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6 November 1991
Project 1886.01

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HAYWARD FIRE DEPARTMENT

Mr. Hugh Murphy
City of Hayward Fire Department
Hazardous Materials Office
22300 Foothill Boulevard
Hayward, California 94541

Subject: Soil Investigation Report
Sunnyside Nursery--Phase I Development
23934 Mohr Avenue
Hayward, California

Dear Mr. Murphy:

On behalf of The Plymouth Group (Plymouth) of Mountain View, California, Geomatrix Consultants, Inc. (Geomatrix), is enclosing a soil investigation report for the subject site. This report is based on soil sampling and analysis conducted by Geomatrix and others.

The subject site is a 6.5-acre area (Phase I) of the 17-acre former Sunnyside Nursery parcel that Plymouth plans to prepare for development. This report discusses the distribution of organochlorine pesticides detected in soil in the Phase I area.

As we discussed in the 8 August 1991 meeting with you and Plymouth representatives, a remedial action work plan for the subject area will be prepared based on the conditions discussed in this report. The work plan will present the soil blending procedure proposed for remediating the Phase I area. In addition, the work plan will address the petroleum hydrocarbon-affected soil in the Phase I area of the site.

Your continued participation on this project is appreciated. If you have any questions or wish to discuss the soil investigation report, please contact either of the undersigned.

Sincerely yours,

GEOMATRIX CONSULTANTS, INC.

Elizabeth Wells
Elizabeth Wells
Project Engineer

Enclosures

cc: Pamela Evans, ACHCSA
Scott Wolff, ERS
Curtis Peterson, Plymouth

Geomatrix Consultants, Inc.
Engineers, Geologists, and Environmental Scientists



**SOIL INVESTIGATION REPORT
SUNNYSIDE NURSERY - PHASE I DEVELOPMENT**

Sunnyside Nursery
Hayward, California

Prepared for

The Plymouth Group
1616 N. Shoreline Boulevard
Mountain View, California

6 November 1991
Project No. 1886.01

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**SOIL INVESTIGATION REPORT
SUNNYSIDE NURSERY - PHASE I DEVELOPMENT
Hayward, California**

1.0 INTRODUCTION

Geomatrix Consultants, Inc. (Geomatrix), was retained by The Plymouth Group (Plymouth) to perform additional soil sampling on a portion of the former Sunnyside Nursery site parcel in Hayward, California. It is our understanding that Plymouth plans initially to prepare approximately 6.5 acres (Phase I) of the 17-acre former Sunnyside Nursery parcel for residential development (See Figure 1). Geomatrix conducted soil sampling to supplement previous information obtained by Terratech, Inc. (Terratech), of San Jose, California, concerning the extent of pesticide-affected soil, and to support development of a remedial action work plan for the Phase I area. This work was performed in accordance with the Scope of Services that Geomatrix submitted to Plymouth on 19 September 1991. This report discusses the recent soil sampling activities and analytical results of investigations performed for the Phase I portion of the site.

2.0 PREVIOUS INVESTIGATIONS

In January 1989, Terratech collected 24 near-surface soil samples (HS-1 to HS-24) as part of a preliminary soil characterization study of the 17-acre Sunnyside Nursery property. Selected soil samples were analyzed for metals (U. S. Environmental Protection Agency [EPA] Method 6010); oil and grease (Standard Method 413.1); volatile organic compounds (EPA Method 8240); benzene, toluene, ethylbenzene, and xylenes [BTEX] (EPA Methods 8015 and 8020), carbamates (EPA Method 632), and organochlorine pesticides and polychlorinated biphenyls (EPA Method 8080). Organochlorine pesticides, including DDT-family, dieldrin, endrin, and endosulfan-family compounds, were detected in on-site soil. No other pesticides were reported above laboratory detection limits.

Analytical results and discussions of these sampling activities are included in Terratech's February 1989 report entitled "Phase I, Environmental/Toxics Investigation, Sunnyside Nursery, Hayward, California," prepared for Plymouth.

Based on the pesticides detected in the study cited above, Environmental Risk Sciences, Inc. (ERS) of San Francisco prepared a 22 June 1989 report entitled "Health Risk Assessment, Sunnyside Commons Project, Hayward, California." ERS assumed that the California Code of Regulations (CCR) Title 22 Total Threshold Limit Concentrations (TTLC) for DDT-family, dieldrin, and endrin, and the estimated "safe-soil" level for endosulfan would be the maximum soil concentrations or cleanup levels for soil that remained on site following excavation. ERS estimated the safe-soil level for endosulfan-family compounds by applying a safety factor of ten to the reference doses published by the EPA. The report concluded that, "based on the health risk values derived using currently accepted risk assessment methods, the levels of pesticides that will be allowed to remain in on-site surface soils following the completion of excavation activities would pose an insignificant health risk to individuals who will have continual access to the Sunnyside Commons (Nursery) property." The cleanup levels developed in the ERS report are listed in Table 1 and are used to describe the extent of pesticide-affected soil in the Phase I area of the site.

In December 1990 and February 1991, Terratech collected 58 additional near-surface soil samples (RS-1 through RS-58) from the 17-acre property. These soil samples were analyzed for organochlorine pesticides by EPA Method 8080. DDT-family, dieldrin, endrin, and endosulfan-family compounds again were detected. In addition, chlordane, not detected in Terratech's Phase I Investigation, was detected in several soil samples. Complete analytical results and discussions of these sampling activities are included in Terratech's 27 February 1991 letter report, "Status Report, Statistical Characterization of Pesticides Concentrations, Sunnyside Nursery," and the 25 March 1991 letter report, "Table Summary of Pesticide Results, Sunnyside Nursery," both submitted to Plymouth.

Of the soil samples collected by Terratech, 25 discrete soil samples and one 4:1 composite soil sample were collected from the 6.5-acre proposed Phase I development area. Of these, 22 discrete and the one composite sample were analyzed for organochlorine pesticides using EPA Method 8080. Sample locations are shown on Figure 2; analytical results for these samples are presented in Table 2. The following organochlorine pesticides were detected: DDT-family, dieldrin, endrin and endrin ketone, chlordane, and endosulfan-family compounds. DDT-family, endrin, and endosulfan-family compounds were detected at concentrations greater than the ERS risk assessment soil cleanup levels in five general areas.

The three additional samples from the Phase I area of the site, HS-18, HS-19, and HS-20, were analyzed for oil and grease by Standard Method 413.1, and were composited for volatile organic compound analysis by EPA Method 8240. These results are presented in Table 5. Oil and grease was detected at concentrations of 60, 380, and 40 milligrams per kilogram (mg/kg), in the three samples. No volatile organic compounds were detected.

3.0 FIELD ACTIVITIES AND ANALYTICAL RESULTS

Geomatrix's plan for soil sampling in the Phase I area was developed to: (1) further evaluate the distribution of organochlorine pesticides previously detected; (2) evaluate the presence in shallow soil of other pesticides known to have been used at the site, (3) evaluate diesel in soil near the apparent aboveground diesel tanks and piping.

Zaccor Corporation (Zaccor) of Menlo Park, California, collected soil samples under the direction of Geomatrix on 2 October 1991. Samples were collected from 26 locations (Figure 2). Samples were collected by driving a split-spoon sampler into the soil using a tractor-mounted hydraulic jack hammer. Samples for hydrocarbon analysis were collected in clean, thin-walled brass tubes placed inside split-spoon sampling tubes. Samples for arsenic, lead, and pesticide analyses were collected directly from the split-spoon sampler and placed in glass sampling jars. Samples were sealed, labeled, and placed in an ice-

cooled chest until delivery to the analytical laboratories under Geomatrix chain-of-custody procedures. Chemical analyses were performed by three state-certified analytical laboratories: Chromalab, Inc. (Chromalab), of San Ramon, California; Precision Analytical Laboratory (PAL) of Richmond, California; and North Coast Laboratories LTD (NCL) of Arcata, California. Laboratory analytical reports and chain-of-custody records are included in Appendix A.

