

22 March 1994
Project 1886.03

Mr. Hugh Murphy
Environmental Specialist
Hayward Fire Department
25151 Clawiter Road
Hayward, California 94545-2731

**Subject: Results of Supplemental Soil Sampling and Request for Closure
Former Sunnyside Nursery
29434 Mohr Drive
Hayward, California**

Dear Mr. Murphy:

Geomatrix Consultants, Inc. (Geomatrix), has completed supplemental soil sampling for the remaining undeveloped 15 acres at the subject site on behalf of TPG Development (TPG), of Mountain View, California. The work was performed in accordance with our 9 November 1993 Soil Sampling Work Plan (Work Plan) submitted to you and the Alameda County Health Care Services Agency (ACHCSA). The main objectives of the supplemental soil sampling were to: 1) further evaluate the presence of pesticides in shallow soil within the site; 2) further evaluate the presence of total petroleum hydrocarbons as diesel in surface soil near the former boiler room and above ground diesel tank; and 3) facilitate regulatory approval for residential development at the site. This letter report presents the findings of this supplemental soil sampling and requests approval for residential development of the remaining 15 acres of the Sunnyside Nursery property.

BACKGROUND

The Sunnyside Nursery site is located at 29434 Mohr Drive in Hayward, California (Figure 1), and covers approximately 18.3 acres. The former plant nursery operated from approximately 1955 to the fall of 1990. Before 1955, the site was used as agricultural land. Terratech, Inc. (Terratech), of San Jose, California, and Geomatrix have conducted investigations of site soil and/or groundwater quality, as described in the following paragraphs.

Terratech Site Investigations

Between 1989 and 1991, Terratech conducted a series of soil investigations at the site; these investigations included collecting and analyzing soil samples from 82 shallow soil locations and from seven soil borings drilled at the site. Descriptions of the site stratigraphy, locations and depths of samples collected, analyses performed, and analytical results for

Mr. Hugh Murphy
Hayward Fire Department
22 March 1994
Page 2

each of the previous investigations is provided in the attached Work Plan. Results of these investigations indicated that endosulfan-family compounds, DDT-family compounds, chlordane, endrin, and dieldrin were detected in shallow soil in some areas within the site. In addition, relatively low concentrations of total petroleum hydrocarbons as diesel (TPHd) and hydrocarbons as total oil and grease were detected in surface soil samples collected in the northeast corner of the parcel in the vicinity of a former boiler room and an aboveground diesel storage tank (Sheet 1).

Terratech also investigated groundwater quality by installing four groundwater monitoring wells in the western central portion of the site and conducting a quarterly groundwater sampling program. Summaries and reports of Terratech's groundwater investigations are included in Geomatrix's 7 February 1994 letter report entitled "Request for Case Closure, 25066 Dania Lane, Sunnyside Commons II Parcel, Hayward, California" and Geomatrix's 23 February 1994 letter report entitled "Request for Site Closure, Area of Former Underground Diesel Storage Tank, Sunnyside Nursery, Hayward, California."

Geomatrix Site Investigations

In October 1991, Geomatrix collected soil samples from 18 locations within the northern portion of the site to supplement Terratech's soil sampling. Between August 1992 and April 1993, Geomatrix collected soil samples from 27 locations within three tracts of the Sunnyside Nursery parcel (shaded areas on Sheet 1), including: Tract 6078, a 1.8-acre area on the western side of the site; Tract 6260, a 1.0-acre area on the western side of the site bordering Mohr Drive; and part of Tract 6391, a 0.5-acre area in the southwest corner of the site. Elevated concentrations of pesticides were not detected in any of the samples collected by Geomatrix in these areas. Aroclor 1254, a polychlorinated biphenyl (PCB), was detected at a concentration of 1.6 milligrams per kilogram (mg/kg) in one soil sample collected from within tract 6260. Approximately 17 cubic yards of soil was subsequently removed from around this sample location and disposed of at a state-licensed Class II landfill. PCBs were not detected in the confirmation soil samples collected from the sides and bottom of the excavation.

Subsequent to the soil investigations and removal of PCB-containing soil performed by Geomatrix, TPG obtained approval from the ACHCSA to develop residential housing on Tracts 6078, 6260, and 6391.

Mr. Hugh Murphy
Hayward Fire Department
21 March 1994
Page 3

SCOPE OF WORK

TPG plans to develop residential housing on the remaining 15 acres of the Sunnyside Nursery parcel. The ACHCSA requested that Geomatrix collect surface and near-surface soil samples at 51 locations (for a total of 102 samples) to further evaluate the presence of pesticides and petroleum hydrocarbon compounds within the proposed development area. Soil sample locations, as shown on Sheet 1, were selected to:

- confirm the absence of elevated concentrations of endosulfan-family compounds (confirmation sampling)
- characterize the distribution or confirm the absence of elevated concentrations of endrin, chlordane, and DDT-family compounds in surface soil (characterization sampling)
- provide additional site coverage for identifying the presence of elevated concentrations of endrin, endosulfan, chlordane, dieldrin, and DDT-family compounds (supplemental sampling)
- characterize the distribution or confirm the absence of diesel in surface soil near the former shop and boiler room area (diesel characterization).

A detailed description of the soil sampling methodology is presented in the Work Plan.

A 0.5-acre area in the western center part of the nursery property, as illustrated on Sheet 1, was excluded from sampling because it has been paved and was an area with no historic pesticide application. A review of aerial photographs taken in 1947 and 1953 indicate this area was agricultural land and was not part of the nursery facility. Aerial photographs from 1959, 1963, and 1966 show this area was used for parking and/or received heavy vehicle traffic. In addition, the western portion of this area appears to have been paved between 1963 and 1966. The 1990 aerial photograph shows this area completely paved with asphalt or concrete.

Pesticide/PCB cleanup concentrations for soil within the remaining 15 acres of the Sunnyside Nursery parcel were established in a meeting between Geomatrix and representatives of the ACHCSA and Hayward Fire Department (HFD) on 29 October 1993. These compound-specific soil cleanup concentrations are based upon Environmental

Mr. Hugh Murphy
Hayward Fire Department
22 March 1994
Page 4

Protection Agency (EPA), California State Department of Toxic Substances Control, and ACHCSA guidelines for residential development and are as follows:

- 0.9 mg/kg - DDT-family compounds, (the sum of DDD, DDE, and DDT)
- 0.2 mg/kg - endrin
- 3.5 mg/kg - endosulfan-family compounds (the sum of endosulfan I, endosulfan II, and endosulfan sulfate)
- 0.9 mg/kg - chlordane
- 0.075 mg/kg - dieldrin
- 1.0 mg/kg - PCBs

FIELD ACTIVITIES

Soil sampling was performed between 18 and 23 November 1993 by Geomatrix personnel. Sampling collection procedures were conducted in accordance with local regulatory agency requirements and Geomatrix protocols. Augering and sampling equipment was washed with Alconox detergent and rinsed with deionized water before being advanced into boreholes. As proposed in the Work Plan, soil samples were collected from a total of 51 locations, including:

- four confirmation sample locations (CNS-1 through CNS-4)
- 18 characterization sample locations (CRS-1 through CRS-18)
- 24 supplemental sample locations (SS-1 through SS-24)
- five diesel characterization locations (DS-1 through DS-5)

Samples were collected at the boring locations proposed in the Work Plan, as shown on Sheet 1. Completed borings were backfilled with auger cuttings.

Mr. Hugh Murphy
Hayward Fire Department
21 March 1994
Page 5

As specified in the Work Plan, two samples were collected from each location: surface soil samples were collected from 3 to 6 inches below ground surface (bgs) and near-surface soil samples were collected from 6 to 12 inches bgs.

Soil samples collected for pesticides analysis were collected in clean glass jars sealed with lids; soil samples collected for hydrocarbon analysis were collected in brass tubes, sealed at each end with aluminum foil, plastic end caps, and duct tape. The samples were labeled and stored in an ice-cooled container until delivery under Geomatrix chain-of-custody procedures to Chromalab, Inc. (Chromalab), of San Ramon, California, a state-certified analytical laboratory. Chain-of-custody records are included in Appendix A.

LABORATORY ANALYTICAL METHODS

The surface confirmation, characterization, and supplemental soil samples were analyzed for chlorinated pesticides and PCBs according to EPA Method 8080. As requested by ACHCSA, Geomatrix selected four of the characterization soil samples to be analyzed for carbamates according to EPA Method 632. These four samples (CRS-3, CRS-9, CRS-10, and CRS-14) were selected from areas where previous soil sampling indicated the presence of the highest concentrations of pesticides in surface soils. The diesel characterization soil samples were analyzed for TPHd according to EPA Method 3550/GCFID.

ANALYTICAL RESULTS

The surface soil samples from each sampling location were analyzed for organochlorine pesticides, carbamates, or TPHd. The near-surface soil samples were to be analyzed if pesticides were detected in surface samples at concentrations that exceeded cleanup concentrations or elevated concentrations of hydrocarbons were detected. Pesticide concentrations did not exceed cleanup concentrations and TPHd was not detected in any of the surface soil samples; consequently, chemical analyses were not performed on the near-surface soil samples. Analytical results for the surface soil samples are summarized in Table 1 and laboratory analytical reports are included in Appendix A. The analytical results are summarized below.

Confirmation Sampling

Dieldrin was detected in three of the four confirmation soil samples, with concentrations ranging from 0.0012 mg/kg to 0.0026 mg/kg. Endrin was detected in one sample at a concentration of 0.0083 mg/kg. DDT-family compounds were detected in two samples at

Mr. Hugh Murphy
Hayward Fire Department
21 March 1994
Page 6

total concentrations of 0.0036 mg/kg and 0.014 mg/kg. Endosulfan-family compounds were detected in one sample at a total concentration of 0.029 mg/kg. The concentrations of the pesticides detected in the confirmation samples were below the site-specific cleanup concentrations. No other organochlorine pesticides were detected in the four confirmation samples.

Characterization Sampling

Dieldrin was detected in 16 of the 18 characterization soil samples at concentrations ranging from 0.001 to 0.069 mg/kg. Endrin was detected in 16 soil samples at concentrations ranging from 0.013 mg/kg to 0.17 mg/kg. DDT-family compounds were detected in 17 samples at total concentrations ranging from 0.002 mg/kg to 0.226 mg/kg. Endosulfan-family compounds were detected in 14 soil samples at total concentrations ranging from 0.0074 mg/kg to 0.26 mg/kg. Pesticide concentrations detected in the characterization samples were below site-specific cleanup concentrations.

BHC compounds (benzene hexachloride-alpha, benzene hexachloride-beta, and benzene hexachloride-gamma or lindane) were detected in eight samples at total concentrations ranging from 0.0011 mg/kg to 0.011 mg/kg. No other organochlorine compounds and no carbamates were detected in any of the characterization samples.

Supplemental Sampling

Dieldrin was detected in 21 of the 24 supplemental samples at concentrations ranging from 0.0012 mg/kg to 0.053 mg/kg. Endrin was detected in 17 samples at concentrations ranging from 0.0011 mg/kg to 0.18 mg/kg. DDT-family compounds were detected in 21 samples at total concentrations ranging from 0.0015 mg/kg to 0.114 mg/kg. Endosulfan-family compounds were detected in 12 samples at total concentrations ranging from 0.0053 mg/kg to 0.193 mg/kg. Pesticide concentrations detected in the characterization samples were below site-specific cleanup concentrations.

BHC compounds were detected in four samples at total concentrations ranging from 0.0014 mg/kg to 0.038 mg/kg. In addition, heptachlor epoxide was detected in three samples at concentrations ranging from 0.001 mg/kg to 0.0018 mg/kg. No other organochlorine pesticides were detected in the supplemental samples.

Diesel Characterization Sampling

No TPHd was detected in any of the five surface diesel characterization samples analyzed.

Mr. Hugh Murphy
Hayward Fire Department
21 March 1994
Page 7

SUMMARY AND RECOMMENDATIONS

- No chlordane or PCB compounds, which were previously detected in site soil, were detected in any of the samples collected and analyzed during the supplemental sampling program.
- No pesticides were detected above the pesticide cleanup levels for site soil and residential development. Maximum concentrations of pesticides detected in this sampling program were: endrin (0.18 mg/kg), DDT-family compounds (0.226 mg/kg), endosulfan-family compounds (0.193 mg/kg), and dieldrin (0.069 mg/kg).
- BHC compounds (benzene hexachloride-alpha, benzene hexachloride-beta, and benzene hexachloride-gamma or lindane) were detected in 13 samples at concentrations ranging from 0.0011 mg/kg to 0.038 mg/kg. Heptachlor epoxide was detected in three samples at concentrations ranging from 0.001 mg/kg to 0.0018 mg/kg. Ms. Madhulla Logan of the ACHCSA indicated that the concentrations of the BHC-family compounds and heptachlor epoxide were below cleanup concentrations (personal communication, 19 January 1994).
- Carbamates were not detected in any of the four characterization samples selected for analysis.
- Diesel was not detected in any of the five samples collected in the vicinity of the former boiler and above ground diesel tank.

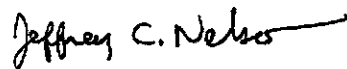
The concentrations of pesticides detected in surface soils were below site-specific cleanup concentrations established by the ACHCSA. TPH as diesel was not detected in the surface soil samples collected in the vicinity of the former boiler room and above ground diesel tank. Based on these results, it is our opinion that pesticides in surface soil at the site do not pose a threat to groundwater or human health. Therefore, Geomatrix recommends and requests approval for residential development of the remaining Sunnyside Nursery property.

Mr. Hugh Murphy
Hayward Fire Department
21 March 1994
Page 8

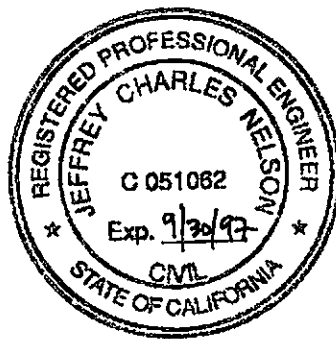
We look forward to discussing these sampling results and the request for site closure with you at the meeting scheduled for Tuesday, 22 March 1994. Please call either of the undersigned if you have any questions about this report or the site.

