Report of Limited Phase II Soil Sampling
for
Selected Parcels along
Upper Llagas Creek Flood Protection Project
Reaches 4 and 5
Gilroy, California

PIERS
Environmental
Services, Inc.

Report of Limited Phase II Soil Sampling
for
Selected Parcels along
Upper Llagas Creek Flood Protection Project
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Gilroy, California

Prepared For:
Santa Clara Valley Water District
Hydraulic Engineering Unit
5750 Almaden Expressway
San Jose, CA 95118-3686

Prepared By:
PIERS Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128

August 2004

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Tel (408) 559-1248 Fax (408) 559-1224

August 6, 2004

Santa Clara Valley Water District
Hydraulic Engineering Unit
5750 Almaden Expressway
San Jose, CA 95118-3686
Attn: Mr. Uday Mandlekar

RE: **Report of Limited Phase II Site Investigation**
Selected Parcels along Upper Llagas Creek Flood Protection Project
Reaches 4 and 5, Gilroy, CA

Dear Mr. Mandlekar:

PIERS Environmental Services, Inc. (PIERS) is pleased to provide you with the attached Phase II Site Investigation report for the above referenced parcels. The scope of work performed for this project is detailed in our Master Contract Agreement No. A2560A, with the Santa Clara Valley Water District (the District).

If you have any questions regarding this report, please do not hesitate to contact our office. It has been a pleasure working with you on this project and we look forward to working with the Santa Clara Valley Water District again in the near future.

Sincerely,
PIERS Environmental Services, Inc.

REGISTERED GEOLOGIST
JOEL G. GREGER
No. EG 1633
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

REGISTERED ENVIRONMENTAL ASSESSOR - II
NORMA K. PANNELL
No. 20236
Expires
STATE OF CALIFORNIA

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Senior Project Manager

Kay Pannell, Chief Operations Officer
REP # 05800, REA-II # 20236

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August 6, 2004

Santa Clara Valley Water District
Environmental Compliance Unit
5750 Almaden Expressway
San Jose, CA 95118-3686
Attn: Mr. Uday Mandlekar

RE: **Certification for Report of Limited Phase II Site Investigation**
Selected Parcels along Upper Llagas Creek Flood Protection Project
Reaches 4 and 5, Gilroy, CA

Dear Mr. Mandlekar:

PIERS Environmental Services, Inc. certifies that the enclosed report represents our best professional effort at completing the scope of services requested and that the Santa Clara Valley Water District may rely upon the contents of this report.

Sincerely,
PIERS Environmental Services, Inc.

Kay Pannell, Chief Operations Officer
PIERS Environmental Services, Inc.
REA-II #20236, REP # 5800

1.0 EXECUTIVE SUMMARY

1.1 SUMMARY OF FINDINGS

Q Why is it called Limited?

BACKGROUND

- PIERS Environmental Services Inc. (PIERS) was retained by the Santa Clara Valley Water District (District), under Agreement A2560A, to perform a Limited Phase II Site Investigation at the below listed parcels within Llagas Creek Reaches 4 and 5. The purpose of the site investigation is to protect the District from the financial liability and legal responsibility for the cleanup of contaminated parcels acquired by the District, and to protect construction crews from potential exposure to hazardous materials during any flood control construction projects.

- PIERS previously provided the Client, the District, with several Phase I Environmental Site Assessment Reports (ESAs) for parcels located on Reaches, 4, 5, 6, 7B, and 8 of Llagas Creek. PIERS recommended further investigation of a number of parcels with previous and/or current agricultural use due to the potential for residual pesticides and fertilizers to remain in the soil over time. Since residual concentrations, if present, appeared to be the result of area spraying of pesticides and/or herbicides, and not the result of point sources, soil sampling was conducted randomly within the area where human exposure would occur. Evidence of agricultural use of these parcels was demonstrated through the review of historical aerial photographs. Row crops are generally routinely sprayed with pesticides, insecticides and fertilizers, which do not rapidly degrade. Carcinogenic materials such as DDT, DDE, DDD, Dieldrin and chlordane are often found in agricultural soils above regulatory threshold limits. No evidence of excessive use of chemicals, releases, hot spots or the exact types of chemicals used was discovered during the Phase I ESA assessment. Information on the parcels, and their past and present usages are presented in Tables 1.1 and 1.2.

CURRENT ACTIVITIES

830 – 19 – 004

- At one site (1290 Masten Avenue), there is a risk of discharge of horse manure (nitrates and biohazard) to Llagas Creek because horses are penned adjacent to the creek. Therefore soil sampling was also conducted at this parcel. At this parcel, PIERS also recommended that construction workers use gloves so as not to make direct contact with manure during work activities. Also, the parcel owners should be encouraged to maintain a buffer zone between the horse areas and Llagas Creek, and to route drainage from the horse areas away from Llagas Creek.

- The work summarized in this report included soil sampling for agricultural chemicals (pesticides) at twelve parcels in Reaches 4 and 5, and soil sampling for fecal coliform and nitrates at one parcel. The parcels sampled are summarized in Table 1.3:

TABLE 1.1
REACHES 4 & 5

ADDRESS	PARCEL NO.	PARCEL SIZE	IMPROVEMENTS/ CURRENT USE	REACH/ FIGURE
415 Lena Avenue Gilroy	830-06-026	10.78 acres	Six residences, barn, trailers, pasture. May have well.	Rch. 5 Fig. 13
905 Lena Avenue Gilroy	830-06-035	8.75 acres	Residence, barn, dom./irr. well	Rch, 5 Fig. 13, 14
Lena Avenue Gilroy	830-06-034	0.96 acres	Vacant land	Rch. 4 Fig. 13
Columbet Avenue Gilroy	830-06-002	8.80 acres	Vacant land (formerly row crops)	Rch. 4 Fig. 14
1025 Masten Avenue Gilroy	830-06-006	1.1 acres	residence and corrals dom./irr. well	Rch. 4 Fig. 14
1100 Masten Avenue Gilroy	830-19-003	11.64 acres	Residence, barn, dom./irr. well, row crops	Rch. 4 Fig. 15
1290 Masten Avenue Gilroy	830-19-004	33.34	Residences, horse ranch, dom./irr. well	Rch. 4 Fig. 15
1115 Rucker Avenue Gilroy	830-18-009	14.01 acres	Residence, barn, dom./irr. well, row crops	Rch. 4 Fig. 16
1280 Rucker Avenue Gilroy	835-08-035	3.52 acres	Residence, dom./irr. well	Rch. 4 Fig. 16
1240 Rucker Avenue Gilroy	835-08-036	3.37 acres	Residence, contractor's storage yard, dom./irr. well	Rch. 4 Fig. 16
10295 Center Avenue Gilroy	835-09-022	4.14 acres	2 residences, barn, sm. wood-working shop, dom./irr. well, orchard, grapevines	Rch. 4 Fig. 17
10105 Center Avenue Gilroy	835-09-009	9.71 acres	2 residences, dom./irr. well, orchard	Rch. 4 Fig. 17
1625 Buena Vista Ave. Gilroy	835-10-020	8.8 acres	Residence, greenhouses, dom./irr. well	Rch. 4 Fig. 18
11555 Kannely Lane	830-05-038	12.10	Active row crops, mobile home and trailers for farmworkers.	Rch 5 Fig 3
11520 Murphy Ave.	830-05-039	16.47	Active row crops, residence, barn, well.	Rch 5 Fig 3
(no address)	~~830-05-041~~	9.01	Active row crops, small orchard, residence, well.	Rch 5 Fig 3

Not on R.E. Sheet

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TABLE 1.2 REACHES 4 & 5	
ADDRESS	**POTENTIAL RECOGNIZED ENVIRONMENTAL CONDITIONS**
415 Lena Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** Agriculture was conducted on this parcel since prior to 1953, ceasing after 1998. There is a risk of residual pesticides and fertilizers in soil.
1280 Rucker Avenue Gilroy	No evidence of environmental concerns exists, and no further inquiry is required. No recognized environmental conditions were identified from historical use of the parcel, and no recognized environmental conditions were identified in the vicinity of the parcel that are a potential risk to the parcel. Orchard use at this parcel ceased by 1968.
1240 Rucker Avenue Gilroy	No evidence of environmental concerns exists, and no further inquiry is required. No recognized environmental conditions were identified from historical use of the parcel, and no recognized environmental conditions were identified in the vicinity of the parcel that are a potential risk to the parcel. Orchard use at this parcel ceased by 1968.
11555 Kannely Lane (830-05-038)	**Further investigation into the environmental condition of the Parcel is required to make an adequate assessment due to the potential for residual pesticides and fertilizers in soils from previous and ongoing agricultural use. Fertilizer applicators present on site.**
11520 MurphyAve. (830-05-039)	**Further investigation into the environmental condition of the Parcel is required to make an adequate assessment due to the potential for residual pesticides and fertilizers in soils from previous and ongoing agricultural use. Fertilizer applicators present at 11555 Kannely Lane, which is farmed in conjunction with the crops at this Parcel.**
APN 830-05-041	**Further investigation into the environmental condition of the Parcel is required to make an adequate assessment due to the potential for residual pesticides and fertilizers in soils from previous and ongoing (current) agricultural use.**
Columbet Avenue (830-06-002) Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** Agriculture was conducted on this parcel since prior to 1953, continuing until a few years ago. Per the owner, weed control chemicals were applied during the most recent use. There is a risk of residual pesticides and fertilizers in soil.
1100 Masten Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** Agriculture was conducted on this parcel since prior to 1953, continuing to present. There is a risk of residual pesticides and fertilizers in soil. However, the area of interest to the District along Llagas Creek does not appear to have been actively cultivated within the last 30 years.
1290 Masten Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** Agriculture was conducted on this parcel since prior to 1953, continuing until a few years ago. **There is a risk of residual pesticides and fertilizers in soil.** Also, current drainage patterns at horse corrals directly adjacent to Llagas Creek allows **the potential for horse manure to be transported to the creek.**
1115 Rucker Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** Agriculture was conducted on this parcel since prior to 1953, and is ongoing. There is a risk of residual pesticides and fertilizers in soil.
10295 Center Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** The parcel has been used as an orchard since at least 1953. There is a risk of residual pesticides and fertilizers in soil.

10105 Center Avenue Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** The parcel has been used as an orchard since at least 1953. There is a risk of residual pesticides and fertilizers in soil.
1625 Buena Vista Ave. Gilroy	**Evidence of environmental concerns exists, and further inquiry is required.** The parcel was used for row crops from at least 1953 through 1998. The parcel is now occupied by greenhouses. The District's plans involve removal of portions of structures. There is a risk of residual pesticides and fertilizers in soil. **Also, trash and debris has been dumped along the creek, and drainage ditches have been constructed from the greenhouse operation to the creek. This does not appear to have created a significant environmental condition, however, the District should be aware of its existence.**

TABLE 1.3
REACHES 4 & 5

ADDRESS	PARCEL NO.	REACH	ANALYSIS
1625 Buena Vista Ave. Gilroy	835-10-020	4	pesticides
10105 Center Avenue Gilroy	835-09-009	4	pesticides
10295 Center Avenue Gilroy	835-09-022	4	pesticides
1240 Rucker Avenue Gilroy	835-08-036	4	pesticides
1280 Rucker Avenue Gilroy	835-08-035	4	pesticides
1115 Rucker Avenue Gilroy	830-18-009	4	pesticides
1100 Masten Avenue Gilroy	830-19-003	4	pesticides
1290 Masten Avenue Gilroy	830-19-004	4	fecal coliform, nitrates
Columbet Avenue Gilroy	830-06-002	4	pesticides
415 Lena Avenue Gilroy	830-06-026	5	pesticides
11555 Kannely Ln. (830-05-038)	830-05-038	5	pesticides
11520 Murphy Ave. (830-05-039)	830-05-039	5	pesticides
APN 830-05-041	830-05-041	5	pesticides

1.2 OPINIONS, CONCLUSIONS, AND RECOMMENDATIONS

The findings of this investigation did not indicate residual concentrations of pesticides in surficial soils at any of the parcels that would warrant additional protective measures for construction workers.

For the analyses for coliform and total nitrates at 1290 Masten Avenue, total coliform was not detected. Total nitrates were detected at a concentration of 2.0 ppm. The identified health risk for nitrates is as a groundwater contaminant. As this is not a potential exposure pathway during the construction process, the presence of nitrate at a concentration of 2.0 ppm does not appear to be of significant environmental concern for construction workers.

2.0 INTRODUCTION

PIERS Environmental Services, Inc. (PIERS) has completed a Limited Phase II Site Investigation for thirteen parcels within Reaches 4 & 5 of the Upper Llagas Creek Flood Protection Project, hereinafter referred to as the parcels. The specific addresses and Assessor's Parcel Numbers of the parcels investigated are listed in the executive summary portion of this report, and in Section 4.1.

This report follows the guidelines set forward in our contract with the Santa Clara Valley Water District (District). This project is in accordance with Agreement # A2560A.

2.1 PURPOSE

The purpose of performing this Phase II Site Investigation was to determine past, current and potential future environmental liabilities associated with the current and past uses of the parcels. The investigation is conducted "in order to protect the construction crews from exposure to hazardous materials and to protect the District from the financial liability and legal responsibility for the cleanup of contaminated parcel acquired by the District". Specific types of liabilities addressed in this report are based on statements detailed in ASTM Standard Designation E 1527-00 and within our contract for this project (per Agreement # A2560A).

PIERS was retained by the District (cited hereafter as the Client) to conduct this project for the said parcels.

2.2 DETAILED SCOPE OF SERVICES

The Scope of Services for the performance of this Phase II Site Investigation included the following tasks:

- Contact landowners and provide required notification of sampling activities in advance.
- Prepare a health and Safety Plan by a Certified Industrial Hygienist.
- Perform shallow soil sampling by advancing hand auger into soil near the creek at each parcel.
- Provide laboratory analytical testing for each soil sample.
- Analyze soil samples for pesticides by EPA Method 8081, for Total Coliform and Fecal Coliform by Standard Method 9221-B Modified, and for Total Nitrates by Standard Method 300.
- Provide a Phase II report summarizing the results of the analytical testing, conclusions, recommendations and opinions.

2.3 SPECIAL CONDITIONS, TERMS AND LIMITATIONS

The Client for this project requested no special terms, conditions or extraneous services, other than those stated in Agreement # A2560A. Therefore, PIERS implemented no special terms, conditions or extraneous services for this project. Business Environmental Risk concerns have not been addressed for this project.

2.4 USER RELIANCE/REPORT ORGANIZATION

What is this?

This Limited Phase II Site Investigation Report has been prepared for the exclusive use of the Client and/or its agents. PIERS will distribute any information regarding this assessment and report only upon the request of the Client and/or its agents. The Client may rely on the statements and information contained within this report.

PIERS warrants that the services, findings, and/or recommendations provided to the Client and its affiliates and subsidiaries, have been prepared, performed and rendered in accordance with procedures, practices and standards generally accepted and customary in the consultant's profession for use in similar assignments.

This report is organized in the format requested by the District, as detailed in the written scope of services for this project.

3.0 METHODOLOGY

The methodology used for this project and report follows that which was detailed by the District in their written scope of services for this project, and the ASTM Standard for Phase II Site Investigations.

4.0 SUBJECT PARCELS DESCRIPTION

4.1 LOCATION AND LEGAL DESCRIPTION

The project consists of thirteen parcels within Reaches 4 and 5 of the Upper Llagas Creek Flood Protection Project. The locations of the thirteen parcels are shown on Figures 1 through 4, respectively.

The street addresses, Assessor's Parcel Numbers, parcel sizes, and improvements at the parcels are described on the following tables. Site plans showing pertinent details are shown on Figures 5 through 18.

TABLE 4.1 REACHES 4 & 5				
ADDRESS	**PARCEL NO.**	**PARCEL SIZE**	**IMPROVEMENTS/ CURRENT USE**	**REACH/ FIGURE**
415 Lena Avenue Gilroy	830-06-026	10.78 acres	Six residences, barn, trailers, pasture. May have well.	Rch. 5 Fig. 13
905 Lena Avenue Gilroy	830-06-035	8.75 acres	Residence, barn, dom./irr. well	Rch. 5 Fig. 13, 14
Lena Avenue Gilroy	830-06-034	0.96 acres	Vacant land	Rch. 4 Fig. 13
Columbet Avenue Gilroy	830-06-002	8.80 acres	Vacant land (formerly row crops)	Rch. 4 Fig. 14
1025 Masten Avenue Gilroy	830-06-006	1.1 acres	residence and corrals dom./irr. well	Rch. 4 Fig. 14
1100 Masten Avenue Gilroy	830-19-003	11.64 acres	Residence, barn, dom./irr. well, row crops	Rch. 4 Fig. 15
1290 Masten Avenue Gilroy	830-19-004	33.34	Residences, horse ranch, dom./irr. well	Rch. 4 Fig. 15
1115 Rucker Avenue Gilroy	830-18-009	14.01 acres	Residence, barn, dom./irr. well, row crops	Rch. 4 Fig. 16
1280 Rucker Avenue Gilroy	835-08-035	3.52 acres	Residence, dom./irr. well	Rch. 4 Fig. 16
1240 Rucker Avenue Gilroy	835-08-036	3.37 acres	Residence, contractor's storage yard, dom./irr. well	Rch. 4 Fig. 16
10295 Center Avenue Gilroy	835-09-022	4.14 acres	2 residences, barn, sm. wood-working shop, dom./irr. well, orchard, grapevines	Rch. 4 Fig. 17
10105 Center Avenue Gilroy	835-09-009	9.71 acres	2 residences, dom./irr. well, orchard	Rch. 4 Fig. 17
1625 Buena Vista Ave. Gilroy	835-10-020	8.8 acres	Residence, greenhouses, dom./irr. well	Rch. 4 Fig. 18
11555 Kannely Lane	830-05-038	12.10	Active row crops, mobile home and trailers for farmworkers.	Rch 5 Fig 3
11520 Murphy Ave.	830-05-039	16.47	Active row crops, residence, barn, well.	Rch 5 Fig 3
(no address)	830-05-041	9.01	Active row crops, small orchard, residence, well.	Rch 5 Fig 3

4.2 CURRENT/PAST INDUSTRIAL/MANUFACTURING USES OF PARCELS

The following tables summarize the current and past use of the parcels.

