

Project No.  
**07980.600.101**

November 6, 2007

Revised November 8, 2007

Mr. Larry Lind  
City of Los Altos  
One North San Antonio Road  
Los Altos, CA 94022

Subject:      City Parks  
                  Los Altos, California

### **SOIL SAMPLING AND LABORATORY TEST RESULTS**

Dear Mr. Lind:

ENGEO Incorporated is pleased to present the findings of the soil sampling with laboratory testing undertaken at ten City Parks in Los Altos, California. The park locations are shown on Figure 1. The purpose of our study was to conduct a screening of the near surface soils to check for potential environmental impacts from possible past agricultural use.

#### **BACKGROUND**

The area of Los Altos was originally part of Rancho San Antonio, a 4,438 acre land grant given to Juan Prado Mesa in 1843. In 1854, Juana Briones de Miranda purchased the adjoining Rancho la Purissima Concepcion. Gradually, the ranchos were divided and sold as smaller ranches for cattle grazing, orchards, and vineyards. Orchards in the area were comprised of prunes, plums, and mainly apricots.

The initial development of Los Altos is attributed to an executive of the Southern Pacific Railroad, Paul Shoup, who wanted to link the cities of Palo Alto and Los Gatos with a proposed new rail line running through Los Altos. As Los Altos grew and prospered, the business community thrived and orchards gave way to beautiful tree-lined residential streets. Following World War II, Los Altos experienced a boom in home construction and new schools were built in rapid succession to accommodate the expanding population. The seven square mile city is developed with small businesses, schools, libraries and churches.

Today, remnants of the historical orchards are scattered among the residential areas of the City. While it is unlikely that significant concentrations of residual pesticides exist in the park soils, it is conceivable that detectable levels of persistent pesticides may be found in some near-surface soils.

## SCOPE OF WORK

The study included the following field and laboratory activities:

- Recovery of 33 soil samples, approximately 3 to 9 inches in depth, from ten parks located within the City of Los Altos.
- Laboratory analysis of the 33 discrete soil samples for Organochlorine Pesticides (EPA 8081), lead (Pb), and arsenic (As).
- Preparation of this report with our findings and recommendations.

## FIELD ACTIVITIES

On October 12 and 15, 2007, an ENGEO representative recovered 28 soil samples from depths of approximately 3 to 9 inches below the existing ground surface using hand sampling equipment. Five additional soil samples were collected on October 23, 2007; three soil samples from Heritage Oaks Park and two soil samples from the orchard near City Hall. Each soil sample was recovered in a 6-inch-long stainless steel tube which was sealed at each end with Teflon sheets and tight fitting plastic caps. Between sample locations, the sampling equipment was washed with an Alquinox/water solution and rinsed with distilled water. Following recovery, the soil samples were labeled, placed in an ice-cooled chest, and delivered under documented chain-of-custody to Entech Labs, Inc., in Santa Clara, California laboratory for testing.

Soil samples were recovered from the orchard near City Hall and ten parks within Los Altos. The samples were collected from the fields, play areas and landscaped areas where people would likely come into contact with the soil. Table 1 below summarized the approximate acreage associated with the open areas of the parks and the number of samples collected from each site.

TABLE 1  
SUMMARY OF CITY PARK SITES

Park Name	Approx. Size of Open Area (acres)	No. of Samples Collected
Montclaire	0.8	2
Grant	2.6	3
Marymeade	1.0	2
Heritage Oaks	3.4	6*

\* Three soil samples were originally taken from Heritage Oaks Park, and an additional three soil samples were recovered from the southern undeveloped portion of the park to meet DTSC sampling guidelines.

Park Name	Approx. Size of Open Area (acres)	No. of Samples Collected
McKenzie	2.5	3
Rosita	3.3	3
Lincoln	9.1	4
Shoup	2.7	2
Hillview Community	2.5	4
Conner	0.7	2
Orchard near City Hall	2.1	2

#### LABORATORY TESTING

The 33 samples were analyzed for Organochlorine Pesticides (EPA 8081) and the metals, lead (Pb) and arsenic (As). Table 2 provides a summary of the laboratory results. Review of the laboratory test reports found trace levels of Organochlorine Pesticides (4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) in four of the 33 samples. The highest reported concentrations of Organochlorine Pesticides were reported in the soil samples recovered from the orchard near City Hall. However, the reported concentrations in all of the samples are well below the California Environmental Protection Agency's California Human Health Screening Levels (CHHSLs) for residential soils.

Concentrations of lead ranged from 2 to 38 mg/kg. Concentrations of arsenic ranged from below laboratory detection limits to 5.7 milligrams per kilogram (mg/kg). The reported concentrations of arsenic and lead concentrations are consistent with background soil concentrations for Santa Clara County and the State of California (Bradford et. al, 1996; LBNL, 2002, Shacklette et. al., 1984, Dragun et. al, 1991).

The reported lead concentrations are below the California Human Health Screening Level (CHHSL) for residential land use of 150 mg/kg (CAL-EPA 2005). The reported arsenic concentrations exceed the residential CHHSL of 0.07 mg/kg; however, as stated in the CHHSL document:

*Naturally occurring background concentrations of arsenic, beryllium, cadmium, chromium and other metals in soils may exceed their respective soil CHHSLs. Cal/EPA generally does not require cleanup of soil to below background levels. This issue is frequently encountered with arsenic. Natural background concentrations of arsenic in California are often well above the health-based, direct-exposure goals in soil of 0.07 mg/kg for residential land use and 0.24 mg/kg for commercial/industrial land use.*

The reported arsenic concentrations found in the site soils are not indicative of an anthropogenic source and would not be expected to pose a significant human health risk.

TABLE 2  
 LABORATORY ANALYSIS SUMMARY

SAMPLE	4,4'-DDD	4,4'-DDE	4,4'-DDT	ARSENIC	LEAD
Mont-1	ND	ND	ND	ND	5.8
Mont-2	ND	ND	ND	ND	10
Grant-1	ND	ND	ND	1.3	5.7
Grant-2	ND	ND	ND	2.3	15
Grant-3	ND	ND	ND	4.1	8.2
Mary-1	ND	ND	ND	ND	2.0
Mary-2	ND	ND	ND	ND	5.8
H.Oaks-1	ND	0.028	ND	3.3	25
H.Oaks-2	ND	ND	ND	ND	2.2
H.Oaks-3	ND	ND	ND	ND	2.7
H.Oaks-4	ND	ND	ND	ND	17
H.Oaks-5	ND	ND	ND	ND	13
H.Oaks-6	ND	ND	ND	ND	13
McK-1	ND	ND	ND	ND	7.2
McK-2	ND	ND	ND	ND	8.3
McK-3	ND	ND	ND	5.7	38
Rosita-1	ND	ND	ND	ND	13
Rosita-2	ND	ND	ND	1.1	15
Rosita-3	ND	ND	ND	ND	2.8
Lincoln-1	ND	ND	ND	1.6	14
Lincoln-2	ND	ND	ND	ND	3.6
Lincoln-3	ND	ND	ND	ND	2.1
Lincoln-4	ND	ND	ND	5.0	6.1
Shoup-1	0.045	0.26	0.69	1.8	17
Shoup-2	ND	ND	ND	2.1	15
Hillview-1	ND	ND	ND	5.1	31
Hillview-2	ND	ND	ND	4.4	24
Hillview-3	ND	ND	ND	3.3	19
Hillview-4	ND	ND	ND	2	20
Conner-1	ND	ND	ND	1.3	11
Conner-2	ND	ND	ND	1.6	27
Orchard-1	1.1	0.076	0.38	5.3	59
Orchard-2	0.90	0.059	0.41	4.0	36
CHHSL	2.3	1.6	1.6	0.070	150

(All concentrations reported in mg/kg)

City of Los Altos  
City Parks, Los Altos  
SOIL SAMPLING AND LABORATORY TEST RESULTS

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## FINDINGS

Based on the results of the soil sampling and laboratory testing, the Los Altos City Parks where samples were collected do not appear to have been adversely impacted from past orchard/agricultural use. The sampling conducted as part of this assessment was for screening purposes only. Based on the analytical results, ENGEO does not recommend additional soil sampling at this time. The laboratory analysis reports and chain-of-custody documentation can be found in Appendix A.

## LIMITATIONS

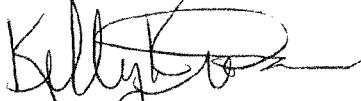
The field services completed at the parks were performed to assess specific soil conditions at the points of collection. The results of laboratory analyses are not intended to consider concentrations of other organic or inorganic substances which were not reported. No groundwater samples were recovered in association with this scope of services.

This initial pesticide evaluation was provided to determine if significant agrichemical impacts exist at the sites. Although no significant impacts were noted, it is conceivable that additional sampling and testing may be required to satisfy regulatory agencies.

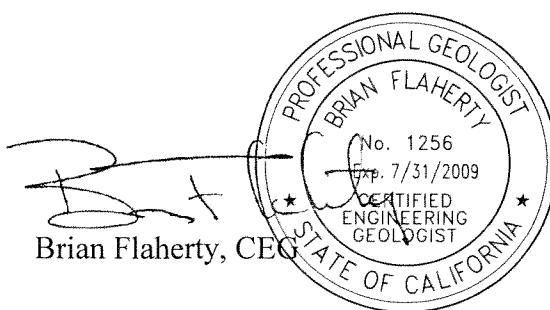
We are pleased to be of continued service to you with regard to this project. If you have any questions, please contact us.