Sincerely,

GEOMATRIX CONSULTANTS, INC.


Jeffrey C. Nelson, P.E.
Project Engineer

JCN/TEG/lam
CONTR18863RSS.LTR



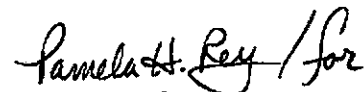

Tom Graf, P.E.
Principal Engineer

TABLE 1

**ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
COLLECTED 22 AND 23 NOVEMBER 1993**
Former Sunnyside Nursery
Hayward, California

(all concentrations in milligrams per kilogram [mg/kg])

Sample I.D.	Dieldrin	Endrin	DDT Family	Endosulfan Family	BHC Family	Heptachlor Epoxide
CONFIRMATION SAMPLES						
CNS-1	0.0021	ND	ND	ND	ND	ND
CNS-2	0.0012	0.0083	0.0036	0.029	ND	ND
CNS-3	0.0026	ND	0.014	ND	ND	ND
CNS-4	ND	ND	ND	ND	ND	ND
CHARACTERIZATION SAMPLES						
CRS-1	0.017	ND	0.084	0.113	0.0013	ND
CRS-2	0.001	ND	0.0037	ND	ND	ND
CRS-3	0.016	0.04	0.028	0.033	0.0012	ND
CRS-4	0.023	0.13	0.145	0.17	0.0034	ND
CRS-5	0.001	0.065	0.002	0.02	ND	ND
CRS-6	0.0059	0.14	0.041	0.0121	ND	ND
CRS-7	0.024	0.019	0.0676	0.0126	ND	ND
CRS-8	0.057	0.17	0.151	0.26	0.011	ND
CRS-9	0.024	0.013	0.085	0.078	0.0013	ND
CRS-10	0.027	0.15	0.199	0.043	0.0011	ND
CRS-11	0.062	0.032	0.027	0.0074	ND	ND
CRS-12	0.037	0.067	0.0466	0.0215	0.002	ND
CRS-13	ND	0.028	ND	0.022	ND	ND
CRS-14	0.014	0.089	0.0232	0.054	ND	ND
CRS-15	ND	0.015	0.014	ND	ND	ND
CRS-16	0.014	0.1	0.0436	0.018	ND	ND
CRS-17	0.055	0.039	0.226	ND	0.0079	ND
CRS-18	0.069	0.031	0.084	ND	ND	ND
SUPPLEMENTAL SAMPLES						
SS-1	0.0078	0.012	0.0849	0.027	ND	ND
SS-2	0.0012	ND	0.0038	0.193	ND	ND
SS-3	0.0026	ND	0.0071	ND	0.0338	ND
SS-4	0.0029	0.0011	0.0015	ND	ND	ND
SS-5	0.0037	0.0035	0.0737	ND	ND	ND
SS-6	0.0021	ND	0.0032	ND	ND	0.0018
SS-7	0.0065	ND	0.0054	ND	ND	ND
SS-8	ND	ND	ND	ND	ND	ND
SS-9	0.03	0.024	0.089	0.016	ND	0.0014

TABLE 1

ANALYTICAL RESULTS FOR SURFACE SOIL SAMPLES
 COLLECTED 22 AND 23 NOVEMBER 1993
 Former Sunnyside Nursery
 Hayward, California

(all concentrations in milligrams per kilogram [mg/kg])

Sample I.D.	Dieldrin	Endrin	DDT Family	Endosulfan Family	BHC Family	Heptachlor Epoxide
SUPPLEMENTAL SAMPLES (continued)						
SS-10	0.004	0.029	0.015	0.0415	ND	ND
SS-11	ND	ND	ND	ND	ND	ND
SS-12	0.0079	0.015	0.017	0.051	0.0016	ND
SS-13	0.0029	0.015	0.0017	0.056	ND	ND
SS-14	ND	ND	0.0078	ND	ND	ND
SS-15	0.018	0.044	0.114	ND	ND	ND
SS-16	0.0015	0.0074	ND	ND	ND	ND
SS-17	0.053	0.16	0.105	0.11	0.0036	ND
SS-18	0.0076	0.053	0.0179	0.0238	ND	ND
SS-19	0.015	0.0065	0.0172	ND	ND	ND
SS-20	0.03	0.031	0.054	0.007	ND	ND
SS-21	0.017	0.18	0.057	0.077	0.0014	0.001
SS-22	0.012	0.1	0.0357	0.032	ND	ND
SS-23	0.015	0.024	0.0245	ND	ND	ND
SS-24	0.0099	0.0033	0.004	0.0053	ND	ND

Pesticide results according to EPA Method 8080.

Method Detection Limits:

Dieldrin, Endrin, DDE, BHC compounds, and Heptachlor Epoxide = 0.001 mg/kg.

DDT, DDD, Endosulfan Family compounds = 0.005 mg/kg.

ND=compound not detected.

DDT Family = DDT+DDE+DDD

Endosulfan Family=ENDOS I+ENDOS II+ENDOS Sulfate.

DIESEL CHARACTERIZATION SAMPLES

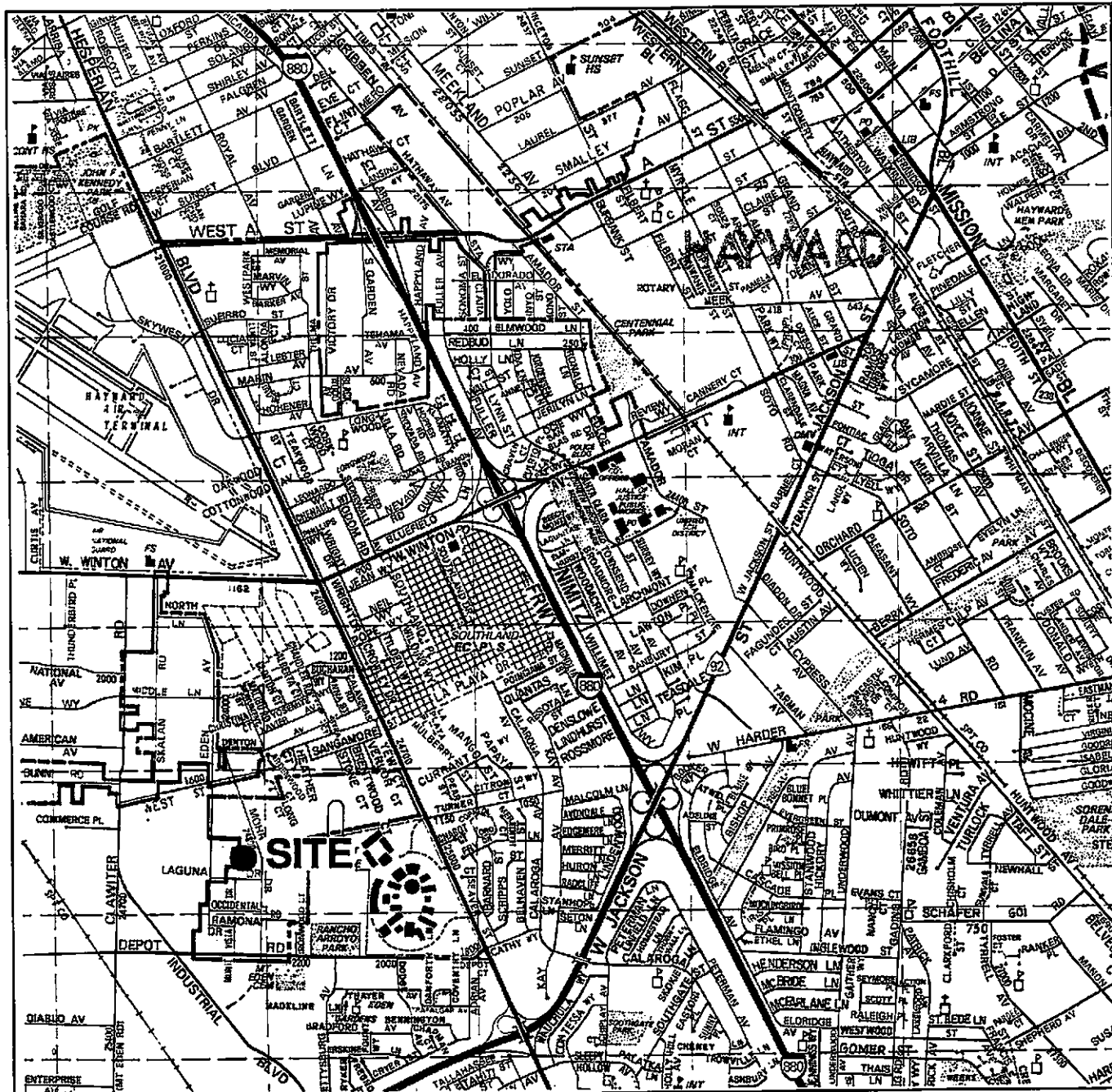
Sample I.D.	TPHd
DS-1	ND
DS-2	ND
DS-3	ND
DS-4	ND
DS-5	ND

TPHd results according to EPA Method 3550/8015.

TPHd = Total petroleum hydrocarbons as diesel.

Method Detection Limit:

TPHd = 1.0 mg/kg.

