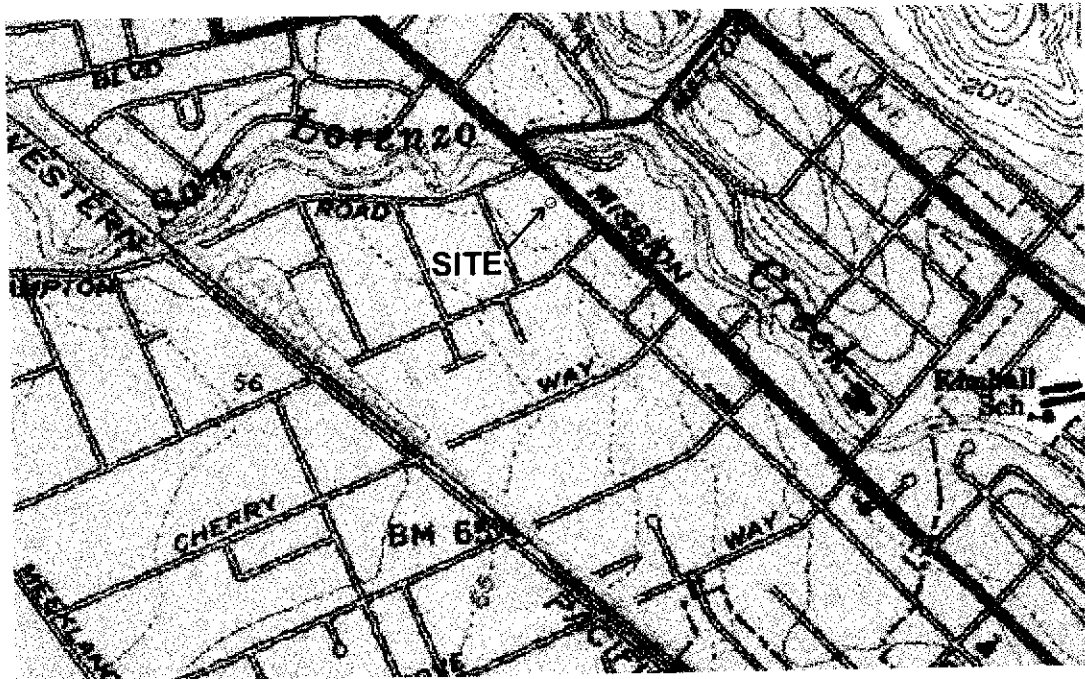




Sigma Prime Geosciences, Inc.
Effective Solutions

**SOIL ANALYTICAL STUDY
SITE CLOSURE REPORT**

**20535 MISSION BOULEVARD
HAYWARD, CALIFORNIA**



**PREPARED FOR:
MR. VICTOR SEETO
1443 HYDE STREET
SAN FRANCISCO, CALIFORNIA 94109**

**PREPARED BY:
SIGMA PRIME GEOSCIENCES, INC.
625-D PURISSIMA STREET
HALF MOON BAY, CALIFORNIA 94019**

April, 2001



Sigma Prime Geosciences, Inc.

April 6, 2001

APR 13 2001

Alameda County Health Agency
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Attention: Mr. Lawrence Seto

Subject: Request for closure for Property Located at 20535 Mission Boulevard,
Hayward, California.

Dear Mr. Seto:

Mr. Victor Seeto, owner of the subject property, contracted Sigma Prime Geosciences Incorporated to respond to the Clean Up Order from the Alameda County Health Agency originally dated August 2, 1996. A Work Plan dated January 26, 2001 was prepared, submitted and approved by your office. This report presents our findings from the investigation as outlined in the Work Plan.

Background

Soil contamination consists of waste oil from automotive maintenance. Drums of waste oil were stored in a shed located adjacent to the main building housing the automotive service business. A service was utilized to properly dispose of the waste oil. The soil contamination was caused by spillage and generally bad management practices for waste oil. The shed rested directly upon the soil. Impacted soil had been excavated and stockpiled. Sigma Prime Geosciences transferred the soil into 12 drums, characterized the soil, then manifested and disposed of it accordingly.

Field Procedures

Approximately four inches of soil has been removed from inside the shed. The soil was removed in preparation for a concrete slab to be poured in place. The stockpiles were transferred into 12 drums. Twelve grab samples were taken during the transfer, one from each drum. Four soil samples were taken within the shed (see attached figure). At the sampling locations, the top two to three inches of soil was removed with a shovel then sampled with a slide hammer equipped with a 6" stainless steel hollow drive head with a brass liner. Upon retrieval of the sample, the liner containing the soil sample was removed, capped, labeled and promptly stored on ice for delivery to North State Environmental laboratory, a State of California certified laboratory, under proper chain of custody.

Samples were field screened with a Photo-Ionization Detector (PID) that showed no elevated levels of volatile compounds. All sampling equipment was thoroughly cleaned with an Alconox® solution and thoroughly rinsed, prior to each sample collection.



