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## LIMITED PHASE II SOIL SAMPLING INVESTIGATION REPORT



APNs 367-180-015 & 367-180-043  
WILDOMAR, CALIFORNIA

Prepared For:

Strata Equity  
4370 La Jolla Village Drive  
San Diego, CA 92122

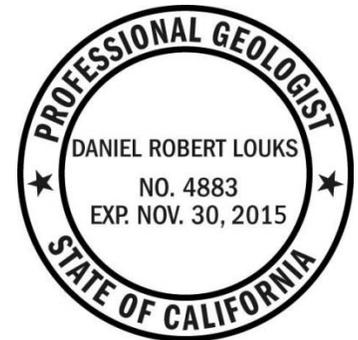
Hillmann Project Number

C3-6222 March 9, 2015

Written By:  
Hillmann Consulting, LLC

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Dan Louks  
Professional Geologist 4883



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**Your Property. Our Priority.**

1745 W. Orangewood Avenue, Suite 110, Orange, CA 92868  
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March 9, 2015

Mr. Eric Flodine  
Strata Equity  
4370 La Jolla Village Drive  
San Diego, CA 92122

**RE: Limited Phase II Soil Sampling Investigation Report**  
APNs 367-180-015 & 367-180-043  
Wildomar, California  
Hillmann Project Number: C3-6222

Dear Mr. Flodine:

Hillmann Consulting, LLC, is pleased to provide this Soil Sampling Investigation Report prepared for the above referenced property.

This report is for the exclusive use of the entities named on the front cover, its affiliates, designates and assignees, rating agencies, prospective bond holders and bond holders, and no other party shall have any right to rely on any service provided by Hillmann Consulting, LLC, without prior written consent.

We appreciate the opportunity to provide environmental due diligence services. If you have any questions concerning this report, or if we can assist you in any other matter, please contact the Project Manager at 714-634-9500.

Very Truly Yours,  
Hillmann Consulting, LLC

  
Brandon Clements  
Regional Director

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## 1.0 INTRODUCTION / BACKGROUND

Hillmann Consulting, LLC (Hillmann) conducted a Limited Phase II Soil Sampling Investigation at the undeveloped land identified by APNs 367-180-015 & 367-180-043, in Wildomar, California. The subject property is located on the north side of Baxter Road between White Street and Interstate 15 in Wildomar, and occupies about 35.48 acres (**Figure 1**).

In September 2012, Hillmann completed a Phase I Environmental Site Assessment for the property and discovered that the site had been used for agricultural purposes since as early as the 1930s. Historical aerial photos indicate the site was developed with orchards from at least 1938 to the late 1950s.

The historical site use suggests that there is a potential for residual pesticides in the shallow soil. Accordingly, Hillmann performed a Phase II subsurface investigation to evaluate whether the property's historical agricultural use resulted in the presence of pesticides in soil at levels above regulatory thresholds.

In February 2015, Hillmann collected near surface soil samples from about 0.5 to 2 feet below grade to test the underlying soil for suspect priority pollutants typically utilized by these activities. Results of sampling indicated no detectable levels of pesticides in any of the composite samples collected.

## 2.0 GEOLOGY/HYDROGEOLOGY

The shallow native sediment encountered beneath the site consisted of brown sandy silt featuring very fine to fine grained sand and minor amounts of clay in the upper 2 feet of soil. Groundwater was not encountered to the maximum depth of investigation. Based on regulatory information available on the GeoTracker website, groundwater is located at about 43 feet below grade at a site located about one-mile northwest of the site (Global ID T0606599151).

## 3.0 SITE INVESTIGATION

On February 20, 2015, Hillmann collected 48 shallow soil samples from across the site. The samples were collected using a rough grid pattern across the property. Each sequence of four soil samples collected was composited in the field to provide a representative and random assessment of the soil conditions across the broad property.

The rationale for this sampling pattern is based on the assumption that any pesticide applications would have been evenly distributed over time and area. This is a reasonable assumption and is recommended in regulatory guidance prepared by DTSC (Interim Guidance for Sampling Agricultural Properties, August 2008). The sampling locations are shown on **Figure 1**.

The soil samples were collected using a hand auger tool or soil sampling spatula from depths ranging from 0.5-2 feet below grade from native soil. The samples were preserved in laboratory jars, sealed with Teflon tape and stored in a chilled cooler pending delivery to the

laboratory. A total of 12 native soil sample composites were submitted for laboratory analysis of organo-chlorine pesticides (OCP) by EPA Method 8081A and arsenic by EPA Method 6010B as recommended by DTSC guidance. Cal Tech Environmental Laboratories of Paramount, California analyzed the samples.