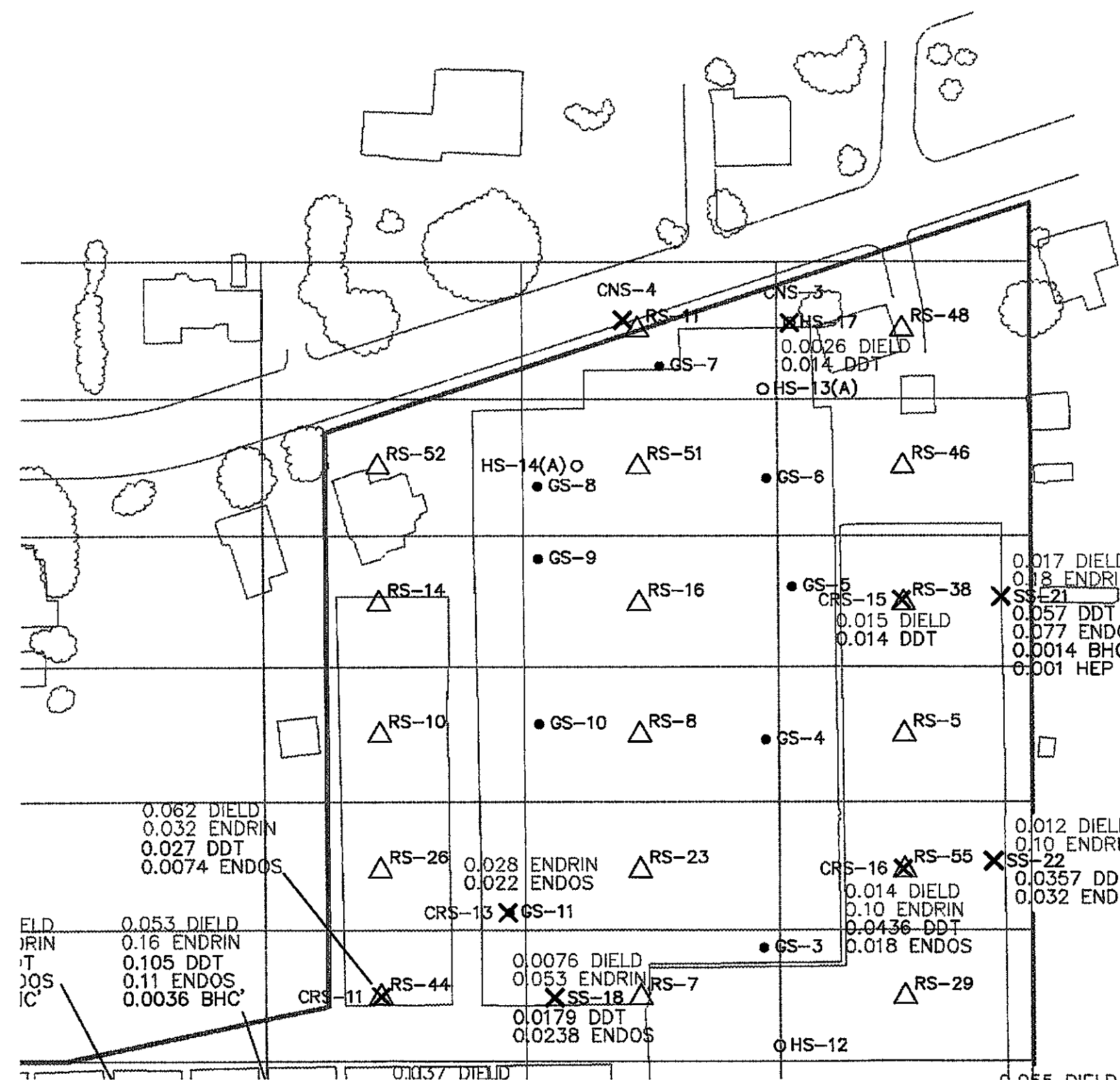


0 2200 Feet



SITE LOCATION MAP
Sunnyside Nursery
Hayward, California

Figure
 1
 Project No.
 1886.03



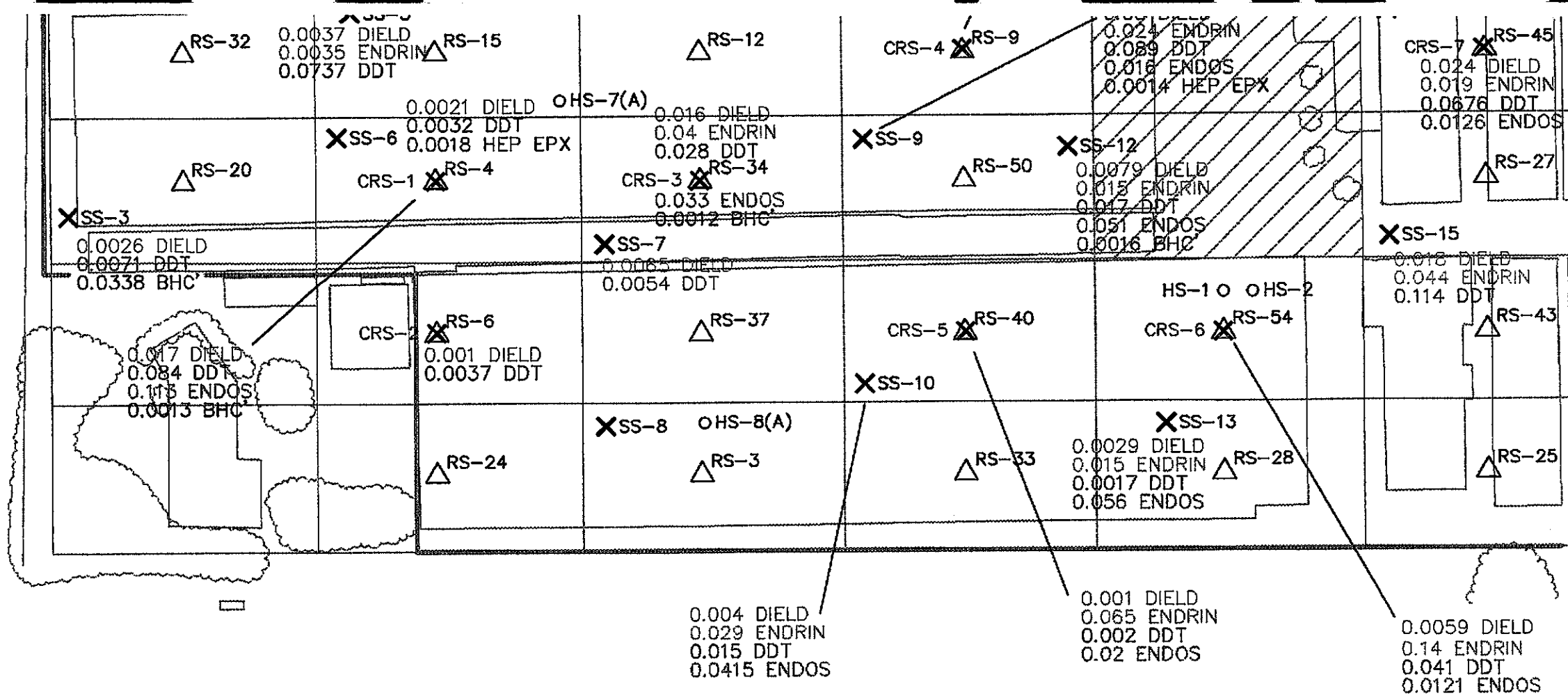
LEGEND

SOIL SAMPLE LOCATIONS WITH NO SPECIFIED CONCENTRATIONS INDICATES THAT NO PESTICIDES WERE DETECTED.

- HS-13(A) SURFACE (4" TO 10") TERRATECH SOIL SAMPLE - JANUARY 1989
- HS-3 NEAR SURFACE (12" TO 18") TERRATECH SOIL SAMPLE - FEBRUARY 1990
- △ RS-58 SURFACE (6" TO 12") TERRATECH SOIL SAMPLE - DECEMBER 1990 AND FEBRUARY 1991
- GS-7 SURFACE (6" TO 12") GEOMATRIX SOIL SAMPLE - OCTOBER 1991
- ▲ A-1 SURFACE (A-1, 0" TO 6") AND NEAR SURFACE (B-1, 18") GEOMATRIX SOIL SAMPLE - AUGUST 1992
- B-1 SURFACE (B-1, 0" TO 6") AND NEAR SURFACE (NS-1, 6" TO 12") GEOMATRIX SOIL SAMPLE - JANUARY/FEBRUARY 1993

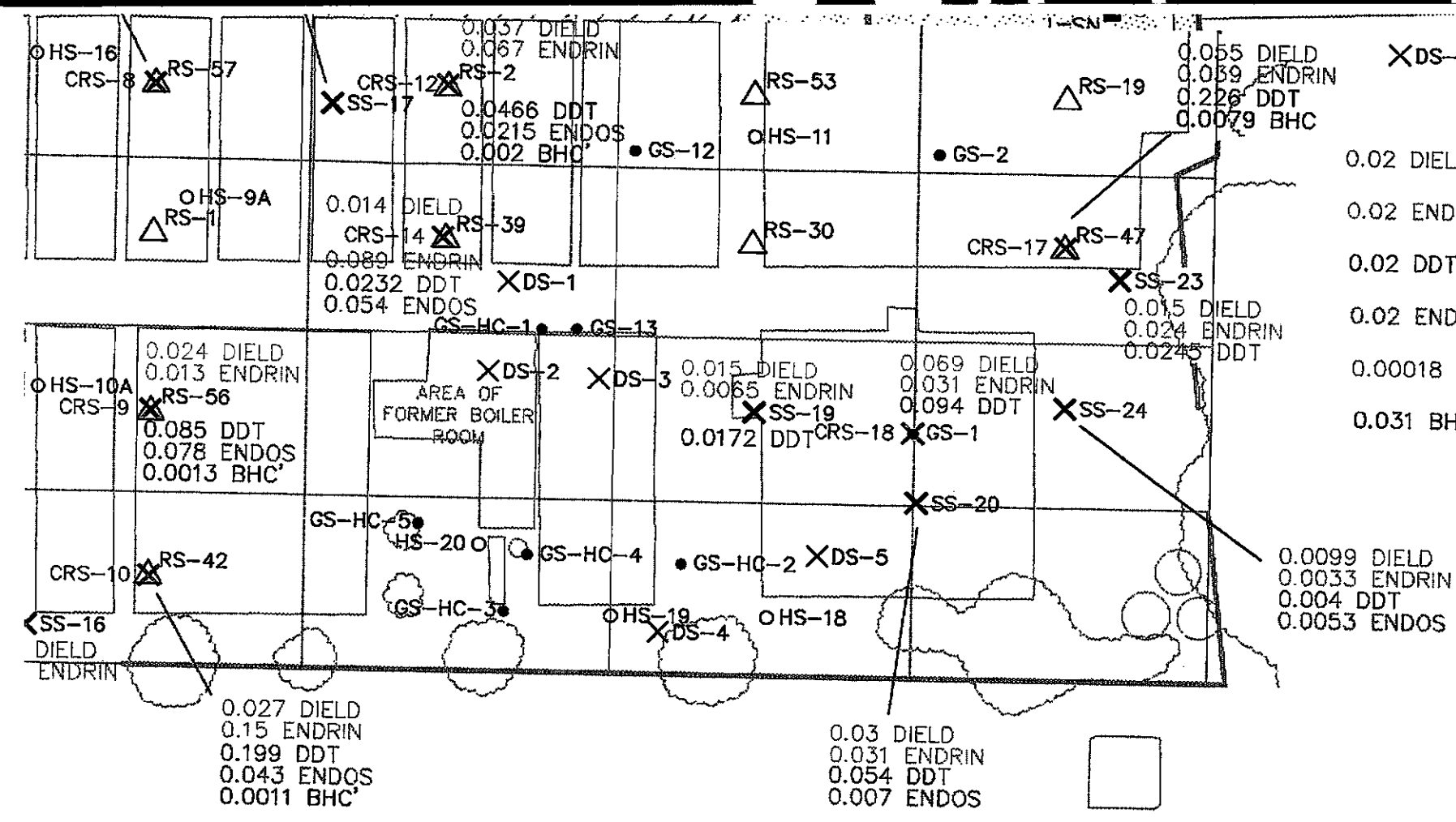
- PROPERTY BOUNDARY
- ▨ AREA EXCLUDED FROM SAMPLING BECAUSE AREA WAS PAVED AND/OR RECEIVED NO PESTICIDE APPLICATION
- ▤ TRACTS ALREADY DEVELOPED

- × CNS-1 CONFIRMATION SOIL SAMPLING LOCATION (2 SAMPLES [3" TO 6" AND 6" TO 12" BGS] PER LOCATION FOR PESTICIDE ANALYSIS USING EPA METHOD 8080)
- × CRS-1 CHARACTERIZATION SOIL SAMPLING LOCATION (2 SAMPLES [3" TO 6" AND 6" TO 12" BGS] PER LOCATION FOR PESTICIDE ANALYSIS USING EPA METHOD 8080)
- × SS-1 SUPPLEMENTAL SOIL SAMPLING LOCATION (2 SAMPLES [3" TO 6" AND 6" TO 12" BGS] PER LOCATION FOR PESTICIDE ANALYSIS USING EPA METHOD 8080)
- × SS-1 DIESEL CHARACTERIZATION SOIL SAMPLING LOCATION



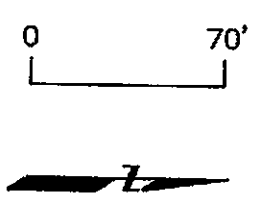
NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY	Approval:

Date:



DIESEL CHARACTERIZATION SOIL SAMPLING LOCATION
 (2 SAMPLES [3" TO 6" AND 6" TO 12" BGS] PER LOCATION
 FOR TPH-DIESEL ANALYSIS USING EPA METHOD 8015-MODIFIED)

0.02 DIELD CONCENTRATION IN mg/kg OF DIELDRIN
 0.02 ENDRIN CONCENTRATION IN mg/kg OF ENDRIN
 0.02 DDT CONCENTRATION IN mg/kg OF TOTAL DDT FAMILY COMPOUNDS
 0.02 ENDOS CONCENTRATION IN mg/kg OF TOTAL ENDOSULFAN FAMILY COMPOUNDS
 0.00018 HEP EPX CONCENTRATION IN mg/kg OF HEPTACHLOR EPOXIDE
 0.031 BHC CONCENTRATION IN mg/kg OF BHC α + BHC β + BHC γ (LINDANE)



GEOMATRIX

Geomatrix Consultants, Inc.
 100 Pine Street, 10th Floor
 San Francisco, CA 94111

Sunnyside Nursery
 Hayward, California

**SUPPLEMENTAL SOIL SAMPLING
 ANALYTICAL RESULTS**

1886.03
Project No.
1
Sheet

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 14, 1993

Mr. Jeff Nelson
Geomatrix Consultants
100 Pine Street, Suite 1000
San Francisco, CA 94111

Dear Mr. Nelson:

As you requested, I am sending you this letter regarding pesticide analyses (EPA 8080) performed by our laboratory on your soil samples, Project Number 1886.03, ChromaLab File Number 9311296. Our analyst followed the protocol required by the State of California. Our accuracy and precision was well within limits. In addition, the surrogate recoveries for each of the samples were close to 100%.

As a check on our original data, our chemist re-extracted and re-ran one sample. The results were nearly the same. I am enclosing the comparative results.

A Level II Report is included with the basic reportables in this file. This means accuracy, precision, surrogate recovery, blank, and blank spike data will be included. Surrogate spikes are organic spikes representative of the analytes but not one on the list. They are a means of determining if the run on a particular sample was acceptable. Every sample is spiked with a surrogate in the EPA 8080 series.

In summary, the QA/QC data for this file is excellent. EPA 8080 is a difficult test, and the analyst has always performed very well for EPA test studies as well as ERA test samples and audits. I feel very confident with the data reported. If you have further questions, please feel free to call me.

Sincerely,
ChromaLab, Inc.



Jill Thomas
Quality Assurance Manager

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 13, 1993

GEOMATRIX CONSULTANTS

File number: 9311296

Attention: Gregory R. Kamman

Project Name:

Project No: 1886.03


REPORTING INFORMATION

Sample was received preserved and in good condition on November 24, 1993, refrigerated on receipt, and analyzed on the date shown on the attached report. The EPA methodology or equivalent methods followed are listed in the enclosed analytical schedule.

No discrepancies were observed or difficulties encountered with the analysis.



Jill Thomas
Quality Assurance Officer



Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

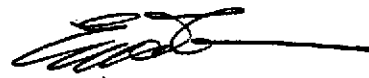
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CNS-1-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.1	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.


Alex Tam
Analytical Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CNS-2-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	1.2	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	8.3	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	3.6	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	29	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.


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Eric Tam
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Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CNS-3-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.6	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	14	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CNS-4-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A

Project Number: 1886.03

Method of Analysis: EPA 8080

Matrix: soil

Date Sampled: November 22, 1993 Date Submitted: November 24, 1993

Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993


Dilution Factor: None

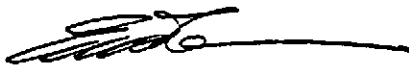
Sample I.D.: CRS-1-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration (µg/kg)</u>	<u>Reporting Detection Limit (µg/kg)</u>
ALDRIN	N.D.	1
DIELDRIN	17	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	47	5
p,p' - DDE	37	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	55	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	1.3	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	58	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
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GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-2-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	1.0	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	3.7	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Submission #: 9311000296


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Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-3-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	16	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	40	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	14	5
p,p' - DDE	14	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	1.2	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	33	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-4-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	23	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	130	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	140	5
p,p' - DDE	5.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	3.4	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	170	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-5-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIIN	1.0	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	65	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	2.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	20	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-6-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	5.9	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	140	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	22	5
p,p' - DDE	19	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	6.1	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	6.0	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-7-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	24	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	19	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	46	5
p,p' - DDE	9.6	1
p,p' - DDD	12	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	6.8	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	5.8	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-7-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	24	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	19	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	46	5
p,p' - DDE	9.6	1
p,p' - DDD	12	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	6.8	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	5.8	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-8-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	57	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	170	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	110	5
p,p' - DDE	41	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	120	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	11	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	140	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-9-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration (µg/kg)</u>	<u>Reporting Detection Limit (µg/kg)</u>
ALDRIN	N.D.	1
DIELDRIN	24	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	13	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	81	5
p,p' - DDE	4.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	1.3	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	78	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-10-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	27	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	150	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	79	5
p,p' - DDE	120	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	1.1	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	43	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Submission #: 9311000296

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Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-11-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	62	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	32	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	14	5
p,p' - DDE	13	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	7.4	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-12-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	37	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	67	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	42	5
p,p' - DDE	4.6	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	6.5	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	2.0	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	15	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.