Very truly yours,

ENGEO Incorporated



Kelly Krohn  
kk/smc

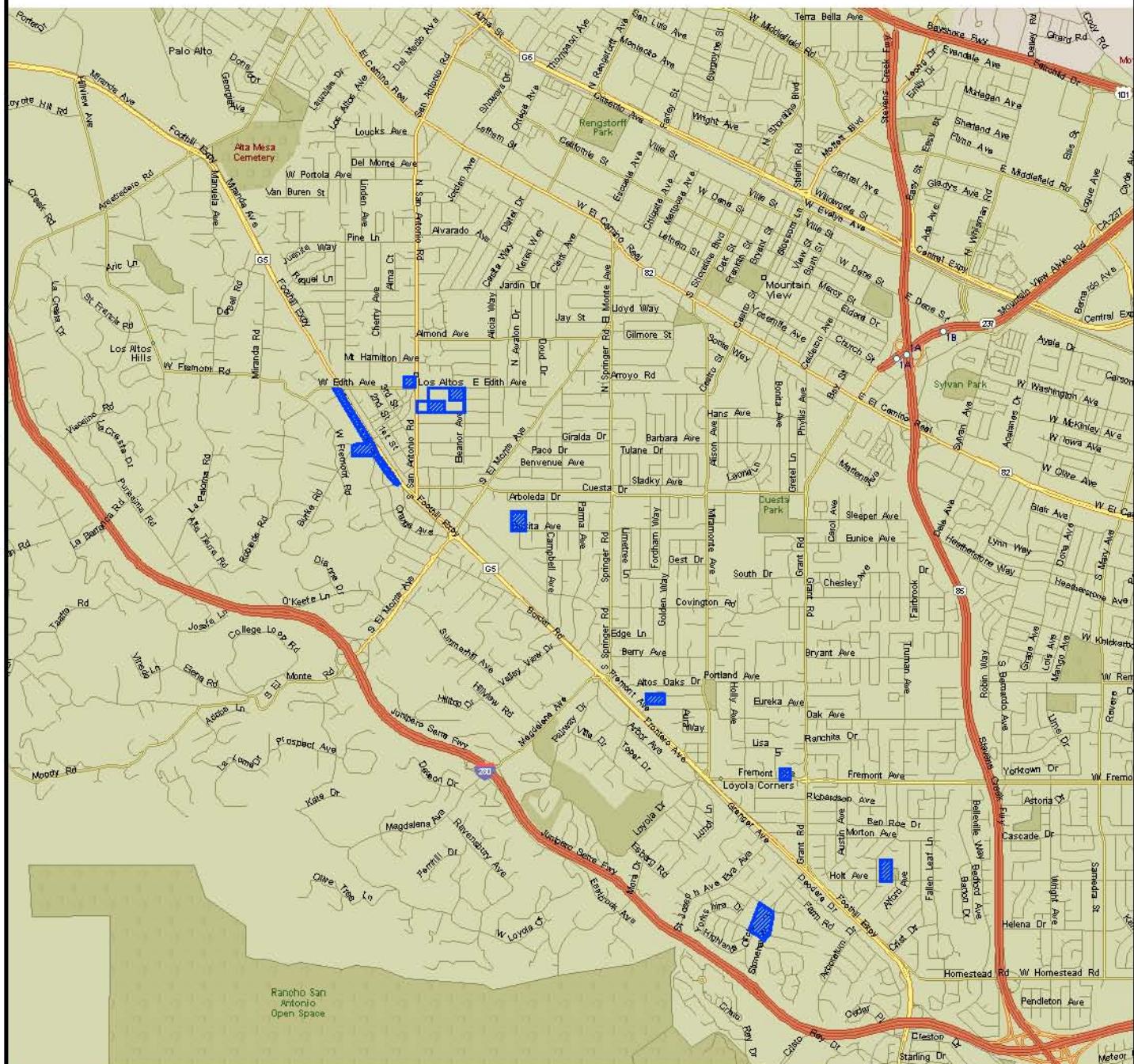


Attachments: Selected References  
Figures 1 and 2  
Appendix A – Entech Analytical Laboratory, Inc., Laboratory Reports

## **SELECTED REFERENCES**

1. CAL-EPA; California Human Health Screening Levels (CHHSLs), January 2005.
2. Bradford, G. R., A. C. Chang, A. L. Page, D. Bakhtar, J. A. Frampton, and H. Wright; Background Concentrations of Trace and Major Elements in California Soils; Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California; March 1996.
3. Dragun, James, and Andrew Chiasson, "Elements in North American Soils," Hazardous Materials Control Resources Institute, Greenbelt, MD, 1991
4. Lawrence Berkeley National Laboratory, Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory: University of California (Berkeley), Lawrence Berkeley Laboratory, June 2002.
5. San Francisco Bay Regional Water Quality Control Board; Interim Final, Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater, February 2005.
6. Shacklette, H. J., and Boerngen, J. G.; Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States; U.S.G.S. Professional Paper 1270; 1984.

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## EXPLANATION

CITY PARK LOCATIONS.  
SHADED AREA REPRESENTS  
WORK AREA



0 FEET 4000  
0 METERS 2000

BASE MAP SOURCE: MS STREETS AND TRIPS

**ENGEO**  
INCORPORATED  
EXCELLENT SERVICE SINCE 1971

VICINITY MAP  
LOS ALTOS CITY PARKS  
LOS ALTOS, CALIFORNIA

PROJECT NO.: 07980.600.101

FIGURE NO.

DATE: NOVEMBER 2007

1

DRAWN BY: DLB CHECKED BY: BF

ORIGINAL FIGURE PRINTED IN COLOR



#### EXPLANATION

H.Oaks-6

APPROXIMATE LOCATION  
OF SOIL SAMPLE



0 FEET 150  
0 METERS 75

BASE MAP SOURCE: GOOGLE EARTH

**ENGEO**  
INCORPORATED  
EXCELLENT SERVICE SINCE 1971

#### SAMPLE LOCATION PLAN - HERITAGE OAKS PARK

LOS ALTOS CITY PARKS  
LOS ALTOS, CALIFORNIA

PROJECT NO.: 07980.600.101

FIGURE NO.

DATE: NOVEMBER 2007

DRAWN BY: DLB CHECKED BY: BF

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## **APPENDIX A**

Entech Analytical Labs, Inc.

Laboratory Reports

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# **Entech Analytical Labs, Inc.**

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**3334 Victor Court, Santa Clara, CA 95054**

**Phone: (408) 588-0200**

**Fax: (408) 588-0201**

**Kelly Krohn  
Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583**

**Lab Certificate Number: 57662  
Issued: 10/19/2007**

**Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS**

## **Certificate of Analysis - Final Report**

On October 15, 2007, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Solid	Organochlorine Pesticides: EPA 3545A / EPA 8081A Metals by ICP: EPA 3050B / EPA 6010B

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-001    Sample ID: Mont-1    Matrix: Solid    Sample Date: 10/12/2007 8:56 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      76.3      37    -    135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	5.8		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-002    Sample ID: Mont-2    Matrix: Solid    Sample Date: 10/12/2007 9:15 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: NBocalan
Decachlorobiphenyl	77.2	37 - 135	Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	10		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

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San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #:	57662-003	Sample ID:	Grant-1	Matrix:	Solid	Sample Date:	10/12/2007 9:59 AM
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Organochlorine Pesticides: EPA 3545A / EPA 8081A									
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: NBocalan
Decachlorobiphenyl	78.3	37	-	135	Reviewed by: mtran

Metals by ICP: EPA 3050B / EPA 6010B									
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	1.3		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/17/2007	SM071015B
Lead	5.7		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/17/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

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San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab # : 57662-004	Sample ID: Grant-2	Matrix: Solid	Sample Date: 10/12/2007	10:29 AM
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### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: NBocalan
Decachlorobiphenyl	72.5	37	-	135	Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	2.3		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	15		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-005    Sample ID: Grant-3    Matrix: Solid    Sample Date: 10/12/2007 10:37 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      82.0      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	4.1		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/17/2007	SM071015B
Lead	8.2		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/17/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007

Sample Collected by: Client

Lab #: 57662-006      Sample ID: Mary-1

Matrix: Solid      Sample Date: 10/12/2007 11:39 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Analyzed by: NBocalan

Decachlorobiphenyl      77.6      37 - 135

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	2.0		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

**Lab #:** 57662-007    **Sample ID:** Mary-2    **Matrix:** Solid    **Sample Date:** 10/12/2007 11:28 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

**Surrogate**      **Surrogate Recovery**      **Control Limits (%)**

Decachlorobiphenyl      74.9      37 - 135      Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	5.8		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-008    Sample ID: H.Oaks-1    Matrix: Solid    Sample Date: 10/12/2007 1:10 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	<b>0.028</b>		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      83.5      37 - 135      Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	<b>3.3</b>		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	<b>25</b>		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #:	57662-009	Sample ID:	H.Oaks-2	Matrix:	Solid	Sample Date:	10/12/2007 12:47 PM
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### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)	
Decachlorobiphenyl	78.7	37 - 135	

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	2.2		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-010    Sample ID: H.Oaks-3    Matrix: Solid    Sample Date: 10/12/2007 12:10 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

### Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      86.3      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	2.7		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-011    Sample ID: Mck-1    Matrix: Solid    Sample Date: 10/12/2007 2:30 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: NBocalan
Decachlorobiphenyl	57.2	37 - 135	Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	7.2		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-012    Sample ID: Mck-2    Matrix: Solid    Sample Date: 10/12/2007 2:14 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      72.9      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	8.3		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #:	57662-013	Sample ID:	Mck-3	Matrix:	Solid	Sample Date:	10/12/2007 2:49 PM
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### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Gamma-BHC (Lindane)	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Beta-BHC	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
delta-BHC	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Aldrin	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Heptachlor Epoxide	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan I	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDE	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Dieldrin	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDD	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan II	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
4,4'-DDT	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Aldehyde	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endosulfan Sulfate	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Methoxychlor	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Endrin Ketone	ND		5.0	0.12	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Toxaphene	ND		5.0	0.50	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015
Chlordane (technical)	ND		5.0	0.50	mg/Kg	10/15/2007	PES071015	10/16/2007	PES071015

Reporting limits are raised due to non-target hydrocarbon present in the sample.