L. Seto
April 6, 2001

Laboratory Analyses and Results

One composite sample was created from the grab samples taken from the drums. Comp-1 was analyzed for: Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil by method 8015M; Benzene, Toluene, Ethelbenzene and Xylenes (BTEX); Methyl Tertiary-Butyl Ether (MTBE) by method 8020; Volatile Organic Compounds (VOC's) by method 8260; Semi-Volatile Organic Compounds (SVOC's) by method 8270; Total Oil and Grease by method EPA 5520 E&F and CAM-17 Metals.

The analyses of ~~Comp-1~~ showed levels of TPH as gasoline at 0.55 milligrams per kilogram (mg/kg); Total Oil and Grease at 1500 mg/kg; TPH as diesel at 26 mg/kg and TPH as motor oil at 620 mg/kg. Some anomalous Semi-Volatile Organics were detected slightly higher than the detection limit and should not be of any concern. Results for the Cam-17 metals analyses showed levels normal to background except for ~~lead showing a result of 200 mg/kg~~.

Background or naturally occurring levels of lead in soil does not usually exceed 50 mg/kg. According to the California Department of Toxic Substance Control (DTSC) the state does not have a specific "action level". Federal Environmental Protection Agency (EPA) designates a level of 400 mg/kg lead in soil as an action level for direct exposure for children, for example, soil in and around a playground. Although the potential levels of lead in the soil is below any action level for remediation a Toxicity Characteristic Leaching Procedure (TCLP) was necessary to allow disposal of the soil in a class III landfill. The TCLP lead result was non-detect. The concentration levels of TPH and Oil and Grease were at acceptable levels for disposal in a class III landfill. The soil drums were taken to Filter Recycling Services, Incorporated located in Bloomington, California on April 5, 2001 for disposal. The manifest is attached.

Those contaminants of significant quantities found in sample Comp-1 were used as a profile for analyzing potential contamination of soil in the shed area. ~~Four soil samples SB-1 through SB-4~~ were analyzed for TPH as gasoline, diesel and motor oil by method 8015M; Benzene, Toluene, Ethelbenzene and Xylenes (BTEX) by method 8020; and Total Oil and Grease by method EPA 5520 E&F. Analytical results showed non-detectable levels of all compounds except in sample SB-2 with a Toluene result of 0.009 mg/kg.

Conclusion

Soil samples SB-1 through SB-4 were taken in the shed area where the waste oil release was reported. Approximately three yards of soil was originally excavated and subsequently transferred to drums for disposal. Analytical results show the waste oil contamination was confined to the uppermost soil horizon. The soil in the area of samples is a silty clay having low permeability. The nature of the release reported to be spillage from transferring oil to drums would not constitute a large release that our results support. We recommend no further action is necessary.



L. Seto
April 6, 2001

Sigma Prime Geosciences, Incorporated on behalf of Victor Seeto, property owner, requests the Alameda County Health Agency, Division of Environmental Protection, Department of Environmental Health, grant closure for this site with supporting documentation from your office.

If you have any questions about this report, please call me at (650) 726-7198.