TABLE 4.2
REACHES 4 & 5

ADDRESS	CURRENT USE	PAST USE
1115 Rucker Avenue, Gilroy	Row crops	Orchard from at least 1953 through 1968, row crops from prior to 1974 to present.
1280 Rucker Avenue, Gilroy	Rural residence	Orchard from at least 1953 through 1965, ceased by 1968. The residence was constructed in about 1972.
1240 Rucker Avenue, Gilroy	Rural residence	Orchard from at least 1953 through 1965, ceased by 1968. The residence was constructed in about 1999.
10295 Center Avenue Gilroy	Residence and orchard	Orchard from at least 1953. The residence was constructed in about 1978.
10105 Center Avenue Gilroy	Residence and orchard	Orchard from at least 1953. The residence was constructed in about 1997.
1625 Buena Vista Ave. Gilroy	Greenhouses	Row crops or greenhouses from prior to 1953 through 1998, converted to greenhouses.
1100 Masten Avenue Gilroy	Row crops	Orchard from at least 1953 through 1968, row crops from prior to 1975 to present.
1290 Masten Avenue Gilroy	Horse ranch	Orchard from at least 1953 through 1968, row crops from prior to 1975 until recently.
415 Lena Avenue Gilroy	Six residences, pasture	Orchard from at least 1953 through 1968, row crops from at least 1974 through 1998.
Columbet Avenue (830-06-002) Gilroy	Vacant agricultural land	Orchard from at least 1953 through 1965, row crops from at least 1968, ceased several years ago.
11555 Kannely Ln. (830-05-038)	Agriculture (row crops), temporary residences for farm workers	Orchards from prior to 1953 through 1968, row crops by 1974, continuing to present.
11520 Murphy Ave. (830-05-039)	Agriculture, residence.	Orchards from prior to 1953 through 1968, row crops by 1974, continuing to present. Residence.
APN 830-05-041	Agriculture, residence	Orchards from prior to 1953 through 1963, row crops by 1974, continuing to present. Residence and other small structures, possibly migrant labor housing.

4.3 PHYSICAL CHARACTERIZATION OF THE PARCELS

4.3.1 TOPOGRAPHY AND SURFACE WATER HYDROLOGY

Reaches 4 and 5 are located within the Santa Clara Valley, a broad, northwest-trending alluvium-filled valley. Regionally, the area slopes very gently to the southeast. The direction of surface water flow in Llagas Creek is predominantly to the southeast, consistent with the gentle slope of the regional topography. Many portions of the creek remain dry during much of the year.

4.3.2 GEOLOGY AND HYDROGEOLOGY

According to "Flatland Deposits – Their Geology and Engineering Properties and Their Importance to Comprehensive Planning" (U. S. G. S. Professional Paper 943, Helly et al, 1979), Llagas Creek and the immediate vicinity of the parcels within Reaches 4 and 5 is mapped as coarse-grained alluvium (map symbol Qhac). The surrounding vicinity is underlain by undifferentiated Late Pleistocene alluvium.

The predominant direction of groundwater flow at Reaches 4 and 5 would be expected to be predominantly to the southeast, consistent with regional topography and surface flow, however, the flow direction likely varies due to site-specific conditions.

4.3.4 ACTIVE FAULTING AND SEISMICITY

Llagas Creek Reaches 4 and 5 are located within relatively flat alluvial soils within the Santa Clara Valley, a seismically active region of northern California. The Santa Clara Valley is bounded by the Calaveras – Sunol fault zone to the east, and the San Andreas fault zone to the west. Both fault zones are part of the San Andreas fault system, which forms the boundary between the North American and Pacific tectonic plates. Translational shear along this plate boundary has resulted in numerous historical earthquakes, some of which were large-magnitude, with severe ground shaking, ground rupture, and damage. Most of the recorded earthquake epicenters are concentrated along the Hayward, Calaveras, Concord, and San Andreas fault zones. It is likely that a similar pattern of seismicity will persist into the foreseeable future.

5.0 RESULTS

5.1 SOIL SAMPLING

The landowners were contacted and the required notifications were provided prior to sampling, where possible. Sampling at the parcels was conducted as follows: At each of the parcels, areas were selected directly proximal to the creek that were likely to be in contact with construction workers, and one four-part composite soil sample was collected at each parcel. The points at which the four parts comprising each composite soil sample were chosen were approximately at equally distributed locations along the length of the creek. The approximate locations of the sample points are shown on Figures 2 through 7. Attached to this report are field logs for each parcel that provide additional information for each soil sample location.

The soil samples were collected on April 22, 2004. The sampling was conducted in accordance with the Health and Safety Plan developed for this project. At each soil sample location, the samples were collected in stainless steel or brass liners inserted directly into the subsurface at approximately 1.0 foot below grade, beneath any surficial matted vegetation and roots. The samples were sealed with Teflon tape and plastic caps, labeled, and placed in a cooler, on ice. The samples were delivered immediately following sample collection, under chain of custody documentation, to Sequoia Analytical Laboratory in Morgan Hill, California. The four-part soil samples were composited into one sample at the analytical laboratory. However, the samples were individually labeled such that, should the composite sample indicate that additional investigation was warranted, the specific samples could then be analyzed.

5.2 PROFESSIONAL OPINIONS AND CONCLUSION

Based on these findings, the occurrences of residual concentrations of pesticides at some of the parcels in the surficial soils do not appear to pose a health risk that would warrant additional protective measures for construction workers.

For the analyses for coliform and total nitrates at 1290 Masten Avenue, total coliform was not detected. Total nitrates were detected at a concentration of 2.0 ppm. The identified health risk for nitrates is as a groundwater contaminant. As this is not a potential exposure pathway during the construction process, the presence of nitrate at a concentration of 2.0 ppm does not appear to be of significant environmental concern for construction workers.

5.2.1 PROFESSIONAL OPINIONS REGARDING CHARACTERIZATION

Except for the soil sample from 1290 Masten Avenue, all of the samples were analyzed for the basic list of pesticides by EPA Method 8081. The sample from 1290 Masten Avenue was analyzed for Total Coliform by Standard Method 9221-B Modified, and for Total Nitrates by Standard Method 300.

Six parcels showed detectable concentrations of pesticides. At four parcels (1625 Buena Vista Avenue, 10295 Center Avenue, 1115 Rucker Avenue, and APN 830-05-041), concentrations of 4, 4'- DDT were detected ranging between 0.012 and 0.030 parts per million (ppm). At 10205 Center Avenue and 415 Lena Avenue, Dieldrin was detected at concentrations of 0.0029 ppm and 0.0034 ppm, respectively. Endosulfan I was detected at 1100 Masten Avenue and at APN 830-05-041 at concentrations of 0.008 ppm and 0.021 ppm, respectively. Finally, delta-BHC was detected at 415 Lena Avenue at a concentration of 0.0016 ppm.

All of these compounds have a Cal/OSHA "skin" designation, meaning in addition to inhalation, skin is a route of exposure that must be minimized. All have relatively low Permissible Exposure Limits (PELs). A comparison of the detected concentrations to their respective PELs indicates that all of the concentrations in soil are less than the airborne PELs, except for Endosulfan I. This compound was detected slightly above the PEL at 1100 Masten Avenue (0.008 ppm versus the PEL of 0.006 ppm), and several times above the PEL at APN 830-05-041 (0.021 ppm).

Based on the initial findings of concentrations above the PELs, the four discrete samples from the parcels at 1100 Masten Avenue and APN 830-05-041 were analyzed. The results of these analyses are shown on Table 2. Endosulfan was not detected in any of the eight samples. From 1100 Masten Avenue, 4,4' – DDE was detected in sample D at a concentration of 0.0037 ppm. From parcel 830-05-0414, 4'–DDD, 4,4'–DDE, and/or 4,4'–DDT were detected in samples A, B, and D. Except in sample B from this parcel, all of these detected concentrations were less than 0.07 ppm. The concentrations in sample B of 0.086 ppm of 4,4' – DDE and 0.093 ppm of 4,4' – DDT are slightly above the PEL of 0.07 ppm.

Based on these findings for the discrete samples from the two locations, no adverse conditions for the construction workers appear to exist, as all of the pesticides found were below their respective PELs. Additional delineation of the vertical and horizontal extent of any of the analytes investigated does not appear warranted. The distribution of contaminants appears to be limited to the surficial soils, very close to where those chemicals were applied or deposited, and an investigation of migratory pathways is not warranted.

No unknowns or uncertainties have been identified as a factor in interpreting the findings of this investigation.

5.2.2 PROFESSIONAL OPINIONS REGARDING THE CONSEQUENCES OF THE ENVIRONMENTAL CONDITIONS

Based on the findings of this investigation, there does not appear to be any impact to the District's proposed operations and/or use of the Property. The findings of this investigation do not indicate any significant environmental liabilities associated with the identified contaminants. The findings of this investigation do not indicate any significant risks or liabilities associated with acquisition of any of the investigated parcels.

No remediation is considered warranted.

5.3 OTHER POTENTIAL ENVIRONMENTAL CONCERNS

5.3.1 ASBESTOS

Where in this Report ?

A survey was previously performed for suspected asbestos-containing building materials (ACBM), and the results were submitted to the District as a separate report. The report was entitled, " Asbestos Survey and Lead-based Paint Assessment of 290 E. Martin Avenue, San Martin, California", and dated April 14, 2003.

5.3.2 RADON

PIERS reviewed the California Statewide Radon Survey Interim Results report prepared by the California Department of Health Services (DHS) with the United States Environmental Protection Agency (EPA) in 1990. In this report, California was organized into nine sampling regions using general geology, climate, and existing radon distribution knowledge. The parcels are located in Region 6, which includes Alameda, Monterey, San Benito, San Francisco, San Luis Obispo, San Mateo, Santa Clara, and Santa Cruz Counties.

The results of the survey indicate that over 94.5% of the homes in this region have radon concentrations below 4 picocuries per liter (pCi/l) of air. The average radon level for Region 6 was 0.6 pCi/l, well below the EPA action limit of 4 pCi/l. Given the low regional radon concentrations, it is unlikely that the parcels will be impacted by the presence of radon. PIERS does not expect radon levels at the parcels to exceed 4 pCi/l.

5.3.3 LEAD

A lead-based paint survey was previously performed for suspected lead-containing building materials, and the results were submitted to the District as a separate report. The report was entitled, " Asbestos Survey and Lead-based Paint Assessment of 290 E. Martin Avenue, San Martin, California", and dated April 14, 2003.

5.3.4 PCBs

No PCB-containing equipment was identified at the parcels. With regards to Pacific Gas & Electric Company (PG&E) equipment located near the parcels, a PCB-abatement program was initiated and completed in the early 1980's, according to Dan Miller, engineer with PG&E Morgan Hill, who was contacted by PIERS in March of 2002. PG&E has indicated that PCB-containing oil was replaced with mineral oil in 99.9% of all statewide transformers. After replacement, the maximum allowable concentration of residual PCBs remaining in a transformer was 50 ppm. Should there be a concern over the possible existence of PCBs in a transformer, PG&E can be contracted to arrange for an inspection and sampling of the transformer oil. Should the transformer be found to contain PCBs above a concentration of 50 ppm, PG&E will replace that oil at no cost. Should the transformer be found to contain PCBs below 50 ppm, PG&E will charge a fee for the inspection and sampling of the transformer.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Phase II investigation revealed that no evidence of environmental concerns exists, and no further inquiry is required at the selected parcels.

7.0 APPENDICES

7.1 MAPS, FIGURES, TABLES

7.1.1 PARCEL VICINITY MAP – FIGURE 1

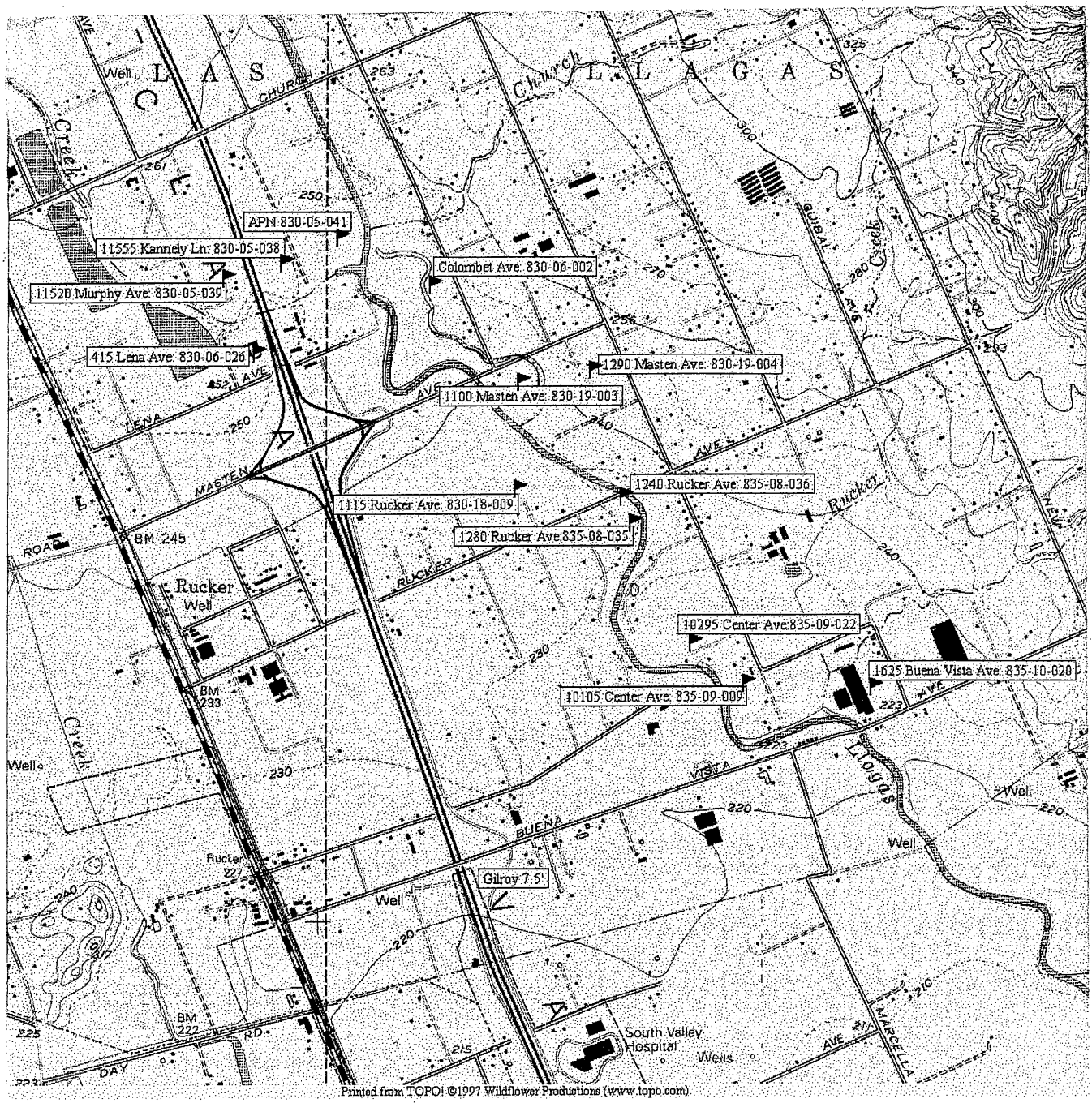

FIGURE 1

PROPERTY VICINITY MAP

SELECTED PARCELS ALONG REACHES 4 & 5 — NOT TO SCALE

GILROY, UPPER LLAGAS CREEK — JULY 2004

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7.1.2 PROPERTY SITE PLAN MAPS – FIGURES 2 THOUGH 7