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: NBocalan
Decachlorobiphenyl	93.6	37	-	135	Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	5.7		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	38		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-014      Sample ID: Rosita-1				Matrix: Solid		Sample Date: 10/12/2007 4:23 PM			
Organochlorine Pesticides: EPA 3545A / EPA 8081A									
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: NBocalan	
Decachlorobiphenyl	79.5	37	-	135				Reviewed by: mtran	
Metals by ICP: EPA 3050B / EPA 6010B									
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	13		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Analyzed by: CTran Reviewed by: HDinh									

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

10/19/2007 9:31:39 AM - eling

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57662-015    Sample ID: Rosita-2    Matrix: Solid    Sample Date: 10/12/2007 4:09 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: NBocalan			
Decachlorobiphenyl	82.1	37 - 135			Reviewed by: mtran			

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	1.1		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	15		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

10/19/2007 9:31:39 AM - eling

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #:	57662-016	Sample ID:	Rosita-3	Matrix:	Solid	Sample Date:	10/12/2007 3:53 PM
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### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	70.7	37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B
Lead	2.8		1.0	1.0	mg/Kg	10/15/2007	SM071015B	10/16/2007	SM071015B

Analyzed by: CTran

Reviewed by: HDinh

# **Entech Analytical Labs, Inc.**

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

**Method Blank - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A**

QC/Prep Batch ID: PES071015

Validated by: mtran - 10/17/07

QC/Prep Date: 10/15/2007

Parameter	Result	DF	PQLR	Units
4,4'-DDD	ND	1	0.025	mg/Kg
4,4'-DDE	ND	1	0.025	mg/Kg
4,4'-DDT	ND	1	0.025	mg/Kg
Aldrin	ND	1	0.025	mg/Kg
Alpha-BHC	ND	1	0.025	mg/Kg
Beta-BHC	ND	1	0.025	mg/Kg
Chlordane (technical)	ND	1	0.10	mg/Kg
delta-BHC	ND	1	0.025	mg/Kg
Dieldrin	ND	1	0.025	mg/Kg
Endosulfan I	ND	1	0.025	mg/Kg
Endosulfan II	ND	1	0.025	mg/Kg
Endosulfan Sulfate	ND	1	0.025	mg/Kg
Endrin	ND	1	0.025	mg/Kg
Endrin Aldehyde	ND	1	0.025	mg/Kg
Endrin Ketone	ND	1	0.025	mg/Kg
Gamma-BHC (Lindane)	ND	1	0.025	mg/Kg
Heptachlor	ND	1	0.025	mg/Kg
Heptachlor Epoxide	ND	1	0.025	mg/Kg
Methoxychlor	ND	1	0.025	mg/Kg
Toxaphene	ND	1	0.10	mg/Kg

Surrogate for Blank    % Recovery    Control Limits  
Decachlorobiphenyl        88.7        37 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC Batch ID: PES071015

Reviewed by: mtran - 10/17/07

QC/Prep Date: 10/15/2007

## LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
4,4'-DDT	<0.050	0.10	0.0857	mg/Kg	85.7		40 - 140
Aldrin	<0.050	0.10	0.0851	mg/Kg	85.1		40 - 140
Dieldrin	<0.050	0.10	0.0849	mg/Kg	84.9		40 - 145
Endrin	<0.050	0.10	0.0845	mg/Kg	84.5		40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0867	mg/Kg	86.7		40 - 140
Heptachlor	<0.050	0.10	0.0848	mg/Kg	84.8		40 - 140

Surrogate % Recovery Control Limits

Decachlorobiphenyl 81.4 37 - 135

## LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
4,4'-DDT	<0.050	0.10	0.105	mg/Kg	105	20	40.0	40 - 140	
Aldrin	<0.050	0.10	0.0990	mg/Kg	99.0	15	40.0	40 - 140	
Dieldrin	<0.050	0.10	0.0992	mg/Kg	99.2	16	40.0	40 - 145	
Endrin	<0.050	0.10	0.0992	mg/Kg	99.2	16	40.0	40 - 145	
Gamma-BHC (Lindane)	<0.050	0.10	0.100	mg/Kg	100	15	40.0	40 - 140	
Heptachlor	<0.050	0.10	0.0973	mg/Kg	97.3	14	40.0	40 - 140	

Surrogate % Recovery Control Limits

Decachlorobiphenyl 84.6 37 - 135

# **Entech Analytical Labs, Inc.**

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

LCS / LCSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC Batch ID: SM071015B

Reviewed by: HDinh - 10/16/07

QC/Prep Date: 10/15/2007

## **LCS**

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Arsenic		<1.0	50	45.6	mg/Kg	91.2	70 - 130
Lead		<1.0	50	49.5	mg/Kg	98.9	70 - 130

## **LCSD**

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Arsenic		<1.0	50	43.3	mg/Kg	86.6	5.1	30.0	70 - 130
Lead		<1.0	50	47.5	mg/Kg	94.9	4.2	30.0	70 - 130

# **Entech Analytical Labs, Inc.**

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

MS / MSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC/Prep Batch ID: SM071015B

Reviewed by: HDinh - 10/17/07

QC/Prep Date: 10/15/2007

**MS      Sample Spiked: 57662-002**

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Arsenic	ND	50	40.1	mg/Kg	10/16/2007	80.3	70 - 130
Lead	10.3	50	56.0	mg/Kg	10/16/2007	91.4	70 - 130

**MSD      Sample Spiked: 57662-002**

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Arsenic	ND	50	39.9	mg/Kg	10/16/2007	79.8	0.59	30.0	70 - 130
Lead	10.3	50	54.5	mg/Kg	10/16/2007	88.4	2.7	30.0	70 - 130

## **CHAIN OF CUSTODY RECORD**

PROJECT NUMBER: 7980.6.001.01	PROJECT NAME: Los Altos - Pks							51662				
SAMPLED BY: (SIGNATURE/PRINT) KKrohn / Kelly Krohn								REMARKS REQUIRED DETECTION LIMITS				
ROUTING: E-MAIL kkrohn@engeo.com Hard Copy Kelly Krohn												
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Organochlorine Pesticides (EPA 8081)	Lead	Arsenic			
Mont-1	10/12/07	8:56	Soil	1	Liner	Ice Melt	X X X			001		
Mont-2		9:15					X X X			002		
Grant-1		9:59					X X X			003		
Grant-2		10:29					X X X			004		
Grant-3		10:37					X X X			005		
Mary-1		11:39					X X X			006		
Mary-2		11:38					X X X			007		
H.Oaks-1		13:10					X X X			008		
H.Oaks-2		12:47					X X X			009		
H.Oaks-3		12:10					X X X			010		
McK-1		14:30					X X X			011		
McK-2		14:14					X X X			012		
McK-3		14:49					X X X			013		
Rosita-1		16:23					X X X			014		
Rosita-2		16:09					X X X			015		
Rosita-3		15:53					X X X			016		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME			RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)
	10/12/07 18:10											
RELINQUISHED BY: (SIGNATURE)	DATE/TIME			RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME			RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS			
									5 day TAT			

**EN GEO**  
INCORPORATED

2010 CROW CANYON PLACE, SUITE 250  
SAN RAMON, CALIFORNIA 94583  
(925) 866-9000 FAX (925) 866-0199  
[WWW.FNGEO.COM](http://WWW.FNGEO.COM)

# **Entech Analytical Labs, Inc.**

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**3334 Victor Court, Santa Clara, CA 95054**

**Phone: (408) 588-0200**

**Fax: (408) 588-0201**

**Kelly Krohn  
Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583**

**Lab Certificate Number: 57692  
Issued: 10/19/2007**

**Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS**

## **Certificate of Analysis - Final Report**

On October 15, 2007, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Solid	Organochlorine Pesticides: EPA 3545A / EPA 8081A Metals by ICP: EPA 3050B / EPA 6010B

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



**C. L. Thom  
Laboratory Director**

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-001    Sample ID: Lincoln-1    Matrix: Solid    Sample Date: 10/15/2007 9:28 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)      Analyzed by: NBocalan  
Decachlorobiphenyl      77.4      37 - 135      Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	1.6		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	14		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-002    Sample ID: Lincoln-2    Matrix: Solid    Sample Date: 10/15/2007 9:53 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Analyzed by: NBocalan

Decachlorobiphenyl      81.0      37 - 135

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	3.6		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-003    Sample ID: Lincoln-3    Matrix: Solid    Sample Date: 10/15/2007 10:15 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      82.8      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	2.1		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-004      Sample ID: Lincoln-4      Matrix: Solid      Sample Date: 10/15/2007 10:32 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Beta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
delta-BHC	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Aldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan I	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Dieldrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan II	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Methoxychlor	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Toxaphene	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/15/2007	PES071015	10/17/2007	PES071015