### **3.1 Laboratory Results**

Results of laboratory analysis indicated none of the soil samples had detectable levels of OCP. In addition, arsenic was detected in low concentrations in each sample. Arsenic is a metal commonly found in moderate concentrations in naturally occurring sediment in southern California. These natural concentrations commonly exceed the CHHSL levels so determining the relative anthropogenic impact (if any) can be problematic. The Department of Toxic Substances Control (DTSC) conducted a study to provide a statistically defensible background concentration for arsenic in southern California soil. The term “background” collectively refers to both naturally occurring and anthropogenic sources of arsenic in shallow soil. Field data were collected from sites throughout Los Angeles, Orange, Riverside, San Bernardino and San Diego counties. The statistical analysis indicated the background concentration for arsenic in southern California soil is 12 mg/Kg. This concentration can be used as a screening level for arsenic in soil regardless of the source. Using this criterion, the arsenic concentrations detected in soil beneath the site are well below the accepted background concentration (12 mg/Kg).

These results are summarized in **Table 1**. The laboratory report is included as **Appendix B**.

## **4.0 CONCLUSIONS**

The subject property is undeveloped land that was used agriculturally from at least 1938 through the late 1950s. The former site use indicates pesticide applications were likely conducted in the past. To determine if significant residual pesticides remained in the subsurface a soil sampling plan was developed using a randomized grid and composite soil sampling. A total of 48 locations of shallow soil at 0.5-2 feet below grade were sampled and composited to 12 samples for analysis. The samples were tested for OCP and arsenic.

Results indicated no OCP was detected and the arsenic levels were all well below background levels established by DTSC. Based on the results we recommend no further sampling for this site.

## **5.0 LIMITATIONS**

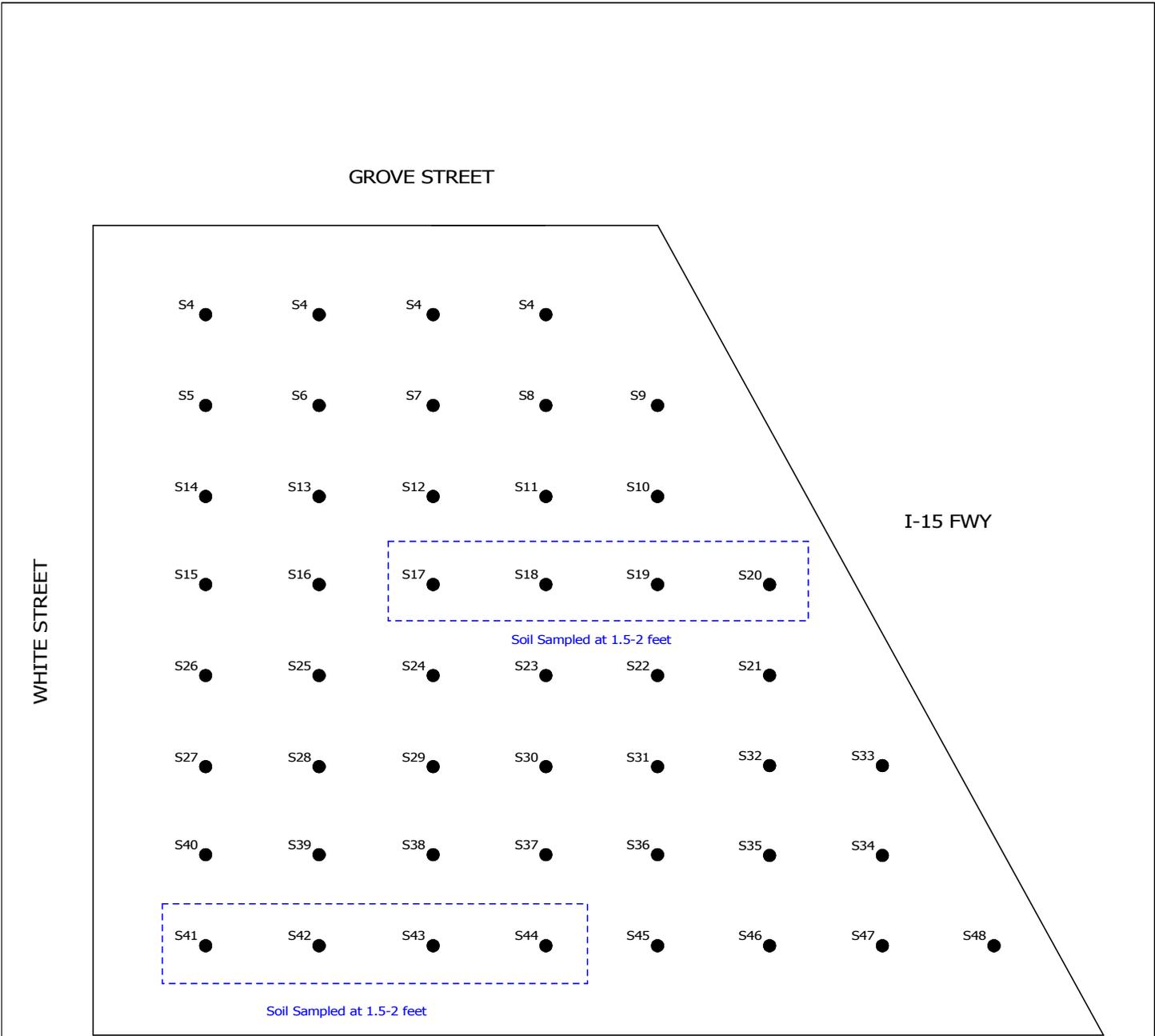
This Subsurface Investigation was performed in accordance with generally and currently accepted engineering practices and principles; however, the procedures and methodologies used in this investigation are not intended to meet all specific regulatory guidelines as this work was completed as a self-directed effort. Although the data in this report is indicative of subsurface conditions in areas investigated, no further conclusions regarding the absence or presence of subsurface contamination in other areas of the site should be construed or inferred other than those expressly stated in this report. The conclusions made are based on information obtained from field observations, independent laboratory analytical results, and from relevant Federal, State, regional, and local agencies.