3.1 FURTHER EVALUATION OF ORGANOCHLORINE PESTICIDES

Geomatrix conducted additional near-surface soil sampling to further evaluate the distribution of previously detected organochlorine pesticides. Fifteen soil samples, or approximately two samples per acre, were collected. Near-surface soil samples were collected from two depth intervals: 6 to 12 inches and 18 to 24 inches. In addition, five soil samples were collected from depths of 30 to 36 inches. The samples from 6 to 12 inches were analyzed for organochlorine pesticides; the other samples were held for possible future analysis.

Fifteen samples (GS-1 through GS-13, GS-HC-2, and GS-HC-5) were analyzed by PAL using EPA Method 8080 for organochlorine pesticides. Analytical results are summarized in Table 3; laboratory reports are included in Appendix A. Two soil samples, GS-1 and GS-11, contained concentrations of DDT-family compounds that exceeded the 1.0 mg/kg cleanup level (1.75 and 1.20 mg/kg). DDT-family compounds were detected at concentrations ranging from 0.05 to 0.70 mg/kg, below cleanup concentrations, in samples GS-8, GS-9, GS-10, and GS-13. Sample GS-HC-2 contained 0.4 mg/kg of chlordane. Organochlorine pesticides were not detected in the remaining eight samples analyzed.

3.2 EVALUATION FOR OTHER PESTICIDES

Several other classes of pesticides reportedly were used at the Sunnyside Nursery in nursery operations. These include carbamate and organophosphate compounds. Four samples were collected in the Sunnyside Commons II property during Terratech's Phase I assessment and were analyzed for carbamates by EPA Method 632. No carbamates were detected in the

soil samples. To evaluate these compounds in the Phase I area of the site, Geomatrix collected near-surface soil samples for analysis for carbamates and organophosphates. In addition, because arsenic and lead are components of pesticides commonly used in the past and are persistent, an analysis for these two elements also was conducted.

Two sample areas were selected where elevated levels of organochlorine pesticides had been detected in previous investigations (Figure 2). Surface samples (0 - 6 inches) were taken at four locations in each area. The four samples from each location were composited by Chromalab prior to analysis.

Chromalab analyzed both composited surface samples for organophosphate pesticides by EPA Method 8140 and for arsenic and lead by EPA Methods 7061 and 7420, respectively. Duplicate composite samples were forwarded to NCL, where carbamate analysis was performed by EPA Method 632. Analytical results are summarized in Table 4; laboratory reports are included in Appendix A. No organophosphates, or arsenic were detected in either composite sample. Lead was detected at concentrations of 33.1 mg/kg in sample GS-C 1,2,3,4 and 9.41 mg/kg in sample GS-C 5,6,7,8. The carbamate diuron was detected at 0.25 mg/kg in sample GS-C5,6,7,8. No other carbamates were detected in either of the composite samples.

3.3 EVALUATION OF DIESEL-AFFECTED SOIL

Two aboveground tanks located in the paved area of the northeast portion of the site apparently were used for storing fuel. Soil sampling was conducted to evaluate possible effects of diesel or oil on soil near the aboveground tanks and associated piping. Five near-surface samples (GS-HC-1 through GS-HC-5) were collected near the aboveground tanks and analyzed for extractable hydrocarbons.

PAL analyzed the five samples for diesel and oil by DHS Extraction Method (EPA Method 3550). Analytical results are summarized in Table 5; laboratory reports are included in

Appendix A. Sample GS-HC-1 contained 400 mg/kg as diesel. The four other samples had diesel concentrations below or near the laboratory detection limits of 1 and 5 mg/kg.

4.0 DISCUSSION AND CONCLUSIONS

Analytical results of soil samples from the Phase I area collected by Terratech and Geomatrix indicate the soil contains DDT-family compounds, dieldrin, endrin, endosulfan-family compounds, chlordane, and diuron at maximum concentrations of 1.75, 0.05, 8.8, 39.2, 0.78, 0.25 mg/kg, respectively (Tables 2, 3, and 4). A preliminary estimate of the combined area of soil that contains DDT-family, endrin, and endosulfan-family pesticides in excess of cleanup concentrations is estimated to be 75,000 square feet (Figure 3).

Assuming that soil containing these pesticides in excess of cleanup concentrations does not extend below a depth of 18 inches in these areas, the preliminary estimate of the volume of pesticide-affected soil in the Phase I area that may require remediation prior to development is approximately 4500 cubic yards.

Chlordane was detected in four discrete soil samples from the 6.5-acre Phase I area at concentrations less than its TTLC of 2.5 mg/kg. Diuron was detected in one composited soil sample from the 6.5-acre Phase I area. There is no TTLC for diuron. Because these compounds were detected in soil samples at the site after the ERS Risk Assessment Report had been prepared, it did not establish cleanup concentrations for chlordane or diuron. We recommend that cleanup concentrations be established for chlordane and diuron for remedial design. If cleanup concentrations are below detected concentrations of these compounds, the volume of soil requiring remediation may increase.

Soil sampling performed by Geomatrix in the Phase I area revealed no organophosphate pesticides or arsenic. Lead detected in soil samples from the Phase I area was at background concentrations.

An oil and grease analysis performed by Terratech suggested that petroleum hydrocarbons may be present in soil in the area of aboveground tanks. Further sampling and analysis by Geomatrix indicates petroleum hydrocarbons characterized as diesel was detected in one soil sample at a concentration of 400 mg/kg. Diesel-affected soil in this area may require remediation.

TABLE 1
CLEANUP CONCENTRATIONS FOR PESTICIDES IN SOIL¹
Sunnyside Nursery
Hayward, California

Compound	Cleanup Concentrations (mg/kg)
DDT-Family Compounds	1.0
Dieldrin	8.0
Endrin	0.2
Endosulfan-Family Compounds	3.5 ²

¹ As developed by Environmental Risk Sciences, Inc., in "Health Risk Assessment, Sunnyside Commons Project, Hayward, California"; 22 June 1989; prepared for The Plymouth Group.

² Cleanup levels for endosulfan-family pesticides called "safe-soil" concentration levels and derived by Environmental Risk Sciences, Inc. All other cleanup levels equal California Title 22 TTLC values.

TABLE 2

ORGANOCHLORINE PESTICIDE ANALYTICAL RESULTS - PHASE I AREA¹
TERRATECH SOIL SAMPLES

Sunnyside Nursery
Hayward, California

(concentrations in mg/kg)

Sample I.D.	DDT-Family Compounds	Dieldrin	Endrin	Endosulfan-Family Compounds	Chlordane
HS-17	ND	ND	ND	7.34	ND ²
RS-2	1.47	ND	1.38	.64	ND
RS-5	0.06	ND	0.11	0.06	ND
RS-8	0.06	ND	0.04	0.32	ND
RS-10	0.27	ND	0.11	0.14	0.46
RS-11	ND	ND	ND	39.20	ND
RS-14	0.07	ND	0.02	0.16	0.13
RS-16	ND	ND	ND	ND	ND
RS-19	ND	ND	ND	ND	ND
RS-23	0.03	ND	0.07	0.09	ND
RS-26	0.03	ND	ND	ND	ND
RS-29	0.41	0.04	0.19	0.03	ND
RS-30	0.23	ND	ND	ND	ND
RS-38	0.11	0.05	0.27	0.08	ND
RS-39	1.37	ND	8.80	10.80	ND
RS-44	ND	ND	0.92	23.7	ND
RS-46	ND	ND	0.04	2.95	0.78
RS-47	0.45	0.04	0.77	0.97	ND
RS-48	0.13	ND	ND	ND	ND
RS-51	0.03	ND	0.03	0.69	ND
RS-52	0.02	ND	ND	ND	ND
RS-53	0.46	ND	0.11	0.21	ND
RS-55	0.31	0.04	0.69	0.06	ND
Detection Limit	0.016	0.016	0.016	0.016	0.080

¹ Soil samples collected by Terratech, Inc., of San Jose, California.