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      81.9      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	5.0		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	6.1		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-005    Sample ID: Shoup-1    Matrix: Solid    Sample Date: 10/15/2007 11:04 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDE	<b>0.26</b>		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDD	<b>0.045</b>		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDT	<b>0.69</b>		5.0	0.12	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDT was re-analyzed at 1:5 dilution on 10/18/07. Surrogate recovery was 102.5%.									
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016

Surrogate      Surrogate Recovery      Control Limits (%)      Analyzed by: NBocalan  
Decachlorobiphenyl      82.5      37 - 135      Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	<b>1.8</b>		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	<b>17</b>		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-006    Sample ID: Shoup-2    Matrix: Solid    Sample Date: 10/15/2007 11:17 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/17/2007	PES071016

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      68.4      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	2.1		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	15		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-007    Sample ID: Hillview-1    Matrix: Solid    Sample Date: 10/15/2007 11:53 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate      Surrogate Recovery      Control Limits (%)      Analyzed by: NBocalan  
Decachlorobiphenyl      99.1      37 - 135      Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	5.1		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	31		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-008    Sample ID: Hillview-2    Matrix: Solid    Sample Date: 10/15/2007 12:01 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	102	37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	4.4		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	24		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-009    Sample ID: Hillview-3    Matrix: Solid    Sample Date: 10/15/2007 12:31 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      96.4      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	3.3		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	19		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

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Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-010    Sample ID: Hillview-4    Matrix: Solid    Sample Date: 10/15/2007 12:41 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      102      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	2.0		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	20		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

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# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #: 57692-011    Sample ID: Conner-1    Matrix: Solid    Sample Date: 10/15/2007 1:16 PM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate	Surrogate Recovery	Control Limits (%)				Analyzed by: NBocalan			
Decachlorobiphenyl	86.9	37 - 135				Reviewed by: mtran			

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	1.3		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	11		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

Detection Limit = Detection Limit for Reporting.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

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# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/15/2007  
Sample Collected by: Client

Lab #:	57692-012	Sample ID:	Conner-2	Matrix:	Solid	Sample Date:	10/15/2007 1:34 PM
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**Organochlorine Pesticides: EPA 3545A / EPA 8081A**

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Beta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
delta-BHC	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Aldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan I	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Dieldrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan II	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Methoxychlor	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Toxaphene	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/16/2007	PES071016	10/18/2007	PES071016

Surrogate	Surrogate Recovery	Control Limits (%)
Decachlorobiphenyl	48.7	37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

**Metals by ICP: EPA 3050B / EPA 6010B**

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	1.6		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016
Lead	27		1.0	1.0	mg/Kg	10/16/2007	SM071016	10/17/2007	SM071016

Analyzed by: CTran

Reviewed by: HDinh

# Entech Analytical Labs, Inc.

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

Method Blank - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC/Prep Batch ID: PES071015

Validated by: mtran - 10/17/07

QC/Prep Date: 10/15/2007

Parameter	Result	DF	PQLR	Units
4,4'-DDD	ND	1	0.025	mg/Kg
4,4'-DDE	ND	1	0.025	mg/Kg
4,4'-DDT	ND	1	0.025	mg/Kg
Aldrin	ND	1	0.025	mg/Kg
Alpha-BHC	ND	1	0.025	mg/Kg
Beta-BHC	ND	1	0.025	mg/Kg
Chlordane (technical)	ND	1	0.10	mg/Kg
delta-BHC	ND	1	0.025	mg/Kg
Dieldrin	ND	1	0.025	mg/Kg
Endosulfan I	ND	1	0.025	mg/Kg
Endosulfan II	ND	1	0.025	mg/Kg
Endosulfan Sulfate	ND	1	0.025	mg/Kg
Endrin	ND	1	0.025	mg/Kg
Endrin Aldehyde	ND	1	0.025	mg/Kg
Endrin Ketone	ND	1	0.025	mg/Kg
Gamma-BHC (Lindane)	ND	1	0.025	mg/Kg
Heptachlor	ND	1	0.025	mg/Kg
Heptachlor Epoxide	ND	1	0.025	mg/Kg
Methoxychlor	ND	1	0.025	mg/Kg
Toxaphene	ND	1	0.10	mg/Kg

Surrogate for Blank    % Recovery    Control Limits  
Decachlorobiphenyl    88.7    37 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC Batch ID: PES071015

Reviewed by: mtran - 10/17/07

QC/Prep Date: 10/15/2007

## LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
4,4'-DDT	<0.050	0.10	0.0857	mg/Kg	85.7		40 - 140
Aldrin	<0.050	0.10	0.0851	mg/Kg	85.1		40 - 140
Dieldrin	<0.050	0.10	0.0849	mg/Kg	84.9		40 - 145
Endrin	<0.050	0.10	0.0845	mg/Kg	84.5		40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0867	mg/Kg	86.7		40 - 140
Heptachlor	<0.050	0.10	0.0848	mg/Kg	84.8		40 - 140

Surrogate % Recovery Control Limits

Decachlorobiphenyl 81.4 37 - 135

## LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
4,4'-DDT	<0.050	0.10	0.105	mg/Kg	105	20	40.0	40 - 140	
Aldrin	<0.050	0.10	0.0990	mg/Kg	99.0	15	40.0	40 - 140	
Dieldrin	<0.050	0.10	0.0992	mg/Kg	99.2	16	40.0	40 - 145	
Endrin	<0.050	0.10	0.0992	mg/Kg	99.2	16	40.0	40 - 145	
Gamma-BHC (Lindane)	<0.050	0.10	0.100	mg/Kg	100	15	40.0	40 - 140	
Heptachlor	<0.050	0.10	0.0973	mg/Kg	97.3	14	40.0	40 - 140	

Surrogate % Recovery Control Limits

Decachlorobiphenyl 84.6 37 - 135

# Entech Analytical Labs, Inc.

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

MS / MSD - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC/Prep Batch ID: PES071015

Reviewed by: mtran - 10/19/07

QC/Prep Date: 10/15/2007

MS Sample Spiked: 57692-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
4,4'-DDT	ND	0.10	0.0939	mg/Kg	10/16/2007	93.9	40 - 140
Aldrin	ND	0.10	0.0865	mg/Kg	10/16/2007	86.5	40 - 140
Dieldrin	ND	0.10	0.0850	mg/Kg	10/16/2007	85.0	40 - 145
Endrin	ND	0.10	0.0876	mg/Kg	10/16/2007	87.6	40 - 145
Gamma-BHC (Lindane)	ND	0.10	0.0860	mg/Kg	10/16/2007	86.0	40 - 140
Heptachlor	ND	0.10	0.0876	mg/Kg	10/16/2007	87.6	40 - 140

Surrogate % Recovery Control Limits

Decachlorobiphenyl 83.7 37 - 135

MSD Sample Spiked: 57692-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
4,4'-DDT	ND	0.10	0.0953	mg/Kg	10/16/2007	95.3	1.5	40.0	40 - 140
Aldrin	ND	0.10	0.0868	mg/Kg	10/16/2007	86.8	0.35	40.0	40 - 140
Dieldrin	ND	0.10	0.0867	mg/Kg	10/16/2007	86.7	2.0	40.0	40 - 145
Endrin	ND	0.10	0.0890	mg/Kg	10/16/2007	89.0	1.6	40.0	40 - 145
Gamma-BHC (Lindane)	ND	0.10	0.0859	mg/Kg	10/16/2007	85.9	0.12	40.0	40 - 140
Heptachlor	ND	0.10	0.0868	mg/Kg	10/16/2007	86.8	0.92	40.0	40 - 140

Surrogate % Recovery Control Limits

Decachlorobiphenyl 80.7 37 - 135

# Entech Analytical Labs, Inc.

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

Method Blank - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC/Prep Batch ID: PES071016

Validated by: mtran - 10/18/07

QC/Prep Date: 10/16/2007

Parameter	Result	DF	PQLR	Units
4,4'-DDD	ND	1	0.025	mg/Kg
4,4'-DDE	ND	1	0.025	mg/Kg
4,4'-DDT	ND	1	0.025	mg/Kg
Aldrin	ND	1	0.025	mg/Kg
Alpha-BHC	ND	1	0.025	mg/Kg
Beta-BHC	ND	1	0.025	mg/Kg
Chlordane (technical)	ND	1	0.10	mg/Kg
delta-BHC	ND	1	0.025	mg/Kg
Dieldrin	ND	1	0.025	mg/Kg
Endosulfan I	ND	1	0.025	mg/Kg
Endosulfan II	ND	1	0.025	mg/Kg
Endosulfan Sulfate	ND	1	0.025	mg/Kg
Endrin	ND	1	0.025	mg/Kg
Endrin Aldehyde	ND	1	0.025	mg/Kg
Endrin Ketone	ND	1	0.025	mg/Kg
Gamma-BHC (Lindane)	ND	1	0.025	mg/Kg
Heptachlor	ND	1	0.025	mg/Kg
Heptachlor Epoxide	ND	1	0.025	mg/Kg
Methoxychlor	ND	1	0.025	mg/Kg
Toxaphene	ND	1	0.10	mg/Kg

Surrogate for Blank    % Recovery    Control Limits  
Decachlorobiphenyl    89.5    37 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC Batch ID: PES071016

Reviewed by: mtran - 10/18/07

QC/Prep Date: 10/16/2007

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
4,4'-DDT	<0.050	0.10	0.103	mg/Kg	103	40 - 140
Aldrin	<0.050	0.10	0.0963	mg/Kg	96.3	40 - 140
Dieldrin	<0.050	0.10	0.0964	mg/Kg	96.4	40 - 145
Endrin	<0.050	0.10	0.0964	mg/Kg	96.4	40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0976	mg/Kg	97.6	40 - 140
Heptachlor	<0.050	0.10	0.0957	mg/Kg	95.7	40 - 140