Alex Tam
Analytical Chemist



Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-13-0.5'

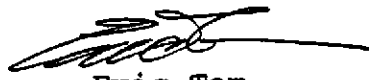
CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	28	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	22	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-14-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	14	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	89	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	18	5
p,p' - DDE	5.2	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	33	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	21	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

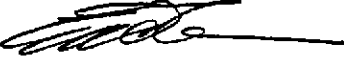
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-15-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	15	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	14	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

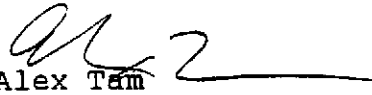
GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 29, 1993
Dilution Factor: None
Sample I.D.: CRS-16-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	14	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	100	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	26	5
p,p' - DDE	12	1
p,p' - DDD	5.6	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	18	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-17-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	55	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	39	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	140	5
p,p' - DDE	86	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	3.7	1
γ - BHC (LINDANE)	4.2	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: CRS-18-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	69	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	31	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	75	5
p,p' - DDE	9.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296

Submission #: 9311000296

GEOMATRIX CONSULTANTS

Attn: Gregory R. Kamman

Project Name: N/A

Project Number: 1886.03

Method of Analysis: EPA 8080

Matrix: soil

Date Sampled: November 22, 1993 Date Submitted: November 24, 1993

Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993

Dilution Factor: None

Sample I.D.: SS-1-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	7.8	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	12	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	9.9	5
p,p' - DDE	63	1
p,p' - DDD	12	5
ENDOSULFAN I	11	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	16	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

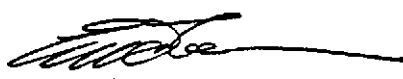
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-2-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	1.2	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	3.8	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	63	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	130	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.


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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 18, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-3-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.6	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	5.5	5
p,p' - DDE	1.6	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	1.7	1
β - BHC	31	1
γ - BHC (LINDANE)	1.1	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

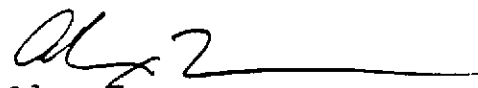
GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 18, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-4-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.9	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	1.1	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	1.5	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296

Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 18, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-5-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration (µg/kg)</u>	<u>Reporting Detection Limit (µg/kg)</u>
ALDRIN	N.D.	1
DIELDRIN	3.7	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	3.5	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	8.7	5
p,p' - DDE	65	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 18, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-6-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.1	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	1.8	1
p,p' - DDT	N.D.	5
p,p' - DDE	3.2	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-8-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

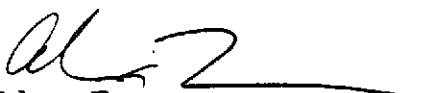
GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-10-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	4.0	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	29	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	15	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	7.5	5
ENDOSULFAN II	15	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	19	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.


Alex Tam
Analytical Chemist


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-8-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-9-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	30	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	24	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	1.4	1
p,p' - DDT	38	5
p,p' - DDE	51	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	16	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296

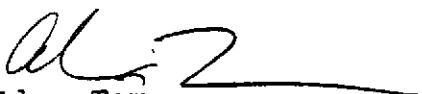
GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

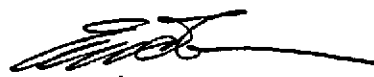
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: November 30, 1993
Dilution Factor: None
Sample I.D.: SS-10-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	4.0	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	29	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	15	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	7.5	5
ENDOSULFAN II	15	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	19	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

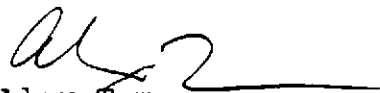
GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-11-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

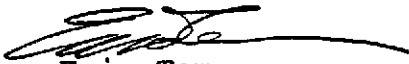
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-12-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	7.9	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	15	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	15	5
p,p' - DDE	2.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	1.6	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	51	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-13-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	2.9	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	15	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	1.7	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	56	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-14-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	6.4	5
p,p' - DDE	1.4	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: 1:10
Sample I.D.: SS-15-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	10
DIELDRIN	18	10
ENDRIN ALDEHYDE	N.D.	50
ENDRIN	44	10
HEPTACHLOR	N.D.	10
HEPTACHLOR EPOXIDE	N.D.	10
p,p' - DDT	100	50
p,p' - DDE	14	10
p,p' - DDD	N.D.	50
ENDOSULFAN I	N.D.	50
ENDOSULFAN II	N.D.	50
α - BHC	N.D.	10
β - BHC	N.D.	10
γ - BHC (LINDANE)	N.D.	10
δ - BHC	N.D.	10
ENDOSULFAN SULFATE	N.D.	50
p,p' - METHOXYCHLOR	N.D.	50
TOXAPHENE	N.D.	50
PCB'S	N.D.	50
CHLORDANE	N.D.	50

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-16-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration (ug/kg)</u>	<u>Reporting Detection Limit (ug/kg)</u>
ALDRIN	N.D.	1
DIELDRIN	1.5	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	7.4	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-17-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	53	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	160	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
P,p' - DDT	87	5
P,p' - DDE	18	1
P,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	3.6	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	110	5
P,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

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Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-18-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	7.6	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	53	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	5.5	5
p,p' - DDE	3.4	1
p,p' - DDD	9.0	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	8.8	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	15	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

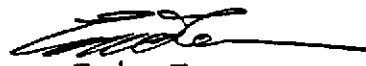
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 22, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-19-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	15	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	6.5	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	16	5
p,p' - DDE	1.2	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-20-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	30	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	31	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	40	5
p,p' - DDE	14	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	7.0	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-21-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	17	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	180	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	1.0	1
p,p' - DDT	27	5
p,p' - DDE	30	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	1.4	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	77	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

ChromaLab, Inc.



Alex Tam
Analytical Chemist



Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

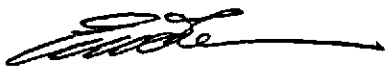
Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-22-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	12	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	100	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	28	5
p,p' - DDE	7.7	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	32	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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5 DAYS TURNAROUND

December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296

GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman

Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-23-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	15	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	24	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	19	5
p,p' - DDE	5.5	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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December 8, 1993

ChromaLab File No.: 9311296
Submission #: 9311000296


GEOMATRIX CONSULTANTS
Attn: Gregory R. Kamman


Project Name: N/A
Project Number: 1886.03
Method of Analysis: EPA 8080 Matrix: soil
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993
Date Extracted: November 29, 1993 Date Analyzed: December 1, 1993
Dilution Factor: None
Sample I.D.: SS-24-0.5'

CHLORINATED PESTICIDE ANALYSIS

<u>Compounds</u>	<u>Concentration ($\mu\text{g}/\text{kg}$)</u>	<u>Reporting Detection Limit ($\mu\text{g}/\text{kg}$)</u>
ALDRIN	N.D.	1
DIELDRIN	9.9	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	3.3	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	4.0	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	5.3	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

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Environmental Laboratory (1094)

5 DAYS TURNAROUND

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

Date: December 13, 1993 File number: 9311296
Client: GEOMATRIX CONSULTANTS Method: Chlorinated Pesticides
Project Number: 1886.03 Method number: EPA 8080
Date Analyzed: November 30, 1993 Matrix: Soil

BLANK RESULT:

<u>Compounds</u>	<u>Result</u> <u>(μg/Kg)</u>	<u>Reporting Limit</u> <u>(μg/Kg)</u>
ALDRIN	N.D.	1
DIELDRIN	N.D.	1
ENDRIN ALDEHYDE	N.D.	5
ENDRIN	N.D.	1
HEPTACHLOR	N.D.	1
HEPTACHLOR EPOXIDE	N.D.	1
p,p' - DDT	N.D.	5
p,p' - DDE	N.D.	1
p,p' - DDD	N.D.	5
ENDOSULFAN I	N.D.	5
ENDOSULFAN II	N.D.	5
α - BHC	N.D.	1
β - BHC	N.D.	1
γ - BHC (LINDANE)	N.D.	1
δ - BHC	N.D.	1
ENDOSULFAN SULFATE	N.D.	5
p,p' - METHOXYCHLOR	N.D.	5
TOXAPHENE	N.D.	5
PCB'S	N.D.	5
CHLORDANE	N.D.	5

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

Date: December 13, 1993
 Client: GEOMATRIX CONSULTANTS
 Project Number: 1886.03
 Date Analyzed: November 30, 1993

File number: 9311296
 Method: Chlorinated Pesticides
 Method number: EPA 8080
 Matrix: Soil

MS/MSD

SAMPLE SPIKED:

BLANK SPIKE 1

PARAMETER	UNITS	BLANK RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC
Aldrin	µg/Kg	N.D.	3.33	3.20	96
Heptachlor Epoxide	µg/Kg	N.D.	3.33	3.13	94
α-BHC	µg/Kg	N.D.	3.33	3.26	98
DDE	µg/Kg	N.D.	3.33	3.20	96
DDD	µg/Kg	N.D.	3.33	3.26	98
DDT	µg/Kg	N.D.	3.33	3.23	97

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration

RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

Date: December 13, 1993
 Client: GEOMATRIX CONSULTANTS
 Project Number: 1886.03
 Date Analyzed: November 30, 1993

File number: 9311296
 Method: Chlorinated Pesticides
 Method number: EPA 8080
 Matrix: Soil

MS/MSD

SAMPLE SPIKED:

BLANK SPIKE 2

PARAMETER	UNITS	BLANK RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC
Aldrin	µg/Kg	N.D.	1.67	1.72	103
Heptachlor Epoxide	µg/Kg	N.D.	1.67	1.49	89
α-BHC	µg/Kg	N.D.	1.67	1.58	95
DDE	µg/Kg	N.D.	1.67	1.67	100
DDD	µg/Kg	N.D.	1.67	1.89	113
DDT	µg/Kg	N.D.	1.67	1.60	96

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration
 RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

PAGE 3

Date: December 13, 1993 File number: 9311296
Client: GEOMATRIX CONSULTANTS Method: Chlorinated Pesticides
Project Number: 1886.03 Method number: EPA 8080
Date Analyzed: November 30, 1993 Matrix: Soil

SURROGATE RECOVERIES

Sample	2,4,5,6- TETRACHLORO- XYLENE %	Sample	2,4,5,6- TETRACHLORO- XYLENE %
BLANK 1	103	SS-1-0.5'	95.5
BLANK SPIKE 1	92.1	SS-2-0.5'	99.0
BLANK 2	94.8	SS-3-0.5'	104
BLANK SPIKE 2	103	SS-4-0.5'	99.4
BLANK 3	102	SS-5-0.5'	99.4
BLANK SPIKE 3	106	SS-6-0.5'	98.8
		SS-7-0.5'	105
CNS-1-0.5'	96.1	SS-8-0.5'	93.3
CNS-2-0.5'	96.6	SS-9-0.5'	103
CNS-3-0.5'	98.6	SS-10-0.5'	97.2
CNS-4-0.5'	101	SS-11-0.5'	103
CRS-1-0.5'	97.6	SS-12-0.5'	101
CRS-2-0.5'	97.8	SS-13-0.5'	90.1
CRS-3-0.5'	94.0	SS-14-0.5'	92.2
CRS-4-0.5'	90.8	SS-15-0.5'	102
CRS-5-0.5'	94.2	SS-16-0.5'	92.3
CRS-6-0.5'	100	SS-17-0.5'	97.0
CRS-7-0.5'	96.8	SS-18-0.5'	96.6
CRS-8-0.5'	97.4	SS-19-0.5'	95.5
CRS-9-0.5'	97.0	SS-20-0.5'	93.0
CRS-10-0.5'	103	SS-21-0.5'	96.6
CRS-11-0.5'	101	SS-22-0.5'	103
CRS-12-0.5'	99.0	SS-23-0.5'	91.9
CRS-13-0.5'	104	SS-24-0.5'	94.1
CRS-14-0.5'	105	SS-25-0.5'	94.8
CRS-15-0.5'	95.0		
CRS-16-0.5'	90.7	SS-5-0.5' MS	96.1
CRS-17-0.5'	94.9	SS-5-0.5' MSD	101
CRS-18-0.5'	93.2		
CRS-19-0.5'	95.9	CRS-16-0.5' MS	93.3
CRS-20-0.5'	92.3	CRS-16-0.5' MSD	104

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

Date: December 13, 1993
 Client: GEOMATRIX CONSULTANTS
 Project Number: 1886.03
 Date Analyzed: November 30, 1993

File number: 9311296
 Method: Chlorinated Pesticides
 Method number: EPA 8080
 Matrix: Soil

MS/MSD SAMPLE SPIKED: SS-5-0.5'*

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD %	RPD LIMIT %
Aldrin	µg/Kg	N.D.	1.67	1.79	107	2.04	122	70-140	13	30
Heptachlor Epoxide	µg/Kg	N.D.	1.67	1.69	101	1.29	77	70-140	27	30
α-BHC	µg/Kg	N.D.	1.67	1.70	102	1.62	97	70-140	5.0	30

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration
 RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

* If an analyte in a sample exceeds five times the spike amount, an accurate spike recovery cannot be reported. Therefore, the reportable analytes spiked may vary.