**TABLE 1**  
**Summary of Soil Sampling Results (mg/Kg)**

Sample ID	Arsenic	OCP
S1-S4 0.5-1'	1.3	ND
S5-S8 0.5-1'	1.5	ND
S9-S12 0.5-1'	1.0	ND
S13-S16 0.5-1'	3.4	ND
S17-S20 1.5-2'	2.0	ND
S21-S24 0.5-1'	1.3	ND
S25-S28 0.5-1'	1.2	ND
S29-S32 0.5-1'	2.4	ND
S33-S36 0.5-1'	4.5	ND
S37-S40 0.5-1'	2.2	ND
S41-S44 1.5-2'	2.8	ND
S45-S48 0.5-1'	5.3	ND
<b>DTSC Background</b>	<b>12</b>	<b>--</b>

*Notes: OCP-Organochloride pesticides, DTSC Background Concentration is based on statistical study of sites throughout southern California. This concentration may be used as a screening level for anthropogenic and naturally occurring levels of arsenic in soil in southern California. ND – Not detected above reporting limit shown. Please refer to lab report for complete results.*

# FIGURES



WHITE STREET

I-15 FWY

Soil Sampled at 1.5-2 feet

Soil Sampled at 1.5-2 feet

LEGEND

- Soil Samples
- Samples collected at 1.5-2 feet below grade, all others at 0.5-1 feet below grade.