Surrogate      % Recovery      Control Limits

Decachlorobiphenyl      87.5      37 - 135

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
4,4'-DDT	<0.050	0.10	0.101	mg/Kg	101	1.7	40.0	40 - 140
Aldrin	<0.050	0.10	0.0969	mg/Kg	96.9	0.62	40.0	40 - 140
Dieldrin	<0.050	0.10	0.0960	mg/Kg	96.0	0.42	40.0	40 - 145
Endrin	<0.050	0.10	0.0960	mg/Kg	96.0	0.42	40.0	40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0977	mg/Kg	97.7	0.10	40.0	40 - 140
Heptachlor	<0.050	0.10	0.0961	mg/Kg	96.1	0.42	40.0	40 - 140

Surrogate      % Recovery      Control Limits

Decachlorobiphenyl      88.8      37 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC Batch ID: SM071016

Reviewed by: HDinh - 10/17/07

QC/Prep Date: 10/16/2007

## LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<1.0	50	49.9	mg/Kg	99.8		70 - 130
Arsenic	<1.0	50	46.5	mg/Kg	92.9		70 - 130
Barium	<1.0	50	49.5	mg/Kg	99.0		70 - 130
Beryllium	<1.0	50	46.9	mg/Kg	93.8		70 - 130
Cadmium	<1.0	50	46.2	mg/Kg	92.5		70 - 130
Chromium	<1.0	50	47.9	mg/Kg	95.7		70 - 130
Cobalt	<1.0	50	49.0	mg/Kg	98.1		70 - 130
Copper	<1.0	50	48.5	mg/Kg	97.0		70 - 130
Lead	<1.0	50	49.0	mg/Kg	98.0		70 - 130
Molybdenum	<1.0	50	49.8	mg/Kg	99.6		70 - 130
Nickel	<1.0	50	47.8	mg/Kg	95.5		70 - 130
Selenium	<2.0	50	43.3	mg/Kg	86.7		70 - 130
Silver	<1.0	50	48.5	mg/Kg	97.0		70 - 130
Thallium	<2.0	50	46.1	mg/Kg	92.2		70 - 130
Vanadium	<1.0	50	48.8	mg/Kg	97.6		70 - 130
Zinc	<2.0	50	46.9	mg/Kg	93.8		70 - 130

## LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<1.0	50	49.1	mg/Kg	98.1	1.7	30.0		70 - 130
Arsenic	<1.0	50	45.6	mg/Kg	91.1	2.0	30.0		70 - 130
Barium	<1.0	50	49.3	mg/Kg	98.6	0.37	30.0		70 - 130
Beryllium	<1.0	50	45.5	mg/Kg	91.0	3.0	30.0		70 - 130
Cadmium	<1.0	50	45.9	mg/Kg	91.9	0.64	30.0		70 - 130
Chromium	<1.0	50	47.5	mg/Kg	95.1	0.69	30.0		70 - 130
Cobalt	<1.0	50	48.3	mg/Kg	96.7	1.5	30.0		70 - 130
Copper	<1.0	50	47.9	mg/Kg	95.8	1.2	30.0		70 - 130
Lead	<1.0	50	47.9	mg/Kg	95.8	2.2	30.0		70 - 130
Molybdenum	<1.0	50	49.1	mg/Kg	98.3	1.3	30.0		70 - 130
Nickel	<1.0	50	47.4	mg/Kg	94.8	0.77	30.0		70 - 130
Selenium	<2.0	50	43.4	mg/Kg	86.8	0.14	30.0		70 - 130
Silver	<1.0	50	47.9	mg/Kg	95.9	1.2	30.0		70 - 130
Thallium	<2.0	50	45.5	mg/Kg	91.0	1.4	30.0		70 - 130
Vanadium	<1.0	50	48.3	mg/Kg	96.7	0.92	30.0		70 - 130
Zinc	<2.0	50	46.1	mg/Kg	92.2	1.7	30.0		70 - 130

# CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 7980.6.001.01		PROJECT NAME: Los Altos - Pks												57692									
SAMPLED BY: (SIGNATURE/PRINT) <i>K Krohn KK</i>														REMARKS REQUIRED DETECTION LIMITS									
PROJECT MANAGER: Kelly Krohn																							
ROUTING: E-MAIL <a href="mailto:kkrohn@engeo.com">kkrohn@engeo.com</a>		Hard Copy		Kelly Krohn																			
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Organochlorine Pesticides (EPA 8081)	Lead	Arsenic														
Lincoln-1	10/15/07	9:28	Soil	1	Liner	Ice	X	X	X	001													
Lincoln-2		9:53					X	X	X	002													
Lincoln-3		10:15					X	X	X	003													
Lincoln-4		10:32					X	X	X	004													
Sheep-1		11:04					X	X	X	005													
Sheep-2		11:17					X	X	X	006													
Hillview-1		11:53					X	X	X	007													
Hillview-2		12:01					X	X	X	008													
Hillview-3		12:31					X	X	X	009													
Hillview-4		12:41					X	X	X	010													
Conner-1		13:16					X	X	X	011													
Conner-2	↓	13:34	↓	↓	↓	↓	X	X	X	012													
														12x (2" x 6") Brass Tubes									
RELINQUISHED BY: (SIGNATURE) <i>KK</i>		DATE/TIME 10/15/07 14:28		RECEIVED BY: (SIGNATURE) <i>Chunyan</i>		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)													
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)													
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS		5 DAY TAT													
<b>EN GEO</b> INCORPORATED		2010 CROW CANYON PLACE, SUITE 250 SAN RAMON, CALIFORNIA 94583 (925) 866-9000 FAX (925) 866-0199 <a href="http://WWW.ENGEOT.COM">WWW.ENGEOT.COM</a>														DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT. COPY TO PROJECT FIELD FILES							

# **Entech Analytical Labs, Inc.**

**3334 Victor Court , Santa Clara, CA 95054**

**Phone: (408) 588-0200**

**Fax: (408) 588-0201**

**Kelly Krohn  
Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583**

**Lab Certificate Number: 57799  
Issued: 10/30/2007**

**Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS**

## **Certificate of Analysis - Final Report**

On October 23, 2007, samples were received under chain of custody for analysis.  
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Solid	Organochlorine Pesticides: EPA 3545A / EPA 8081A Metals by ICP: EPA 3050B / EPA 6010B

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality.  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/23/2007  
Sample Collected by: Client

Lab #: 57799-001    Sample ID: Orchard-1    Matrix: Solid    Sample Date: 10/23/2007 8:00 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Beta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
delta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Aldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan I	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDE	1.1		10	0.25	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Dieldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDD	0.076		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan II	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDT	0.38		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Methoxychlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Toxaphene	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025

### Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      63.0      37    -    135      Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	5.3		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024
Lead	59		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024

Analyzed by: CTran

Reviewed by: HDINH

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/23/2007  
Sample Collected by: Client

Lab # : 57799-002	Sample ID: Orchard-2	Matrix: Solid	Sample Date: 10/23/2007	8:07 AM
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Organochlorine Pesticides: EPA 3545A / EPA 8081A									
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Beta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
delta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Aldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan I	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDE	0.90		10	0.25	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Dieldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDD	0.059		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan II	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDT	0.41		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Methoxychlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Toxaphene	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025

Surrogate	Surrogate Recovery	Control Limits (%)			Analyzed by: Nbocalan
Decachlorobiphenyl	68.2	37	-	135	Reviewed by: mtran

## Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	4.0		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024
Lead	36		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024

Analyzed by: CTran

Reviewed by: HDINH

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/23/2007  
Sample Collected by: Client

Lab # : 57799-003      Sample ID: H.Oaks-4      Matrix: Solid      Sample Date: 10/23/2007 8:47 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Beta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
delta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Aldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan I	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Dieldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan II	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Methoxychlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Toxaphene	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025

### Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      75.2      37    -    135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024
Lead	17		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024

Analyzed by: CTran

Reviewed by: HDINH

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
2010 Crow Canyon Place, Suite 250  
San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/23/2007  
Sample Collected by: Client

Lab # : 57799-004	Sample ID: H.Oaks-5	Matrix: Solid	Sample Date: 10/23/2007 8:51 AM
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### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Beta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
delta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Aldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan I	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Dieldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan II	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Methoxychlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Toxaphene	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025

### Surrogate Recovery Control Limits (%)

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by: NBocalan
Decachlorobiphenyl	72.1	37 - 135	Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024
Lead	13		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024

Analyzed by: CTran

Reviewed by: HDINH

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Engeo, Inc. - San Ramon  
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San Ramon, CA 94583  
Attn: Kelly Krohn

Project Number: 7980.6.001.01  
Project Name: Los Altos - PKS

## Certificate of Analysis - Data Report

Samples Received: 10/23/2007  
Sample Collected by: Client

Lab #: 57799-005    Sample ID: H.Oaks-6    Matrix: Solid    Sample Date: 10/23/2007 8:56 AM

### Organochlorine Pesticides: EPA 3545A / EPA 8081A

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Alpha-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Gamma-BHC (Lindane)	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Beta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
delta-BHC	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Aldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Heptachlor Epoxide	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan I	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDE	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Dieldrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDD	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan II	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
4,4'-DDT	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Aldehyde	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endosulfan Sulfate	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Methoxychlor	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Endrin Ketone	ND		1.0	0.025	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Toxaphene	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025
Chlordane (technical)	ND		1.0	0.10	mg/Kg	10/25/2007	PES071025	10/26/2007	PES071025