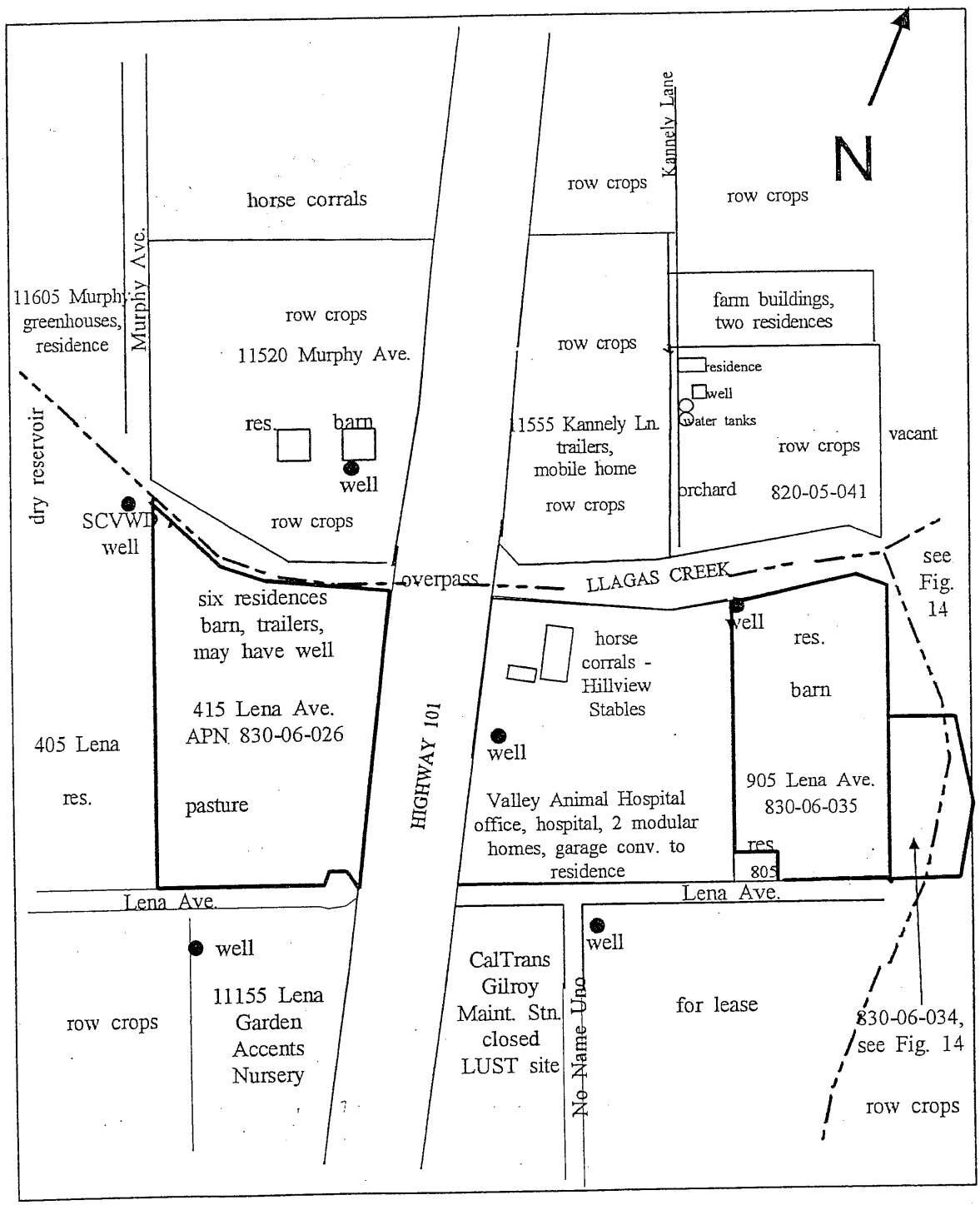

FIGURE 2

PROPERTY SITE PLAN

415 & 905 LENA AVE. & APN NO. 830-06-034 — NOT TO SCALE

GILROY, UPPER LLAGAS CREEK — JULY 2004

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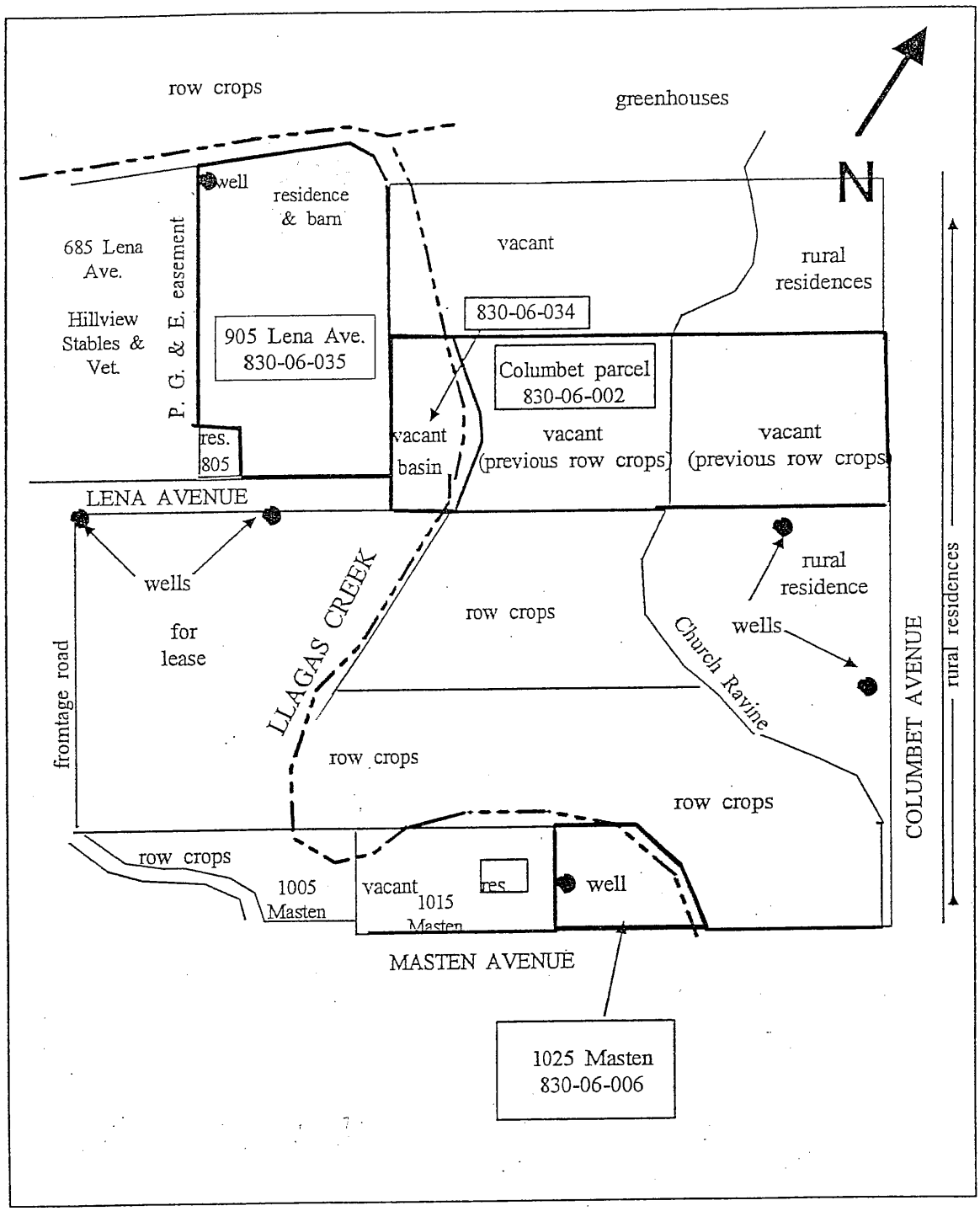

FIGURE 3

PROPERTY SITE PLAN

905 LENA AVE., 1025 MASTEN AVE., & APN NO. 830-06-002 NOT TO SCALE

GILROY, UPPER LLAGAS CREEK JULY 2004

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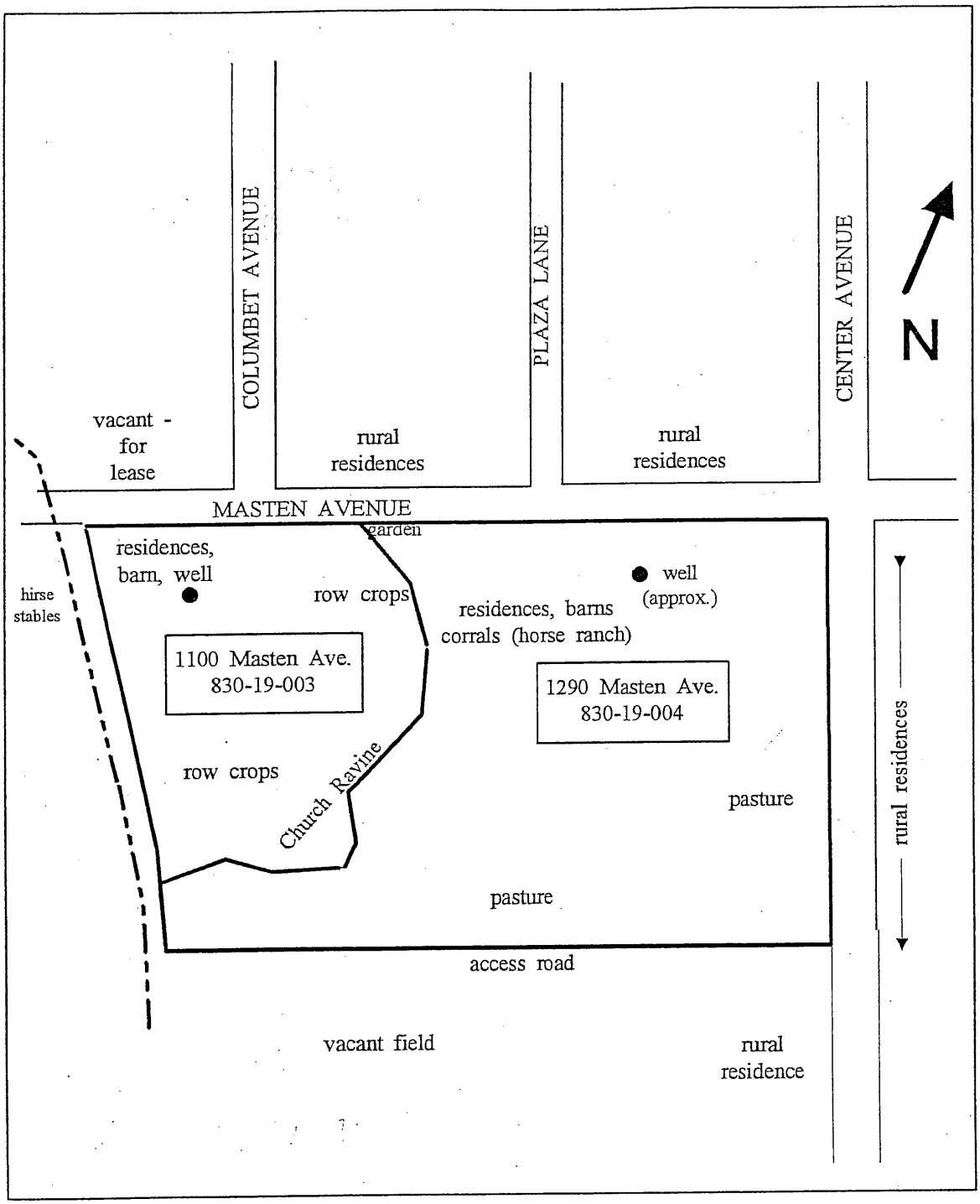

FIGURE 4

PROPERTY SITE PLAN

1100 & 1290 MASTEN AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

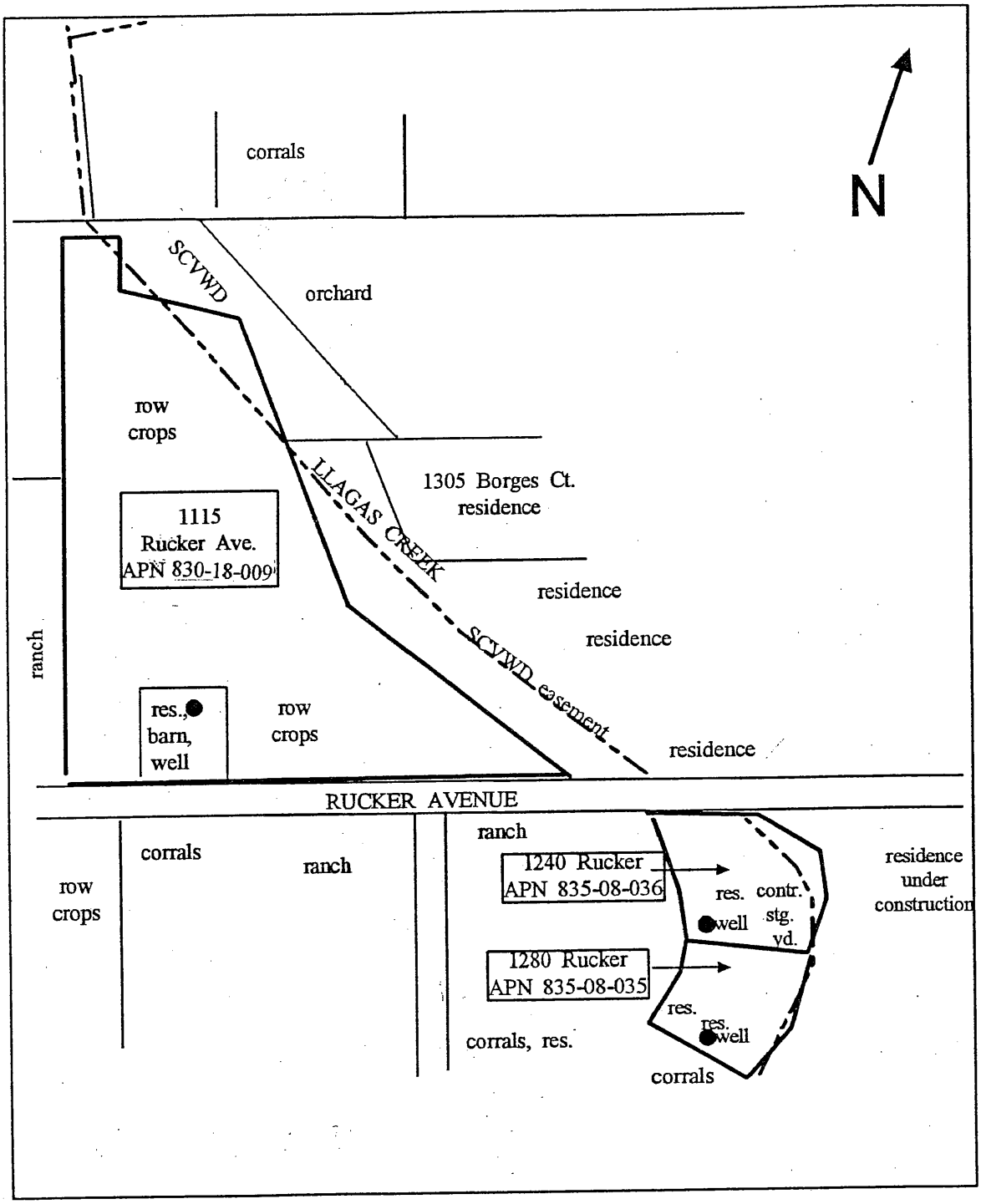

FIGURE 5

PROPERTY SITE PLAN

1115, 1240, & 1280 RUCKER AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

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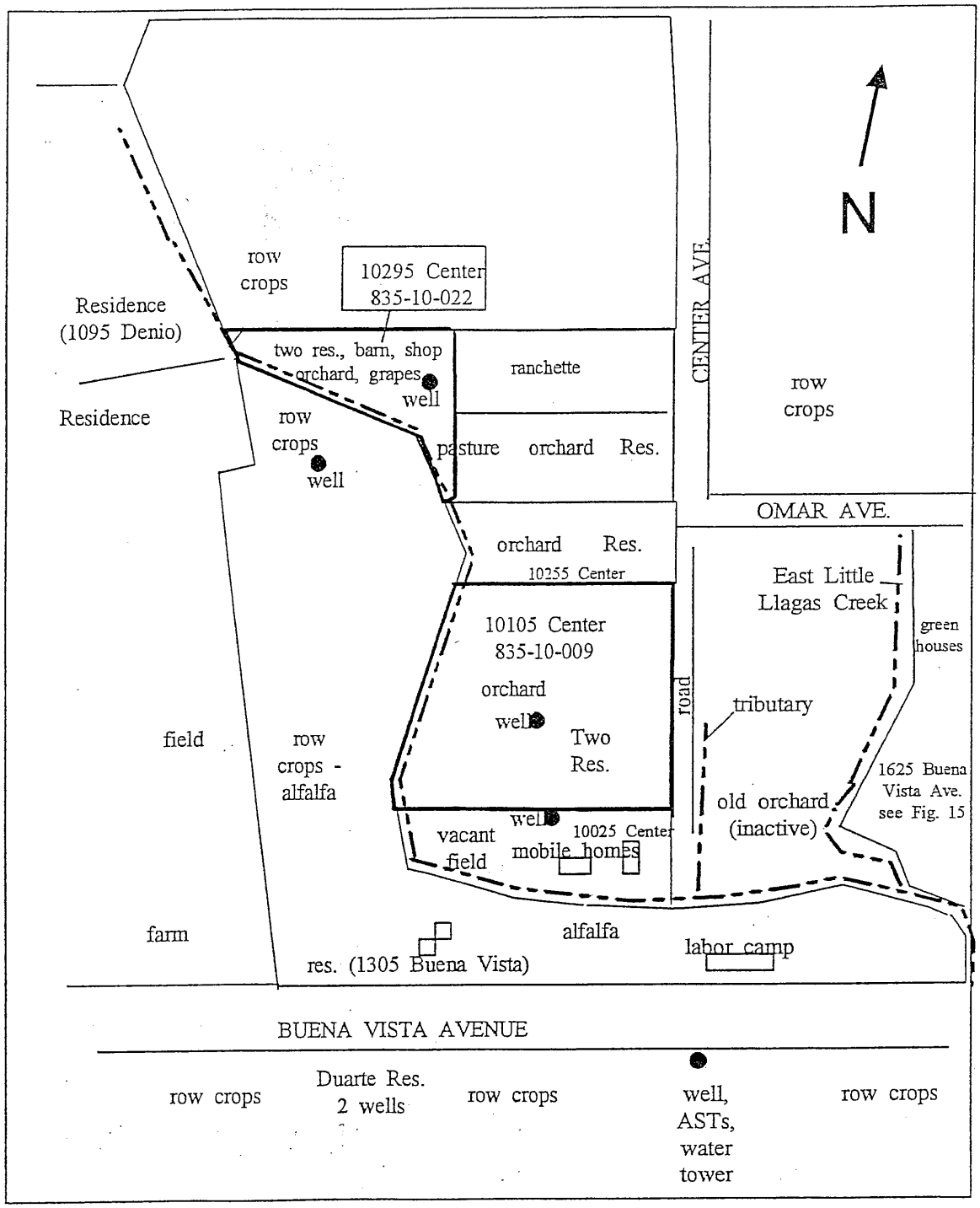