**FIGURE 1**  
**SAMPLE LOCATIONS**  
 APNs 367-180-015 & 367-180-043  
 Wildomar, California

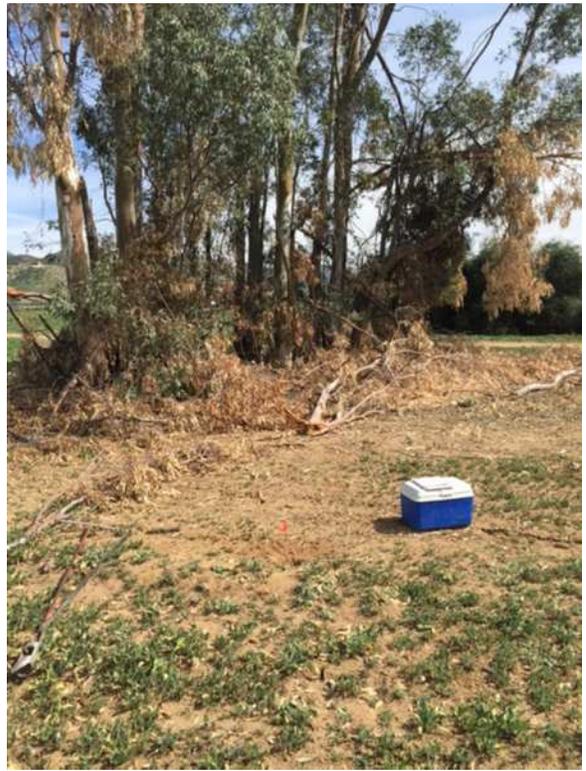


# APPENDIX A

## Site Photos



S22



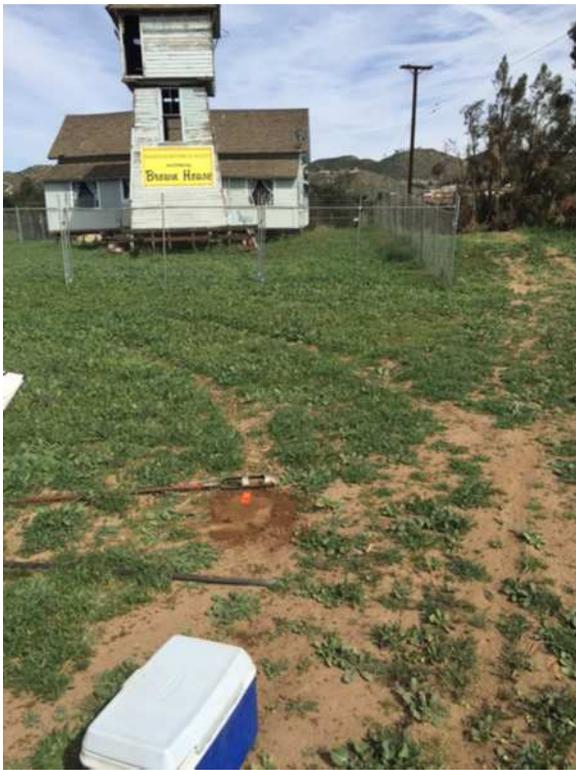
S29



S33



S37



S43



S44

APPENDIX B  
Laboratory Report

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
 Telephone: (562) 272-2700 Fax: (562) 272-2789

## ANALYTICAL RESULTS\*

**CTEL Project No:** CT178-1502127

**Client Name:** Hillman Consulting  
 1745 W. Orangewood Ave.  
 Orange, CA 92868

**Phone:**(714) 206-3916

**Fax:** (714) 634-9507

**Attention:** Mr. Dan Louks / Brandon Clements

**Project ID:** Vacant Lot

**Project Name:** NW Corner Baxter Rd / 15 Fwy

**Date Sampled:** 02/20/15 @ 07:50 am

**Matrix:** Soil

**Date Received:** 02/20/15 @ 20:00 pm

**Date Analyzed:** 02/24/15

Laboratory ID:	1502-127-1	1502-127-2	1502-127-3	Method	Units:	Detection Limit
Client Sample ID:	S1-S4-0.5-1.0	S5-S8-0.5-1.0	S9-S12-0.5-1.0			
Dilution	1	1	1			
4,4'-DDD	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDE	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDT	ND	ND	ND	EPA 8081A	ug/Kg	3
Aldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
beta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	10
delta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Dieldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan I	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan II	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan sulfate	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin aldehyde	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin ketone	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlore epoxide	ND	ND	ND	EPA 8081A	ug/Kg	3
Methoxychlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Toxaphene	ND	ND	ND	EPA 8081A	ug/Kg	100

ND = Not Detected at the indicated Detection Limit

TOTALLY DEDICATED TO CUSTOMER SATISFACTION

**CTEL Project No:** CT178-1502127  
**Client Name:** Hillman Consulting  
 1745 W. Orangewood Ave.  
 Orange, CA 92868  
**Attention:** Mr. Dan Louks / Brandon Clements