CHLORINATED PESTICIDE REPORT-QUALITY CONTROL

Date: December 13, 1993
 Client: GEOMATRIX CONSULTANTS
 Project Number: 1886.03
 Date Analyzed: November 30, 1993

File number: 9311296
 Method: Chlorinated Pesticides
 Method number: EPA 8080
 Matrix: Soil

MS/MSD

SAMPLE SPIKED:

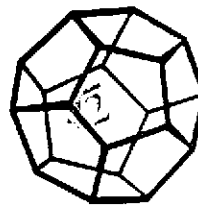
CRS-16-0.5'*

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD %	RPD LIMIT %
Aldrin	µg/Kg	N.D.	1.67	1.74	104	1.95	117	70-140	12	30
Heptachlor Epoxide	µg/Kg	N.D.	1.67	1.54	92	1.67	100	70-140	8.3	30
α-BHC	µg/Kg	N.D.	1.67	1.67	100	1.74	104	70-140	3.9	30

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration

RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

* If an analyte in a sample exceeds five times the spike amount, an accurate spike recovery cannot be reported. Therefore, the reportable analytes spiked may vary.



Date: 12/15/93
Work Order: 93-12-031
Invoice #: 60034455

REPORT

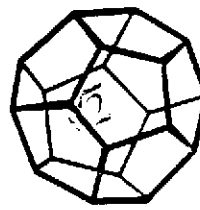
Page 2 of 5

SAMPLE ID: CRS-3-0.5 FRAC.: 01A COLLECTED: 11/22/93 RECEIVED: 12/01/93

<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							EPA632
Oxamyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methomyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fenuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Monuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Propoxur	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbofuran	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbaryl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fluometuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Diuron	ND	0.60	ug/g	1.0	12/02/93	12/13/93	EPA632
Propham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methiocarb	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Siduron	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Linuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Sweep	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Chlorpropham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Barbane	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Neburon	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632

SAMPLE ID: CRS-9-0.5 FRAC.: 02A COLLECTED: 11/22/93 RECEIVED: 12/01/93

<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							EPA632
Oxamyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methomyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fenuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Monuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Propoxur	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbofuran	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbaryl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fluometuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Diuron	ND	1.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Propham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methiocarb	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Siduron	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Linuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Sweep	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Chlorpropham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632



Date: 12/15/93
Work Order: 93-12-031
Invoice #: 60034455

REPORT

Page 3 of 5

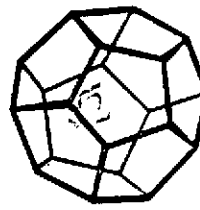
<u>PARAMETER</u>	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>	<u>DIL. FACTOR</u>	<u>EXTRACTED</u>	<u>RUN</u>	<u>METHOD</u>
Barbane	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Neburon	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632

SAMPLE ID: CRS-10-0.5 FRAC.: 03A COLLECTED: 11/22/93 RECEIVED: 12/01/93

<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							EPA632
Oxamyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methomyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fenuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Monuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Propoxur	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbofuran	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbaryl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fluometuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Diuron	ND	0.40	ug/g	1.0	12/02/93	12/13/93	EPA632
Propham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methiocarb	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Siduron	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Linuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Sweb	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Chlorpropham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Barbane	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Neburon	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632

SAMPLE ID: CRS-14-0.5 FRAC.: 04A COLLECTED: 11/22/93 RECEIVED: 12/01/93

<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							EPA632
Oxamyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methomyl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fenuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Monuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Propoxur	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbofuran	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Carbaryl	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Fluometuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Diuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Propham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Methiocarb	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632



Date: 12/15/93
Work Order: 93-12-031
Invoice #: 60034455

REPORT

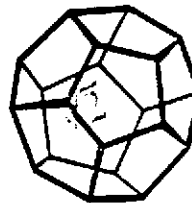
PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
Siduron	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Linuron	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Swep	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632
Chlorpropham	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Barbane	ND	2.0	ug/g	1.0	12/02/93	12/13/93	EPA632
Neburon	ND	0.20	ug/g	1.0	12/02/93	12/13/93	EPA632

SAMPLE ID: Blank FRAC.: 05A COLLECTED: N/A RECEIVED: 12/01/93

PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
632 - Soil							EPA632
Oxamyl	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Methomyl	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Fenuron	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Monuron	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Propoxur	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Carbofuran	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Carbaryl	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Fluometuron	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Diuron	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Propham	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Methiocarb	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Siduron	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Linuron	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Swep	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632
Chlorpropham	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Barbane	ND	2.0	ug/g	1.0	12/02/93	12/10/93	EPA632
Neburon	ND	0.20	ug/g	1.0	12/02/93	12/10/93	EPA632

SAMPLE ID: Lab. Control Sample FRAC.: 06A COLLECTED: N/A RECEIVED: 12/01/93

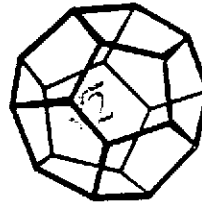
PARAMETER	RESULT	LIMIT	UNITS	DIL. FACTOR	EXTRACTED	RUN	METHOD
632 - Soil							EPA632
Oxamyl	92.9	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Methomyl	97.7	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Fenuron	88.8	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Monuron	92.2	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Propoxur	93.2	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Carbofuran	96.5	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Carbaryl	108	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632



Date: 12/15/93
Work Order: 93-12-031
Invoice #: 60034455

REPORT

<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>
Fluometuron	91.2	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Diuron	94.8	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Propham	91.4	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Methiocarb	94.4	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Siduron	101	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Linuron	92.6	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Swep	89.7	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Chlorpropham	91.7	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Barbane	95.6	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632
Neburon	87.4	N/A	% Rec	1.0	12/02/93	12/10/93	EPA632



Date: 12/15/93

REPORT

Page 1 of 5

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

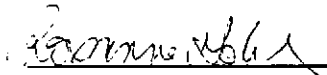
WORK ORDER 93-12-031

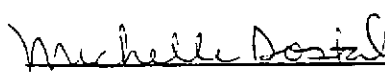
INVOICE # 60034455


Attn: Eric Tam

WORK ID: CRS-3/CRS-9/CRS-10/CRS-14

REPORT CERTIFIED BY


Laboratory Supervisor(s)


QA Officer


Jesse G. Chaney, Jr.
Laboratory Director

SAMPLE IDENTIFICATION

<u>Fraction</u>	<u>Sample Description</u>	<u>Comments:</u>
01	CRS-3-0.5	
02	CRS-9-0.5	The diuron detection limit for samples 01A, 02A and 04A was
03	CRS-10-0.5	raised due to the presence of a peak which eluted at the same
04	CRS-14-0.5	retention time as diuron.
05	Blank	
06	Lab. Control Sample	<u>Notes and Definitions:</u>

Limit = Detection Limit

ND = None Detected

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

December 2, 1993

ChromaLab File No.: 9311296

GEOMATRIX CONSULTANTS

Attn: Gregory R. Kamman

RE: Six soil samples for Diesel analysis

Project Number: 1886.03

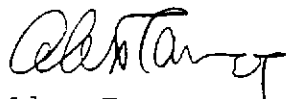
Date Sampled: November 23, 1993 Date Submitted: November 24, 1993

Date Extracted: November 29, 1993 Date Analyzed: November 29, 1993

RESULTS:

<u>Sample I.D.</u>	<u>Diesel (mg/Kg)</u>
DS-1-0.5	N.D.
DS-2-0.5	N.D.
DS-3-0.5	N.D.
DS-4-0.5	N.D.
DS-5-0.5	N.D.
DS-6-0.5	N.D.
BLANK	N.D.
SPIKE RECOVERY	82%
DUP SPIKE RECOVERY	84%
DETECTION LIMIT	1.0
METHOD OF ANALYSIS	3550/8015

ChromaLab, Inc.



Alex Tam
Analytical Chemist



Eric Tam
Laboratory Director

cc

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS-QUALITY CONTROL

Date: December 14, 1993
 Client: GEOMATRIX CONSULTANTS
 Project Number: 1886.03
 Date Analyzed: November 29, 1993

File number: 9311296
 Method: TEPH
 Method number: EPA 8015
 Matrix: Soil

MS/MSD

Sample spiked: DS-6-0.5

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP % REC	CONTROL LIMITS	RPD	RPD LIMIT %
Diesel	mg/Kg	N.D.	7.44	6.10	82	6.25	84	70/120	2.4	20

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration

RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS-QUALITY CONTROL page 2

Date: December 14, 1993
Client: GEOMATRIX CONSULTANTS
Project Number: 1886.03
Date Analyzed: November 29, 1993

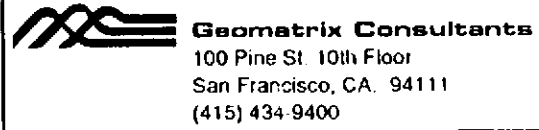
File number: 9311296
Method: TEPH
Method number: EPA 8015
Matrix: Soil

SURROGATE RECOVERIES

Sample	o-Terphenyl %
Blank	83
DS-6-0.5	95
DS-6-0.5 MS	91
DS-6-0.5 MSD	90
DS-1-0.5	86
DS-2-0.5	90
DS-3-0.5	81
DS-4-0.5	93
DS-5-0.5	103

9311296

Chain-of-Custody Record			No 5751		Date 11/23/93		Page 2 of 10									
Project No.: 1886.03			ANALYSES							REMARKS						
Samplers (Signatures): <i>Gregory R. Kamma</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	EPA 8080	EPA 632	Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments
Date	Time	Sample Number														
11/22/93	15:05	CRS-9-0.5								X	X	X	S		1	See next page
11	15:10	CRS-10-0.5								X	X	X	S		1	
11	15:50	CRS-11-0.5								X		X	S		1	
11	15:00	CRS-12-0.5								X		X	S		1	
11	16:00	CRS-13-0.5								X		X	S		1	
11	15:30	CRS-14-0.5								X	X	X	S		1	
11/23/93	9:45	CRS-15-0.5								X		X	S		1	
11	9:50	CRS-16-0.5								X		X	S		1	
11	10:10	CRS-17-0.5								X		X	S		1	
11	10:45	CRS-18-0.5								X		X	S		1	
11	8:15	CRS-19-0.5								X		X	S		1	
11	8:30	CRS-20-0.5								X		X	S		1	
Turnaround time: Standard			Results to: Jeff Nelson			Total No. of containers: /										
Relinquished by: <i>Gregory R. Kamma</i>		Date: 11/23/93	Relinquished by:		Date: 11/23/93	Method of shipment: COURIER pickup		Laboratory comments and Log No.:								
Signature: <i>Gregory R. Kamma</i>			Signature:													
Printed name: Geomatrix			Printed name:													
Company:			Company:													
Received by:		Time: 1:25	Received by:		Time: 11:18	Received by: <i>B. Marzani</i>		Received by: <i>B. Marzani</i>								
Signature:			Signature:			Signature: <i>B. Marzani</i>		Signature: <i>B. Marzani</i>								
Printed name:			Printed name:			Printed name: <i>B. Marzani</i>		Printed name: <i>B. Marzani</i>								
Company:			Company:			Company: Geomatrix		Company: Geomatrix								




9311296

Chain-of-Custody Record No. **5753** Date: **11/23/93** Page **4** of **10**

Project No.: 1886.03			ANALYSES													REMARKS		
Samplers (Signatures): <i>Gregory R. Korman</i>			EPA Method 8010	EPA Method 8020	EPA Method 8240	EPA Method 8270	TPH as gasoline	TPH as diesel	TPH as BTEX	EPA 8080			Cooled	Soil (S) or water (W)	Acidified	Number of containers	Additional comments	
Date	Time	Sample Number																
11/22/93	13:50	SS-13-0.5											X	S		1	see next page	
11	14:15	SS-14-0.5											X	S		1		
11	14:00	SS-15-0.5											X	S		1		
11	15:25	SS-16-0.5											X	S		1		
11		SS-17-0.5											X	S		1		
11	16:10	SS-18-0.5											X	S		1		
11	16:20	SS-19-0.5											X	S		1		
11/23/93	11:00	SS-20-0.5											X	S		1		
11	9:30	SS-21-0.5											X	S		1		
11	9:40	SS-22-0.5											X	S		1		
11	10:00	SS-23-0.5											X	S		1		
11	10:40	SS-24-0.5											X	S		1		

Turnaround time: **Standard** Results to: **Jeff Nelson** Total No. of containers: **1**

Relinquished by: <i>Gregory R. Korman</i> Signature: <i>Gregory R. Korman</i> Printed name: <i>Gregory R. Korman</i> Company:	Date: 11/23/93	Relinquished by: Signature: Printed name: Company:	Date:	Relinquished by: Signature: Printed name: Company:	Date: 11-24-93	Method of shipment: courier pickup Laboratory comments and Log No:
Received by: Signature: Printed name: Company:	Time: 1:35	Received by: Signature: Printed name: Company:	Time:	Received by: <i>B. Marshall</i> Signature: <i>B. Marshall</i> Printed name: <i>B. Marshall</i> Company: <i>Chicoald</i>	Time: 10:18	 Geomatrix Consultants 100 Pine St. 10th Floor San Francisco, CA 94111 (415) 434-9400

9311296

Project No.: 1886.03
Samplers (Signatures): Gregory R. Kammann

Table with columns for ANALYSES (EPA Method 8010, EPA Method 8020, EPA Method 8240, EPA Method 8270, TPH as gasoline, TPH as diesel, TPH as BTEX, etc.) and REMARKS (Additional comments). Includes handwritten 'HOLD' and 'X' marks.

Table with columns: Date, Time, Sample Number. Contains 12 rows of sample data.

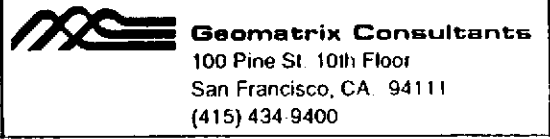
Turnaround time: Standard Results to: Jeff Nelson Total No. of containers: see next page

Relinquished by: Gregory R. Kammann
Signature: Gregory R. Kammann
Printed name: Geomatrix
Company: Geomatrix

Date: 11/23/93
Relinquished by:
Signature:
Printed name:
Company:

Date: 11-23-93
Relinquished by:
Signature:
Printed name:
Company:

Date: 11-23-93
Method of shipment: Currier pickup
Laboratory comments and Log No.:
Received by: B. Marrow
Signature: B. Marrow
Printed name: B. Marrow
Company: Chromalut



14 April 1994
Project 1886.03

Mr. Eddy So, P.E.
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Subject: Water Quality Assessment Workplan
Sunnyside Nursery Site
29434 Mohr Drive
Hayward, California

Dear Mr. So:

This letter presents a work plan to perform additional water quality characterization at the subject site, as you requested in a meeting held on 22 March 1994 at the offices of the Alameda County Health Care Services Agency (ACHCSA) with representatives of the ACHCSA, the Hayward Fire Department, and Geomatrix Consultants, Inc. (Geomatrix). This letter also provides available information you requested in that meeting regarding former pesticide mixing processes, the status of monitoring wells, and the status of a former water supply well reportedly destroyed at the site.