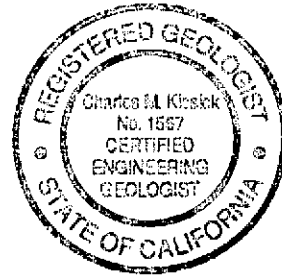
Yours,
Sigma Prime Geosciences

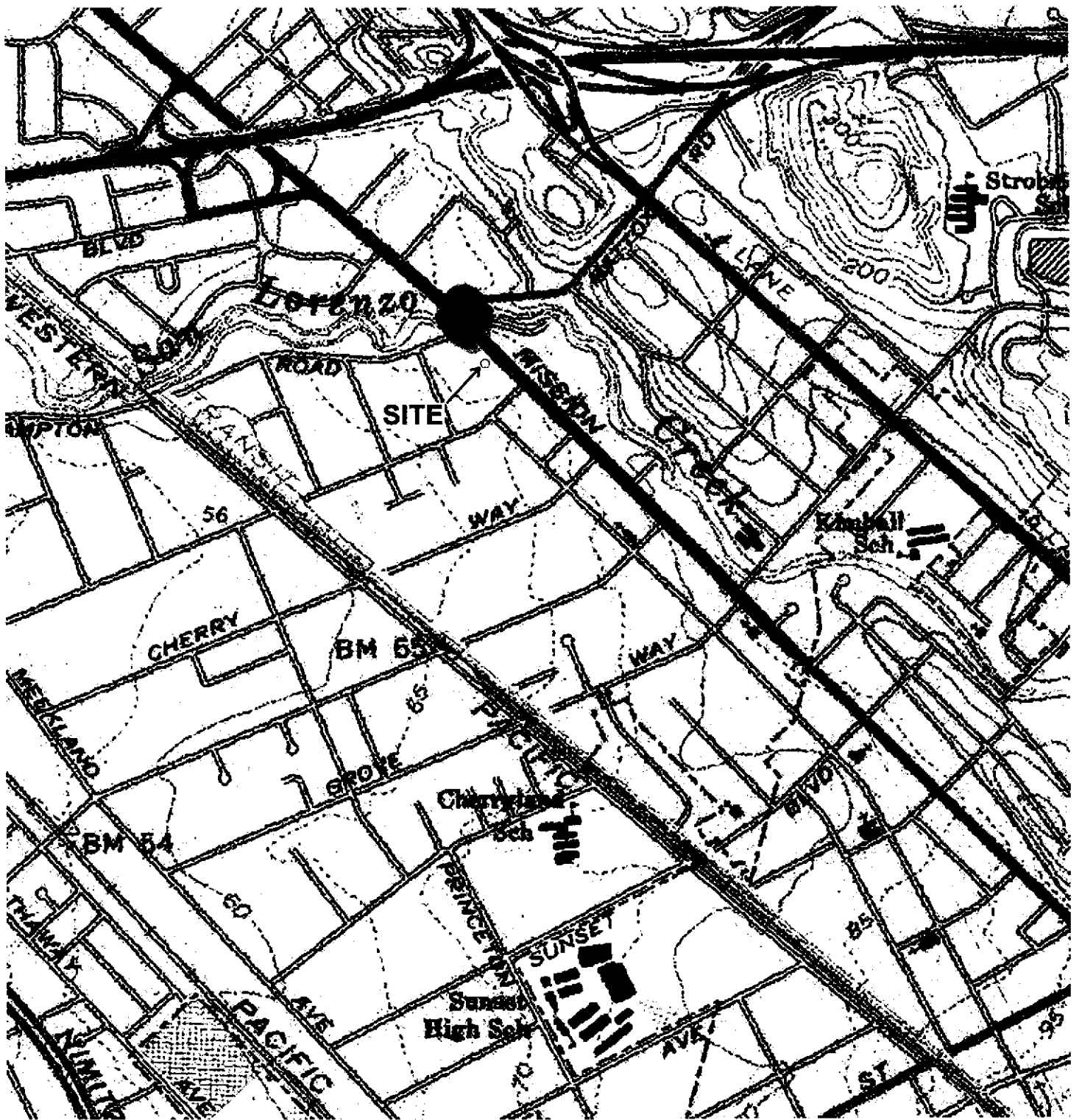
Abbie Goldstein
Environmental Assessor

Charles Kissick
Registered Geologist

Enclosures

CC: Mr. Victor Seeto





0 1000
Scale - feet

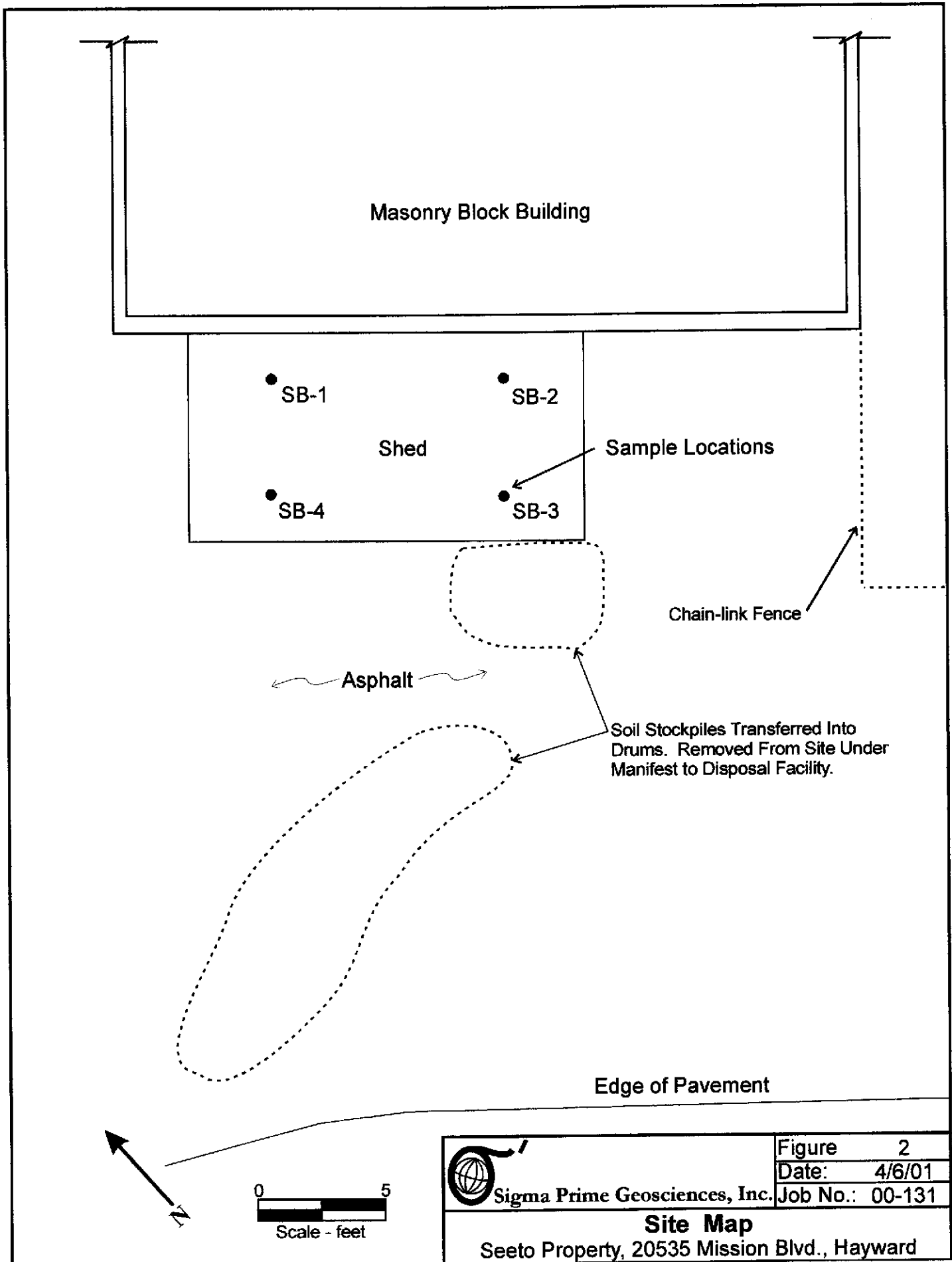


Sigma Prime Geosciences, Inc.

Figure	1
Date:	4/6/01
Job No.:	00 -131

LOCATION MAP

20535 Mission Boulevard Hayward, California





C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 01-0229
Client: Sigma Prime Geosciences
Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 03/27/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Total Oil and Grease by Method 5520
TCLP Lead

Table with columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two main sections for Sample: 01-0229-01 and Sample: 01-0229-02, listing various analytes like Gasoline, Benzene, Ethylbenzene, etc., with their respective methods and results.



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 01-0229
Client: Sigma Prime Geosciences
Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 03/27/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Total Oil and Grease by Method 5520
TCLP Lead

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains two sample entries (SB-2 and SB-3) with various analytes like Gasoline, Benzene, Ethylbenzene, Toluene, Xylenes, TOG, Diesel, and Motor Oil.



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 01-0229
 Client: Sigma Prime Geosciences
 Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 03/27/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020
 Diesel, Motor Oil Hydrocarbons by Method 8015M
 Total Oil and Grease by Method 5520
 TCLP Lead

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 01-0229-05	Client ID: SB-4			02/16/2001	SOIL
Gasoline	8015M	ND			03/01/2001
Benzene	8020	ND			
Ethylbenzene	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
TOG	5520	ND			03/01/2001
Diesel	8015M	ND			03/01/2001
Motor Oil	8015M	ND			



C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 01-0229
Client: Sigma Prime Geosciences
Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 03/27/2001

Gasoline, BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Total Oil and Grease by Method 5520
TCLP Lead

Table with 7 columns: Analyte, Method, Reporting Limit, Unit, Blank, Avg MS/MSD Recovery, RPD. Rows include Gasoline, Benzene, Toluene, Ethylbenzene, Xylenes, MTBE, TOG, Diesel, Motor Oil, and TCLP Lead.

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director



North State Environmental Laboratory

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 01-0229
Client: Sigma Prime Geosciences
Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Gasoline, BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Total Oil and Grease by Method 5520

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 01-0229-01	Client ID: COMP-1 DRUM#1-12			02/16/01	SOIL COMP
Gasoline	8015M	0.55	mg/Kg		02/23/01
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
TOG	5520	1500	mg/Kg		02/23/01
Diesel	8015M	26	mg/Kg		02/23/01
Motor Oil	8015M	620	mg/Kg		



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C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 01-0229
 Client: Sigma Prime Geosciences
 Project: 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Gasoline, BTEX and MTBE by Methods 8015M and 8020
 Diesel, Motor Oil Hydrocarbons by Method 8015M
 Total Oil and Grease by Method 5520

Analyte	Method	Reporting Limit	Unit	Blank	Avg MS/MSD Recovery	RPD
Gasoline	8015M	0.5	mg/Kg	ND	128	1
Benzene	8020	.005	mg/Kg	ND	103	4
Toluene	8020	.005	mg/Kg	ND	105	4
Ethylbenzene	8020	.005	mg/Kg	ND	104	4
Xylenes	8020	.010	mg/Kg	ND	106	3
MTBE	8020	.005	mg/Kg	ND	93	2
TOG	5520	50	mg/Kg	ND	116/90	25
Diesel	8015M	1	mg/Kg	ND	46/47	2
Motor Oil	8015M	10	mg/Kg	ND	97/104	7

ELAP Certificate NO:1753

Reviewed and Approved

John A. Murphy, Laboratory Director



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229

Date Sampled : 02/16/01

Client : Sigma Prime Geosciences

Date Analyzed: 02/23/01

Project : 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Volatile Organics by GC/MS Method 8260