**Phone:**(714) 206-3916  
**Fax:** (714) 634-9507

**Project ID:** Vacant Lot  
**Project Name:** NW Corner Baxter Rd / 15 Fwy

**Date Sampled:** 02/20/15 @ 10:05 am  
**Date Received:** 02/20/15 @ 20:00 pm  
**Date Analyzed:** 02/24/15

**Matrix:** Soil

Laboratory ID:	1502-127-4	1502-127-5	1502-127-6	Method	Units:	Detection Limit
Client Sample ID:	S13-S16-0.5-1.0	S17-S20-0.5-1.0	S21-S24-0.5-1.0			
Dilution	1	1	1			
4,4'-DDD	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDE	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDT	ND	ND	ND	EPA 8081A	ug/Kg	3
Aldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
beta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	10
delta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Dieldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan I	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan II	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan sulfate	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin aldehyde	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin ketone	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlore epoxide	ND	ND	ND	EPA 8081A	ug/Kg	3
Methoxychlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Toxaphene	ND	ND	ND	EPA 8081A	ug/Kg	100

ND = Not Detected at the indicated Detection Limit

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Phone:(714) 206-3916  
Fax: (714) 634-9507

Attention: Mr. Dan Louks / Brandon Clements

Project ID: Vacant Lot  
Project Name: NW Corner Baxter Rd / 15 Fwy

Date Sampled: 02/20/15 @ 12:20 pm  
Date Received: 02/20/15 @ 20:00 pm  
Date Analyzed: 02/24/15

Matrix: Soil

Laboratory ID:	1502-127-7	1502-127-8	1502-127-9	Method	Units:	Detection Limit
Client Sample ID:	S25-S28-0.5-1.0	S29-S32-0.5-1.0	S33-S36-0.5-1.0			
Dilution	1	1	1			
4,4'-DDD	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDE	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDT	ND	ND	ND	EPA 8081A	ug/Kg	3
Aldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
beta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	10
delta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Dieldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan I	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan II	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan sulfate	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin aldehyde	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin ketone	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlore epoxide	ND	ND	ND	EPA 8081A	ug/Kg	3
Methoxychlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Toxaphene	ND	ND	ND	EPA 8081A	ug/Kg	100

ND = Not Detected at the indicated Detection Limit

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1745 W. Orangewood Ave.  
Orange, CA 92868

**Phone:**(714) 206-3916  
**Fax:** (714) 634-9507

**Attention:** Mr. Dan Louks / Brandon Clements

**Project ID:** Vacant Lot  
**Project Name:** NW Corner Baxter Rd / 15 Fwy

**Date Sampled:** 02/20/15 @ 14:55 pm  
**Date Received:** 02/20/15 @ 20:00 pm  
**Date Analyzed:** 02/24/15

**Matrix:** Soil

<b>Laboratory ID:</b>	1502-127-10	1502-127-11	1502-127-12	<b>Method</b>	<b>Units:</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	S37-S40-0.5-1.0	S41-S44-0.5-1.0	S45-S48-0.5-1.0			
<b>Dilution</b>	1	1	1			
4,4'-DDD	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDE	ND	ND	ND	EPA 8081A	ug/Kg	3
4,4'-DDT	ND	ND	ND	EPA 8081A	ug/Kg	3
Aldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
alpha-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
beta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	10
delta-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
Dieldrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan I	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan II	ND	ND	ND	EPA 8081A	ug/Kg	3
Endosulfan sulfate	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin aldehyde	ND	ND	ND	EPA 8081A	ug/Kg	3
Endrin ketone	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-BHC	ND	ND	ND	EPA 8081A	ug/Kg	3
gamma-Chlordane	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Heptachlore epoxide	ND	ND	ND	EPA 8081A	ug/Kg	3
Methoxychlor	ND	ND	ND	EPA 8081A	ug/Kg	3
Toxaphene	ND	ND	ND	EPA 8081A	ug/Kg	100

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**Attention:** Mr. Dan Louks / Brandon Clements

**Project ID:** Vacant Lot  
**Project Name:** NW Corner Baxter Rd / 15 Fwy

**Date Sampled:** 02/20/15 @ 07:50 am  
**Date Received:** 02/20/15 @ 20:00 pm  
**Date Analyzed** 02/23/15

**Matrix:** Soil

<b>Laboratory ID:</b>	1502-127-1	1502-127-2	1502-127-3	<b>Method</b>	<b>Units</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	S1-S4-0.5-1.0	S5-S8-0.5-1.0	S9-S12-0.5-1.0			
<b>Arsenic (As)</b>	1.3	1.5	1.0	SW846 6010B	mg/Kg	1
<b>Acid, Extraction</b>	02/22/15	02/22/15	02/22/15	SW846 3050	Date	