Surrogate      Surrogate Recovery      Control Limits (%)

Decachlorobiphenyl      72.0      37 - 135

Analyzed by: NBocalan

Reviewed by: mtran

### Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Arsenic	ND		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024
Lead	13		1.0	1.0	mg/Kg	10/24/2007	SM071024	10/25/2007	SM071024

Analyzed by: CTran

Reviewed by: HDINH

# Entech Analytical Labs, Inc.

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

Method Blank - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC/Prep Batch ID: PES071025

Validated by: mtran - 10/26/07

QC/Prep Date: 10/25/2007

Parameter	Result	DF	PQLR	Units
4,4'-DDD	ND	1	0.025	mg/Kg
4,4'-DDE	ND	1	0.025	mg/Kg
4,4'-DDT	ND	1	0.025	mg/Kg
Aldrin	ND	1	0.025	mg/Kg
Alpha-BHC	ND	1	0.025	mg/Kg
Beta-BHC	ND	1	0.025	mg/Kg
Chlordane (technical)	ND	1	0.10	mg/Kg
delta-BHC	ND	1	0.025	mg/Kg
Dieldrin	ND	1	0.025	mg/Kg
Endosulfan I	ND	1	0.025	mg/Kg
Endosulfan II	ND	1	0.025	mg/Kg
Endosulfan Sulfate	ND	1	0.025	mg/Kg
Endrin	ND	1	0.025	mg/Kg
Endrin Aldehyde	ND	1	0.025	mg/Kg
Endrin Ketone	ND	1	0.025	mg/Kg
Gamma-BHC (Lindane)	ND	1	0.025	mg/Kg
Heptachlor	ND	1	0.025	mg/Kg
Heptachlor Epoxide	ND	1	0.025	mg/Kg
Methoxychlor	ND	1	0.025	mg/Kg
Toxaphene	ND	1	0.10	mg/Kg

Surrogate for Blank % Recovery Control Limits  
Decachlorobiphenyl 75.1 37 - 135

# **Entech Analytical Labs, Inc.**

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

LCS / LCSD - Solid - Organochlorine Pesticides: EPA 3545A / EPA 8081A

QC Batch ID: PES071025

Reviewed by: mtran - 10/26/07

QC/Prep Date: 10/25/2007

## **LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
4,4'-DDT	<0.050	0.10	0.0930	mg/Kg	93.0	40 - 140
Aldrin	<0.050	0.10	0.0865	mg/Kg	86.5	40 - 140
Dieldrin	<0.050	0.10	0.0890	mg/Kg	89.0	40 - 145
Endrin	<0.050	0.10	0.0883	mg/Kg	88.3	40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0871	mg/Kg	87.1	40 - 140
Heptachlor	<0.050	0.10	0.0852	mg/Kg	85.2	40 - 140

Surrogate      % Recovery      Control Limits

Decachlorobiphenyl      75.0      37 - 135

## **LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
4,4'-DDT	<0.050	0.10	0.0995	mg/Kg	99.5	6.8	40.0	40 - 140
Aldrin	<0.050	0.10	0.0858	mg/Kg	85.8	0.81	40.0	40 - 140
Dieldrin	<0.050	0.10	0.0959	mg/Kg	95.9	7.5	40.0	40 - 145
Endrin	<0.050	0.10	0.0944	mg/Kg	94.4	6.7	40.0	40 - 145
Gamma-BHC (Lindane)	<0.050	0.10	0.0860	mg/Kg	86.0	1.3	40.0	40 - 140
Heptachlor	<0.050	0.10	0.0852	mg/Kg	85.2	0.0	40.0	40 - 140

Surrogate      % Recovery      Control Limits

Decachlorobiphenyl      79.1      37 - 135

# Entech Analytical Labs, Inc.

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

LCS / LCSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC Batch ID: SM071024

Reviewed by: HDINH - 10/25/07

QC/Prep Date: 10/24/2007

## LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<1.0	50	49.3	mg/Kg	98.5		70 - 130
Arsenic	<1.0	50	46.5	mg/Kg	93.0		70 - 130
Barium	<1.0	50	52.0	mg/Kg	104		70 - 130
Beryllium	<1.0	50	46.5	mg/Kg	92.9		70 - 130
Cadmium	<1.0	50	47.4	mg/Kg	94.8		70 - 130
Chromium	<1.0	50	48.0	mg/Kg	96.0		70 - 130
Cobalt	<1.0	50	49.3	mg/Kg	98.6		70 - 130
Copper	<1.0	50	49.6	mg/Kg	99.3		70 - 130
Lead	<1.0	50	48.0	mg/Kg	96.1		70 - 130
Molybdenum	<1.0	50	49.3	mg/Kg	98.5		70 - 130
Nickel	<1.0	50	48.4	mg/Kg	96.9		70 - 130
Selenium	<2.0	50	42.9	mg/Kg	85.7		70 - 130
Silver	<1.0	50	51.4	mg/Kg	103		70 - 130
Thallium	<2.0	50	45.4	mg/Kg	90.8		70 - 130
Vanadium	<1.0	50	49.8	mg/Kg	99.7		70 - 130
Zinc	<2.0	50	47.2	mg/Kg	94.5		70 - 130

## LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<1.0	50	48.7	mg/Kg	97.3	1.2	30.0		70 - 130
Arsenic	<1.0	50	45.5	mg/Kg	91.0	2.2	30.0		70 - 130
Barium	<1.0	50	51.8	mg/Kg	104	0.47	30.0		70 - 130
Beryllium	<1.0	50	46.3	mg/Kg	92.7	0.27	30.0		70 - 130
Cadmium	<1.0	50	46.6	mg/Kg	93.1	1.8	30.0		70 - 130
Chromium	<1.0	50	47.2	mg/Kg	94.5	1.6	30.0		70 - 130
Cobalt	<1.0	50	48.4	mg/Kg	96.8	1.8	30.0		70 - 130
Copper	<1.0	50	49.2	mg/Kg	98.3	0.97	30.0		70 - 130
Lead	<1.0	50	47.5	mg/Kg	95.0	1.1	30.0		70 - 130
Molybdenum	<1.0	50	49.1	mg/Kg	98.2	0.36	30.0		70 - 130
Nickel	<1.0	50	47.5	mg/Kg	95.0	2.0	30.0		70 - 130
Selenium	<2.0	50	42.2	mg/Kg	84.4	1.5	30.0		70 - 130
Silver	<1.0	50	50.9	mg/Kg	102	0.89	30.0		70 - 130
Thallium	<2.0	50	45.0	mg/Kg	89.9	0.94	30.0		70 - 130
Vanadium	<1.0	50	49.2	mg/Kg	98.4	1.2	30.0		70 - 130
Zinc	<2.0	50	46.2	mg/Kg	92.5	2.1	30.0		70 - 130

# CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 7980.6.001.01		PROJECT NAME: Los Altos												57799							
SAMPLED BY: (SIGNATURE/PRINT) <i>KC</i>		PROJECT MANAGER: Kelly Krohn												REMARKS REQUIRED DETECTION LIMITS							
ROUTING: E-MAIL <a href="mailto:kkrohn@engeo.com">kkrohn@engeo.com</a>		Hard Copy      Kelly Krohn																			
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Organochlorine Pesticides (EPA 8081)	Lead	Arsenic												
Orchard-1	10/23/07	8:00	Soil	1	Liner	Ice	X	X	X											Held	Samples
Orchard-2		8:07		1			X	X	X											Held	Taken
H.Oaks-4		8:47		1			X	X	X											Held	" OFF Hold "
H.Oaks-5		8:51		1			X	X	X											Held	as per
H.Oaks-6		8:56		1			X	X	X											Held	Client
																		5 (2" x 6") Al Tubes Rec'd @ Temperature => 16.0°C			
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>				DATE/TIME 10/23/07 9:36		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME		RECEIVED BY: (SIGNATURE)									
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)									
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS		<u>5 DAY TAT</u>									
<b>EN GEO</b> INCORPORATED		2010 CROW CANYON PLACE, SUITE 250 SAN RAMON, CALIFORNIA 94583 (925) 866-9000 FAX (925) 866-0199 <a href="http://WWW.ENGEO.COM">WWW.ENGEO.COM</a>										DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES									



## CITY OF LOS ALTOS

One North San Antonio Road  
Los Altos, California 94022  
Tel: (415) 948-1491  
FAX: (415) 941-7419

May 31, 1991

Mr. Howard K. Hatayama, Regional Administrator  
Region 2, Toxic Substances Control Program  
California Department of Health Services  
700 Heinz Avenue, Building F  
Berkeley, CA 94710  
Attention: Robert Feather

Re: Hillview - Eleanor Site  
Imminent and Substantial  
Endangerment Determination  
and Remedial Action Order

Dear Mr. Hatayama:

As our earlier correspondence indicated, the City and the School District jointly retained Weiss Associates to review the information generated to date relative to the above referenced contamination site. Based on this review (see attached letter), they believe that the contamination most likely originated off-site and that the investigative work performed by Canonie does not adequately support a conclusion that either the City or the District has been directly or indirectly responsible for the contamination.

Weiss Associates has recommended additional investigative work that would shed more light on the issue of whether or not the contamination originated off-site. Unfortunately, this work is quite costly (\$60,000 to \$80,000) and the School District's financial condition was very poor even before the State's budget crisis worsened. Under the current budgetary situation, the School Board is balking at spending any additional funds on a contamination problem that quite possibly has no connection with their previous land holdings in and around the civic center.