FIGURE 6
PROPERTY SITE PLAN

10105 & 10295 CENTER AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

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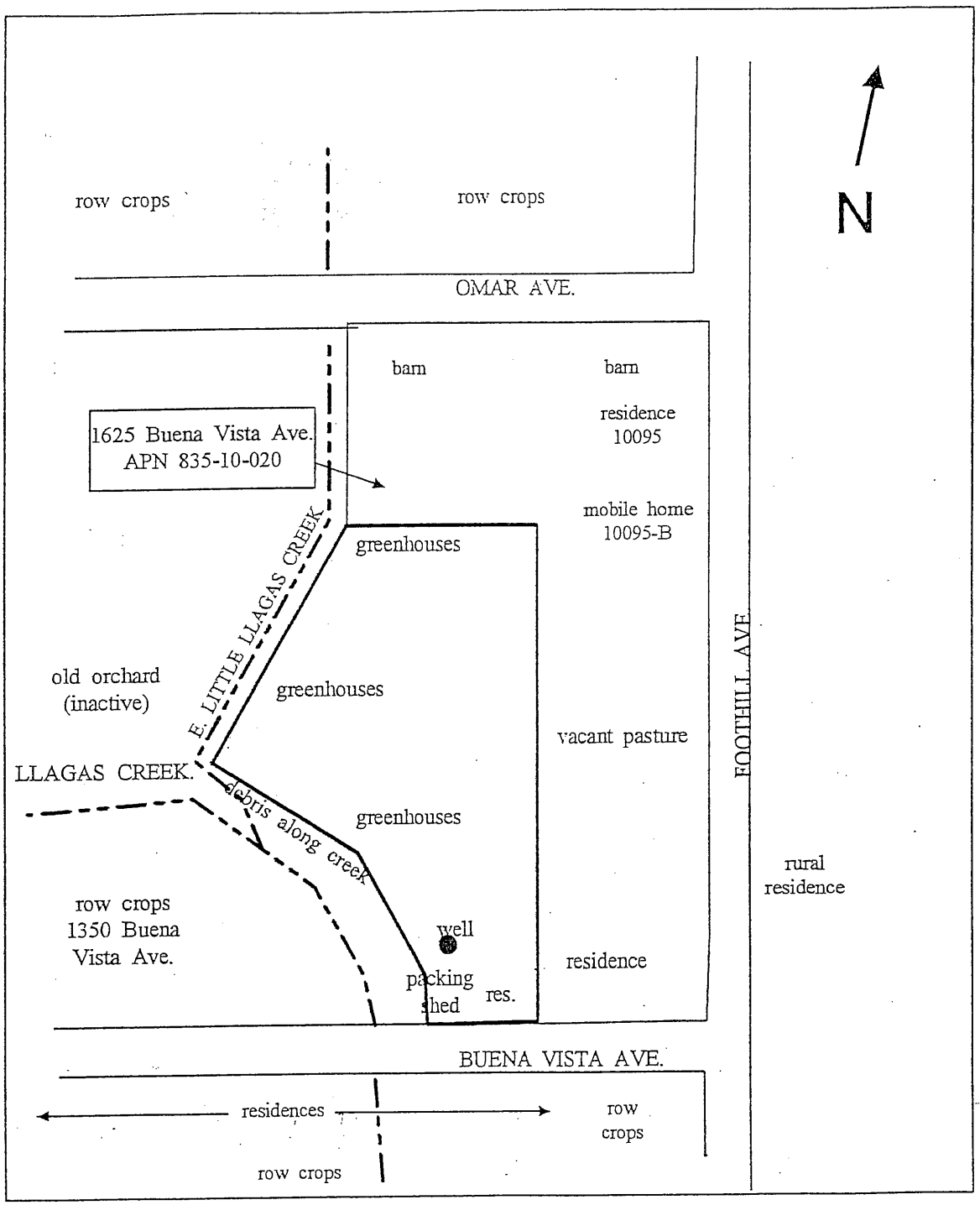

FIGURE 7
PROPERTY SITE PLAN

1625 BUENA VISTA AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

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7.1.3 SOIL BORING LOCATIONS – FIGURES 8 THROUGH 13

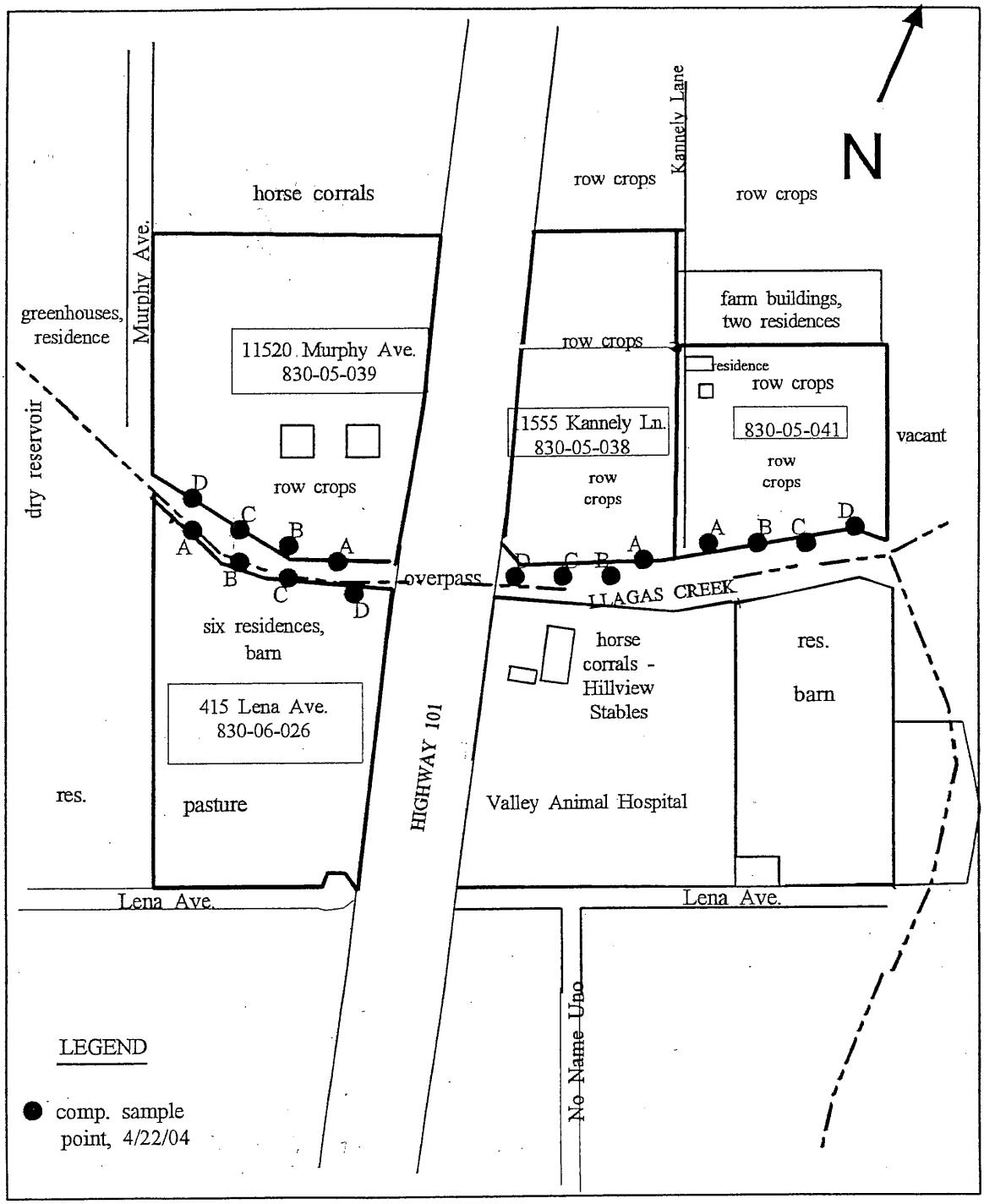

FIGURE 8

SOIL BORING LOCATIONS

415 LENA, 11520 MURPHY, 11555 KANNELY LN. & 830-05-041 — NOT TO SCALE

GILROY, UPPER LLAGAS CREEK — JULY 2004

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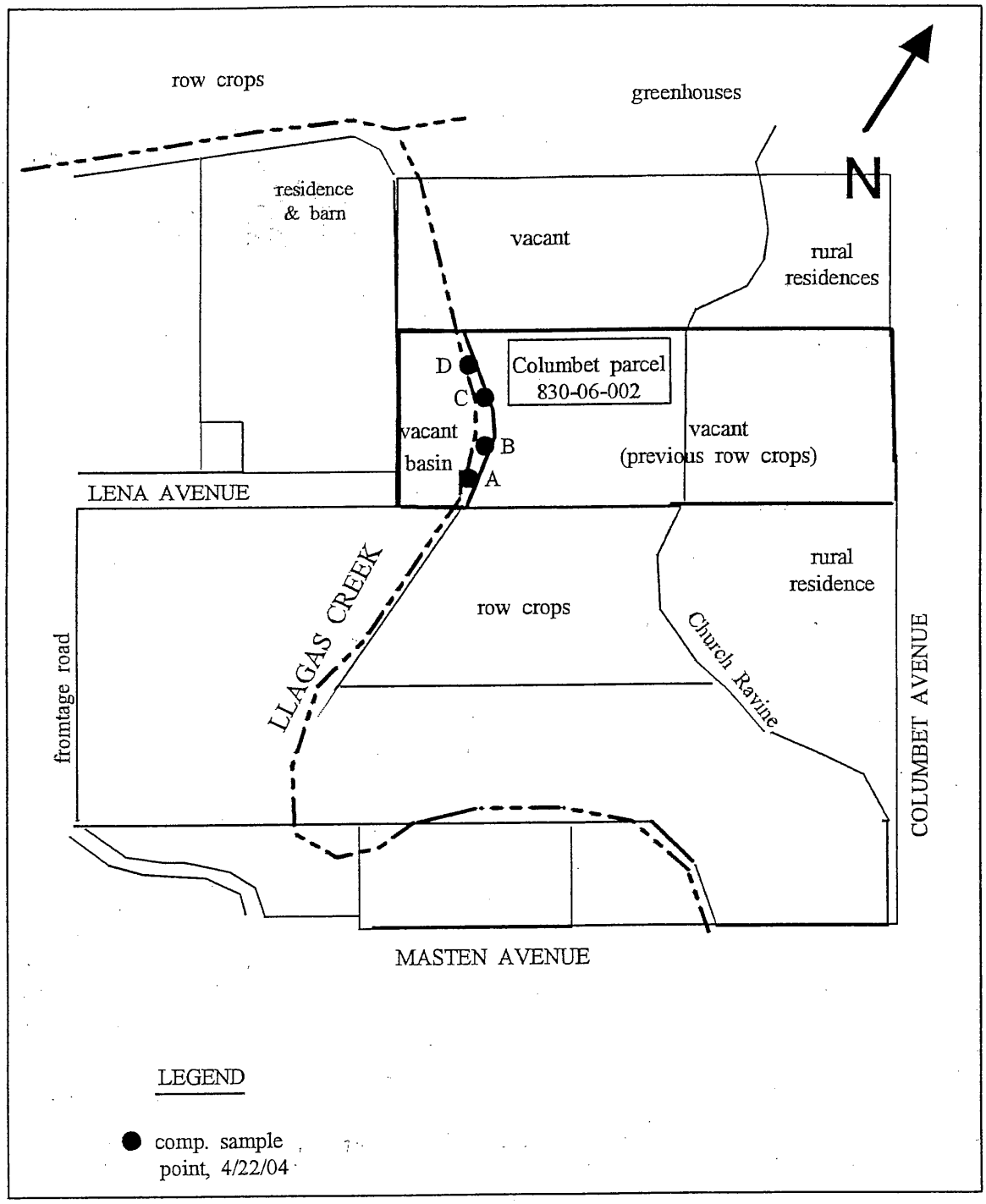

FIGURE 9

SOIL BORING LOCATIONS

APN 830-06-002 (COLUMBET PROPERTY) NOT TO SCALE
GILROY, UPPER LLAGAS CREEK JULY 2004

PIERS ENVIRONMENTAL SERVICES, INC. 1330 S. BASCOM AVE., SUITE F, SAN JOSE, CA 95128
PHONE: 408-559-1248 FAX: 408-559-1224 WWW.PIERSES.COM