Analyses performed by Sequoia Laboratory of Redwood City, California.

² ND - Not detected.

Sources: Data for sample ID HS-17 from: Terratech report entitled Phase I, Environmental/Toxics Investigation, Sunnyside Nursery, Hayward, California, February, 1989.
Data for sample IDs RS-2 through RS-30 from: Terratech letter report titled: Status Report, Statistical Characterization of Pesticides Concentrations, Sunnyside Nursery, February, 1991.
Data for sample IDs RS-38 through RS-55 from: Terratech letter report: Table Summary of Pesticide Results, Sunnyside Nursery, March, 1991.

TABLE 3



ORGANOCHLORINE PESTICIDE ANALYTICAL RESULTS - PHASE I AREA¹
GEOMATRIX SOIL SAMPLES

Sunnyside Nursery
 Hayward, California

(concentrations in mg/kg)

Sample I.D.	DDT-Family Compounds	Dieldrin	Endrin	Endosulfan-Family Compounds	Chlordane
GS-1	1.75	ND ²	ND	ND	ND
GS-2	0.15	ND	ND	ND	ND
GS-3	0.05	ND	ND	ND	ND
GS-4	0.70	ND	ND	ND	ND
GS-5	0.20	ND	ND	ND	ND
GS-6	0.01	ND	ND	ND	ND
GS-7	0.04	ND	ND	ND	ND
GS-8	ND	ND	ND	ND	ND
GS-9	ND	ND	ND	ND	ND
GS-10	ND	ND	ND	ND	ND
GS-11	1.20	ND	ND	ND	ND
GS-12	0.08	ND	ND	ND	ND
GS-13	ND	ND	ND	ND	ND
GS-HC-2	ND	ND	ND	ND	ND
GS-HC-5	ND	ND	ND	ND	0.50
Detection Limit	.01-.1	.025	.2	.02-.1	.1

¹ Analyses performed by Precision Analytical Laboratory of Richmond, California by EPA Method 8080.

² ND - Not detected.

TABLE 4

ANALYTICAL RESULTS OF EVALUATION FOR OTHER PESTICIDES
PHASE I AREA
GEOMATRIX SOIL SAMPLES
 Sunnyside Nursery
 Hayward, California

Compounds	GS-C 1,2,3,4 Concentration (mg/kg)	GS-C 5,6,7,8 Concentration (mg/kg)	Detection Limit (mg/kg)
<u>Metals¹</u>			
Arsenic	ND ⁴	ND	0.005
Lead	33.1	9.41	0.05
<u>Organophosphates²</u>			
Meniphos	ND	ND	0.05
Disulfoton	ND	ND	0.05
Chlorpyrifos	ND	ND	0.05
Fenthion	ND	ND	0.05
Parathion Methyl	ND	ND	0.05
Dichlorvos	ND	ND	0.05
Ethoprop	ND	ND	0.05
Phorate	ND	ND	0.05
Merphos	ND	ND	0.05
Demeton-0	ND	ND	0.05
Tokuthion	ND	ND	0.05
Bolstar	ND	ND	0.05
Azinphos Methyl	ND	ND	0.05
<u>Carbamates³</u>			
Diuron	ND	0.25	0.20

¹ Analysis performed at Chromalab, Inc., of San Ramon, California, by EPA Methods 7061 and 7420 respectively.

² Analysis performed by Chromalab by EPA Method 8140.

³ Analysis performed by North Coast Laboratory of Arcata, California, by EPA Method 632. No other EPA Method 632 compounds were detected.

⁴ ND - Not detected.

TABLE 5

ANALYTICAL RESULTS OF HYDROCARBON ANALYSIS
PHASE 1 AREA
GEOMATRIX AND TERRATECH SOIL SAMPLES
 Sunnyside Nursery
 Hayward, California

(concentrations in mg/kg)

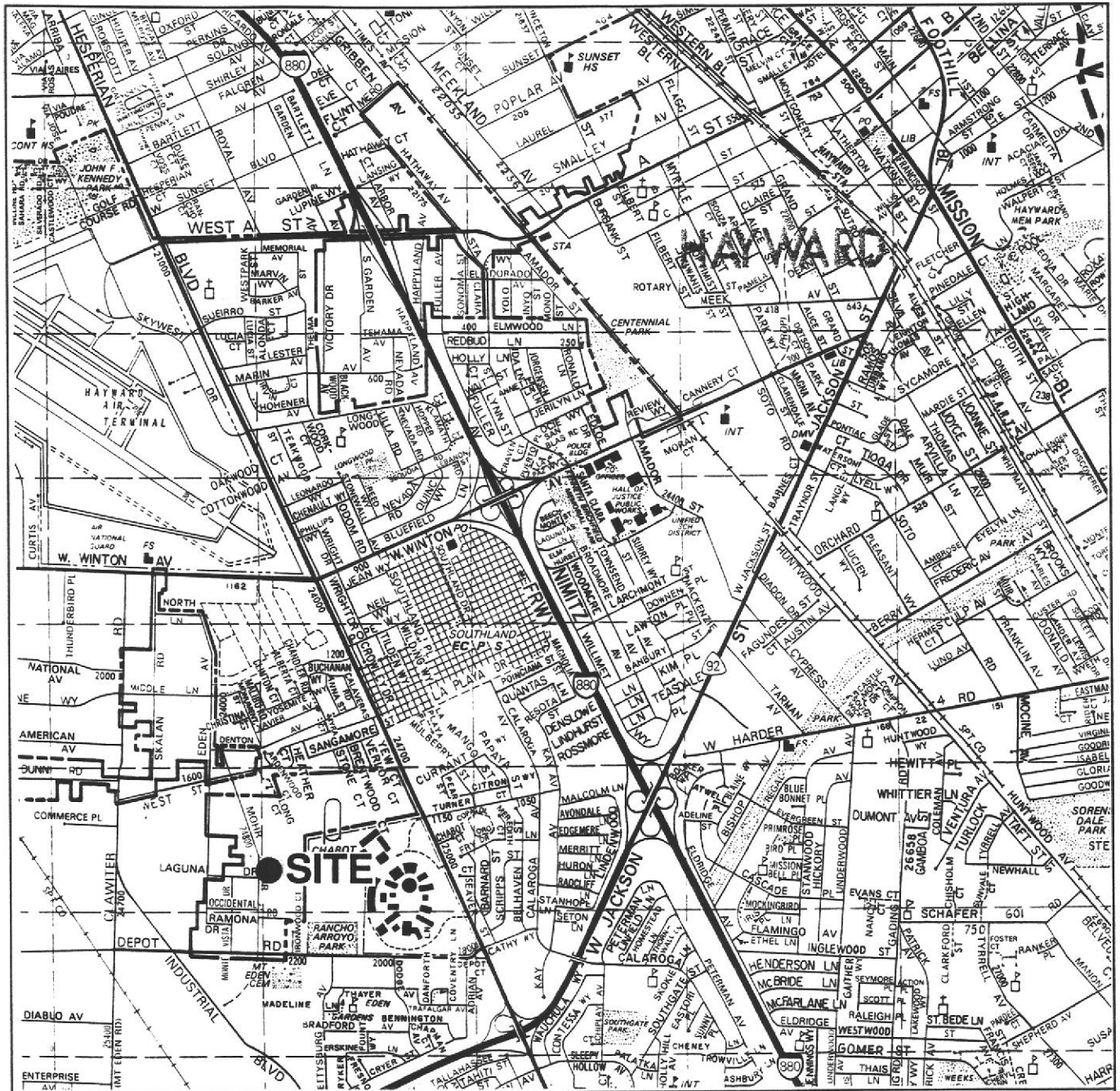
Sample I.D.	Oil & Grease	Volatile Organics	Diesel	Detection Limit
<u>Terratech¹</u>				
HS-18	60	NA ³	NA	30
HS-19	380	NA	NA	30
HS-20	40	NA	NA	30
HS-18,19,20 Composite	NA	ND ⁴	NA	0.1-0.5
<u>Geomatrix²</u>				
GS-HC-1	NA	NA	400	100
GS-HC-2	NA	NA	15	5
GS-HC-3	NA	NA	ND	1
GS-HC-4	NA	NA	2	1
GS-HC-5	NA	NA	ND	1