ND = Not Detected at the indicated Detection Limit

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**Matrix:** Soil

<b>Laboratory ID:</b>	1502-127-4	1502-127-5	1502-127-6	<b>Method</b>	<b>Units</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	S13-S16-0.5-1.0	S17-S20-0.5-1.0	S21-S24-0.5-1.0			
Arsenic (As)	3.4	2.0	1.3	SW846 6010B	mg/Kg	1
Acid, Extraction	02/22/15	02/22/15	02/22/15	SW846 3050	Date	

ND = Not Detected at the indicated Detection Limit

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**Date Analyzed** 02/23/15

**Matrix:** Soil

Laboratory ID:	1502-127-7	1502-127-8	1502-127-9	Method	Units	Detection Limit
Client Sample ID:	S25-S28-0.5-1.0	S29-S32-0.5-1.0	S33-S36-0.5-1.0			
Arsenic (As)	1.2	2.4	4.5	SW846 6010B	mg/Kg	1
Acid, Extraction	02/22/15	02/22/15	02/22/15	SW846 3050	Date	

ND = Not Detected at the indicated Detection Limit

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<b>Laboratory ID:</b>	1502-127-10	1502-127-11	1502-127-12	<b>Method</b>	<b>Units</b>	<b>Detection Limit</b>
<b>Client Sample ID:</b>	S37-S40-0.5-1.0	S41-S44-0.5-1.0	S45-S48-0.5-1.0			
Arsenic (As)	2.2	2.8	5.3	SW846 6010B	mg/Kg	1
Acid, Extraction	02/22/15	02/22/15	02/22/15	SW846 3050	Date	

ND = Not Detected at the indicated Detection Limit



Roobik Yaghoubi  
Laboratory Director

\*The results are base upon the sample received.

*Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424*

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 8081A  
Matrix: Soil  
Date Analyzed: 2/24/2015  
Units: ug/Kg

Perimeters	LCS	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
gamma-BHC	43	41	50	86	82	70-130	4
Heptachlor	45	42	50	90	84	70-130	6
Aldrin	47	45	50	94	90	70-130	4
Dieldrin	47	44	50	94	88	70-130	6
Endrin	42	41	50	84	82	70-130	2
4,4'-DDT	43	43	50	86	86	70-130	0

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

# CAL TECH Environmental Laboratories



6814 Rosecrans Avenue. Paramount, CA 90723-3146  
Telephone: (562) 272-2700 Fax: (562) 272-2789

## QA/QC Report

Method: 6010B  
Matrix: Soil  
Date Analyzed: 2/23/2015  
Units: mg/Kg

Perimeters	Method Blank	LSC	LCSD	Spike Added	LCS % Rec.	LCSD % Rec.	Limits	RPD
Arsenic	0	1.08	1.07	1	108	107	70-130	1

LCS: Laboratory Control Standard

LCSD: Laboratory Control Standard Duplicate

RPD: Relative Percent Difference of LCS and LCSD

# Chain of Custody Record

Client: HILLMAN CONSULTING Phone: (714) 206-3916 Turn Around Time \_\_\_\_\_  
 Contact: DAN LOUIS / BARBARA CLEMENT Fax: \_\_\_\_\_ Rush Normal  
 Address: 1745 W. ORANGEWOOD AVE., SUITE 110  
ORANGE, CA 92868  
 Project: VACANT LAND - NW CORNER BAYTEL RD / 15 FWT  
 Sampled By: DAN LOUIS / [Signature] Name/Signature \_\_\_\_\_

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	Analyses Requested		Comments
							Chi. Metric	AR. Metric	
	S1-05-1.0	2/20/15 7:50	Glass	1	24E	Soil	X	X	
	S5-58-05-1.0	8:35					X	X	
	S9-512-05-1.0	9:20					X	X	
	S13-516-05-1.0	10:05					X	X	
	S17-520-1.5-2.0	10:50					X	X	
	S21-524-0.5-1.0	11:35					X	X	
	S25-528-0.5-1.0	12:20					X	X	
	S29-532-0.5-1.0	13:05					X	X	
	S33-536-0.5-1.0	13:50					X	X	
	S37-540-0.5-1.0	14:55					X	X	

Relinquished: [Signature] Date/Time: 2-20-15/20:00 Received: \_\_\_\_\_  
 Dispatched: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Carrier: \_\_\_\_\_

I hereby authorize the performance of the above indicated tests.  
 Received by lab: [Signature] YES NO NONE  
 Custody seal(s) in tact upon receipt by lab? YES NO NONE