GROUNDWATER SAMPLING

As you requested, Geomatrix has developed a sampling plan to collect groundwater samples for laboratory analysis. Geomatrix has selected four locations at the site where we propose to collect grab groundwater samples (Sheet 1). These four locations are in areas where the highest concentrations of pesticides were previously detected in surface soil. One of these areas is located in the vicinity of the former pesticide storage area. The grab groundwater samples will be collected utilizing the Hydropunch or comparable drilling and sampling method. The four grab groundwater samples will be transported to a state-certified analytical laboratory under Geomatrix chain-of-custody protocols for analysis according to Environmental Protection Agency Method 8080 for organochlorine pesticides. Geomatrix will submit a letter report to you documenting the results of the groundwater sampling activities.

Mr. Eddy So, P.E.
California Regional Water Quality Control Board
14 April 1994
Page 2

FORMER PESTICIDE STORAGE AREA

A review of reports documenting initial site assessment and environmental investigation activities conducted by Terratech Inc. (Terratech), of San Jose, California, did not yield any specific information regarding pesticide "mixing" processes within the former Sunnyside Nursery. However, the pesticide storage area was identified during the review. The storage area was located within a building located in the southeastern portion of the site (Sheet 1). This building had a concrete floor.

MONITORING WELLS STATUS

As cited in our 7 February 1994 report entitled "Request for Case Closure, 25066 Dania Lane, Sunnyside Commons II Parcel, Hayward, California," Terratech installed four monitoring wells, MW-1 through MW-4, at the site in 1990 and early 1991 (Sheet 1). Terratech reportedly destroyed wells MW-3 and MW-4 on 24 June 1994 by drilling out the casings, seals, and gravel pack materials to the bottom of each well. Each hole was then filled with grout using a tremie line. Terratech reportedly destroyed well MW-2 on 15 September 1993 by pressure grouting. Terratech utilized pressure grouting because of drill rig accessibility limitations. A copy of Terratech's well destruction report is attached.

The top of well MW-1 was apparently inadvertently cut off during sub-excavation for development at the site. Terratech attempted to locate the well by excavating to a depth of 5 feet in the area where the well was located, but was unable to locate any well remains (see attached letter). On 5 April 1994, a Geomatrix engineer identified what appeared to be the top eight feet of casing of well MW-1 partially buried at the ground surface near the estimated position of the well; no other evidence of the well was observed. According to Mr. Jim Lindow of TerraSoft Inc. (TerraSoft), of Sunnyvale, California, a professional geophysical contractor, it is unlikely that the remains of well MW-1 could be located using conventional surface geophysical methods. Because well MW-1 was relatively shallow (25 feet) and has been capped by approximately eight feet of compacted soil, it is our opinion that the well remains pose a low risk to groundwater and that no further action regarding this former monitoring well is necessary.

FORMER WATER SUPPLY WELL

As described by our 7 February 1994 report entitled "Request for Case Closure, 25066 Dania Lane...", the former water supply well was destroyed by Terratech on 15 May 1990 according to Alameda County Flood Control and Water Conservation District (ACFCWCD) guidelines. The well consisted of 6-inch-diameter transit pipe to a depth of

Mr. Eddy So, P.E.
California Regional Water Quality Control Board
14 April 1994
Page 3

24 feet. The top of the well consisted of a three-foot by four-foot by four-foot-deep concrete pit connected to the top of the casing. In accordance with ACFCWCD guidelines, Terratech had the casing filled with pea gravel to a depth of three feet below the bottom of the pit. The top three feet of the casing were then filled with neat cement grout. The concrete pit was then jack-hammered out and the pit was backfilled with native soil and compacted.


Because the well casing is transit and the top of the casing is located several feet below the surface, Mr. Lindow believes it is unlikely that the former water supply well casing could be located using conventional surface geophysical methods. As the well is capped by four feet of compacted soil and has been sealed with a three-foot-long neat cement grout plug, it is our opinion that the well poses a low risk to groundwater and that no further action regarding this former water supply well is necessary.


Groundwater sampling will begin within two weeks of your approval of this workplan, depending on drilling subcontractor availability. It is our understanding that the information provided in this letter and analytical results from the groundwater sampling activities that are consistent with previous results will address your concerns regarding water quality at the subject site and facilitate site closure. If this understanding is not correct, please notify us as soon as possible.

Please contact either of the undersigned if you have any questions or require any more information regarding this work plan. We look forward to receiving your approval for the groundwater sampling. Thank you for your prompt attention to this matter.

Sincerely,

GEOMATRIX CONSULTANTS, INC.


Jeff Nelson, P.E.
Project Manager


Tom Graf, P.E.
Principal Engineer

JCN/TEG/bab
CONTR1886QUAL.LTR

cc: Ms. Madhulla Logan, ACHCSA
Mr. Hugh Murphy, Hayward Fire Department
Mr. Curtis Peterson, TPG Development



1865 WANDER WAY
7800 WESTWOOD DR., SUITE 100
12 THOMAS OWENS WAY
141 SUBURBAN DR., SUITE 101

SAN JOSE, CA 95112
GILROY, CA 95020
MONTEREY, CA 95040
SAN LEUIS OBISPO, CA 95041

(408) 297-0800
(408) 842-0238
(408) 372-3716
(805) 548-5499

FAX (408) 297-7716
FAX (408) 842-7014
FAX (408) 372-7481
FAX (805) 548-2748

November 17, 1993
Project 4454/5

Alameda County Water Resources Management
Zone 7
5997 Parkside Drive
Pleasanton, California 94588

Attention: Mr. Wyman Hong

Subject: Well Destructions
Sunnyside Commons II Site
Mohr Drive
Hayward, California

FILE COPY

Dear Mr. Hong:

This letter is to document the destruction of three monitoring wells at the above project site for TPG Development Corporation (formerly The Plymouth Group). Destruction was performed under Zone 7 permit #93344 (for wells #3S/2W 29F80 to 29F83; Terratech designation MW-1 through MW-4) issued on June 23, 1993. Destruction activities were performed by Exploration Geoservices (CS7 #424288) under Terratech's direction.

Wells MW-3 and MW-4 (see attached Site Plan) were destroyed on June 24, 1993 by drilling out the casings, seal and gravel pack materials to the bottom of each well. Each hole was then filled with grout using a tremie line.

Attempts were made to drill-out MW-2, however, recent on-site construction activities and the presence of a fire hydrant (constructed directly adjacent to the well after its installation) made drill rig access impossible. We discussed this problem with you and on August 5, 1993 you granted us permission to abandon this well by pressure-grouting. MW-2 was abandoned on September 15, 1993 using this method.

A construction worker informed us that the top of MW-1 apparently was removed inadvertently prior to Terratech's renewed involvement with the wells when 5 feet of soil in the area was sub-excavated. After careful measurements, we attempted to re-excavate the area around MW-1, however, were unable to locate any remains. This area subsequently was backfilled, compacted, and paved-over with a new street and gutter. While we are aware this is a less than ideal "abandonment" procedure, we believe that whatever remains of

November 17, 1993

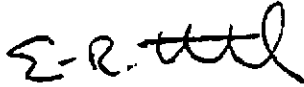
Project 4454/5

the well poses a low risk to ground water since it is shallow (25 feet), and has effectively been "capped" by about 5 feet of clean, compacted soil and pavement. The site's new use will be residential

If you have any questions regarding this project, please call me or Eric Lautenbach at (408) 297-6969.

Sincerely,

TERRATECH, INC.



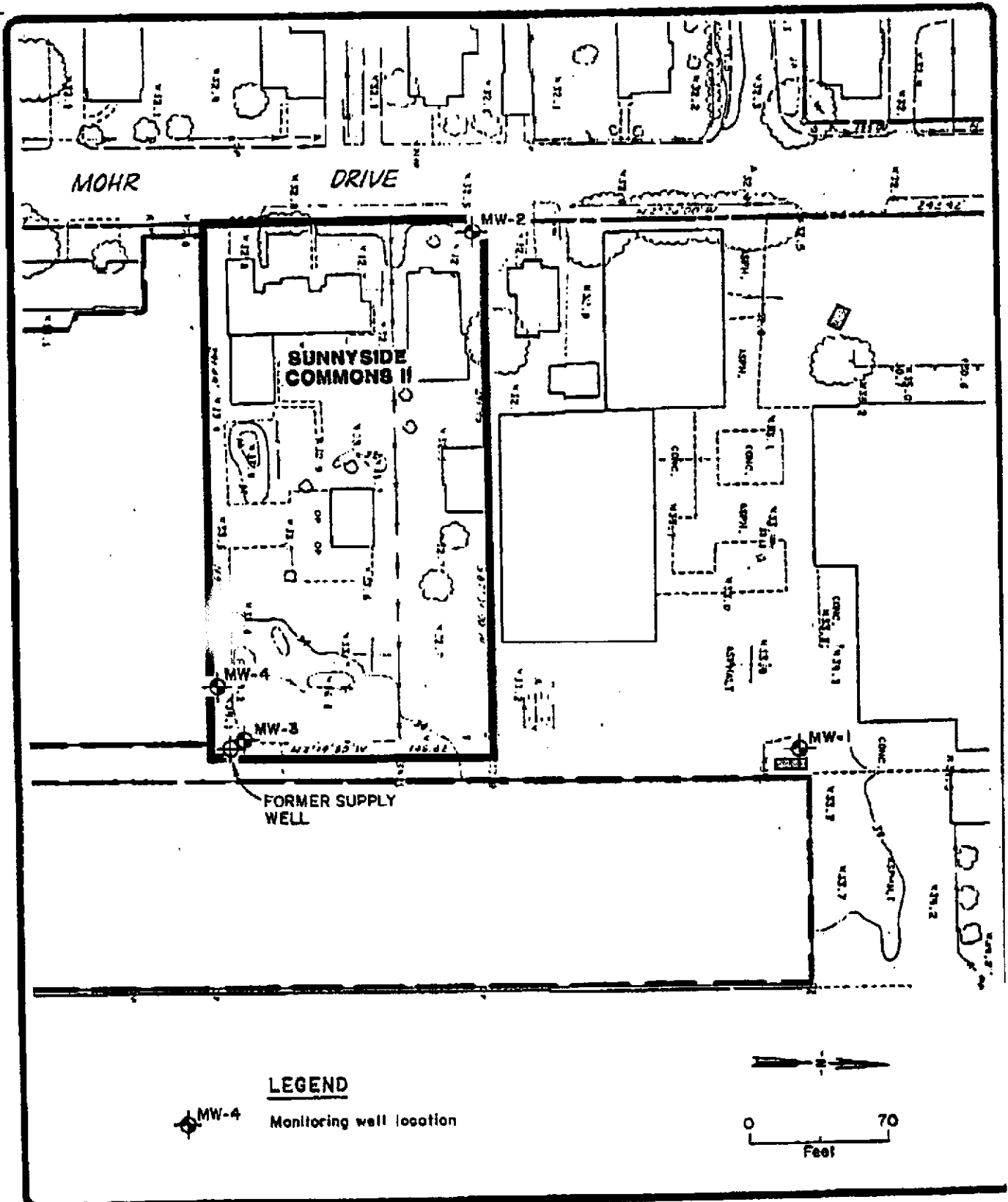
for/ Shiela M. Chrisley
Project Environmental Geologist