Laboratory Number 01-0229-01
 Client ID COMP-1
 Matrix SOIL COMP

Analyte	ug/Kg
Bromochloromethane	ND<25
Dichlorodifluoromethane	ND<25
Chloromethane	ND<25
Vinyl Chloride	ND<5
Bromomethane	ND<25
Chloroethane	ND<25
Trichlorofluoromethane	ND<5
1,1-Dichloroethene	ND<5
Acetone	ND<250
Trichlorotrifluoroethane	ND<5
Methylene Chloride	ND<250
t-1,2-Dichloroethene	ND<5
Methyl-t-butyl Ether	ND<5
1,1-Dichloroethane	ND<5
2,2-Dichloropropane	ND<5
cis-1,2-Dichloroethene	ND<5
2-Butanone	ND<50
Chloroform	ND<5
1,1,1-Trichloroethane	ND<5
Carbon Tetrachloride	ND<5
1,1-Dichloropropene	ND<5
Benzene	ND<5
1,2-Dichloroethane	ND<5
Trichloroethene	ND<5
1,2-Dichloropropane	ND<5
Dibromomethane	ND<5
Bromodichloromethane	ND<5
trans-1,3-Dichloropropene	ND<5
4-Methyl-2-Pentanone	ND<50
Toluene	ND<5
cis-1,3-Dichloropropene	ND<5
1,1,2-Trichloroethane	ND<5
Tetrachloroethene	ND<5
1,3-Dichloropropane	ND<5
2-Hexanone	ND<50
Dibromochloromethane	ND<5
1,2-Dibromoethane	ND<5

Recovery
Limit



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229

Date Sampled : 02/16/01

Client : Sigma Prime Geosciences

Date Analyzed: 02/23/01

Project : 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Volatile Organics by GC/MS Method 8260

Laboratory Number 01-0229-01

Client ID COMP-1

Matrix SOIL COMP

Analyte ug/Kg

Recovery
Limit

Chlorobenzene ND<5

1,1,1,2-Tetrachloroethane ND<5

Ethylbenzene ND<5

m,p-Xylene ND<5

o-Xylene ND<5

Styrene ND<5

Bromoform ND<5

Isopropyl Benzene ND<5

Bromobenzene ND<5

1,1,2,2-Tetrachloroethane ND<5

n-Propyl Benzene ND<5

2-Chlorotoluene ND<5

4-Chlorotoluene ND<5

1,3,5-Trimethylbenzene ND<5

t-Butylbenzene ND<5

1,2,4-Trimethylbenzene ND<5

1,3-Dichlorobenzene ND<5

1,4-Dichlorobenzene ND<5

sec-Butylbenzene ND<5

1,2-Dichlorobenzene ND<5

p-Isopropyltoluene ND<5

Butylbenzene ND<5

1,2-Dibromo-3-Chloropropa ND<5

Naphthalene ND<5

1,2,4-Trichlorobenzene ND<5

Hexachlorobutadiene ND<5

1,2,3-Trichlorobenzene ND<5

1,2,3-Trichloropropane ND<5

SUR-Dibromofluoromethane 117% Rec

SUR-Toluene d8 93% Rec

SUR-4-Bromofluorobenzene 98% Rec



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229 Date Sampled : 02/16/01
Client : Sigma Prime Geosciences Date Analyzed: 02/23/01
Project : 20535 MISSION BLVD/ HAYWARD, CA Date Reported: 02/28/01

Volatile Organics by GC/MS Method 8260
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical compounds and their analysis results.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229 Date Sampled : 02/16/01
Client : Sigma Prime Geosciences Date Analyzed: 02/23/01
Project : 20535 MISSION BLVD/ HAYWARD, CA Date Reported: 02/28/01

Volatile Organics by GC/MS Method 8260
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical compounds and their analysis results.

Reviewed and Approved

John A. Murphy
Laboratory Director



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229

Date Sampled : 02/16/01

Client : Sigma Prime Geosciences

Date Analyzed: 02/28/01

Project : 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Semi-Volatile Organics by GC/MS Method 8270

Laboratory Number 01-0229-01
 Client ID COMP-1
 Matrix SOIL COMP

Analyte	ug/Kg
bis(2-Chloroethyl)ether	ND<1000
Phenol	ND<1000
2-Chlorophenol	ND<1000
1,3-Dichlorobenzene	ND<500
1,4-Dichlorobenzene	ND<500
1,2-Dichlorobenzene	ND<500
Benzyl alcohol	ND<1000
bis(2-chloroisopropyl)et	ND<500
2-Methylphenol	ND<1000
Hexachloroethane	ND<500
N-Nitroso-di-n-propylami	ND<500
4-Methylphenol	ND<1000
Nitrobenzene	ND<500
Isophorone	ND<1000
2-Nitrophenol	ND<1000
2,4-Dimethylphenol	ND<1000
bis(2-Chloroethoxy)metha	ND<500
2,4-Dichlorophenol	ND<1000
1,2,4-Trichlorobenzene	ND<500
Naphthalene	ND<500
4-Chloroaniline	ND<500
Hexachlorobutadiene	ND<500
4-Chloro-3-methylphenol	ND<1000
2-Methylnaphthalene	ND<500
Hexachlorocyclopentadien	ND<500
2,4,6-Trichlorophenol	ND<1000
2,4,5-Trichlorophenol	ND<1000
2-Chloronaphthalene	ND<500
2-Nitroaniline	ND<500
Acenaphthylene	ND<500
Dimethylphthalate	ND<500
2,6-Dinitrotoluene	ND<500
Acenaphthene	ND<500
3-Nitroaniline	ND<500
2,4-Dinitrophenol	ND<1000
Dibenzofuran	ND<500
2,4-Dinitrotoluene	ND<500