¹ Samples analyzed by Sequoia Laboratory of Redwood City, California.

² Samples analyzed by Precision Analytical Laboratory of Richmond, California.

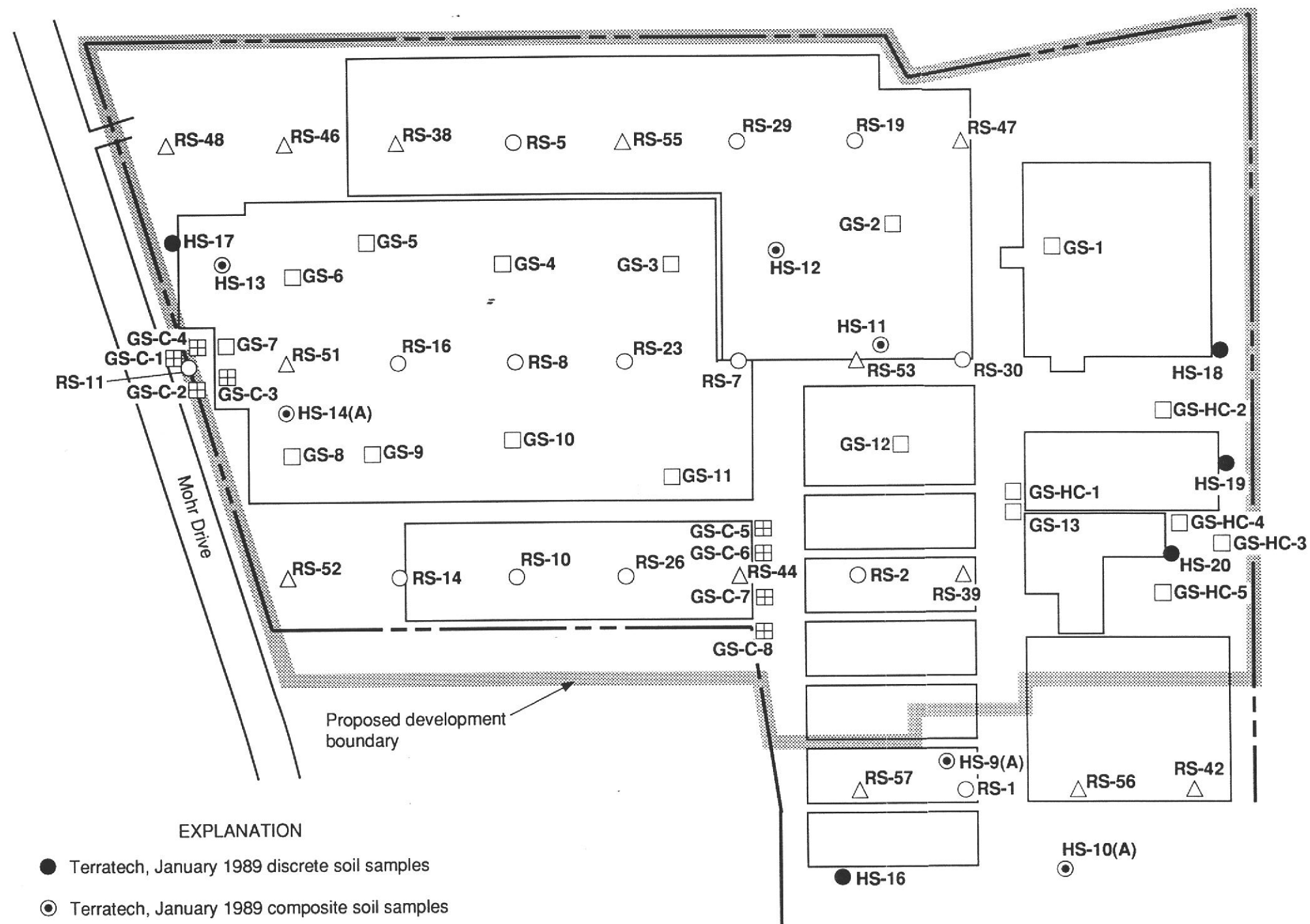
³ NA - Not analyzed.

⁴ ND - Not detected.



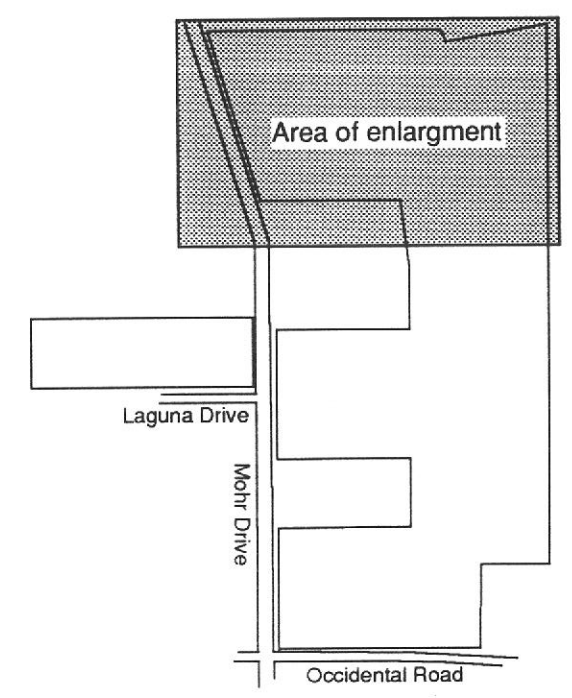
SITE LOCATION MAP
 Phase I Development Area
 Sunnyside Nursery
 Hayward, California