SMC/erl

Attachment (Site Plan)

cc: Curt Peterson, TPG Development Corporation



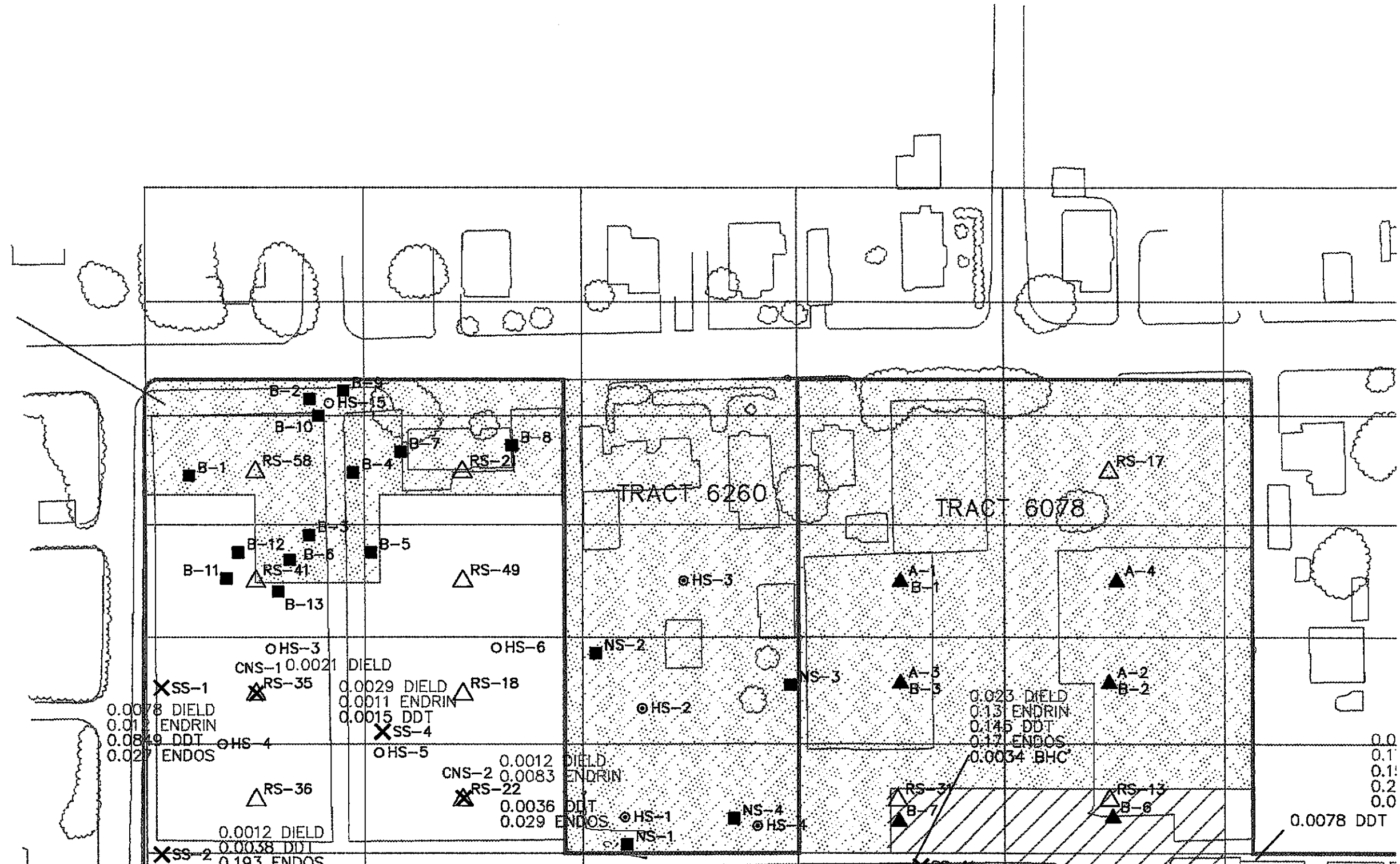


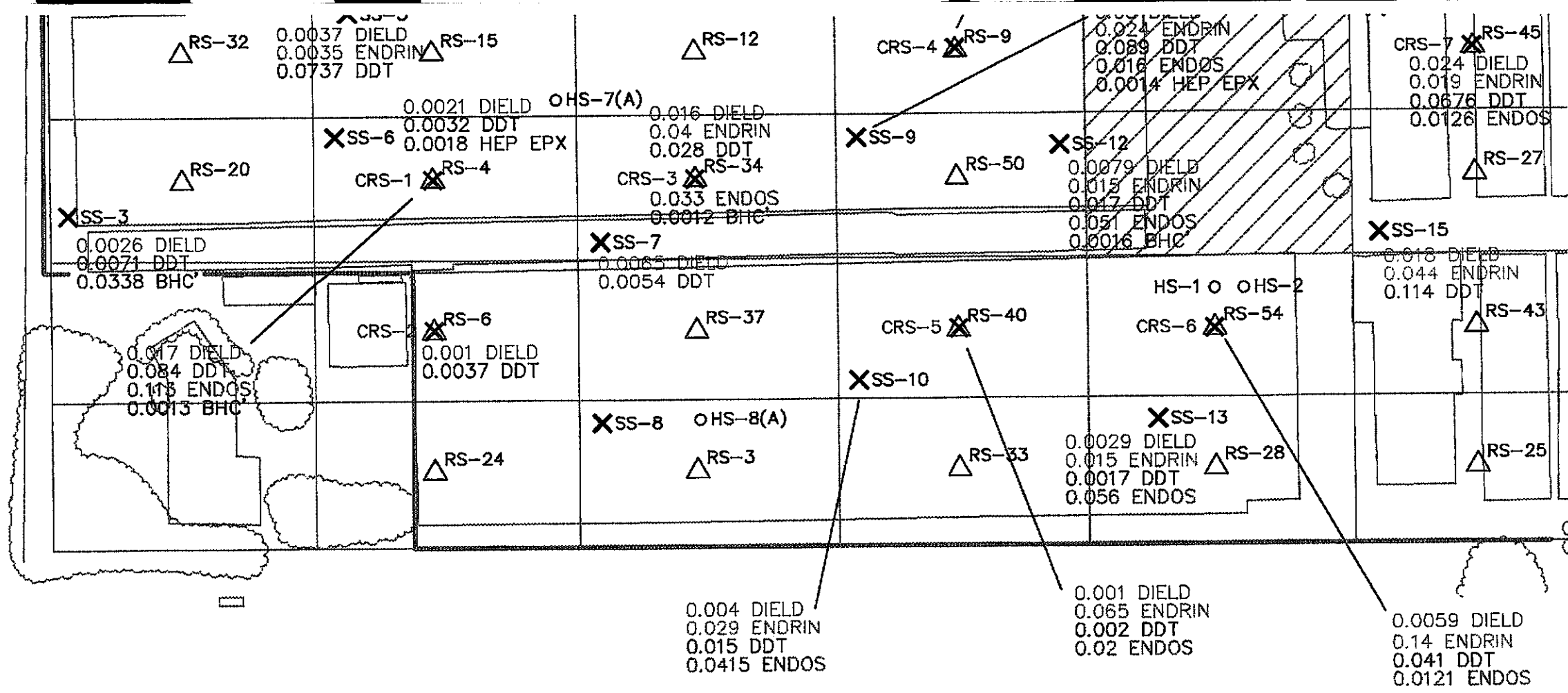
SUNNYSIDE COMMONS II
HAYWARD, CALIFORNIA

SITE PLAN

FIGURE
1
PROJECT
4484/3

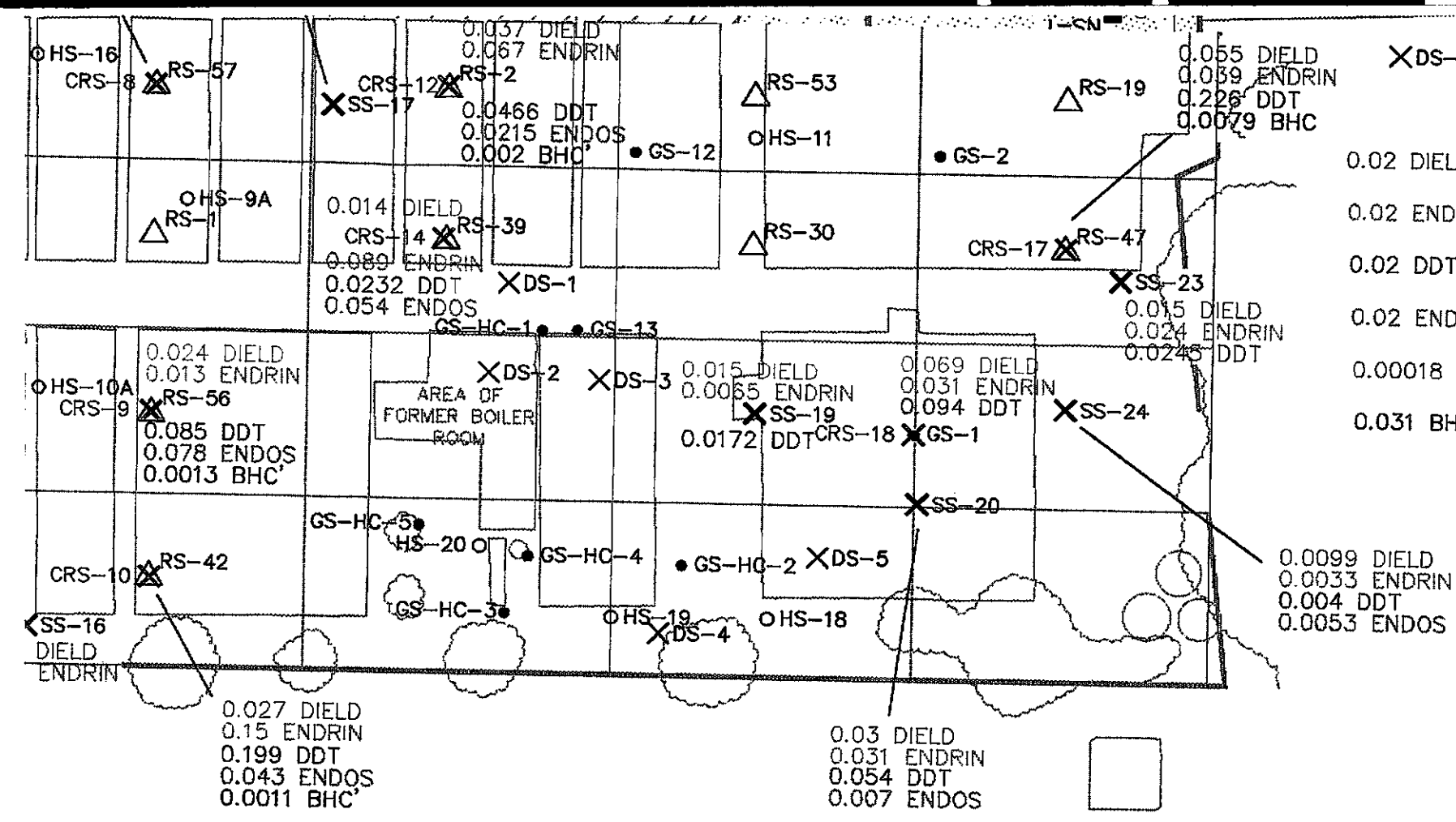
TRACT 6391





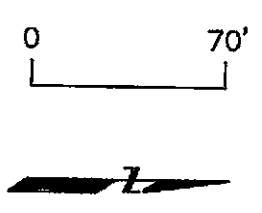
NO.	DATE	REVISION	BY	NO.	DATE	REVISION	BY	Approval:

Date:



DIESEL CHARACTERIZATION SOIL SAMPLING LOCATION
(2 SAMPLES [3" TO 6" AND 6" TO 12" BGS] PER LOCATION FOR TPH-DIESEL ANALYSIS USING EPA METHOD 8015-MODIFIED)

0.02 DIELD CONCENTRATION IN mg/kg OF DIELDRIN
 0.02 ENDRIN CONCENTRATION IN mg/kg OF ENDRIN
 0.02 DDT CONCENTRATION IN mg/kg OF TOTAL DDT FAMILY COMPOUNDS
 0.02 ENDOS CONCENTRATION IN mg/kg OF TOTAL ENDOSULFAN FAMILY COMPOUNDS
 0.00018 HEP EPX CONCENTRATION IN mg/kg OF HEPTACHLOR EPOXIDE
 0.031 BHC CONCENTRATION IN mg/kg OF BHC α + BHC β + BHC γ (LINDANE)