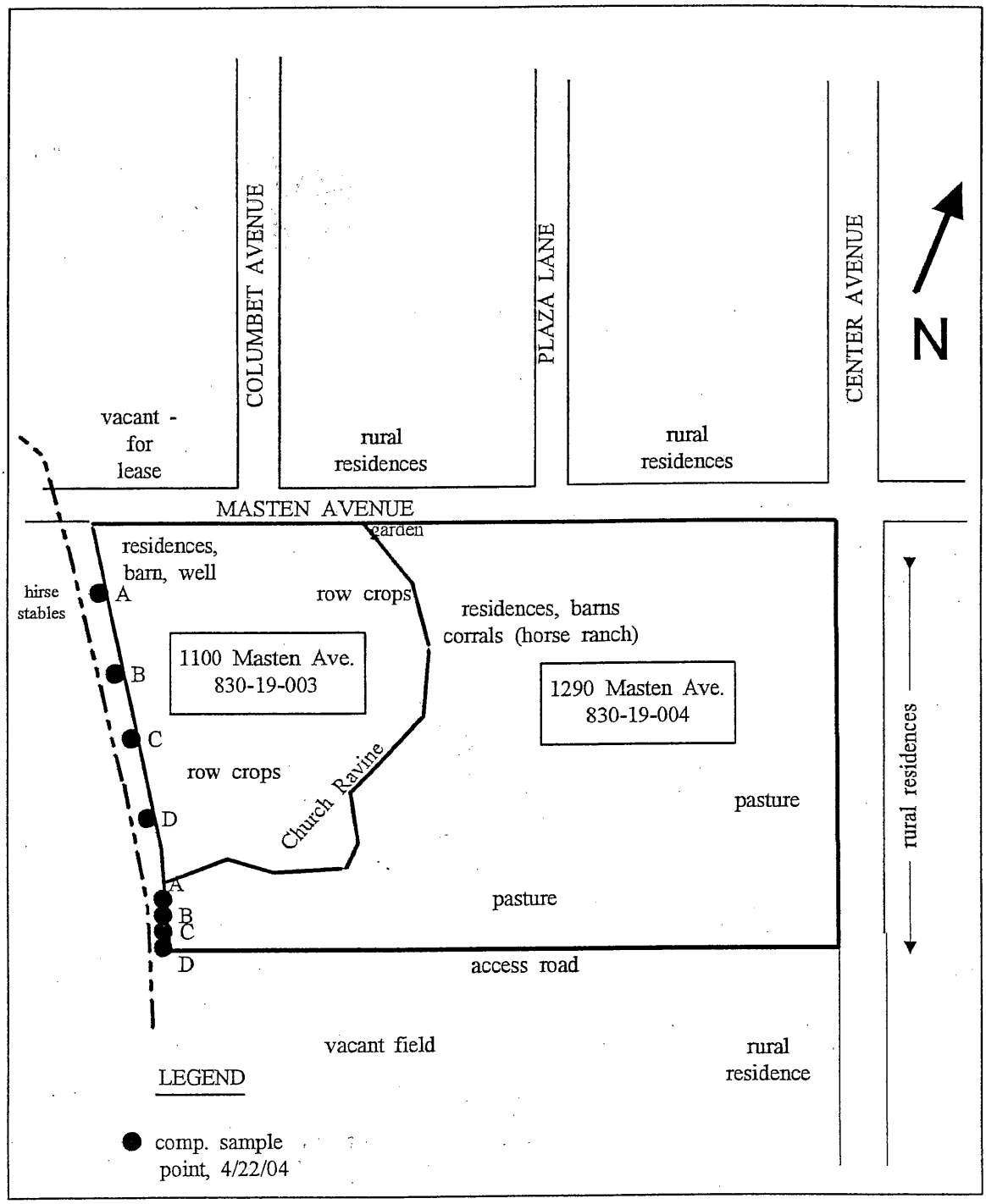

FIGURE 10

SOIL BORING LOCATIONS

1100 & 1290 MASTEN AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

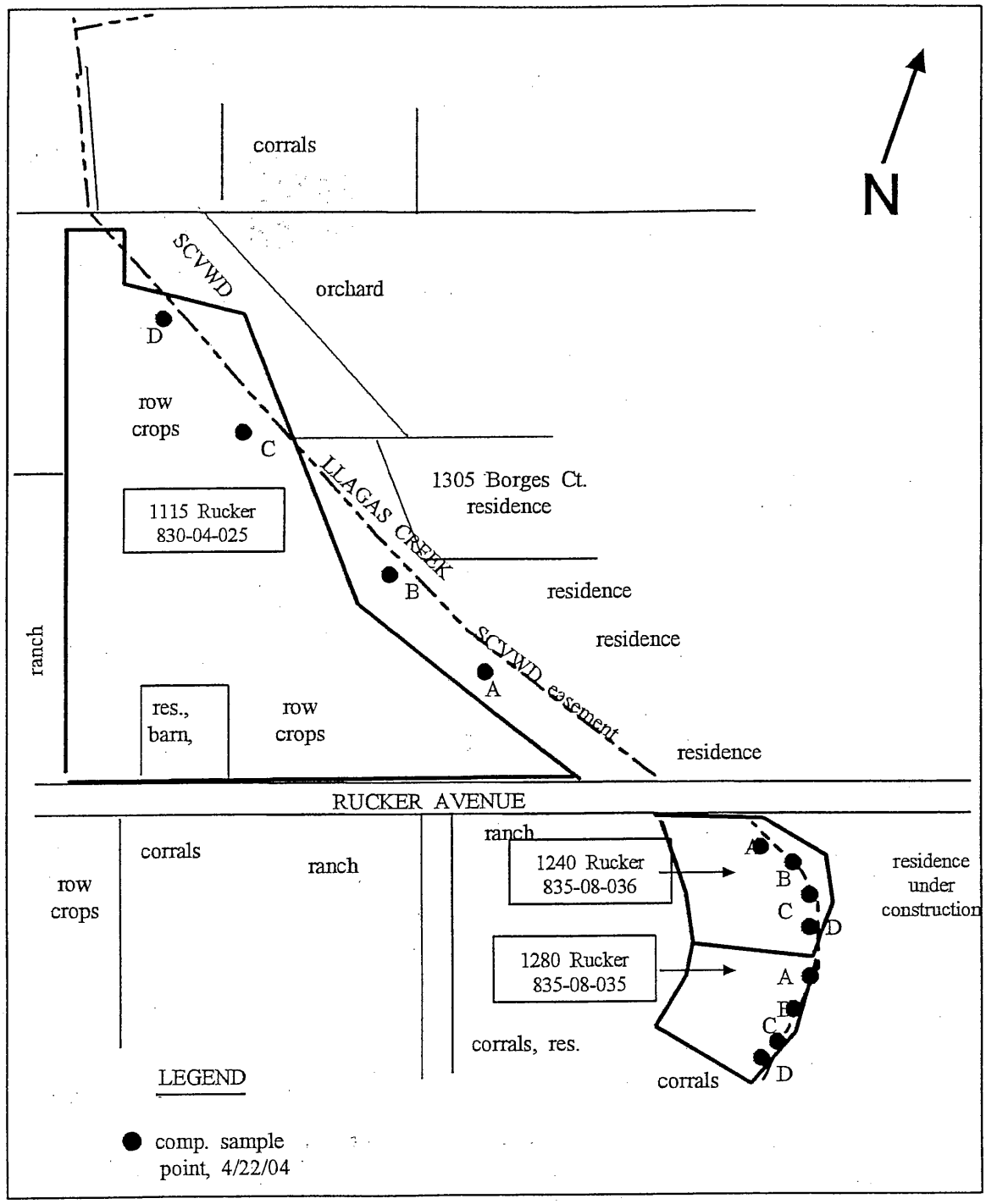

FIGURE 11

SOIL BORING LOCATIONS

1115, 1240 & 1280 RUCKER AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

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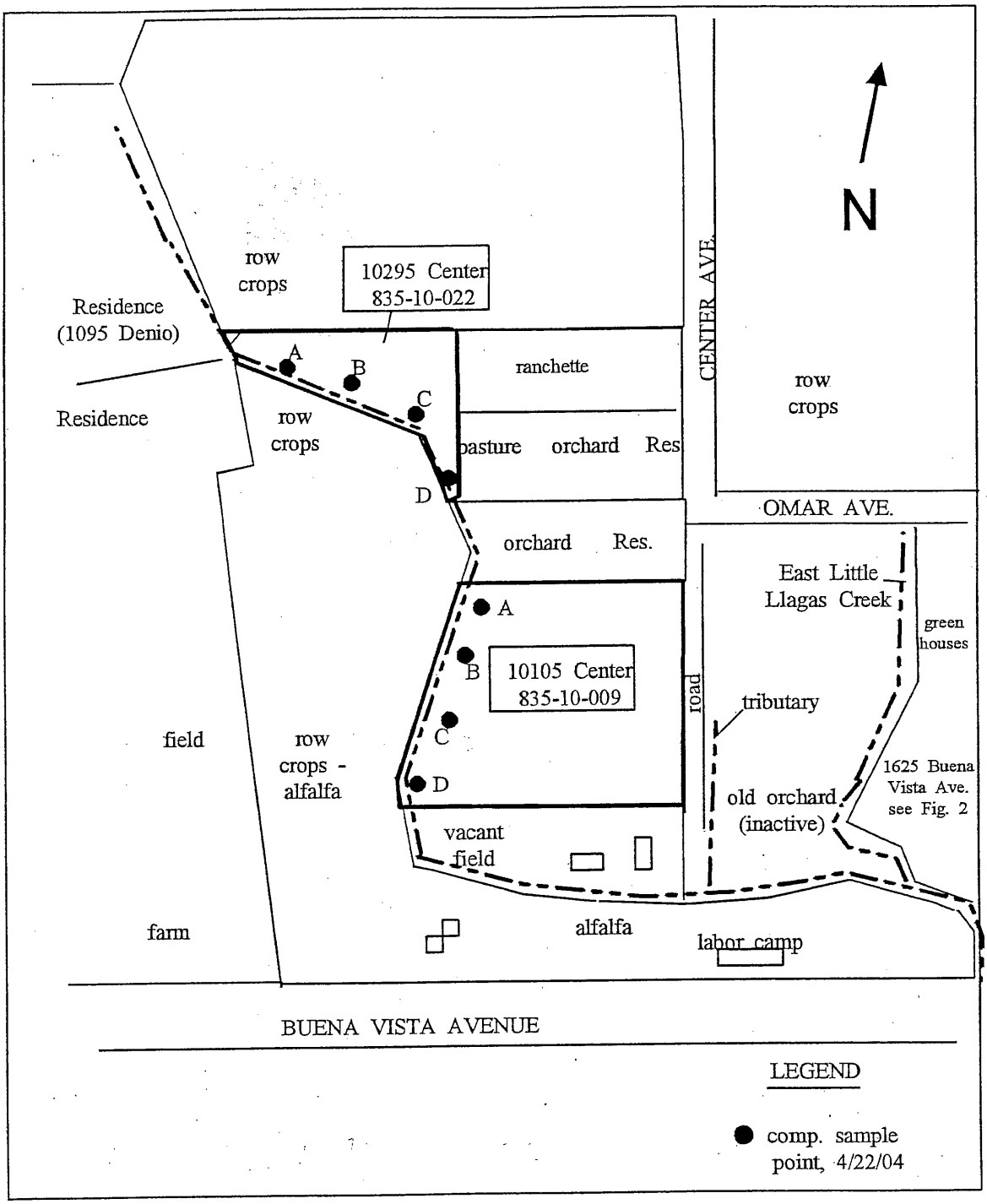

FIGURE 12

SOIL BORING LOCATIONS

10105 & 10295 CENTER AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

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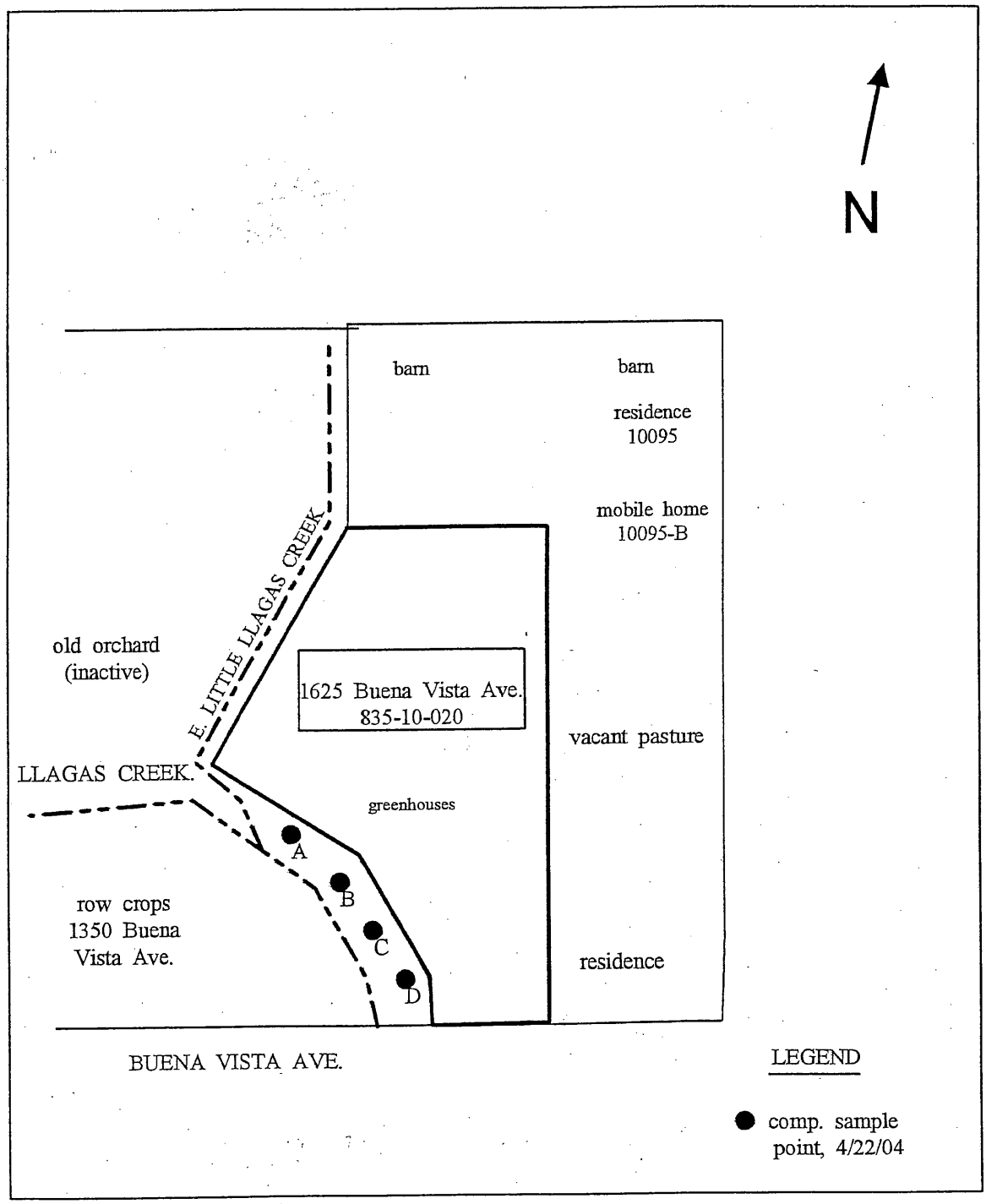

FIGURE 13
SOIL BORING LOCATIONS

1625 BUENA VISTA AVENUE
GILROY, UPPER LLAGAS CREEK

NOT TO SCALE
JULY 2004

PIERS ENVIRONMENTAL SERVICES, INC. 1330 S. BASCOM AVE., SUITE F, SAN JOSE, CA 95128
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7.1.4 CHEMICAL ANALYSIS DATA

TABLE 1
ANALYTICAL RESULTS
Reaches 4 & 5, Upper Llagas Creek
Gilroy, CA

Samples collected on 4/22/2004.

Composite Sample	4, 4' - DDT	Dieldrin	Endosulfan I	delta-BHC	Total Nitrate
1625 Buena Vista Avenue	**0.030**	ND	ND	ND	NA
10295 Center Avenue	**0.012**	**0.0029**	ND	ND	NA
1115 Rucker Avenue	**0.017**	ND	ND	ND	NA
1100 Masten Avenue	ND	ND	**0.008**	ND	NA
415 Lena Avenue	ND	**0.0034**	ND	**0.0016**	NA
830-05-041	**0.018**	ND	**0.021**	ND	NA
1290 Masten Avenue	NA	NA	NA	NA	**2**
Cal/OSHA 8-hr. PEL	**0.07**	**0.02**	**0.006**	**0.04**	*

EXPLANATION:
Soil sample results in parts per million. NA = not analyzed, ND = not detected
PEL = Permissible Exposure Limit * Groundwater only

TABLE 2
ANALYTICAL RESULTS
Reaches 4 & 5, Upper Llagas Creek
Gilroy, CA

Samples collected on 4/22/2004.

Sample	4, 4' - DDD	4, 4' - DDE	4, 4' - DDT	Endosulfan
1100 Masten-A	ND	ND	ND	ND
1100 Masten-B	ND	ND	ND	ND
1100 Masten-C	ND	ND	ND	ND
1100 Masten-D	ND	**0.0037**	ND	ND
830-05-041-A	**0.0076**	**0.050**	ND	ND
830-05-041-B	ND	**0.086**	**0.093**	ND
830-05-041-C	ND	ND	ND	ND
830-05-041-D	ND	**0.0083**	**0.0083**	ND
Cal/OSHA 8-hr. PEL	**0.07**	**0.07**	**0.07**	**0.04**

EXPLANATION:
Soil sample results in parts per million. NA = not analyzed, ND = not detected
PEL = Permissible Exposure Limit

7.2 BACK UP DOCUMENTATION

7.2.1 CHAIN OF CUSTODIES AND CERTIFIED ANALYTIC REPORTS

LABORATORY ANALYTICAL DATA SHEETS AND CHAIN OF CUSTODY

Sequoia Analytical Relog Sheet

g: (X) Client Request ( ) Login Correction ( ) Other:

CLIENT: Piers Environment DATE RELOG: 5/11/04

OJECT ID: DATE DUE:

J. MANAGER: James DATE SAMPLED:

MATRIX: Liquid Soil Other

REVIOUSLY LOGGED IN SAMPLES

[ ] TAT Change status to: 10Day 7Day 5Day 3Day 2Day 1Day ASAP

Change status as of: Date: Time:

[X] CHANGE ANALYSIS [ ] RERUN

Cancel Analysis [ ] Redigest & Reanalyze [ ]

Add to this work order [X] Re-extract & Reanalyze [ ]

Create new work order [ ] Reanalyze Only [ ]

New work order #: Assign new sample #: [ ]

Sample Number	Analysis
MW00544-07	run 8081 as discret samples
-11	(8 samples)
	Masten A
	Masten B
	Masten C
	Masten D
	Run samples past hold.

~~SAMPLES ON HOLD~~

New work order #:

Add analyses to existing work order [ ] TAT

Create a new work order [ ]

Sample Description	Analyses

Client Authorization (person/date/time): Joel Geoger 5/11/04

Project Manager:

G:\user\PM\forms\relog1

Vytas Ankaitis, 2/29/96

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

6 May, 2004

Joel Greger
Piers Environmental
1330 S. Bascom Ave, Suite F
San Jose, CA 95128

RE: Llagas Creek Flood Protection Project
Work Order: MND0544

Enclosed are the results of analyses for samples received by the laboratory on 04/22/04 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Dept Manager - Project Manager

CA ELAP Certificate #1210

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1625 Buena Vista A-D	MND0544-01	Soil	04/22/04 07:00	04/22/04 15:00
10105 Center A-D	MND0544-02	Soil	04/22/04 07:00	04/22/04 15:00
10295 Center A-D	MND0544-03	Soil	04/22/04 07:00	04/22/04 15:00
1240 Rucker A-D	MND0544-04	Soil	04/22/04 07:00	04/22/04 15:00
1280 Rucker A-D	MND0544-05	Soil	04/22/04 07:00	04/22/04 15:00
1115 Rucker A-D	MND0544-06	Soil	04/22/04 07:00	04/22/04 15:00
1100 Master A-D	MND0544-07	Soil	04/22/04 07:00	04/22/04 15:00
1290 Master A-D	MND0544-08	Soil	04/22/04 07:00	04/22/04 15:00
Columbet A-D	MND0544-09	Soil	04/22/04 07:00	04/22/04 15:00
415 Lena A-D	MND0544-10	Soil	04/22/04 13:00	04/22/04 15:00
041 A-D	MND0544-11	Soil	04/22/04 13:20	04/22/04 15:00
11555 Kennedy A-D	MND0544-12	Soil	04/22/04 13:20	04/22/04 15:00
11520 Murphy A-D	MND0544-13	Soil	04/22/04 14:15	04/22/04 15:00

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1625 Buena Vista A-D (MND0544-01) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**30**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*104 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*71.2 %*	*42-153*		"	"	"	"	
10105 Center A-D (MND0544-02) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10105 Center A-D (MND0544-02) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*82.0 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*86.2 %*	*42-153*		"	"	"	"	
10295 Center A-D (MND0544-03) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**12**	6.0	"	"	"	"	"	"	
Dieldrin	**2.9**	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*80.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.9 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1240 Rucker A-D (MND0544-04) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*83.8 %*		*66-116*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*87.7 %*		*42-153*	"	"	"	"	
1280 Rucker A-D (MND0544-05) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1280 Rucker A-D (MND0544-05) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*81.4 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*78.7 %*	*42-153*		"	"	"	"	
1115 Rucker A-D (MND0544-06) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**17**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*92.2 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*77.5 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1100 Master A-D (MND0544-07) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	**8.0**	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*83.2 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.3 %*	*42-153*		"	"	"	"	
Columbet A-D (MND0544-09) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Columbet A-D (MND0544-09) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*75.4 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.6 %*	*42-153*		"	"	"	"	
415 Lena A-D (MND0544-10) Soil	**Sampled: 04/22/04 13:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	**1.6**	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	**3.4**	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*80.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*77.2 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041 A-D (MND0544-11) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									
Aldrin	ND	2.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	CF1
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**18**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	**21**	2.0	"	"	"	"	"	"	CF1
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*66.5 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*63.7 %*	*42-153*		"	"	"	"	
11555 Kennedy A-D (MND0544-12) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11555 Kennedy A-D (MND0544-12) Soil	**Sampled: 04/22/04 13:20**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*77.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*67.0 %*	*42-153*		"	"	"	"	
11520 Murphy A-D (MND0544-13) Soil	**Sampled: 04/22/04 14:15**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*86.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*85.9 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1290 Master A-D (MND0544-08) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Nitrate as N	**2.0**	0.23	mg/kg	1	4D23039	04/23/04	04/23/04	EPA 300.0	

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Microbiological Parameters by APHA Standard Methods
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1290 Master A-D (MND0544-08) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Total Coliforms	ND	20000	MPN/g	1	4D27025	04/22/04	04/26/04	SM 9221	

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Blank (4D28016-BLK1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	ND	1.0	ug/kg							
alpha-BHC	ND	1.0	"							
beta-BHC	ND	1.0	"							
delta-BHC	ND	1.0	"							
gamma-BHC (Lindane)	ND	1.0	"							
Chlordane (tech)	ND	20	"							
4,4'-DDD	ND	6.0	"							
4,4'-DDE	ND	2.0	"							
4,4'-DDT	ND	6.0	"							
Dieldrin	ND	2.0	"							
Endosulfan I	ND	2.0	"							
Endosulfan II	ND	2.0	"							
Endosulfan sulfate	ND	6.0	"							
Endrin	ND	2.0	"							
Endrin aldehyde	ND	6.0	"							
Endrin ketone	ND	6.0	"							
Heptachlor	ND	1.0	"							
Heptachlor epoxide	ND	1.0	"							
Methoxychlor	ND	20	"							
Toxaphene	ND	80	"							
Surrogate: Tetrachloro-m-xylene	*15.5*		"	*16.7*		*92.8*	*66-116*			
Surrogate: Decachlorobiphenyl	*30.4*		"	*33.3*		*91.3*	*42-153*			
Laboratory Control Sample (4D28016-BS1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	3.08	1.0	ug/kg	3.33		92.5	58-112			
alpha-BHC	3.14	1.0	"	3.33		94.3	66-107			
beta-BHC	3.31	1.0	"	3.33		99.4	53-131			
delta-BHC	3.07	1.0	"	3.33		92.2	62-126			
gamma-BHC (Lindane)	3.23	1.0	"	3.33		97.0	46-123			
4,4'-DDD	17.9	6.0	"	20.0		89.5	57-131			
4,4'-DDE	5.43	2.0	"	6.67		81.4	62-113			
4,4'-DDT	18.1	6.0	"	20.0		90.5	36-146			
Dieldrin	6.26	2.0	"	6.67		93.9	62-119			
Endosulfan I	5.44	2.0	"	6.67		81.6	56-109			
Endosulfan II	5.87	2.0	"	6.67		88.0	53-125			
Endosulfan sulfate	19.2	6.0	"	20.0		96.0	61-141			