Figure
 1
 Project No.
 1886.01

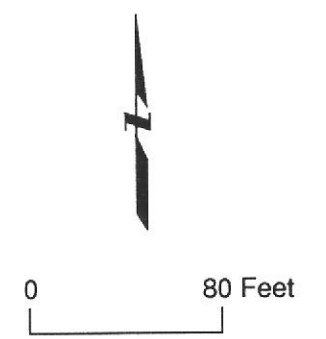



EXPLANATION

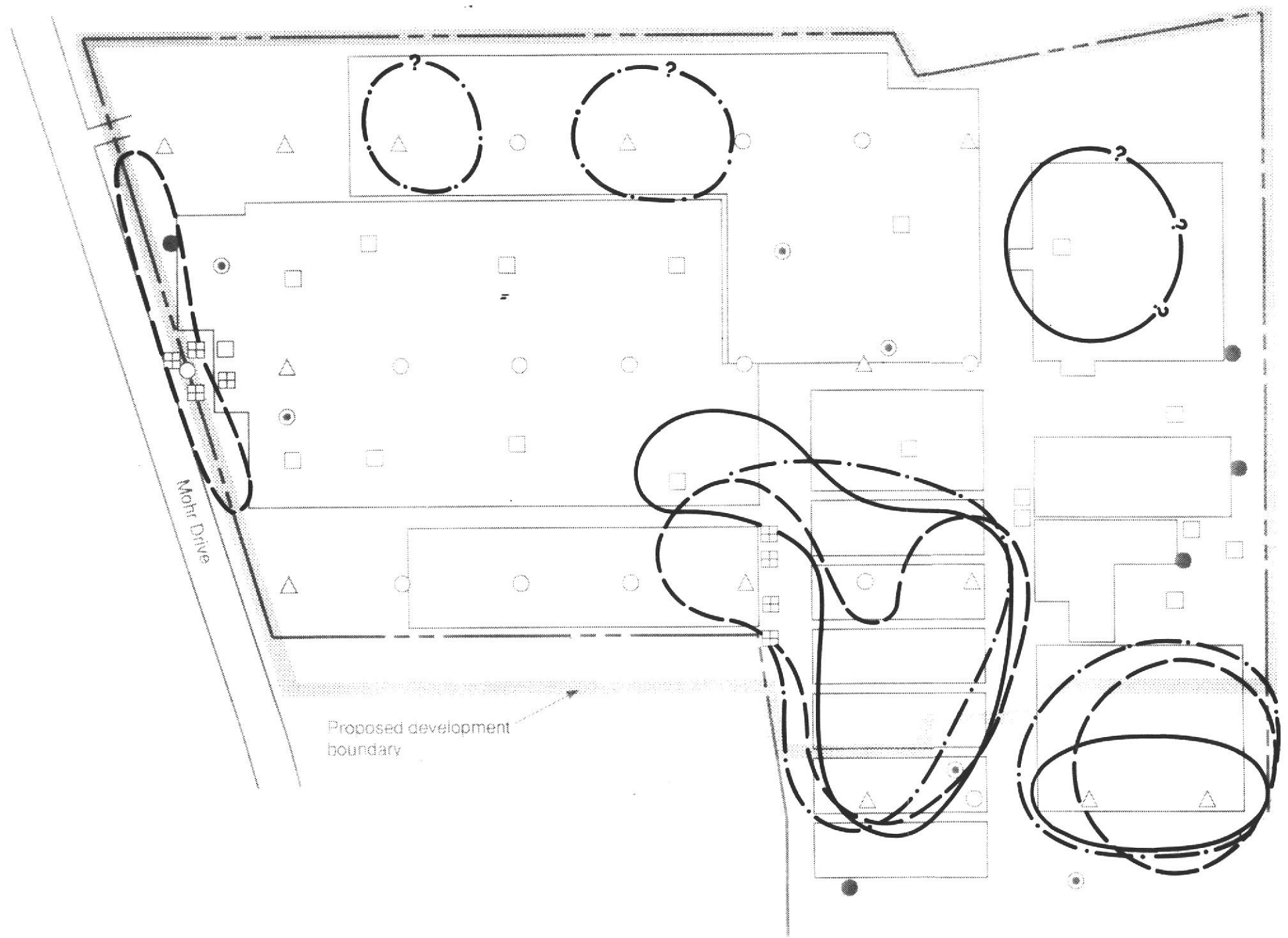
- Terratech, January 1989 discrete soil samples
- ⊙ Terratech, January 1989 composite soil samples
- Terratech, December 1990 discrete soil samples
- △ Terratech, February 1991 discrete soil samples
- Geomatrix, October 1991 discrete soil samples
- ▣ Geomatrix, October 1991 composite soil samples



LOCATION MAP



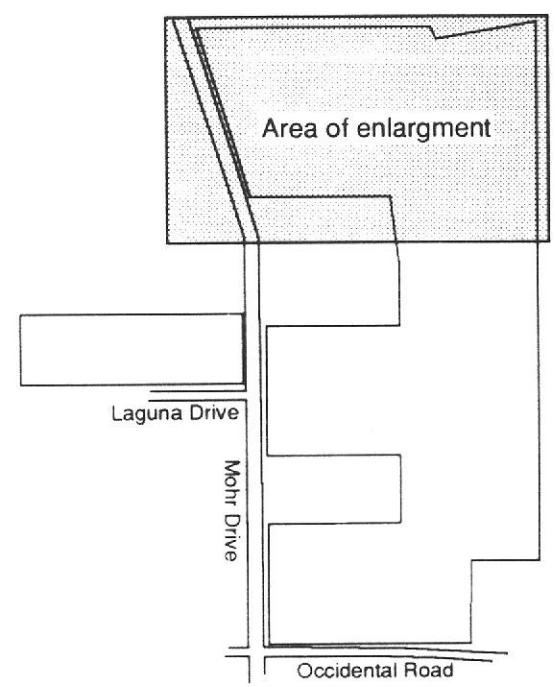
SOIL SAMPLE LOCATIONS Phase I Development Area Sunnyside Nursery Hayward, California		
	Project No. 1886.01	Figure 2



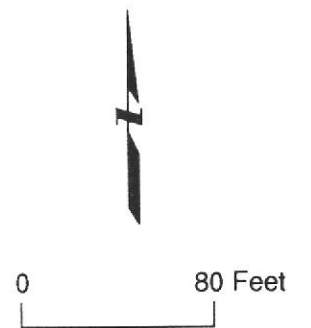
EXPLANATION

- Estimated 1.0 mg/kg contour of DDT-family compounds
- - - - - Estimated 3.5 mg/kg contour of endosulfan-family compounds
- · - · - Estimated 0.2 mg/kg contour of endrin compounds

Note
 Contours based on analytical results of soil samples collected by Geomatrix Consultants, Inc. and others.



LOCATION MAP



AREAS WHERE PESTICIDES IN SOILS EXCEED CLEANUP LEVEL CONCENTRATIONS
 Phase I Development Area
 Sunnyside Nursery
 Hayward, California



Project No.
1886.01

Figure
3

APPENDIX A

**LABORATORY REPORTS AND
CHAIN-OF-CUSTODY RECORDS**

CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

October 10, 1991

ChromaLab File No.: 1091033

GEOMATRIX CONSULTANTS, INC.

Attn: Jeff Nelson

RE: Two composited soil samples for Arsenic and Lead analyses

Project Number: 1886.02

Date Sampled: Oct. 2, 1991

Date Submitted: Oct. 3, 1991

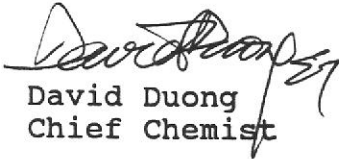
Date Extracted: Oct. 8, 1991


Date Analyzed: Oct. 8, 1991

RESULTS:

<u>Sample I.D.</u>	<u>Arsenic (mg/kg)</u>	<u>Lead (mg/kg)</u>
GS-C 1,2,3,4	N.D.	33.1
GS-C 5,6,7,8	N.D.	9.41
BLANK	N.D.	N.D.
SPIKED RECOVERY	87.4%	101.5%
DETECTION LIMIT	0.005	0.05
METHOD OF ANALYSIS	7061	7420

ChromaLab, Inc.


David Duong
Chief Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

October 10, 1991

ChromaLab File No.: 1091033 A

GEOMATRIX CONSULTANTS, INC.