GEOMATRIX

Geomatrix Consultants, Inc.
100 Pine Street, 10th Floor
San Francisco, CA 94111

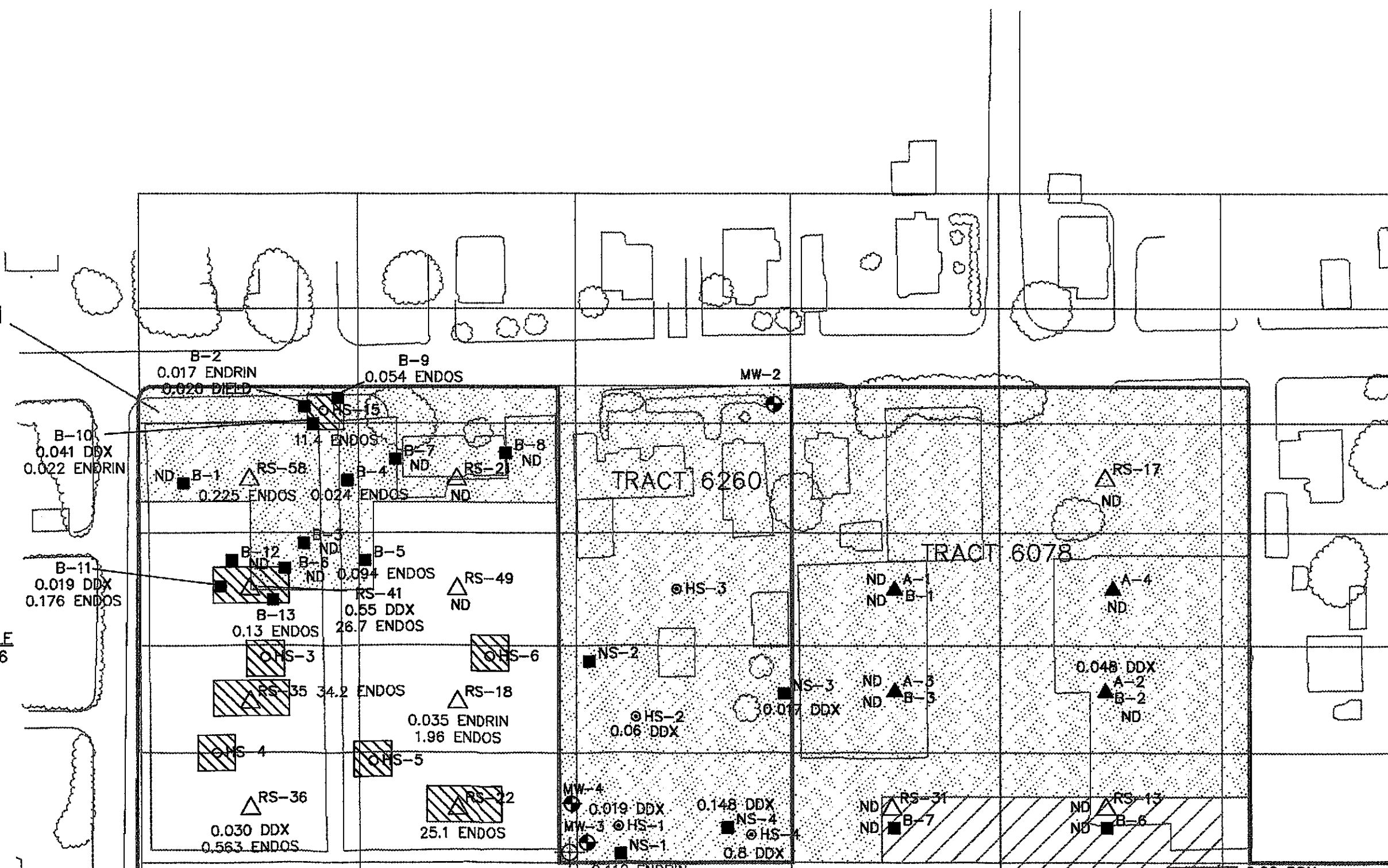
Sunnyside Nursery
Hayward, California

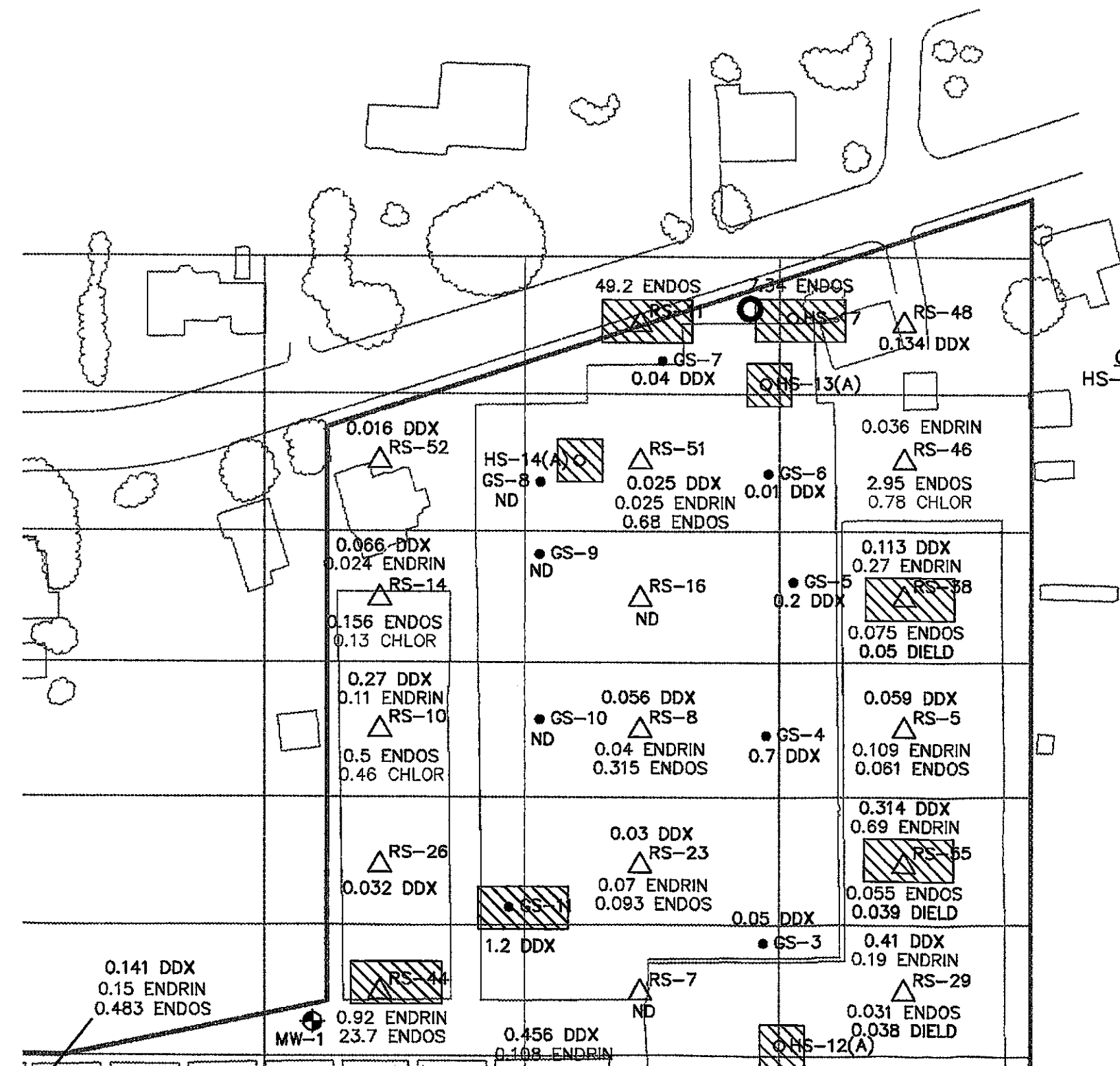
SUPPLEMENTAL SOIL SAMPLING ANALYTICAL RESULTS

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Sheet

TRACT 6391

COMPOSITE SAMPLE
HS-3 THRU HS-6
0.05 DDX
5.0 ENDOS

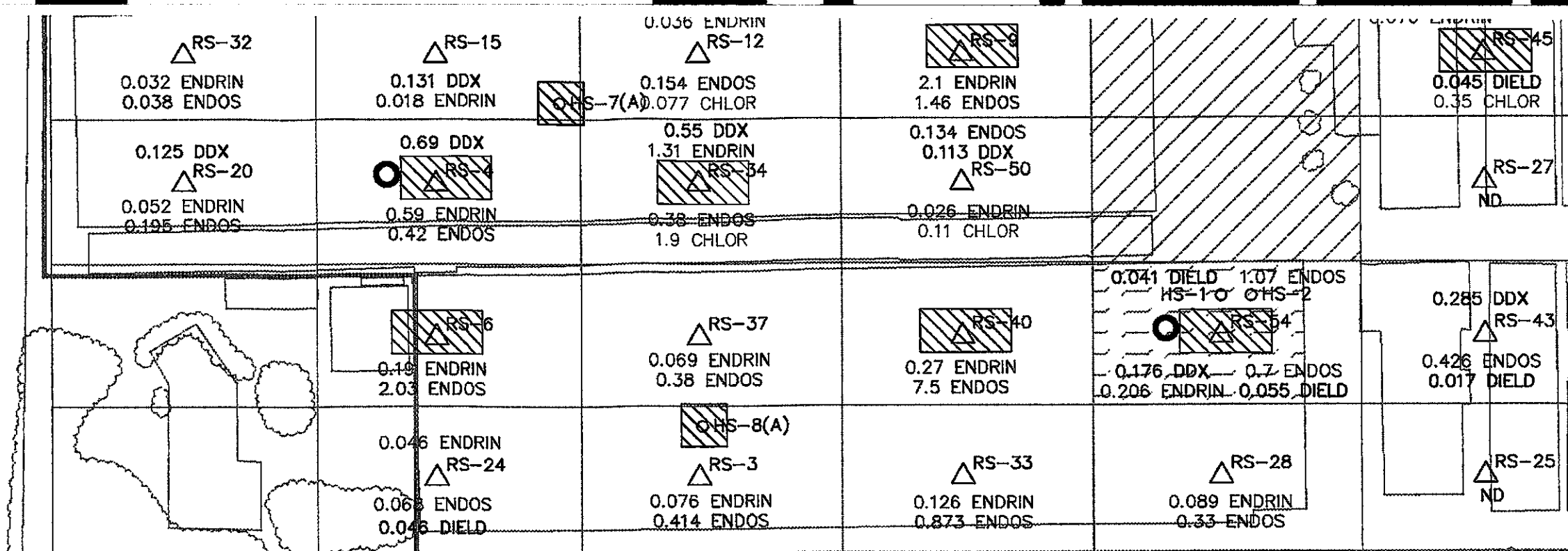




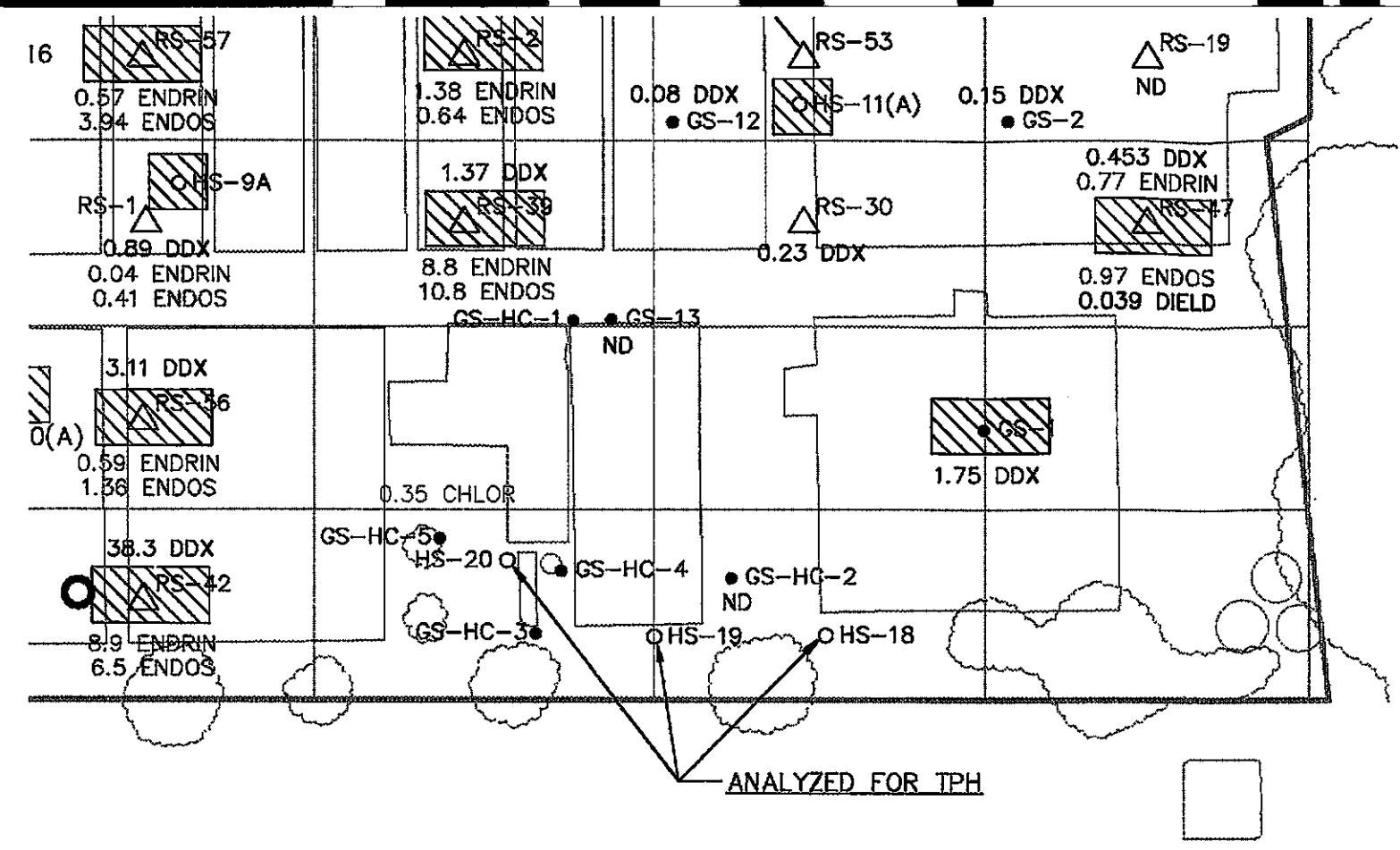
COMPOSITE SAMPLE
 HS-11(A) THRU HS-14(A)
 1.3 ENDRIN
 16.3 ENDOS

LEGEND

- HS-13(A) SURFACE (4" TO 10") TERRATECH SOIL SAMPLE - JANUARY 1989
- HS-3 NEAR SURFACE (12" TO 18") TERRATECH SOIL SAMPLE - FEBRUARY 1990
- △ RS-58 SURFACE (6" TO 12") TERRATECH SOIL SAMPLE - DECEMBER 1990 AND FEBRUARY 1991
- GS-7 SURFACE (6" TO 12") GEOMATRIX SOIL SAMPLE - OCTOBER 1991
- ▲ A-1 SURFACE (A-1, 0" TO 6") AND NEAR SURFACE (B-1, 18") GEOMATRIX SOIL SAMPLE - AUGUST 1992
- B-1 SURFACE (B-1, 0" TO 6") AND NEAR SURFACE (NS-1, 6" TO 12") GEOMATRIX SOIL SAMPLE - JANUARY/FEBRUARY 1993
- 0.20 DDX CONCENTRATION IN mg/kg OF DDD + DDE + DDT
- 0.15 ENDRIN CONCENTRATION IN mg/kg OF ENDRIN
- 0.15 ENDOS CONCENTRATION IN mg/kg OF ENDOSULFANS



COMPOSITE SAMPLE
 HS-7(A) THRU HS-10(A)
 0.85 DDX
 4.80 ENDOS



- 0.045 DIELD CONCENTRATION IN mg/kg OF DIELDRIN
- 0.35 CHLOR CONCENTRATION IN mg/kg OF CHLORDANE
- SOIL SAMPLE CONCENTRATION ≥ 0.9 mg/kg DDX
- SOIL SAMPLE CONCENTRATION ≥ 0.2 mg/kg ENDRIN
- SOIL SAMPLE CONCENTRATION ≥ 3.5 mg/kg ENDOSULFAN
- SOIL SAMPLE CONCENTRATION ≥ 0.9 mg/kg CHLORDANE
- TRACTS ALREADY DEVELOPED
- ND NO DETECTION
- PROPERTY BOUNDARY
- NO DETECTION
- CELLS BEING EXCLUDED DUE TO PAVEMENT/SLAB COVER AND NO PESTICIDE APPLICATION
- FORMER PESTICIDE STORAGE AREA
- PROPOSED GRAB GROUNDWATER SAMPLING LOCATION
- MW-1 MONITORING WELL LOCATION
- FORMER WATER SUPPLY WELL

PROPOSED GRAB GROUNDWATER SAMPLING LOCATIONS, HISTORIC SOIL SAMPLING LOCATIONS, AND PESTICIDE ANALYTICAL RESULTS
Sunnyside Nursery
Hayward, California

	Project No. 1886.03	Figure 1
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