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Laboratory Control Sample (4D28016-BS1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Endrin	6.30	2.0	ug/kg	6.67		94.5	63-119			
Endrin aldehyde	18.8	6.0	"	20.0		94.0	53-132			
Endrin ketone	19.2	6.0	"	20.0		96.0	51-144			
Heptachlor	3.16	1.0	"	3.33		94.9	56-121			
Heptachlor epoxide	3.11	1.0	"	3.33		93.4	66-115			
Methoxychlor	12.5	20	"	13.3		94.0	17-165			
Surrogate: Tetrachloro-m-xylene	*12.2*		"	*13.3*		*91.7*	*66-116*			
Surrogate: Decachlorobiphenyl	*24.9*		"	*26.7*		*93.3*	*42-153*			
Matrix Spike (4D28016-MS1)	**Source: MND0549-02**			Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	2.80	1.0	ug/kg	3.33	ND	84.1	58-112			
alpha-BHC	2.96	1.0	"	3.33	ND	88.9	66-107			
beta-BHC	3.08	1.0	"	3.33	ND	92.5	53-131			
delta-BHC	3.00	1.0	"	3.33	ND	90.1	62-126			
gamma-BHC (Lindane)	2.99	1.0	"	3.33	ND	89.8	46-123			
4,4'-DDD	16.8	6.0	"	20.0	ND	84.0	57-131			
4,4'-DDE	5.09	2.0	"	6.67	ND	76.3	62-113			
4,4'-DDT	16.8	6.0	"	20.0	ND	84.0	36-146			
Dieldrin	5.86	2.0	"	6.67	ND	87.9	62-119			
Endosulfan I	5.24	2.0	"	6.67	ND	78.6	56-109			
Endosulfan II	5.61	2.0	"	6.67	ND	84.1	53-125			
Endosulfan sulfate	18.1	6.0	"	20.0	ND	90.5	61-141			
Endrin	5.93	2.0	"	6.67	ND	88.9	63-119			
Endrin aldehyde	17.7	6.0	"	20.0	ND	88.5	53-132			
Endrin ketone	18.2	6.0	"	20.0	ND	91.0	51-144			
Heptachlor	2.94	1.0	"	3.33	ND	88.3	56-121			
Heptachlor epoxide	2.92	1.0	"	3.33	ND	87.7	66-115			
Methoxychlor	11.8	20	"	13.3	ND	88.7	17-165			
Surrogate: Tetrachloro-m-xylene	*10.8*		"	*13.3*		*81.2*	*66-116*			
Surrogate: Decachlorobiphenyl	*23.5*		"	*26.7*		*88.0*	*42-153*			

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Matrix Spike Dup (4D28016-MSD1)	**Source: MND0549-02**			Prepared: 04/28/04		Analyzed: 04/29/04				
Aldrin	2.66	1.0	ug/kg	3.33	ND	79.9	58-112	5.13	20	
alpha-BHC	2.80	1.0	"	3.33	ND	84.1	66-107	5.56	20	
beta-BHC	2.91	1.0	"	3.33	ND	87.4	53-131	5.68	20	
delta-BHC	2.85	1.0	"	3.33	ND	85.6	62-126	5.13	20	
gamma-BHC (Lindane)	2.85	1.0	"	3.33	ND	85.6	46-123	4.79	20	
4,4'-DDD	16.5	6.0	"	20.0	ND	82.5	57-131	1.80	20	
4,4'-DDE	4.92	2.0	"	6.67	ND	73.8	62-113	3.40	20	
4,4'-DDT	16.3	6.0	"	20.0	ND	81.5	36-146	3.02	20	
Dieldrin	5.64	2.0	"	6.67	ND	84.6	62-119	3.83	20	
Endosulfan I	4.88	2.0	"	6.67	ND	73.2	56-109	7.11	20	
Endosulfan II	5.21	2.0	"	6.67	ND	78.1	53-125	7.39	20	
Endosulfan sulfate	17.7	6.0	"	20.0	ND	88.5	61-141	2.23	20	
Endrin	5.74	2.0	"	6.67	ND	86.1	63-119	3.26	20	
Endrin aldehyde	16.8	6.0	"	20.0	ND	84.0	53-132	5.22	20	
Endrin ketone	17.5	6.0	"	20.0	ND	87.5	51-144	3.92	20	
Heptachlor	2.84	1.0	"	3.33	ND	85.3	56-121	3.46	20	
Heptachlor epoxide	2.82	1.0	"	3.33	ND	84.7	66-115	3.48	20	
Methoxychlor	11.7	20	"	13.3	ND	88.0	17-165	0.851	20	
Surrogate: Tetrachloro-m-xylene	*10.1*		"	*13.3*		*75.9*	*66-116*			
Surrogate: Decachlorobiphenyl	*22.2*		"	*26.7*		*83.1*	*42-153*			

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D23039 - * DEFAULT PREP *** **										
Blank (4D23039-BLK1)				Prepared & Analyzed: 04/23/04						
Nitrate as N	ND	0.23	mg/kg							
Laboratory Control Sample (4D23039-BS1)				Prepared & Analyzed: 04/23/04						
Nitrate as N	22.2	0.23	mg/kg	22.6		98.2	90-110			
Matrix Spike (4D23039-MS1)	**Source: MND0544-08**			Prepared & Analyzed: 04/23/04						
Nitrate as N	27.9	2.3	mg/kg	22.6	2.0	115	80-120			
Matrix Spike Dup (4D23039-MSD1)	**Source: MND0544-08**			Prepared & Analyzed: 04/23/04						
Nitrate as N	26.1	2.3	mg/kg	22.6	2.0	107	80-120	6.67	20	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/06/04 08:41

Notes and Definitions

CF1	Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SEQUOIA ANALYTICAL
CHAIN OF COUNTY CUSTODY

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- ☐ 1455 McDowell Blvd, Suite D. • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-0342
- ☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 • FAX (916) 921-0100
- ☐ 404 N. Wigot Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

Company Name: Piers Environmental
Project: Llagas Creek Flood Protection Project

Mailing Address: 1330 S. Bascom Ave Suite F
Billing Address (if different): Santa Clara Valley Water District

City: San Jose State: CA Zip Code: 95128
Attn: Michelle Morton

Telephone: 408 559 1248 Fax #: 408 559 1224 also to 510 787 1457 P.O. #:

Report To: Joel Gregor E-mail Address: piers@best.com / pierses.com
QC Data: ☐ Level II (standard) ☐ Level III ☐ Level IV

Sampler: Joel Gregor Date / Time Results Required: 4/22/04 3pm
Sequoia's Work Order # MND0544

Turnaround Time: ☒ 10-15 Working Days (Standard TAT) ☐ 7 Working Days ☐ 5 Working Days ☐ 72 Hours ☐ 48 Hours ☐ 24 Hours ☐ 2-8 Hours

MANDATORY: ☐ SDWA (Drinking Water) ☐ CWA (Waste Water) ☐ RCRA (Hazardous Waste) ☒ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Pesticides EPA 8081 basic list	Total Coliform/Fecal SM 9221 E-B	Total Nitrates SM300							Comments/ Temp.(If required)
1. 1625 Buena Vista A-D	4/22/04 7am	Soil	4	liner	01	X									Return all
2. 10105 Center A-D	↓	↓	↓	↓	02	X									as discrete samples
3. 10295 Center A-D					03	X									for possible
4. 1240 Rucker A-D					04	X									future
5. 880 Rucker A-D					05	X									analysis
6. 1115 Rucker A-D					06	X									
7. 1100 Masten A-D					07	X									
8. 1290 Masten A-D					08		X	X							
9. Colombet A-D					09	X									
10. 415 Lena A-D	1pm				10	X									

Relinquished by / Co.: Joel Gregor Piers Env. Received by / Co.: M. Cavano Date / Time / Temp.: 4/22/04 302pm
Relinquished by / Co.: Received by / Co.: Date / Time / Temp.:
Relinquished by / Co.: Received by / Co.: Date / Time / Temp.:
Relinquished by / Co.: Received by / Co.: Date / Time / Temp.:

Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: Client Page 1 of 2

White: Sequoia Yellow: Sequoia Pink: Client

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☐ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: Piers Environmental		Project: Llagas Creek Flood Protection Project	
Mailing Address: 1330 S. Bascom Ave Suite 1		Billing Address (if different): Santa Clara Valley Water District	
City: San Jose	State: CA Zip Code: 95128	Attn: Michelle Martin	
Telephone: 408 3591248	Fax #: 408 5591224 also to 5107871451	P.O. #:	
Report To: Joe / Gregor	E-mail Address: piers@pierses.com	QC Data: ☐ Level II (standard) ☐ Level III ☐ Level IV	
Sampler: Joe / Gregor	Date / Time Results Required:	Sequoia's Work Order #: MJD0541	

Turnaround Time:
- ☒ 10-15 Working Days (Standard TAT)
- ☐ 7 Working Days
- ☐ 5 Working Days
- ☐ 72 Hours
- ☐ 48 Hours
- ☐ 24 Hours
- ☐ 2-8 Hours

MANDATORY:
- ☐ SDWA (Drinking Water)
- ☐ CWA (Waste Water)
- ☐ RCRA (Hazardous Waste)
- ☐ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	Pesticides EPA 8081 Basic List	Total Petroleum Hydrocarbons (TPH) as Gasoline	Comments / Temp. (If required)
1. 041-A-D	4/22/04 12:00PM	Soil	4	liners	11	X		Retain all as discrete samples for possible future analysis
2. 11525 Kennedy A-D	↓	↓	↓	↓	12	X		
3. 11520 Murphy A-D	4/22/04 2:15PM	↓	↓	↓	13	X		
4.								
5.								
6.								
7.								
8.								
9.								
10.								

Relinquished by / Co.: John Piers Env.	Received by / Co.: Joe for M Stevens	Date / Time / Temp.: 4/22/04 3:02PM
Relinquished by / Co.:	Received by / Co.:	Date / Time / Temp.:
Relinquished by / Co.:	Received by / Co.:	Date / Time / Temp.:
Relinquished by / Co.:	Received by / Co.:	Date / Time / Temp.:

Were Samples Received in Good Condition? ☒ Yes ☐ No Samples on Ice? ☒ Yes ☐ No Method of Shipment: client

White: Sequoia Yellow: Sequoia Pink: Client

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26 May, 2004

Joel Greger
Piers Environmental
1330 S. Bascom Ave, Suite F
San Jose, CA 95128

RE: Llagas Creek Flood Protection Project
Work Order: MND0544

Enclosed are the results of analyses for samples received by the laboratory on 04/22/04 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James Hartley
Dept Manager - Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1625 Buena Vista A-D	MND0544-01	Soil	04/22/04 07:00	04/22/04 15:00
10105 Center A-D	MND0544-02	Soil	04/22/04 07:00	04/22/04 15:00
10295 Center A-D	MND0544-03	Soil	04/22/04 07:00	04/22/04 15:00
1240 Rucker A-D	MND0544-04	Soil	04/22/04 07:00	04/22/04 15:00
1280 Rucker A-D	MND0544-05	Soil	04/22/04 07:00	04/22/04 15:00
1115 Rucker A-D	MND0544-06	Soil	04/22/04 07:00	04/22/04 15:00
1100 Masten A-D	MND0544-07	Soil	04/22/04 07:00	04/22/04 15:00
1290 Master A-D	MND0544-08	Soil	04/22/04 07:00	04/22/04 15:00
Columbet A-D	MND0544-09	Soil	04/22/04 07:00	04/22/04 15:00
415 Lena A-D	MND0544-10	Soil	04/22/04 13:00	04/22/04 15:00
041 A-D	MND0544-11	Soil	04/22/04 13:20	04/22/04 15:00
11555 Kennedy A-D	MND0544-12	Soil	04/22/04 13:20	04/22/04 15:00
11520 Murphy A-D	MND0544-13	Soil	04/22/04 14:15	04/22/04 15:00
1100 Masten-A	MND0544-14	Soil	04/22/04 07:00	04/22/04 15:00
1100 Masten-B	MND0544-15	Soil	04/22/04 07:00	04/22/04 15:00
1100 Masten-C	MND0544-16	Soil	04/22/04 07:00	04/22/04 15:00
1100 Masten-D	MND0544-17	Soil	04/22/04 07:00	04/22/04 15:00
041-A	MND0544-18	Soil	04/22/04 13:20	04/22/04 15:00
041-B	MND0544-19	Soil	04/22/04 13:20	04/22/04 15:00
041-C	MND0544-20	Soil	04/22/04 13:20	04/22/04 15:00
041-D	MND0544-21	Soil	04/22/04 13:20	04/22/04 15:00

Sequoia Analytical

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1625 Buena Vista A-D (MND0544-01) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**30**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*104 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*71.2 %*	*42-153*		"	"	"	"	
10105 Center A-D (MND0544-02) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
10105 Center A-D (MND0544-02) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*82.0 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*86.2 %*	*42-153*		"	"	"	"	
10295 Center A-D (MND0544-03) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**12**	6.0	"	"	"	"	"	"	
Dieldrin	**2.9**	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*80.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.9 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1240 Rucker A-D (MND0544-04) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*83.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*87.7 %*	*42-153*		"	"	"	"	
1280 Rucker A-D (MND0544-05) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1280 Rucker A-D (MND0544-05) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*81.4 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*78.7 %*	*42-153*		"	"	"	"	
1115 Rucker A-D (MND0544-06) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**17**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*92.2 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*77.5 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1100 Masten A-D (MND0544-07) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	**8.0**	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*83.2 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.3 %*	*42-153*		"	"	"	"	
Columbet A-D (MND0544-09) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Columbet A-D (MND0544-09) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*75.4 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*76.6 %*	*42-153*		"	"	"	"	
415 Lena A-D (MND0544-10) Soil	**Sampled: 04/22/04 13:00**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	**1.6**	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	**3.4**	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*80.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*77.2 %*	*42-153*		"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041 A-D (MND0544-11) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									
Aldrin	ND	2.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	CF1
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	**18**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	**21**	2.0	"	"	"	"	"	"	CF1
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*66.5 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*63.7 %*	*42-153*		"	"	"	"	
11555 Kennedy A-D (MND0544-12) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
11555 Kennedy A-D (MND0544-12) Soil	**Sampled: 04/22/04 13:20**		**Received: 04/22/04 15:00**						
Heptachlor	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*77.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*67.0 %*	*42-153*		"	"	"	"	
11520 Murphy A-D (MND0544-13) Soil	**Sampled: 04/22/04 14:15**		**Received: 04/22/04 15:00**						
Aldrin	ND	1.0	ug/kg	1	4D28016	04/28/04	04/29/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*86.8 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*85.9 %*	*42-153*		"	"	"	"	

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1100 Masten-A (MND0544-14) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							**HT-03, R-05**
Aldrin	ND	10	ug/kg	10	4E14016	05/14/04	05/25/04	EPA 8081A	
alpha-BHC	ND	10	"	"	"	"	"	"	
beta-BHC	ND	10	"	"	"	"	"	"	
delta-BHC	ND	10	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	
Chlordane (tech)	ND	200	"	"	"	"	"	"	
4,4'-DDD	ND	60	"	"	"	"	"	"	
4,4'-DDE	ND	20	"	"	"	"	"	"	
4,4'-DDT	ND	60	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	20	"	"	"	"	"	"	
Endosulfan II	ND	20	"	"	"	"	"	"	
Endosulfan sulfate	ND	60	"	"	"	"	"	"	
Endrin	ND	20	"	"	"	"	"	"	
Endrin aldehyde	ND	60	"	"	"	"	"	"	
Endrin ketone	ND	60	"	"	"	"	"	"	
Heptachlor	ND	10	"	"	"	"	"	"	
Heptachlor epoxide	ND	10	"	"	"	"	"	"	
Methoxychlor	ND	200	"	"	"	"	"	"	
Toxaphene	ND	800	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*83.2 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*312 %*	*42-153*		"	"	"	"	*S07*
1100 Masten-B (MND0544-15) Soil	**Sampled: 04/22/04 07:00**	**Received: 04/22/04 15:00**							**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1100 Masten-B (MND0544-15) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						**HT-03**
Heptachlor	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*70.1 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*47.4 %*	*42-153*		"	"	"	"	
1100 Masten-C (MND0544-16) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*108 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*14.2 %*	*42-153*		"	"	"	"	*S07*

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1100 Masten-D (MND0544-17) Soil Sampled: 04/22/04 07:00 Received: 04/22/04 15:00									**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	**3.7**	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*56.5 %*	*66-116*		"	"	"	"	*S07*
Surrogate: Decachlorobiphenyl		*65.5 %*	*42-153*		"	"	"	"	
041-A (MND0544-18) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	**7.6**	6.0	"	"	"	"	"	"	
4,4'-DDE	**50**	10	"	5	"	"	05/25/04	"	
4,4'-DDT	ND	6.0	"	1	"	"	05/21/04	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041-A (MND0544-18) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03**
Heptachlor	ND	1.0	ug/kg	1	4E14016	05/14/04	05/21/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*58.4 %*	*66-116*		"	"	"	"	*S07*
Surrogate: Decachlorobiphenyl		*105 %*	*42-153*		"	"	"	"	
041-B (MND0544-19) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03, R-05**
Aldrin	ND	10	ug/kg	10	4E14016	05/14/04	05/25/04	EPA 8081A	
alpha-BHC	ND	10	"	"	"	"	"	"	
beta-BHC	ND	10	"	"	"	"	"	"	
delta-BHC	ND	10	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	10	"	"	"	"	"	"	
Chlordane (tech)	ND	200	"	"	"	"	"	"	
4,4'-DDD	ND	60	"	"	"	"	"	"	
4,4'-DDE	**86**	20	"	"	"	"	"	"	
4,4'-DDT	**93**	60	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	20	"	"	"	"	"	"	
Endosulfan II	ND	20	"	"	"	"	"	"	
Endosulfan sulfate	ND	60	"	"	"	"	"	"	
Endrin	ND	20	"	"	"	"	"	"	
Endrin aldehyde	ND	60	"	"	"	"	"	"	
Endrin ketone	ND	60	"	"	"	"	"	"	
Heptachlor	ND	10	"	"	"	"	"	"	
Heptachlor epoxide	ND	10	"	"	"	"	"	"	
Methoxychlor	ND	200	"	"	"	"	"	"	
Toxaphene	ND	800	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*67.1 %*	*66-116*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*190 %*	*42-153*		"	"	"	"	*S07*