Recovery
Limit



North State Environmental Laboratory

CA ELAP# 1753

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C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229

Date Sampled : 02/16/01

Client : Sigma Prime Geosciences

Date Analyzed: 02/28/01

Project : 20535 MISSION BLVD/ HAYWARD, CA

Date Reported: 02/28/01

Semi-Volatile Organics by GC/MS Method 8270

Laboratory Number 01-0229-01
 Client ID COMP-1
 Matrix SOIL COMP

Analyte	ug/Kg
4-Nitrophenol	ND<1000
Fluorene	ND<500
4-Chlorophenyl-phenyleth	ND<500
Diethylphthalate	ND<1000
4-Nitroaniline	ND<500
4,6-Dinitro-2-methylphen	ND<1000
n-Nitrosodiphenylamine	ND<500
4-Bromophenyl-phenylethe	ND<500
Hexachlorobenzene	ND<500
Pentachlorophenol	ND<1000
Phenanthrene	ND<500
Anthracene	ND<500
Di-n-butylphthalate	ND<1000
Fluoranthene	ND<500
Pyrene	ND<500
Butylbenzylphthalate	1100
3,3'-Dichlorobenzidine	ND<500
Benzo[a]anthracene	ND<500
Chrysene	ND<500
bis(2-Ethylhexyl)phthala	1200
Di-n-octylphthalate	ND<1000
Benzo[b]fluoranthene	ND<500
Benzo[k]fluoranthene	ND<500
Benzo[a]pyrene	ND<500
Indeno[1,2,3-cd]pyrene	ND<500
Dibenz[a,h]anthracene	ND<500
Benzo[g,h,i]perylene	ND<500
SURR Phenol-d6	98% Rec
SURR 2-Fluorophenol	104% Rec
SURR Nitrobenzene-d5	101% Rec
SURR 2-Fluorobiphenyl	100% Rec
SURR 2,4,6-Tribromophenol	119% Rec
SURR Terphenyl-d14	108% Rec

Recovery
Limit

10-110
 20-110
 35-114
 25-119
 10-123
 33-141



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229 Date Sampled : 02/16/01
Client : Sigma Prime Geosciences Date Analyzed: 02/28/01
Project : 20535 MISSION BLVD/ HAYWARD, CA Date Reported: 02/28/01

Semi-Volatile Organics by GC/MS Method 8270
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results ug/Kg, MS/MSD Recovery, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery percentages.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 01-0229 Date Sampled : 02/16/01
Client : Sigma Prime Geosciences Date Analyzed: 02/28/01
Project : 20535 MISSION BLVD/ HAYWARD, CA Date Reported: 02/28/01

Semi-Volatile Organics by GC/MS Method 8270
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results ug/Kg, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical compounds and their analysis results.

Reviewed and Approved

John A. Murphy
Laboratory Director



n/c Credit Card # 5474-6342-4552-3859
North State Environmental Analytical Laboratory (EAP)
 90 South Spruce Avenue, Suite W, South San Francisco, CA 94080
 Phone: (650) 266-4563 Fax: (650) 266-4560

01-0229

Chain of Custody / Request for Analysis
 Lab Job No.: _____ Page 1 of 2

11/02

Client: Sigma Prime Geosciences	Report to:	Phone: 650-726-7198	Turnaround Time
Mailing Address: 625-D Purissima Street Half Moon Bay, CA 94019	Billing to: SAME	Fax: 650-726-7199	STANDARD
		PO# / Billing Reference: 00-131	Date: 2-16-01
			Sampler: A.G.

Project / Site Address: **20535 Mission Blvd, Hayward, California**
 Analysis Requested

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH GAS (8015M-8020)	TPH LIQ (8015M)	VOCs (8260)	SVOCs (8270)	TOTAL OIL & GREASE (EPA 8260.1)	CAM-17	Comments / Hazards
DRUM # 1	SOIL	1/4 OZ SAR	ICE	2-16-01/0955							PLEASE
DRUM # 2				2-16-01/0957							COMPOSITE
DRUM # 3				2-16-01/1000							SAMPLES
DRUM # 4				2-16-01/1001							DRUM # 1
DRUM # 5				2-16-01/1003							THROUGH
DRUM # 6				2-16-01/1004							DRUM # 12
DRUM # 7				2-16-01/1006							TO CREATE
DRUM # 8				2-16-01/1009							COMP-1
DRUM # 9				2-16-01/1015							
DRUM # 10				2-16-01/1017							
DRUM # 11				2-16-01/1020							
DRUM # 12	SOIL	1/4 OZ SAR	ICE	2-16-01/1021							
COMP-1	SOIL				✓	✓	✓	✓	✓	✓	