This places the City in the awkward position of trying to comply with the requirements of DOHS but having great difficulty justifying the incurring of 100% of very significant expenses relating to a problem that is most likely to be the result of either an off-site source or the past actions of the School District. Based on the Weiss Associates' proposal, the City seems to be looking at an expense of \$60,000 to \$80,000 whose primary benefit may be to prove the innocence of the School District while not positively identifying the actual responsible party. We are concerned that this could leave the City with an \$80,000 bill and additional responsibilities because a plume may have migrated from some other location to under City owned lands. It seems worth noting that the plume must extend under the property of others such as the California Water Service Company.

We are able to report progress on another front. As the attached correspondence indicates, the City's previous insurance carrier has recently authorized Lindsey & Newsom to handle the investigation of this case. While it has taken four long months to actually have a meeting with a representative for the carrier, we expect a much more active role in the near future. It is our desire to have the insurance carrier assume primary responsibility for the investigation since they should have the resources and experience to more adequately fulfill the various requirements. Even if they are unwilling to assume primary responsibility, it is crucial from the City's standpoint to secure the insurance carrier's participation prior to undertaking any significant expenditures.

At this point in the process, we and our elected officials are in need of answers to several questions:

1. If additional investigative work proves that the source of the contamination is from another site such as a defunct dry cleaning establishment, does the City continue to have further investigative and cleanup responsibilities?
2. Is the City "stuck" with the investigation costs even if the results were to clearly show that the Civic Center was not the source of the contamination?
3. Would the California Water Service Company and other property owners "over" the plume have any cleanup responsibilities?
4. Does the City's ownership of a water well create any special obligations?

We would appreciate responses to these questions at the earliest possible date.

Regarding the Community Relations Plan, we will be submitting a draft next week indicating our thoughts on the changes needed to bring it up to date. If you see the need for additional changes, please let us know what else is needed and we will finalize the document.

We have been reviewing the earlier fact sheet for this site and will be submitting our updated version in draft form on or about June 15th.

Even though we have been working with Weiss Associates and were considering designating them to be the project engineer/geologist, it now appears that we should postpone this decision until we can obtain concurrence from our insurance carrier. In fact, we would not be surprised to find that the insurance company/adjustor has a preference for some other firm. Under these circumstances, we are requesting an extension to August 1, 1991 for submitting the name of the project engineer/geologist.

Your favorable consideration of our request for time extension will be appreciated. Please feel free to call me if you have any questions or need additional information.

Sincerely,



Bruce Bane  
Director of Public Works  
and Project Coordinator

cc: Marge Gratiot, School Superintendent  
Dianne Gershuny, City Manager  
Robert Booth, City Attorney  
Steven Ritchie, Regional Water Quality Control Board  
EPA Region IX, Superfund Program Manager  
Santa Clara County Health Department



WEISS ASSOCIATES

Geologic and Environmental Services

Fax: 415-547-5043

Phone: 415-547-5420

5500 Shellmound Street, Emeryville, CA 94608

May 30, 1991

Mr. Bruce Bane  
City of Los Altos  
One North San Antonio Road  
Los Altos, CA 94022

VIA TELEFAX: 415-941-7419

Re: Summary of DHS RAO and  
Previous Remedial Investigations  
of Civic Center Site  
WA Job #42-529-00

Dear Mr. Bane:

We have reviewed the relevant documents addressing carbontetrachloride ( $CCl_4$ ) detected in groundwater at the City of Los Altos Civic Center Site (the Site). Included in our review were previous environmental studies and the California Department of Health Services (DHS) January 16, 1991 Remedial Action Order (RAO) issued to the City of Los Altos (the City.)

As you know, the RAO requires the City to take specific and comprehensive actions. We believe the RAO correctly identifies important limitations in the current understanding of the  $CCl_4$  plume. However, we suspect that the source of  $CCl_4$  is upgradient rather than at the Site. We believe a limited scope-of-work might confirm an upgradient source. If an upgradient source is confirmed, DHS might relieve the City of at least some, if not all, responsibility for the problem. Otherwise, satisfying the RAO will be a very expensive and long term undertaking. In accordance with your request, we provide the following summary of our findings and concerns about the conditions at the Site.

#### PRESENT UNDERSTANDING OF SITE CONDITIONS

We believe the source is probably not on-site but rather from the location of a former dry-cleaner at 1st and Lyle Streets, southwest and presumably hydrologically upgradient of the

Civic Center. However, many possible conceptual models for a contaminant source could fit the limited data presently available.

The previous studies assessed the concentrations of  $\text{CCl}_4$  in the two on-site wells. Soil-vapor data, useful in identifying source areas, was also collected over an area of 1 mile in diameter. To verify the soil-vapor data and further investigate suspected source areas not indicated by soil-vapor, soil samples were collected from shallow unsaturated soils and to a limited extent from deeper soils as well. The soil-vapor survey identified one area of  $\text{CCl}_4$  soil vapor at the former dry-cleaner upgradient of the Site. However, no  $\text{CCl}_4$  was detected in the soil itself at any location.

The soil-vapor data is the most compelling evidence that the source may be at the location of the former dry-cleaner. Two factors support the soil vapor data: 1)  $\text{CCl}_4$  has historically been used as a dry-cleaning fluid; and 2) the dry-cleaner used a septic system, which would likely introduce  $\text{CCl}_4$  to ground water if it was released into the septic system. The only evidence linking the Civic Center to the  $\text{CCl}_4$  is its detection on-site at low concentrations in groundwater and hearsay reports of solvents of an unspecified composition being released to the ground on-site.

Although an on-site source cannot presently be ruled out, the data suggests that an upgradient source, such as the dry-cleaner, is more likely for the following reasons:

- 1) No  $\text{CCl}_4$  was detected in soil vapor or in unsaturated soils on-site, as would be expected in a source area;
- 2)  $\text{CCl}_4$  concentrations are similar, low, and stable in the two on-site wells despite their horizontal separation of 800 feet, and differences in the well's screened depth intervals. This suggests that  $\text{CCl}_4$  is widely dispersed horizontally and vertically, a typical condition at the outer reaches of a plume, but not typical of a source area. Near a source, concentrations are generally high and vary significantly depending on location relative to the source. Concentrations near a source also tend to vary significantly over years as a result of seasonal groundwater fluctuations and source attenuation.

In addition to an unknown source area, several other important gaps in the present understanding of the Site include lack of information about ground water concentrations off-site, especially upgradient, and uncertainty about the groundwater gradient. In general, little is known about the occurrence and extent of the  $\text{CCl}_4$ , or its migration. The RAO issued

Bruce Banc  
May 30, 1991

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WEISS ASSOCIATES



by the DHS recognizes these limitations, and seeks to have the City first collect information necessary to characterize and define the extent of CCl<sub>4</sub> in ground water, and then devise and implement a solution.

#### REGULATORY CONSIDERATIONS

As you know, the DHS case worker for your site is Robert Feather and we believe he will be helpful to the city in its efforts to address the RAO. We believe Mr. Feather has a sincere interest in having the CCl<sub>4</sub> issue addressed by the City in a timely, expeditious, and cost-effective manner. However, it is our opinion that meeting the requirements of the ROA, in contrast, will become a lengthy and costly process. The approach it requires is modeled after the Federal Superfund program and is a very involved process specifying how to plan a site investigation, how to execute the plan, how to report on that investigation, how to analyze and report feasible clean-up strategies, and ultimately how to implement a selected strategy. The process requires many documents, including a 9 volume work plan, all of which must be reviewed and accepted (probably after negotiation & revision) by the DHS before progressing towards site characterization and remediation.

The execution of the work plan itself may be quite expensive, but is equalled or exceeded by the expense of generating the required documentation. The costs to complete the process as outlined in the RAO could be at least \$300,000 and would probably exceed \$500,000. Depending on the final remedial actions, there will be ongoing monitoring and possible operation and maintenance costs of at least \$20,000 per year indefinitely.

Given the apparent likelihood of an upgradient source and the low levels of CCl<sub>4</sub> detected on Site, we encourage the City to open a dialogue with the DHS to explore the possibility of alternate technical approaches to resolving this matter.

#### POSSIBLE TECHNICAL APPROACH

To check for an upgradient source, we suggest installation of clustered monitoring wells as follows:

Bruce Bane  
May 30, 1991

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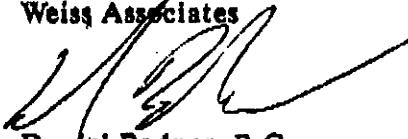
WEISS ASSOCIATES

VH

- Install and sample two to three well-clusters (of two to three wells each) located between the Civic Center and the former dry cleaner. Locations and screened intervals will be selected based on stratigraphic data available and access to drilling locations.

We estimate this task will cost on the order of \$60,000-\$80,000. Please feel free to call me if you have any questions or comments about this information.

Sincerely,  
Weiss Associates



Daniel Bodner, R.G.  
Senior Project Hydrogeologist

DB:db

DB's C:\DATA\MARKET\LOSALTOS.REV

**FACT SHEET**  
**UPDATE ON LOS ALTOS**  
**GROUNDWATER CONTAMINATION**

NOVEMBER 1991  
Hillview-Eleanor Site

**Introduction**

This update provides information about the field work conducted in or near downtown Los Altos as a part of a groundwater investigation under the direction of the California Department of Health Services (DHS) at the Hillview-Eleanor Site (Site). Contamination of underground aquifers with trace amounts of carbon tetrachloride (CCl<sub>4</sub>), an organic solvent, was discovered in two wells in July 1984. One of the wells is owned by the California Water Service Company (CWS) and the other well, located between San Antonio Road and Cielito Drive, is owned by the City of Los Altos (City) for orchard irrigation purposes. Both wells have been taken out of service and neither well is being used.