Attn: Jeff Nelson

RE: One composite soil sample for 8140 analysis

Project Number: 1886.02

Date Sampled: Oct. 2, 1991

Date Submitted: Oct. 3, 1991

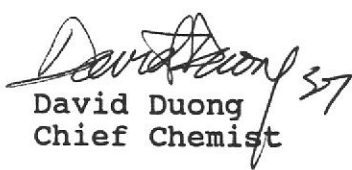
Date Analyzed: October 7, 1991


RESULTS: Sample I.D.: GS-C 1,2,3,4

ORGANO PHOSPHOROUS PESTICIDES

<u>Compounds</u>	<u>Concentration</u> ($\mu\text{g}/\text{kg}$)	<u>Detection</u> <u>Limit</u> ($\mu\text{g}/\text{kg}$)	<u>Spike</u> <u>Recovery</u>
MENINPHOS	N.D.	50	----
DISULFOTON	N.D.	50	----
CHLORPYRIFOS	N.D.	50	93.7%
FENTHION	N.D.	50	----
PARATHION METHYL	N.D.	50	----
DICHLORVOS	N.D.	50	88.2%
ETHOPROP	N.D.	50	----
PHORATE	N.D.	50	----
MERPHOS	N.D.	50	93.5%
DEMETON-0	N.D.	50	----
TOKUTHION	N.D.	50	----
BOLSTAR	N.D.	50	91.4%
AZINPHOS METHYL	N.D.	50	----

ChromaLab, Inc.


David Duong
Chief Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

5 DAYS TURNAROUND

Analytical Laboratory (E694)

October 10, 1991

ChromaLab File No.: 1091033 B

GEOMATRIX CONSULTANTS, INC.

Attn: Jeff Nelson

RE: One composite soil sample for 8140 analysis

Project Number: 1886.02

Date Sampled: Oct. 2, 1991

Date Submitted: Oct. 3, 1991

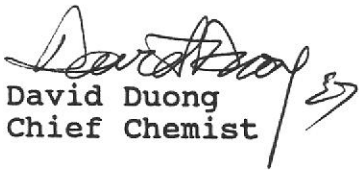
Date Analyzed: October 7, 1991

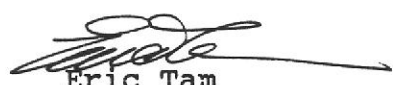
RESULTS: Sample I.D.: GS-C 5,6,7,8

ORGANO PHOSPHOROUS PESTICIDES

<u>Compounds</u>	<u>Concentration</u> ($\mu\text{g}/\text{kg}$)	<u>Detection</u> <u>Limit</u> ($\mu\text{g}/\text{kg}$)	<u>Spike</u> <u>Recovery</u>
MENINPHOS	N.D.	50	----
DISULFOTON	N.D.	50	----
CHLORPYRIFOS	N.D.	50	93.7%
FENTHION	N.D.	50	----
PARATHION METHYL	N.D.	50	----
DICHLORVOS	N.D.	50	88.2%
ETHOPROP	N.D.	50	----
PHORATE	N.D.	50	----
MERPHOS	N.D.	50	93.5%
DEMETON-0	N.D.	50	----
TOKUTHION	N.D.	50	----
BOLSTAR	N.D.	50	91.4%
AZINPHOS METHYL	N.D.	50	----

ChromaLab, Inc.


David Duong
Chief Chemist


Eric Tam
Laboratory Director

GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9957 434-4400

Chain of

DATE 2007-01-11

PAGE 6 OF 1

PROJECT NO. 1886.02

SAMPLERS: (SIGNATURE)

Jeff Nelson

ANALYSES

REMARKS

(SAMPLE PRESERVATION,
HANDLING PROCEDURES,
OBSERVATIONS, ETC.)

ANALYSIS 2 ~~samples~~
COMPOSITED SAMPLES
for ①, ② & ③

DATE	TIME	SAMPLE NUMBER
2007/11	1:30	GS-C1
"	1:30	GS-C2
"	1:30	GS-C3
"	1:30	GS-C4
"	2:00	GS-C5
"	2:00	GS-C6
"	2:00	GS-C7
"	2:00	GS-C8

GENERAL MINERAL	PRECIOUS METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	Carbamate Pesticides (EPA 632)	Organic phosphate pesticide (EPA 8140)	NUMBER OF CONTAINERS
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1
X	X	X	X	X	X	X	X	X	X	1

COMPOSITE INTO 1 SAMPLE

COMPOSITE INTO 1 SAMPLE

Metals: ①
arsenic + lead
EPA 200 series

Carbamate pesticides
② EPA Meth 632

Organic phosphate pesticide
③ EPA Method 8140

STANDARD TAT.

Results to Jeff Nelson

TOTAL NUMBER OF CONTAINERS 8

RELINQUISHED BY:
Jeff Nelson
SIGNATURE
Jeff Nelson
PRINTED NAME
GEOMATRIX
COMPANY

DATE: 3:00 PM 1/11/07
RECEIVED BY:
Tim Coyle
SIGNATURE
TIM COYLE
PRINTED NAME
TIM COYLE
COMPANY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE: _____
RECEIVED BY: (LAB)
SIGNATURE
PRINTED NAME
LABORATORY

RELINQUISHED BY:
Tim Coyle
SIGNATURE
TIM COYLE
PRINTED NAME
TIM COYLE
COMPANY

DATE: 10/3/06
RECEIVED BY:
Beverly Crabtree
SIGNATURE
BEVERLY CRABTREE
PRINTED NAME
CHROMLAB, INC.
COMPANY

METHOD OF SHIPMENT:
LABORATORY COMMENTS/OBSERVATIONS

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002

FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91

Reported: 10/07/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

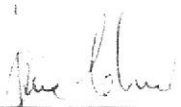
Matrix: Soil

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

<u>Lab ID</u>	<u>Client ID</u>	<u>Diesel</u>	<u>MDL</u>
72846-14	GS-HC-1-(15)	400	100
72846-15	GS-HC-2-(3)	15	5
72846-16	GS-HC-3-(6)	ND<1	1
72846-17	GS-HC-4-(14)	2	1
72846-18	GS-HC-5-(12)	ND<1	1

QA/QC: Spike Recovery for Diesel: 100%

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



Jaime Chow
Laboratory Director

JC/td

Precision Analytical Laboratory, Inc.

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

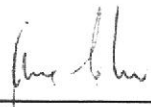
Chlorinated Pesticides
EPA Method 8080
mg/Kg

Lab ID: 72846-1
Client ID: GS-1-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.020	0.020
4,4'DDE	0.45	0.01
p,p-DDT	0.90	0.25
o,p-DDT	0.40	0.1
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td

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CERTIFICATE OF ANALYSIS

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Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil


Chlorinated Pesticides
EPA Method 8080
mg/Kg

Lab ID: 72846-2
Client ID: GS-2-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.020	0.020
4,4'DDE	0.1	0.01
p,p-DDT	0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.


Jaime Chow
Laboratory Director

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Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
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One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides

EPA Method 8080

mg/Kg

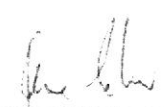
Lab ID: 72846-3

Client ID: GS-3-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.02	0.02
4,4'DDE	0.03	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.


Jaime Chow
Laboratory Director

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Job #: 72846

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Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides
EPA Method 8080
mg/Kg


Lab ID: 72846-4

Client ID: GS-4-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.2	0.02
4,4'DDE	0.5	0.05
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.


Jaime Chow
Laboratory Director

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Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides
EPA Method 8080
mg/Kg


Lab ID: 72846-5

Client ID: GS-5-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.06	0.02
4,4'DDE	0.14	0.02
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.


Jaime Chow
Laboratory Director

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Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides

EPA Method 8080

mg/Kg

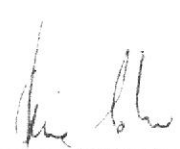
Lab ID: 72846-6

Client ID: GS-6-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.02	0.02
4,4'DDE	0.014	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

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CALIFORNIA STATE CERTIFIED LABORATORY

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Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides
EPA Method 8080
mg/Kg


Lab ID: 72846-7

Client ID: GS-7-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.02	0.02
4,4'DDE	0.024	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

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CALIFORNIA STATE CERTIFIED LABORATORY

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PHONE (415) 222-3002

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides

EPA Method 8080

mg/Kg

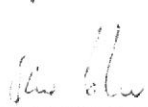
Lab ID: 72846-8

Client ID: GS-8-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.02	0.02
4,4'DDE	ND<0.01	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

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Precision Analytical Laboratory, Inc.

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Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides
EPA Method 8080
mg/Kg

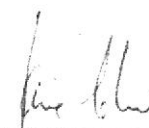
Lab ID: 72846-9

Client ID: GS-9-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.02	0.02
4,4'DDE	ND<0.01	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91
Reported: 10/16/91
Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

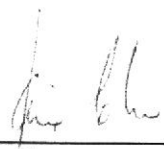
Chlorinated Pesticides
EPA Method 8080
mg/Kg

Lab ID: 72846-10
Client ID: GS-10-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.02	0.02
4,4'DDE	ND<0.01	0.01
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

Precision Analytical Laboratory, Inc.

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Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides

EPA Method 8080

mg/Kg

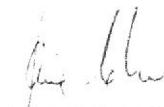
Lab ID: 72846-11

Client ID: GS-11-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.55	0.10
4,4'DDE	0.65	0.05
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.


Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002

FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides

EPA Method 8080

mg/Kg


Lab ID: 72846-12

Client ID: GS-12-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	0.025	0.10
4,4'DDE	0.05	0.05
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002

FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91

Reported: 10/16/91

Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

Chlorinated Pesticides
EPA Method 8080
mg/Kg

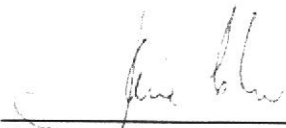
Lab ID: 72846-13

Client ID: GS-13-(9)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.10	0.10
4,4'DDE	ND<0.05	0.05
p,p-DDT	ND<0.05	0.05
o,p-DDT	ND<0.05	0.05
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike recovery for p,p-DDT: 95%
Spike recovery for o,p-DDT: 92.5%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td



GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9557

Chain of Custody Record

DATE 2-1-94

PAGE 1 OF 1

PROJECT NO. 800 012

SAMPLERS: (SIGNATURE)
Jeff Nelson

ANALYSES

DATE	TIME	SAMPLE NUMBER	GENERAL MINERAL	PRIORITY POLLUTANT METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	NUMBER OF CONTAINERS
		GS 1 (4)									1
		GS 2 (4)									1
		GS 3 (4)									1
		GS 4 (4)									1
		GS 5 (4)									1
		GS 6 (4)									1
		GS 7 (4)									1
		GS 8 (4)									1
		GS 9 (4)									1
		GS 10 (4)									1
		GS 11 (4)									1
		GS 12 (4)									1
		GS - HC 1 (15)									1
		GS HC 2 (3)									1
		GS HC 3 (6)									1
		GS HC 4 (4)									1
		GS HC 5 (12)									1

REMARKS
(SAMPLE PRESERVATION, HANDLING PROCEDURES, OBSERVATIONS, ETC.)

Handwritten notes in remarks section including sample IDs and dates.

TOTAL NUMBER OF CONTAINERS 18

RELINQUISHED BY:
Jeff Nelson
SIGNATURE
Jeff Nelson
PRINTED NAME
COMPANY

DATE 2-1
RECEIVED BY:
Michael...
SIGNATURE
Michael...
PRINTED NAME
COMPANY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE
RECEIVED BY: (LAB)
SIGNATURE
PRINTED NAME
LABORATORY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE
RECEIVED BY:
SIGNATURE
PRINTED NAME
COMPANY

METHOD OF SHIPMENT:
LABORATORY COMMENTS/OBSERVATIONS

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91
Reported: 10/25/91
Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

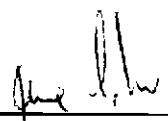
Chlorinated Pesticides
EPA Method 8080
mg/Kg

Lab ID: 72846-15
Client ID: GS-HC-2-(3)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.1	0.1
4,4'DDE	ND<0.05	0.05
p,p-DDT	ND<0.01	0.01
o,p-DDT	ND<0.05	0.05
o,p-DDD	ND<0.1	0.1
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	0.4	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike Recovery for Chlordane: 75%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806 PHONE (415) 222-3002 FAX (415) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 10/02/91
Reported: 10/25/91
Job #: 72846

Attn: Jeff Nelson
Geomatrix Consultants
One Market Plaza
Spear Street Tower, Suite 717
San Francisco, CA 94105

Matrix: Soil

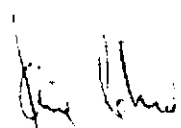
Chlorinated Pesticides
EPA Method 8080
mg/Kg

Lab ID: 72846-18
Client ID: GS-HC-5-(12)

<u>ANALYSIS</u>	<u>RESULT</u>	<u>LIMIT OF DETECTION</u>
Aldrin	ND<0.1	0.1
alpha BHC	ND<0.025	0.025
beta BHC	ND<0.025	0.025
Lindane	ND<0.025	0.025
4,4'DDD	ND<0.1	0.1
4,4'DDE	ND<0.05	0.05
p,p-DDT	ND<0.01	0.01
o,p-DDT	ND<0.05	0.05
o,p-DDD	ND<0.1	0.1
Dieldrin	ND<0.025	0.025
PCB's	ND<0.1	0.1
Endrin	ND<0.2	0.2
Chlordane	ND<0.1	0.1
Heptachlor	ND<0.1	0.1
Toxaphene	ND<0.3	0.3
Heptachlor epoxide	ND<0.05	0.05
alpha Endosulfan	ND<0.02	0.02
beta Endosulfan	ND<0.02	0.02
Endosulfan Sulfate	ND<0.1	0.1

QA/QC: Spike Recovery for Chlordane: 75%

ND = Not detected at or above limit of detection.



Jaime Chow
Laboratory Director

OUTSTANDING QUALITY AND SERVICE
CALIFORNIA STATE CERTIFIED LABORATORY

JC/td



GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9557

Chain of Custody Record

DATE 2-28-91 PAGE 1 OF 1

PROJECT NO. 1886.02

SAMPLERS: (SIGNATURE)
Jeff Nelson

ANALYSES

REMARKS

(SAMPLE PRESERVATION,
HANDLING PROCEDURES,
OBSERVATIONS, ETC.)

DATE	TIME	SAMPLE NUMBER	GENERAL MINERAL	PRIORITY POLLUTANT METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	ORGANOCHLORINE PESTICIDES	NUMBER OF CONTAINERS
2/28/91		GS-1-(9)								X		1
"		GS-2-(9)								X		1
"		GS-3-(9)								X		1
		GS-4-(9)								X		1
		GS-5-(9)								X		1
		GS-6-(9)								X		1
		GS-7-(9)								X		1
		GS-8-(9)								X		1
		GS-9-(9)								X		1
		GS-10-(9)								X		1
		GS-11-(9)								X		1
		GS-12-(9)								X		1
		GS-13-(9)								X		1
		GS-HC-1-(15)							X			1
		GS-HC-2(3)							X			1
		GS-HC-3(6)							X			1
		GS-HC-4(4)							X			1
		GS-HC-5(12)							X			1

HYDROCARBON ANALYSIS
EXTRACTABLE
DIESEL OIL ←
EPA 8015

ORGANOCHLORINE
Pesticides by
EPA Meth 8080

STANDARD
TURN AROUND
TIME

Results to
~~Jeff Nelson~~ Jeff
Nelson (415) 957-9400

TOTAL NUMBER OF CONTAINERS 10

RELINQUISHED BY:
Jeff Nelson
SIGNATURE
Jeff Nelson
PRINTED NAME
Geomatrix
COMPANY

DATE: 2/28
TIME: 3:20
RECEIVED BY:
Kulwinder Sidhu
SIGNATURE
Kulwinder Sidhu
PRINTED NAME
Decision Analytical
LAB INC
COMPANY

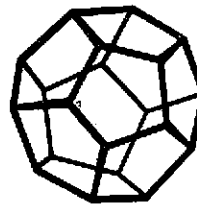
RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE
RECEIVED BY: (LAB)
SIGNATURE
PRINTED NAME
LABORATORY

RELINQUISHED BY:
SIGNATURE
PRINTED NAME
COMPANY

DATE
TIME
RECEIVED BY:
SIGNATURE
PRINTED NAME
COMPANY

METHOD OF SHIPMENT:
LABORATORY COMMENTS/OBSERVATIONS:



Date: 10/30/91

REPORT

Page 1 of 4

REPORT Chromalab, Inc.
TO 2239 Omega Road, #1
San Ramon, CA 94583

WORK ORDER 91-10-585

INVOICE # 60018642

Attn: David Duong

WORK ID: GS-CS-1 thru -8/1091237

REPORT CERTIFIED BY

Roxanne [Signature]
Laboratory Supervisor(s)

Michelle Dostal
QA Officer

[Signature]
Jesse G. Chaney, Jr.
Laboratory Director

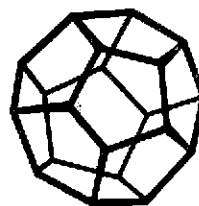
SAMPLE IDENTIFICATION

Fraction	Sample Description	Comments:
01	GS-CS-1,2,3,4	
02	GS-CS-5,6,7,8	Tentative confirmation of diuran by second wavelength.
03	Blank	Suggest LCMS.
04	Check	

Notes and Definitions:

Limit = Detection Limit

ND = None Detected



Date: 10/30/91
Work Order: 91-10-585
Invoice #: 60018642

REPORT

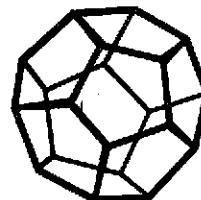
Page 2 of 4

SAMPLE ID: GS-CS-1,2,3,4 FRAC.: 01A COLLECTED: 10/25/91 RECEIVED: 10/26/91

<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>DIL. FACTOR</u>	<u>EXTRACTED</u>	<u>RUN</u>	<u>METHOD</u>
632 - Soil							EPA_632
Oxamyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methomyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fenuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Monuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propoxur	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbofuran	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbaryl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fluometuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Diuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methiocarb	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Siduron	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Linuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Swep	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Chlorpropham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Barbane	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Neburon	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632

SAMPLE ID: GS-CS-5,6,7,8 FRAC.: 02A COLLECTED: 10/25/91 RECEIVED: 10/26/91

<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>DIL. FACTOR</u>	<u>EXTRACTED</u>	<u>RUN</u>	<u>METHOD</u>
632 - Soil							EPA_632
Oxamyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methomyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fenuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Monuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propoxur	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbofuran	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbaryl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fluometuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Diuron	0.25	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methiocarb	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Siduron	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Linuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Swep	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Chlorpropham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632



Date: 10/30/91
Work Order: 91-10-585
Invoice #: 60018642

REPORT

Page 3 of 4

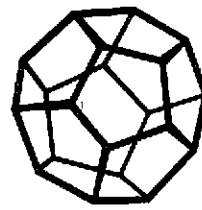
PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
Barbane	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Neburon	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632

SAMPLE ID: Blank FRAC.: 03A COLLECTED: N/A RECEIVED: 10/26/91

PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
632 - Soil							EPA_632
Oxamyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methomyl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fenuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Monuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propoxur	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbofuran	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Carbaryl	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Fluometuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Diuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Propham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Methiocarb	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Siduron	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Linuron	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Swep	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632
Chlorpropham	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Barbane	ND	2.0	ug/g	1.0	10/28/91	10/30/91	EPA_632
Neburon	ND	0.20	ug/g	1.0	10/28/91	10/30/91	EPA_632

SAMPLE ID: Check FRAC.: 04A COLLECTED: N/A RECEIVED: 10/26/91

PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
632 - Soil							EPA_632
Oxamyl	80.7	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Methomyl	87.8	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Fenuron	89.4	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Monuron	93.9	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Propoxur	98.8	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Carbofuran	99.6	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Carbaryl	94.5	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Fluometuron	103	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Diuron	92.8	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Propham	94.1	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Methiocarb	64.6	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632



Date: 10/30/91
Work Order: 91-10-585
Invoice #: 60018642

REPORT

Page 4 of 4

<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>DIL. FACTOR</u>	<u>EXTRACTED</u>	<u>RUN</u>	<u>METHOD</u>
Siduron	98.4	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Linuron	116	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Sweb	104	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Chlorpropham	96.1	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Barbane	97.4	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632
Neburon	91.5	N/A	% Rec	1.0	10/28/91	10/30/91	EPA_632

1091237

CHROMALAB FILE # 1091237
ORDER #

~~3975~~ 4040

GEOMATRIX CONSULTANTS

ONE MARKET PLAZA
SPEAR STREET TOWER SUITE 717
SAN FRANCISCO, CALIFORNIA 94105
(415) 957-9557

Chain of Custody

DATE 25 OCT '11

PAGE 1 OF 1

PROJECT NO. 1886.01

SAMPLERS: (SIGNATURE)
Jeffrey C. Nelson

ANALYSES

REMARKS

(SAMPLE PRESERVATION,
HANDLING PROCEDURES,
OBSERVATIONS, ETC.)

DATE	TIME	SAMPLE NUMBER	GENERAL MINERAL	PRIORITY POLLUTANT METALS	EPA METHOD 624	EPA METHOD 625	EPA METHOD 601	EPA METHOD 602	EPA METHOD 608	PETROLEUM HYDROCARBONS	NUMBER OF CONTAINERS
8/20	8:20	GS-CS-1									1
"	8:25	GS-CS-2									1
"	8:30	GS-CS-3									1
"	8:35	GS-CS-4									1
"	8:35	GS-CS-5									1
"	8:30	GS-CS-6									1
"	8:35	GS-CS-7									1
"	9:00	GS-CS-8									1

composite into 1 sample

composite into 1 sample

Please perform
CARBONATE ANALYSIS
on BOTH COMPOSITE
SAMPLES.

Results to Jeff Nelson
Geomatrix (415) 957-9557

24 HR RUSH-TAT!!!

TOTAL NUMBER OF CONTAINERS 8

RELINQUISHED BY: SIGNATURE Jeffrey C. Nelson PRINTED NAME Jeffrey C. Nelson COMPANY Geomatrix	DATE 25 OCT TIME 14:10	RECEIVED BY: SIGNATURE J. MONSIE PRINTED NAME CHROMALAB COMPANY CHROMALAB	RELINQUISHED BY: SIGNATURE PRINTED NAME COMPANY	DATE RECEIVED BY: SIGNATURE PRINTED NAME COMPANY	RECEIVED BY: (LAB) SIGNATURE PRINTED NAME LABORATORY
METHOD OF SHIPMENT: LABORATORY COMMENTS/OBSERVATIONS					