Relinquished by: <i>[Signature]</i>	Date: 2-16-01	Time: 16:32	Received by: <i>[Signature]</i>	Lab Comments
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	



North State Environmental Analytical Laboratory

90 South Spruce Avenue, Suite W, South San Francisco, CA 94080

Phone: (650) 266-4563 Fax: (650) 266-4560

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 2 of 2

Client: SILVA PRIME GEOSCIENCES	Report to:	Phone: 650-726-7198	Turnaround Time
Mailing Address: 625-D PURISSIMA STREET HALF MOON BAY, CA 94019	Billing to: SAME	Fax: 650-726-7199	STANDARD
		PO# / Billing Reference:	Date: 2-16-01
			Sampler: A.G

Project / Site Address: **20535 MISSION BLVD. HAYWARD, CALIFORNIA** Requested Analysis

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Analysis					Comments / Hazards	
SB-1	SOIL	1 / BRASS TUBE	ICE	2-16-01/10:41							HOLD
SB-2	SOIL	1 / BRASS TUBE	ICE	2-16-01/10:55							HOLD
SB-3	SOIL	1 / BRASS TUBE	ICE	2-16-01/11:06							HOLD
SB-4	SOIL	1 / BRASS TUBE	ICE	2-16-01/11:18							HOLD
											HOLD SAMPLES
											PENDING COMP-1
											RESULTS.

Relinquished by: <i>[Signature]</i>	Date: 2-16-01 Time: 16:32	Received by: <i>[Signature]</i>	Lab Comments
Relinquished by:	Date: Time:	Received by:	
Relinquished by:	Date: Time:	Received by:	

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

February 28, 2001

Carson Grinnell
North State Environmental Analytical Lab
90 South Spruce, Suite W
South San Francisco, CA 94080

Order: 24485

Date Collected: 2/16/01

Project Name:

Date Received: 2/20/01

Project Number: 01-0229

P.O. Number: 01-0229

Project Notes:

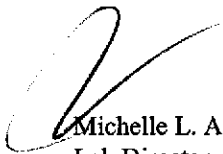
On February 20, 2001, sample was received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Solid	CAM 17 TTLC	EPA 6010B EPA 7471

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

North State Environmental Analytical Lab
90 South Spruce, Suite W
South San Francisco, CA 94080
Attn: Carson Grinnell

Date: 02/28/01
Date Received: 2/20/01
Project Name:
Project Number: 01-0229
P.O. Number: 01-0229
Sampled By: Client

Certified Analytical Report

Order ID: 24485

Lab Sample ID: 24485-001

Client Sample ID: Comp-1

Sample Time: 10:21 AM

Sample Date: 2/16/01

Matrix: Solid

Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Antimony	ND	5	5	25	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Arsenic	ND	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Barium	150	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Beryllium	ND	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Cadmium	ND	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Chromium	69	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Cobalt	22	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Copper	86	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Lead	200	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Mercury	0.1210	1	0.05	0.05	mg/Kg	2/22/01	2/23/01	SHG010206	EPA 7471
Molybdenum	ND	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Nickel	45	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Selenium	ND	5	5	25	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Silver	ND	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Thallium	ND	5	5	25	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Vanadium	61	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B
Zinc	110	5	1	5	mg/Kg	2/21/01	2/26/01	SM010213	EPA 6010B

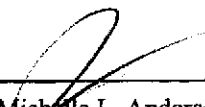
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Quality Control Results Summary