Field investigations were conducted to determine the source of the contamination; to determine the extent and migration of the underground contamination; and to examine the potential threat to groundwater supplies.

**Current Status of Investigation**

Weiss Associates, an environmental consulting firm, was hired by the City to review the field investigation reports performed by the State and its contractors. According to Weiss, soil-vapor samples, useful in identifying possible source areas, were collected over an area of 1 mile in diameter surrounding the two wells. To verify the soil-vapor data and further investigate suspected source areas not indicated by soil-vapor data, soil samples were collected from relatively shallow unsaturated soils and, to a limited extent, from deeper soils as well. The soil-vapor survey identified one area of CCl<sub>4</sub> soil vapor at a former dry cleaner upgradient of the Site. However, no CCl<sub>4</sub> was detected in soil samples at any location.

Although an on-site source cannot presently be ruled out, the data suggests that an

upgradient source, such as a former dry cleaner, is more likely for the following reasons:

- 1) No CCl<sub>4</sub> was detected in soil vapor or in unsaturated soils on-site, as would be expected in a source area;
- 2) CCl<sub>4</sub> concentrations are similar, low, and stable in both wells despite a horizontal separation of 800 feet and differences in the screened depth intervals. This suggests that CCl<sub>4</sub> is widely dispersed both horizontally and vertically, a typical condition at the outer reaches of a plume, but not typical of a source area. Near a source, concentrations are generally high and vary significantly depending on location relative to the source. Concentrations near a source also tends to vary significantly over years as a result of seasonal groundwater fluctuations and source attenuation.

In addition to an unknown source area, several other important gaps in the present understanding of the Site include lack of information regarding groundwater concentrations off-site, especially upgradient, as well as uncertainty about the groundwater gradient itself. In general, little has been uncovered about how or how much CCl<sub>4</sub> got into the groundwater or its migration patterns within the aquifer.

DHS recognizes these limitations, and now seeks to have the City and the Los Altos Elementary School District (District), a former property owner, collect the information necessary to characterize and define the extent of the CCl<sub>4</sub> in the groundwater. Due to the high cost of such investigations, the City and District are working with their respective insurance companies to determine if these costs should be the responsibility of the insurers.

**Addendum To  
The Los Altos Community Relation Plan  
Hillview-Eleanor Site**

November 1991

p.1

**1. Page 6, Paragraph 1, last sentence. To read as follows:**

"The aeration system continued to operate until early 1989, when the well was permanently removed from service."

R. Taylor, California Water Service. July 2, 1991.

**2. Page 6, Paragraph e. To read as follows:**

"e) Possible damage to the aquifer:

A representative from the Santa Clara Valley Water District expressed concerns about this case as the problem has neither been scoped nor is its movement determined, possibly toward other nearby water supply wells.

In this case much higher levels of contaminants may occur in the areas closer to the presently unknown source(s) and also possibly at higher concentration levels in the upper aquifers in the area of the known two wells that are contaminated.

Some community members expressed concern that wells that might be drilled as part of the investigation might allow possible cross contamination of the the aquifers. The potential for cross contamination occurs if improperly constructed or abandoned wells in disrepair are located in the contaminated area. Under present standards and better practices of the construction of new water wells and monitoring wells the problem of potential cross-contamination is largely eliminated."

T. Iwamura, Santa Clara Valley Water District. July 16, 1991.

**3. Update: Current Status of Well**

"Weiss Associates, an environmental consulting firm, was hired by the City to review the field investigation reports preformed by the State and its contractors. According to Weiss, soil-vapor samples, useful in identifying possible source areas, were collected over an area of 1 mile in diameter surrounding the two wells. To verify the soil-vapor data and further investigate suspected source areas not indicated by soil-vapor data, soil samples were collected from relatively shallow unsaturated

**Addendum To  
The Los Altos Community Relation Plan  
Hillview-Eleanor Site**

November 1991

p.2

soils and, to a limited extent, from deeper soils as well. The soil-vapor survey identified one area of CCl4 soil vapor at a former dry cleaner upgradient of the Site. However, no CCl4 was detected in soil samples at any location.

Although an on-site source cannot presently be ruled out, the data suggests that an upgradient source, such as a former dry cleaner, is more likely for the following reasons:

- 1) No CCl4 was detected in soil vapor or in unsaturated soils on-site, as would be expected in a source area;
- 2) CCl4 concentrations are similar, low, and stable in both wells despite a horizontal separation of 800 feet and differences in the screened depth intervals. This suggests that CCl4 is widely dispersed both horizontally and vertically, a typical condition at the outer reaches of a plume, but not typical of a source area. Near a source, concentrations are generally high and vary significantly depending on location relative to the source. Concentrations near a source also tends to vary significantly over years as a result of seasonal groundwater fluctuations and source attenuation.

In addition to an unknown source area, several other important gaps in the present understanding of the Site include lack of information regarding groundwater concentrations off-site, especially upgradient, as well as uncertainty about the groundwater gradient itself. In general, little has been uncovered about how or how much CCl4 got into the groundwater or its migration patterns within the aquifer.

DHS recognizes these limitations, and now seeks to have the City and the Los Altos Elementary School District (District), a former property owner, collect the information necessary to characterize and define the extent of the CCl4 in the groundwater. Due to the high cost of such investigations, the City and District are working with their respective insurance companies to determine if these costs should be the responsibility of the insurers."

D. Bodner, Weiss Associates. May 1991.

**Addendum To  
The Los Altos Community Relation Plan  
Hillview-Eleanor Site**

November 1991

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**4. Update: Appendix A: List of Interested Parties and Contacts**

**A. Federal Elected Officials**

Senator Alan Cranston (415) 556-8440  
1390 Market St., Ste. 918  
San Francisco, CA 94102

Senator John Seymour (415) 905-1666  
211 Main St. #1702  
San Francisco, CA 94105

Congressman Thomas Campbell, District 12 (415) 321-9154  
599 N. Mathilda Ave., Ste. 105 (408) 245-4835  
Sunnyvale, CA 94086

**B. State Elected Officials**

State Senator Rebecca Morgan, District 11 (415) 688-6330  
750 Menlo Ave., Ste. 100 (408) 277-9824  
Menlo Park, CA 94025

Assemblymember Charles Quackenbush, District 22 (408) 446-4114  
456 El Paseo de Saratoga  
San Jose, CA 95130

**C. Local Officials**

City of Los Altos, City Hall (415) 948-1491  
1 N. San Antonio Rd.  
Los Altos, CA 94022

**City Council:**

Margaret Bruno (term ends 1995)  
Theodore Laliotis (term ends 1995)  
Penelope Lave (term ends 1993)  
David Reeder (term ends 1995)  
S.B. Spangler (term ends 1993)

Dianne Gershuny, City Manager  
Bruce Bane, Director of Public Works

Addendum To  
The Los Altos Community Relation Plan  
Hillview-Eleanor Site

November 1991

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Santa Clara County, County Government Center (408) 299-2323  
70 W. Hedding St.  
San Jose, CA 95110

**Board of Supervisors:**

Michael Honda, District 1  
Zoe Lofgren, District 2  
Ron Gonzales, District 3  
Rodney Diridon, District 4  
Dianne McKenna, District 5

Sally Reed, County Executive

#### D. State and Local Agencies

California Department of Health Services (415) 540-3401  
700 Heinz Ave.  
Berkeley, CA 94710

Frank Gaunce, Sr. Waste Management Engineer

California Regional Water Quality Control Board  
2101 Webster, Ste. 500 (415) 464-1255  
Oakland, CA 94612

Santa Clara Valley Water District (408) 265-2600  
5750 Almaden Expwy.  
San Jose, CA 95118

Thomas Iwamura, Engineering Geologist

Santa Clara County Department of Public Health  
Office of Hazardous Materials, Toxic Enforcement (408) 299-6930  
2220 Moorpark Ave.  
San Jose, CA 95128

Erwin Koehler, Deputy Director of Toxic Enforcement

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## E. Community Organizations

City of Los Altos Hillview Community Center (415) 948-1491  
97 Hillview Ave.  
Los Altos, CA 94022

Bob Rayl, Director Hillview Community Center  
Miriam Rounds, Senior Recreation Supervisor

League of Women Voters of Los Altos-Mountain View Area  
97 Hillview Ave. (415) 941-4846  
Los Altos, CA 94022

Ann Coombs, Hazardous Materials Coordinator  
Libby Lucas, Natural Resources Coordinator  
Joanne Lange, President (term ends Summer 1992)

Los Altos Board of Realtors (415) 948-8219  
321 Second St.  
Los Altos, CA 94022

Tom Moran, Executive Vice President  
Charles Krackeler, Chairman Education Committee

American Association of University Women (415) 961-0394  
930 Berry Ave.  
Los Altos, CA 94022

Lee Lynch, Community Outreach Coordinator

#### F. Other Interested Parties

Los Altos Chamber of Commerce (415) 948-1455  
321 University Ave.  
Los Altos, CA 94022

Ginny Lear, Executive Director

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California Water Service Company (408) 453-8414  
1720 N. First St.  
San Jose, CA 95112

Raymond Taylor, Vice President

Children's Corner Pre-School (415) 948-8950  
97 Hillview Ave.  
Los Altos, CA 94022

Gini Brown, Director