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
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Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041-C (MND0544-20) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/25/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	ND	2.0	"	"	"	"	"	"	
4,4'-DDT	ND	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	
Heptachlor	ND	1.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*61.7 %*	*66-116*		"	"	"	"	*S07*
Surrogate: Decachlorobiphenyl		*74.8 %*	*42-153*		"	"	"	"	
041-D (MND0544-21) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03**
Aldrin	ND	1.0	ug/kg	1	4E14016	05/14/04	05/25/04	EPA 8081A	
alpha-BHC	ND	1.0	"	"	"	"	"	"	
beta-BHC	ND	1.0	"	"	"	"	"	"	
delta-BHC	ND	1.0	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	1.0	"	"	"	"	"	"	
Chlordane (tech)	ND	20	"	"	"	"	"	"	
4,4'-DDD	ND	6.0	"	"	"	"	"	"	
4,4'-DDE	**8.3**	2.0	"	"	"	"	"	"	
4,4'-DDT	**8.3**	6.0	"	"	"	"	"	"	
Dieldrin	ND	2.0	"	"	"	"	"	"	
Endosulfan I	ND	2.0	"	"	"	"	"	"	
Endosulfan II	ND	2.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	6.0	"	"	"	"	"	"	
Endrin	ND	2.0	"	"	"	"	"	"	
Endrin aldehyde	ND	6.0	"	"	"	"	"	"	
Endrin ketone	ND	6.0	"	"	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
041-D (MND0544-21) Soil Sampled: 04/22/04 13:20 Received: 04/22/04 15:00									**HT-03**
Heptachlor	ND	1.0	ug/kg	1	4E14016	05/14/04	05/25/04	EPA 8081A	
Heptachlor epoxide	ND	1.0	"	"	"	"	"	"	
Methoxychlor	ND	20	"	"	"	"	"	"	
Toxaphene	ND	80	"	"	"	"	"	"	
Surrogate: Tetrachloro-m-xylene		*56.2 %*		*66-116*	"	"	"	"	*S07*
Surrogate: Decachlorobiphenyl		*53.5 %*		*42-153*	"	"	"	"	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Anions by EPA Method 300.0

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1290 Master A-D (MND0544-08) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Nitrate as N	**2.0**	0.23	mg/kg	1	4D23039	04/23/04	04/23/04	EPA 300.0	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Microbiological Parameters by APHA Standard Methods

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1290 Master A-D (MND0544-08) Soil	**Sampled: 04/22/04 07:00**		**Received: 04/22/04 15:00**						
Total Coliforms	ND	20000	MPN/g	1	4D27025	04/22/04	04/26/04	SM 9221	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Blank (4D28016-BLK1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	ND	1.0	ug/kg							
alpha-BHC	ND	1.0	"							
beta-BHC	ND	1.0	"							
delta-BHC	ND	1.0	"							
gamma-BHC (Lindane)	ND	1.0	"							
Chlordane (tech)	ND	20	"							
4,4'-DDD	ND	6.0	"							
4,4'-DDE	ND	2.0	"							
4,4'-DDT	ND	6.0	"							
Dieldrin	ND	2.0	"							
Endosulfan I	ND	2.0	"							
Endosulfan II	ND	2.0	"							
Endosulfan sulfate	ND	6.0	"							
Endrin	ND	2.0	"							
Endrin aldehyde	ND	6.0	"							
Endrin ketone	ND	6.0	"							
Heptachlor	ND	1.0	"							
Heptachlor epoxide	ND	1.0	"							
Methoxychlor	ND	20	"							
Toxaphene	ND	80	"							
Surrogate: Tetrachloro-m-xylene	*15.5*		"	*16.7*		*92.8*	*66-116*			
Surrogate: Decachlorobiphenyl	*30.4*		"	*33.3*		*91.3*	*42-153*			
Laboratory Control Sample (4D28016-BS1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	3.08	1.0	ug/kg	3.33		92.5	58-112			
alpha-BHC	3.14	1.0	"	3.33		94.3	66-107			
beta-BHC	3.31	1.0	"	3.33		99.4	53-131			
delta-BHC	3.07	1.0	"	3.33		92.2	62-126			
gamma-BHC (Lindane)	3.23	1.0	"	3.33		97.0	46-123			
4,4'-DDD	17.9	6.0	"	20.0		89.5	57-131			
4,4'-DDE	5.43	2.0	"	6.67		81.4	62-113			
4,4'-DDT	18.1	6.0	"	20.0		90.5	36-146			
Dieldrin	6.26	2.0	"	6.67		93.9	62-119			
Endosulfan I	5.44	2.0	"	6.67		81.6	56-109			
Endosulfan II	5.87	2.0	"	6.67		88.0	53-125			
Endosulfan sulfate	19.2	6.0	"	20.0		96.0	61-141			

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1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Laboratory Control Sample (4D28016-BS1)				Prepared: 04/28/04 Analyzed: 04/29/04						
Endrin	6.30	2.0	ug/kg	6.67		94.5	63-119			
Endrin aldehyde	18.8	6.0	"	20.0		94.0	53-132			
Endrin ketone	19.2	6.0	"	20.0		96.0	51-144			
Heptachlor	3.16	1.0	"	3.33		94.9	56-121			
Heptachlor epoxide	3.11	1.0	"	3.33		93.4	66-115			
Methoxychlor	12.5	20	"	13.3		94.0	17-165			
Surrogate: Tetrachloro-m-xylene	*12.2*		"	*13.3*		*91.7*	*66-116*			
Surrogate: Decachlorobiphenyl	*24.9*		"	*26.7*		*93.3*	*42-153*			
Matrix Spike (4D28016-MS1)	**Source: MND0549-02**			Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	2.80	1.0	ug/kg	3.33	ND	84.1	58-112			
alpha-BHC	2.96	1.0	"	3.33	ND	88.9	66-107			
beta-BHC	3.08	1.0	"	3.33	ND	92.5	53-131			
delta-BHC	3.00	1.0	"	3.33	ND	90.1	62-126			
gamma-BHC (Lindane)	2.99	1.0	"	3.33	ND	89.8	46-123			
4,4'-DDD	16.8	6.0	"	20.0	ND	84.0	57-131			
4,4'-DDE	5.09	2.0	"	6.67	ND	76.3	62-113			
4,4'-DDT	16.8	6.0	"	20.0	ND	84.0	36-146			
Dieldrin	5.86	2.0	"	6.67	ND	87.9	62-119			
Endosulfan I	5.24	2.0	"	6.67	ND	78.6	56-109			
Endosulfan II	5.61	2.0	"	6.67	ND	84.1	53-125			
Endosulfan sulfate	18.1	6.0	"	20.0	ND	90.5	61-141			
Endrin	5.93	2.0	"	6.67	ND	88.9	63-119			
Endrin aldehyde	17.7	6.0	"	20.0	ND	88.5	53-132			
Endrin ketone	18.2	6.0	"	20.0	ND	91.0	51-144			
Heptachlor	2.94	1.0	"	3.33	ND	88.3	56-121			
Heptachlor epoxide	2.92	1.0	"	3.33	ND	87.7	66-115			
Methoxychlor	11.8	20	"	13.3	ND	88.7	17-165			
Surrogate: Tetrachloro-m-xylene	*10.8*		"	*13.3*		*81.2*	*66-116*			
Surrogate: Decachlorobiphenyl	*23.5*		"	*26.7*		*88.0*	*42-153*			

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San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D28016 - EPA 3550B										
Matrix Spike Dup (4D28016-MSD1)	**Source: MND0549-02**			Prepared: 04/28/04 Analyzed: 04/29/04						
Aldrin	2.66	1.0	ug/kg	3.33	ND	79.9	58-112	5.13	20	
alpha-BHC	2.80	1.0	"	3.33	ND	84.1	66-107	5.56	20	
beta-BHC	2.91	1.0	"	3.33	ND	87.4	53-131	5.68	20	
delta-BHC	2.85	1.0	"	3.33	ND	85.6	62-126	5.13	20	
gamma-BHC (Lindane)	2.85	1.0	"	3.33	ND	85.6	46-123	4.79	20	
4,4'-DDD	16.5	6.0	"	20.0	ND	82.5	57-131	1.80	20	
4,4'-DDE	4.92	2.0	"	6.67	ND	73.8	62-113	3.40	20	
4,4'-DDT	16.3	6.0	"	20.0	ND	81.5	36-146	3.02	20	
Dieldrin	5.64	2.0	"	6.67	ND	84.6	62-119	3.83	20	
Endosulfan I	4.88	2.0	"	6.67	ND	73.2	56-109	7.11	20	
Endosulfan II	5.21	2.0	"	6.67	ND	78.1	53-125	7.39	20	
Endosulfan sulfate	17.7	6.0	"	20.0	ND	88.5	61-141	2.23	20	
Endrin	5.74	2.0	"	6.67	ND	86.1	63-119	3.26	20	
Endrin aldehyde	16.8	6.0	"	20.0	ND	84.0	53-132	5.22	20	
Endrin ketone	17.5	6.0	"	20.0	ND	87.5	51-144	3.92	20	
Heptachlor	2.84	1.0	"	3.33	ND	85.3	56-121	3.46	20	
Heptachlor epoxide	2.82	1.0	"	3.33	ND	84.7	66-115	3.48	20	
Methoxychlor	11.7	20	"	13.3	ND	88.0	17-165	0.851	20	
Surrogate: Tetrachloro-m-xylene	*10.1*		*"*	*13.3*		*75.9*	*66-116*			
Surrogate: Decachlorobiphenyl	*22.2*		*"*	*26.7*		*83.1*	*42-153*			
Batch 4E14016 - EPA 3550B										
Blank (4E14016-BLK1)				Prepared: 05/14/04 Analyzed: 05/21/04						
Aldrin	ND	1.0	ug/kg							
alpha-BHC	ND	1.0	"							
beta-BHC	ND	1.0	"							
delta-BHC	ND	1.0	"							
gamma-BHC (Lindane)	ND	1.0	"							
Chlordane (tech)	ND	20	"							
4,4'-DDD	ND	6.0	"							
4,4'-DDE	ND	2.0	"							
4,4'-DDT	ND	6.0	"							
Dieldrin	ND	2.0	"							
Endosulfan I	ND	2.0	"							
Endosulfan II	ND	2.0	"							
Endosulfan sulfate	ND	6.0	"							

Sequoia Analytical

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E14016 - EPA 3550B										
Blank (4E14016-BLK1)				Prepared: 05/14/04 Analyzed: 05/21/04						
Endrin	ND	2.0	ug/kg							
Endrin aldehyde	ND	6.0	"							
Endrin ketone	ND	6.0	"							
Heptachlor	ND	1.0	"							
Heptachlor epoxide	ND	1.0	"							
Methoxychlor	ND	20	"							
Toxaphene	ND	80	"							
Surrogate: Tetrachloro-m-xylene	*12.9*		"	*16.7*		*77.2*	*66-116*			
Surrogate: Decachlorobiphenyl	*32.0*		"	*33.3*		*96.1*	*42-153*			
Laboratory Control Sample (4E14016-BS1)				Prepared: 05/14/04 Analyzed: 05/25/04						
Aldrin	2.55	1.0	ug/kg	3.33		76.6	58-112			
alpha-BHC	2.81	1.0	"	3.33		84.4	66-107			
beta-BHC	2.74	1.0	"	3.33		82.3	53-131			
delta-BHC	3.63	1.0	"	3.33		109	62-126			
gamma-BHC (Lindane)	2.87	1.0	"	3.33		86.2	46-123			
4,4'-DDD	16.8	6.0	"	20.0		84.0	57-131			
4,4'-DDE	5.08	2.0	"	6.67		76.2	62-113			
4,4'-DDT	20.1	6.0	"	20.0		100	36-146			
Dieldrin	5.37	2.0	"	6.67		80.5	62-119			
Endosulfan I	5.08	2.0	"	6.67		76.2	56-109			
Endosulfan II	5.92	2.0	"	6.67		88.8	53-125			
Endosulfan sulfate	23.4	6.0	"	20.0		117	61-141			
Endrin	5.43	2.0	"	6.67		81.4	63-119			
Endrin aldehyde	15.6	6.0	"	20.0		78.0	53-132			
Endrin ketone	24.1	6.0	"	20.0		120	51-144			
Heptachlor	2.73	1.0	"	3.33		82.0	56-121			
Heptachlor epoxide	2.73	1.0	"	3.33		82.0	66-115			
Methoxychlor	14.9	20	"	13.3		112	17-165			
Surrogate: Tetrachloro-m-xylene	*10.1*		"	*13.3*		*75.9*	*66-116*			
Surrogate: Decachlorobiphenyl	*23.5*		"	*26.7*		*88.0*	*42-153*			

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E14016 - EPA 3550B										
Matrix Spike (4E14016-MS1)	**Source: MND0544-19**			Prepared: 05/14/04		Analyzed: 05/25/04				**HT-03, QM04**
Aldrin	2.08	10	ug/kg	3.33	ND	62.5	58-112			
alpha-BHC	6.45	10	"	3.33	ND	194	66-107			
beta-BHC	3.82	10	"	3.33	ND	115	53-131			
delta-BHC	5.47	10	"	3.33	ND	164	62-126			
gamma-BHC (Lindane)	ND	10	"	3.33	ND		46-123			
4,4'-DDD	21.8	60	"	20.0	ND	109	57-131			
4,4'-DDE	89.4	20	"	6.67	86	51.0	62-113			
4,4'-DDT	108	60	"	20.0	93	75.0	36-146			
Dieldrin	8.29	20	"	6.67	ND	124	62-119			
Endosulfan I	7.82	20	"	6.67	ND	117	56-109			
Endosulfan II	ND	20	"	6.67	ND		53-125			
Endosulfan sulfate	ND	60	"	20.0	ND		61-141			
Endrin	ND	20	"	6.67	ND		63-119			
Endrin aldehyde	25.2	60	"	20.0	ND	126	53-132			
Endrin ketone	ND	60	"	20.0	ND		51-144			
Heptachlor	ND	10	"	3.33	ND		56-121			
Heptachlor epoxide	8.94	10	"	3.33	ND	268	66-115			
Methoxychlor	ND	200	"	13.3	ND		17-165			
Surrogate: Tetrachloro-m-xylene	*11.4*		*"*	*13.3*		*85.7*	*66-116*			
Surrogate: Decachlorobiphenyl	*48.7*		*"*	*26.7*		*182*	*42-153*			*S08*
Matrix Spike Dup (4E14016-MSD1)	**Source: MND0544-19**			Prepared: 05/14/04		Analyzed: 05/25/04				**HT-03, QM04**
Aldrin	2.05	10	ug/kg	3.33	ND	61.6	58-112	1.45	20	
alpha-BHC	4.17	10	"	3.33	ND	125	66-107	42.9	20	
beta-BHC	ND	10	"	3.33	ND		53-131		20	
delta-BHC	6.02	10	"	3.33	ND	181	62-126	9.57	20	
gamma-BHC (Lindane)	5.95	10	"	3.33	ND	179	46-123		20	
4,4'-DDD	25.5	60	"	20.0	ND	128	57-131	15.6	20	
4,4'-DDE	100	20	"	6.67	86	210	62-113	11.2	20	
4,4'-DDT	142	60	"	20.0	93	245	36-146	27.2	20	
Dieldrin	8.40	20	"	6.67	ND	126	62-119	1.32	20	
Endosulfan I	ND	20	"	6.67	ND		56-109		20	
Endosulfan II	ND	20	"	6.67	ND		53-125		20	
Endosulfan sulfate	29.0	60	"	20.0	ND	145	61-141		20	
Endrin	15.4	20	"	6.67	ND	231	63-119		20	
Endrin aldehyde	24.0	60	"	20.0	ND	120	53-132	4.88	20	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Organochlorine Pesticides by EPA Method 8081A - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4E14016 - EPA 3550B										
Matrix Spike Dup (4E14016-MSD1)	**Source: MND0544-19**			Prepared: 05/14/04		Analyzed: 05/25/04				**HT-03, QM04**
Endrin ketone	ND	60	ug/kg	20.0	ND		51-144		20	
Heptachlor	3.59	10	"	3.33	ND	108	56-121		20	
Heptachlor epoxide	ND	10	"	3.33	ND		66-115		20	
Methoxychlor	ND	200	"	13.3	ND		17-165		20	
Surrogate: Tetrachloro-m-xylene	*14.3*		*"*	*13.3*		*108*	*66-116*			
Surrogate: Decachlorobiphenyl	*60.0*		*"*	*26.7*		*225*	*42-153*			*S08*

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4D23039 - * DEFAULT PREP *****										
Blank (4D23039-BLK1)				Prepared & Analyzed: 04/23/04						
Nitrate as N	ND	0.23	mg/kg							
Laboratory Control Sample (4D23039-BS1)				Prepared & Analyzed: 04/23/04						
Nitrate as N	22.2	0.23	mg/kg	22.6		98.2	90-110			
Matrix Spike (4D23039-MS1)	**Source: MND0544-08**			Prepared & Analyzed: 04/23/04						
Nitrate as N	27.9	2.3	mg/kg	22.6	2.0	115	80-120			
Matrix Spike Dup (4D23039-MSD1)	**Source: MND0544-08**			Prepared & Analyzed: 04/23/04						
Nitrate as N	26.1	2.3	mg/kg	22.6	2.0	107	80-120	6.67	20	

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Piers Environmental	Project: Llagas Creek Flood Protection Project	MND0544
1330 S. Bascom Ave, Suite F	Project Number: -	**Reported:**
San Jose CA, 95128	Project Manager: Joel Greger	05/26/04 13:08

Notes and Definitions

S08	The surrogate recovery for this sample is not available due to sample dilution which was required by high analyte concentration and/or matrix interference.
S07	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
R-05	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QM04	The spike recovery was above control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
HT-03	This sample was extracted beyond the EPA recommended holding time. The results may still be useful for their intended purpose.
CF1	Primary and confirmation results varied by greater than 40% RPD. The results may still be useful for their intended purpose.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

7.2.2 FIELD NOTES

FIELD LOGS OF SAMPLING POINTS

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1625 Buena Vista Ave.
Starting point description - intersection with E. Little Llagas Creek (north end)

Point A
Lateral distance to Point A from starting point 15'
Lateral distance of Point A from centerline of creek 20'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 5'
Lateral distance from top of bank (v. gradual)
Lateral distance from edge of creek
Other notes

Point B
Lateral distance to Point B from Point A 125'
Lateral distance of Point B from centerline of creek 25'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 3'
Lateral distance from top of bank (gradual)
Lateral distance from edge of creek 5'
Other notes

Point C
Lateral distance to Point C from Point B 125'
Lateral distance of Point C from centerline of creek 25'
Vertical distance below grade at top of bank 3'
Vertical distance above top of creek 4'
Lateral distance from top of bank (gradual)
Lateral distance from edge of creek 10'
Other notes

Point D
Lateral distance to Point D from Point C 125'
Lateral distance of Point D from centerline of creek 30'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 8'
Lateral distance from top of bank (gradual)
Lateral distance from edge of creek 8'
Other notes

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 10105 Center Ave.
Starting point description - ~~35' S of~~ North PL

Point A
Lateral distance to Point A from starting point 35'
Lateral distance of Point A from centerline of creek 30'
Vertical distance below grade at top of bank 7'
Vertical distance above top of creek 12' ↑
Lateral distance ~~from top of~~ bank 15' from tilled area along orchard
Lateral distance from edge of creek
Other notes 5' from edge of near vertical bank
↑ water in creek

Point B
Lateral distance to Point B from Point A 160
Lateral distance of Point B from centerline of creek 40'
Vertical distance below grade at top of bank 7'
Vertical distance above top of creek 14'
Lateral distance ~~from top of bank~~ 10' from tilled area alongorchard
Lateral distance from edge of creek 3' from v. steep bank edge
Other notes up to 3' water in creek

Point C
Lateral distance to Point C from Point B 150'
Lateral distance of Point C from centerline of creek 22'
Vertical distance below grade at top of bank 7
Vertical distance above top of creek 8
Lateral distance from top of bank 60 tilled area along orchard
Lateral distance from edge of creek 12
Other notes ~ 2' water in creek

Point D
Lateral distance to Point D from Point C 225'
Lateral distance of Point D from centerline of creek 37'
Vertical distance below grade at top of bank 8
Vertical distance above top of creek
Lateral distance from top of bank 14 from tilled area along orchard
Lateral distance from edge of creek 12'; 4' from steep bank edge
Other notes 1-1.5' water in creek

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 10295 Cantos Ave.
Starting point description - NW Property corner

Point A
Lateral distance to Point A from starting point 128
Lateral distance of Point A from centerline of creek 18'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 12'
Lateral distance from ~~top of bank~~ 45' from row crops
Lateral distance from edge of creek 7' from steep bluff at edge
Other notes

Point B
Lateral distance to Point B from Point A 120
Lateral distance of Point B from centerline of creek 35'
Vertical distance below grade at top of bank 11'
Vertical distance above top of creek 17'
Lateral distance from ~~top of bank~~ 12' from row crops
Lateral distance from edge of creek just above steep bank at edge
Other notes

Point C
Lateral distance to Point C from Point B 150
Lateral distance of Point C from centerline of creek 26'
Vertical distance below grade at top of bank 2'
Vertical distance above top of creek 15'
Lateral distance from top of bank 2'
Lateral distance from edge of creek 12' from row of vines
Other notes

Point D
Lateral distance to Point D from Point C 210
Lateral distance of Point D from centerline of creek 33'
Vertical distance below grade at top of bank 0'
Vertical distance above top of creek 10'
Lateral distance from top of bank 0'
Lateral distance from edge of creek 10'
Other notes at top of v. steep bank

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1240 Rucker
Starting point description - Rucker Ave.

Point A
Lateral distance to Point A from starting point 100'
Lateral distance of Point A from centerline of creek 135'
Vertical distance below grade at top of bank 1'
Vertical distance above top of creek 18'
Lateral distance from top of bank 10' from fence
Lateral distance from edge of creek
Other notes not currently cultivated above at this parcel bermed at top of slope (all points)

Point B
Lateral distance to Point B from Point A 100'
Lateral distance of Point B from centerline of creek 23'
Vertical distance below grade at top of bank
Vertical distance above top of creek 4'
Lateral distance from top of bank
Lateral distance from edge of creek 12'
Other notes 40' towards creek from toe - 1:1 slope

Point C
Lateral distance to Point C from Point B 100'
Lateral distance of Point C from centerline of creek 68'
Vertical distance below grade at top of bank 7'
Vertical distance above top of creek 10'
Lateral distance from top of bank 12' -
Lateral distance from edge of creek
Other notes asphalt contractor's storage yard above ½ way up slope

Point D
Lateral distance to Point D from Point C 75'
Lateral distance of Point D from centerline of creek 33' & which is an island
Vertical distance below grade at top of bank at toe of slope
Vertical distance above top of creek 4'
Lateral distance from top of bank 40'
Lateral distance from edge of creek 10'
Other notes 20' N of Southern tip

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1280 Rucker
Starting point description - ~~Rucker Ave.~~ PL at 1240 Rucker

Point A
Lateral distance to Point A from starting point 100'
Lateral distance of Point A from centerline of creek 22'
Vertical distance below grade at top of bank
Vertical distance above top of creek 6'
Lateral distance from top of bank
Lateral distance from edge of creek 13'
Other notes 1/3 of way up slope from creek

Point B
Lateral distance to Point B from Point A 100'
Lateral distance of Point B from centerline of creek 7'
Vertical distance below grade at top of bank ~~7~~ 7' from ℄ of west branch & 40' from ℄ of island
Vertical distance above top of creek 10'
Lateral distance from top of bank 15'
Lateral distance from edge of creek 10'
Other notes ~~A~~ creek splits around island

Point C
Lateral distance to Point C from Point B 100'
Lateral distance of Point C from centerline of creek 29'
Vertical distance below grade at top of bank 10'
Vertical distance above top of creek 10'
Lateral distance from top of bank 15'
Lateral distance from edge of creek 12'
Other notes

Point D
Lateral distance to Point D from Point C 80'
Lateral distance of Point D from centerline of creek 35'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 12'
Lateral distance from top of bank 10'
Lateral distance from edge of creek 15'
Other notes 35' N of Southern ℄

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1115 Rucker
Starting point description - _____

Point A
Lateral distance to Point A from starting point 280
Lateral distance of Point A from centerline of creek 20'
Vertical distance below grade at top of bank 2.5
Vertical distance above top of creek 10'
Lateral distance from top ~~of bank~~ 40' from crops
Lateral distance from edge of creek 8'
Other notes _____

Point B
Lateral distance to Point B from Point A 280
Lateral distance of Point B from centerline of creek 40'
Vertical distance below grade at top of bank 3'
Vertical distance above top of creek 20'
Lateral distance from top ~~of bank~~ crops - 25'
Lateral distance from edge of creek 25'
Other notes near top of terraced berm

Point C
Lateral distance to Point C from Point B 300
Lateral distance of Point C from centerline of creek 50'
Vertical distance below grade at top of bank 1'
Vertical distance above top of creek 16'
Lateral distance from top ~~of bank~~ crops - 22'
Lateral distance from edge of creek 35'
Other notes v. brushy at top of slope

Point D
Lateral distance to Point D from Point C 230
Lateral distance of Point D from centerline of creek 30'
Vertical distance below grade at top of bank 3'
Vertical distance above top of creek 15'
Lateral distance from top ~~of bank~~ 75' from crops
Lateral distance from edge of creek 15'
Other notes at top of v. steep bank

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1100 Masten
Starting point description - Masten Ave.

Point A
Lateral distance to Point A from starting point 186'
Lateral distance of Point A from centerline of creek 47
Vertical distance below grade at top of bank 16'
Vertical distance above top of creek 8'
Lateral distance from top of bank 15'
Lateral distance from edge of creek
Other notes ½ way up bank

Point B
Lateral distance to Point B from Point A 195
Lateral distance of Point B from centerline of creek 40'
Vertical distance below grade at top of bank 8'
Vertical distance above top of creek 12
Lateral distance from ~~top of bank~~ 25' from row crops
Lateral distance from edge of creek 25
Other notes ⅔ of way down shallow slope

Point C
Lateral distance to Point C from Point B 190'
Lateral distance of Point C from centerline of creek 40'
Vertical distance below grade at top of bank 8'
Vertical distance above top of creek 11'
Lateral distance from top of bank 10'
Lateral distance from edge of creek 15', 10' from top of steep bank
Other notes ½ way up shallow slope

Point D
Lateral distance to Point D from Point C 175'
Lateral distance of Point D from centerline of creek 38'
Vertical distance below grade at top of bank 4'
Vertical distance above top of creek 10'
Lateral distance from ~~top of bank~~ 40' from row crops
Lateral distance from edge of creek 25'
Other notes on terrace

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1290 Masten
Starting point description - Northern Property Line at 1100 Masten

Point A
Lateral distance to Point A from starting point 30'
Lateral distance of Point A from centerline of creek 8'
Vertical distance below grade at top of bank 1'
Vertical distance above top of creek 17'
Lateral distance from top of bank ?
Lateral distance from edge of creek 8'
Other notes

Point B
Lateral distance to Point B from Point A 50'
Lateral distance of Point B from centerline of creek 25'
Vertical distance below grade at top of bank at top
Vertical distance above top of creek 22'
Lateral distance from top of bank 12'
Lateral distance from edge of creek 12'
Other notes at top of V. steep bank

Point C
Lateral distance to Point C from Point B 50'
Lateral distance of Point C from centerline of creek 40
Vertical distance below grade at top of bank 2'
Vertical distance above top of creek 26'
Lateral distance from top of bank 8'
Lateral distance from edge of creek 27'
Other notes in 1/g incised ravine or ravelled area from runoff at their horse pen

Point D
Lateral distance to Point D from Point C 50'
Lateral distance of Point D from centerline of creek 45'
Vertical distance below grade at top of bank Same
Vertical distance above top of creek 25'
Lateral distance from top of bank 6'
Lateral distance from edge of creek 30'
Other notes 13' away from steep bank at creek edge

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel Columbet Property (830-06-002)
Starting point description - Southern ℄

Point A
Lateral distance to Point A from starting point 72'
Lateral distance of Point A from centerline of creek 16'
Vertical distance below grade at top of bank 1' below top of berm, same elev. as field
Vertical distance above top of creek 8'
Lateral distance from top of bank 2' from fallow field
Lateral distance from edge of creek 8'
Other notes 1:1 slope to water

Point B
Lateral distance to Point B from Point A 72'
Lateral distance of Point B from centerline of creek 40'
Vertical distance below grade at top of bank 3'
Vertical distance above top of creek 25'
Lateral distance from top of bank 5' from fallow field
Lateral distance from edge of creek
Other notes near top of terraced slope

Point C
Lateral distance to Point C from Point B 72'
Lateral distance of Point C from centerline of creek 25'
Vertical distance below grade at top of bank 3'
Vertical distance above top of creek 17'
Lateral distance from top ~~of bank~~ 16' from fallow field
Lateral distance from edge of creek 12'
Other notes near top of steep bank

Point D
Lateral distance to Point D from Point C 72'
Lateral distance of Point D from centerline of creek 30
Vertical distance below grade at top of bank 0.5
Vertical distance above top of creek 17'
Lateral distance from top ~~of bank~~ 27' from fallow field
Lateral distance from edge of creek 10'
Other notes may be on SCVWD property per Vernon Schofield (owner)
near top of v. steep bank

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 415 Lena Ave.
Starting point description - NW LP

Point A
Lateral distance to Point A from starting point 130'
Lateral distance of Point A from centerline of creek 28'
Vertical distance below grade at top of bank 2'
Vertical distance above top of creek 1.2'
Lateral distance from top of bank 2'
Lateral distance from edge of creek 12'
Other notes steep slope ≈ 1:1

Point B
Lateral distance to Point B from Point A 130'
Lateral distance of Point B from centerline of creek 22'
Vertical distance below grade at top of bank 5'
Vertical distance above top of creek 12'
Lateral distance from top of bank 5'
Lateral distance from edge of creek 10'
Other notes 2/3 way up slope

Point C
Lateral distance to Point C from Point B 150'
Lateral distance of Point C from centerline of creek 24'
Vertical distance below grade at top of bank 4'
Vertical distance above top of creek 12'
Lateral distance from top of bank 6'
Lateral distance from edge of creek 12'
Other notes debris in creek (wood, metal)
lawn clippings, soil, rock + ashes discarded at top of bank

Point D
Lateral distance to Point D from Point C 130
Lateral distance of Point D from centerline of creek 45'
Vertical distance below grade at top of bank 6'
Vertical distance above top of creek 13'
Lateral distance from top of bank 10'
Lateral distance from edge of creek 35'
Other notes rip rap on slope, old concrete pipe outlets

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 1115 Kannely Lane
Starting point description - Eastern EP

Point A
Lateral distance to Point A from starting point 100'
Lateral distance of Point A from centerline of creek 60'
Vertical distance below grade at top of bank at top
Vertical distance above top of creek 25'
Lateral distance from ~~top of bank~~ 20' from area of previous row crops
Lateral distance from edge of creek 50'
Other notes

Point B
Lateral distance to Point B from Point A 100'
Lateral distance of Point B from centerline of creek 35'
Vertical distance below grade at top of bank 1'
Vertical distance above top of creek 25
Lateral distance from top of bank 3' from road, 15' from row crops
Lateral distance from edge of creek 25
Other notes

Point C
Lateral distance to Point C from Point B 100'
Lateral distance of Point C from centerline of creek 20'
Vertical distance below grade at top of bank 0 - some
Vertical distance above top of creek 20'
Lateral distance from ~~top of bank~~ 3' from road, 15' from row crops
Lateral distance from edge of creek 10'
Other notes

Point D
Lateral distance to Point D from Point C 100'
Lateral distance of Point D from centerline of creek 20'
Vertical distance below grade at top of bank 0 - some
Vertical distance above top of creek 20'
Lateral distance from ~~top of bank~~ 40' from row crops, 3' lower
Lateral distance from edge of creek 10'
Other notes at top of slope

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 830-05-041
Starting point description - Western LP

Point A
Lateral distance to Point A from starting point 132'
Lateral distance of Point A from centerline of creek 90'
Vertical distance below grade at top of bank 0 - some
Vertical distance above top of creek 20'
Lateral distance from top ~~of bank~~ 3' from road, 15' from active crops
Lateral distance from edge of creek
Other notes

Point B
Lateral distance to Point B from Point A 125'
Lateral distance of Point B from centerline of creek 90'
Vertical distance below grade at top of bank 0 - some
Vertical distance above top of creek 20'
Lateral distance from top of bank 3' from road, 15' from active crops
Lateral distance from edge of creek
Other notes adjacent to large tree

Point C
Lateral distance to Point C from Point B 145'
Lateral distance of Point C from centerline of creek 17'
Vertical distance below grade at top of bank 35'
Vertical distance above top of creek 7'
Lateral distance from top ~~of bank~~ 50' from crops
Lateral distance from edge of creek 8'
Other notes

Point D
Lateral distance to Point D from Point C 140'
Lateral distance of Point D from centerline of creek 60'
Vertical distance below grade at top of bank 10'
Vertical distance above top of creek 10'
Lateral distance from top of bank 10', 25' from crops
Lateral distance from edge of creek 50'
Other notes

FIELD LOG OF SAMPLING POINTS
REACHES 4 & 5, UPPER LLAGAS CREEK, GILROY, CA

SAMPLER: Joel Greger
DATE: 4-22-04

Parcel 11520 Murphy Ave
Starting point description - Eastern R

Point A
Lateral distance to Point A from starting point 120'
Lateral distance of Point A from centerline of creek 20'
Vertical distance below grade at top of bank 20'
Vertical distance above top of creek 10'
Lateral distance from ~~top of bank~~ 45' from row crops
Lateral distance from edge of creek 10'
Other notes at mid point of terraced slope

Point B
Lateral distance to Point B from Point A 135'
Lateral distance of Point B from centerline of creek 75'
Vertical distance below grade at top of bank 8'
Vertical distance above top of creek 20'
Lateral distance from ~~top of bank~~ 20' from row crops
Lateral distance from edge of creek 35'
Other notes

Point C
Lateral distance to Point C from Point B 135'
Lateral distance of Point C from centerline of creek 65'
Vertical distance below grade at top of bank some
Vertical distance above top of creek 22'
Lateral distance from ~~top of bank~~ 8' from row crops
Lateral distance from edge of creek 55'
Other notes top of slope

Point D
Lateral distance to Point D from Point C 135'
Lateral distance of Point D from centerline of creek 40'
Vertical distance below grade at top of bank some
Vertical distance above top of creek 20'
Lateral distance from ~~top of bank~~ 15' from row crops
Lateral distance from edge of creek 30'
Other notes top of slope

7.3 BIBLIOGRAPHY

7.4 BIBLIOGRAPHY

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Reports and documents for sites that were reviewed in the vicinity of the subject parcels are referenced directly in the text of this report.