QC Batch #: SM010213
Matrix: Solid

Units: mg/Kg
Date Analyzed: 2/26/01

Test	Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Aluminum	Aluminum	EPA 6010B	ND		500		489.0	LCS	97.8			75.0 - 125.0
Antimony	Antimony	EPA 6010B	ND		50		48.52	LCS	97.0			75.8 - 111.7
Arsenic	Arsenic	EPA 6010B	ND		50		47.63	LCS	95.3			72.3 - 109.0
Barium	Barium	EPA 6010B	ND		50		45.47	LCS	90.9			81.8 - 119.3
Beryllium	Beryllium	EPA 6010B	ND		50		50.17	LCS	100.3			75.5 - 116.3
Cadmium	Cadmium	EPA 6010B	ND		50		46.66	LCS	93.3			71.8 - 112.0
Chromium	Chromium	EPA 6010B	ND		50		51.02	LCS	102.0			80.3 - 116.8
Cobalt	Cobalt	EPA 6010B	ND		50		49.89	LCS	99.8			76.0 - 115.6
Copper	Copper	EPA 6010B	ND		50		47.70	LCS	95.4			78.1 - 110.5
Lead	Lead	EPA 6010B	ND		50		48.15	LCS	96.3			75.0 - 125.0
Molybdenum	Molybdenum	EPA 6010B	ND		50		49.12	LCS	98.2			79.9 - 116.1
Nickel	Nickel	EPA 6010B	ND		50		48.02	LCS	96.0			75.5 - 117.6
Selenium	Selenium	EPA 6010B	ND		50		48.79	LCS	97.6			74.7 - 109.9
Silver	Silver	EPA 6010B	ND		50		49.79	LCS	99.6			67.2 - 116.3
Thallium	Thallium	EPA 6010B	ND		50		44.73	LCS	89.5			75.0 - 125.0
Vanadium	Vanadium	EPA 6010B	ND		50		48.20	LCS	96.4			78.9 - 116.4
Zinc	Zinc	EPA 6010B	ND		50		47.82	LCS	95.6			73.5 - 115.0
Aluminum	Aluminum	EPA 6010B	ND		500		492.3	LCSD	98.5	0.67	30.00	75.0 - 125.0
Antimony	Antimony	EPA 6010B	ND		50		48.84	LCSD	97.7	0.66	30.00	75.8 - 111.7
Arsenic	Arsenic	EPA 6010B	ND		50		48.62	LCSD	97.2	2.06	30.00	72.3 - 109.0
Barium	Barium	EPA 6010B	ND		50		45.80	LCSD	91.6	0.72	30.00	81.8 - 119.3
Beryllium	Beryllium	EPA 6010B	ND		50		50.46	LCSD	100.9	0.58	30.00	75.5 - 116.3
Cadmium	Cadmium	EPA 6010B	ND		50		46.96	LCSD	93.9	0.64	30.00	71.8 - 112.0
Chromium	Chromium	EPA 6010B	ND		50		51.62	LCSD	103.2	1.17	30.00	80.3 - 116.8
Cobalt	Cobalt	EPA 6010B	ND		50		50.36	LCSD	100.7	0.94	30.00	76.0 - 115.6
Copper	Copper	EPA 6010B	ND		50		47.85	LCSD	95.7	0.31	30.00	78.1 - 110.5
Lead	Lead	EPA 6010B	ND		50		48.76	LCSD	97.5	1.26	30.00	75.0 - 125.0
Molybdenum	Molybdenum	EPA 6010B	ND		50		50.04	LCSD	100.1	1.86	30.00	79.9 - 116.1
Nickel	Nickel	EPA 6010B	ND		50		47.88	LCSD	95.8	0.29	30.00	75.5 - 117.6
Selenium	Selenium	EPA 6010B	ND		50		48.18	LCSD	96.4	1.26	30.00	74.7 - 109.9
Silver	Silver	EPA 6010B	ND		50		50.23	LCSD	100.5	0.88	30.00	67.2 - 116.3
Thallium	Thallium	EPA 6010B	ND		50		46.73	LCSD	93.5	4.37	30.00	75.0 - 125.0
Vanadium	Vanadium	EPA 6010B	ND		50		48.69	LCSD	97.4	1.01	30.00	78.9 - 116.4
Zinc	Zinc	EPA 6010B	ND		50		48.43	LCSD	96.9	1.27	30.00	73.5 - 115.0

Entech Analytical Labs, Inc.

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Quality Control Results Summary

QC Batch #: SHG010206
Matrix: Solid

Units: mg/Kg
Date Analyzed: 2/23/01

Test	Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Mercury	Mercury	EPA 7471	ND		0.2		0.1332	LCS	66.6			60.0 - 120.0
Mercury	Mercury	EPA 7471	ND		0.2		0.1536	LCSD	76.8	14.23	30.00	60.0 - 120.0

NON-HAZARDOUS WASTE MANIFEST

100010

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <p style="text-align: center;">N/A</p>		Manifest Document No. 00090	2. Page 1 of 1
3. Generator's Name and Mailing Address SIGMA PRIME GEO SCIENCES 20535 MISSION BLVD HAYWARD, CA 94541					
4. Generator's Phone (650) 726-7198					
5. Transporter 1 Company Name NORTH STATE ENVIRONMENTAL		6. US EPA ID Number <p style="text-align: center;">N/A</p>		A. State Transporter's ID 0539	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone 650-588-2838	
9. Designated Facility Name and Site Address FILTER RECYCLING SERVICES 180 WEST MONTE BLOOMINGTON, CA 92316		10. US EPA ID Number <p style="text-align: center;">N/A</p>		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 800-698-4377	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	
a. SOIL NON-HAZARDOUS WASTE SOLID			12	DM	08500
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above HA: 01032912			H. Handling Codes for Wastes Listed Above <p style="text-align: center;">@55</p>		
15. Special Handling Instructions and Additional Information					
<p>16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.</p>					
Printed/Typed Name JERMAN LOPEZ SIGMA PRIME				Signature 	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date 04 05 01	
Printed/Typed Name STEVE MATTENGLI				Signature 	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.					
Printed/Typed Name				Signature	
				Date Month Day Year	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY