Surface Soil Investigation Report

12-ACRE HAIGHT PROPERTY

2751 & 2755 PFE Road

Roseville, California

WKA No. 10217.03

October 27, 2014

Prepared for:

Mr. Rob Wilson

Meritage Homes

1671 E. Monte Vista Avenue, Suite 214

Vacaville, California 95688

Prepared By:

Wallace-Kuhl & Associates

3050 Industrial Boulevard

West Sacramento, California 95691

Wallace Kuhl & Associates

Corporate Office
3050 Industrial Boulevard
West Sacramento, CA 95691
916.372.1434 phone
916.372.2565 fax

Stockton Office
3422 West Hammer Lane, Suite D
Stockton, CA 95219
209.234.7722 phone
209.234.7727 fax

Surface Soil Investigation Report

12-ACRE HAIGHT PROPERTY

2751 & 2755 PFE Road
Roseville, California
WKA No. 10217.03
October 27, 2014

On behalf of Meritage Homes, Wallace-Kuhl & Associates (WKA) prepared this Surface Soil Investigation Report for the 12-Acre Haight Property located in Roseville, Placer County, California. The report was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This report was prepared under the supervision of a California Professional Geologist.

WALLACE-KUHL & ASSOCIATES

PROFESSIONAL GEOLOGIST
DENNIS B. NAKAMOTO
No. HG260
CERTIFIED HYDRO GEOLOGIST
STATE OF CALIFORNIA

Nelson Pi, MS, EIT
Staff Engineer

Dennis B. Nakamoto, PG, CEG, CHG
Senior Hydrogeologist

Surface Soil Investigation Report

12-ACRE HAIGHT PROPERTY

2751 & 2755 PFE Road

Roseville, California

WKA No. 10217.03

TABLE OF CONTENTS

1.0 INTRODUCTION 1
2.0 BACKGROUND 1
3.0 OBJECTIVE 1
4.0 FIELD ACTIVITIES 2
5.0 LABORATORY ANALYSIS 3
6.0 FINDINGS 4
6.1 Petroleum Hydrocarbon Related Compounds 4
6.2 Total Copper and Lead 5
6.3 Total Arsenic 5
6.4 Organochlorine Pesticides 6
7.0 CONCLUSIONS 7
8.0 RECOMMENDATIONS 8
9.0 LIMITATIONS 8
10.0 REFERENCES 9

FIGURES

1 Vicinity Map
2 Aerial Site Map
3 Sample Location Map – Western Portion of Property
4 Sample Location Map – Eastern Portion of Property
5 Sample Location Map – Residence

TABLES

1 Summary of Soil Analytical Results Petroleum Hydrocarbons
2 Summary of Soil Analytical Results Total Copper and Lead
3 Summary of Soil Analytical Results and Statistical Analysis Total Arsenic
4 Summary of Soil Analytical Results Organochlorine Pesticides
5 Summary of Soil Analytical Results Organochlorine Pesticides (Additional Residence Area Samples)

APPENDIX

A Laboratory Analytical Reports and Chain-of-Custody Documentation
B Soil Screening Levels – Residential Land Use

Surface Soil Investigation Report

12-ACRE HAIGHT PROPERTY

2751 & 2755 PFE Road

Roseville, California

WKA No. 10217.03

October 27, 2014

1.0 INTRODUCTION

This report describes activities WKA completed to assess surface soil at the 12-Acre Haight property (Site). The Site is located at 2751 & 2755 PFE Road in Roseville, Placer County, California (Figure 1). The 12-acre Site is comprised of Placer County Assessor's Parcel Numbers (APNs): 474-130-009, 474-130-010, 474-130-017, and 474-130-022. The Site is currently an operating wholesale nursery.

2.0 BACKGROUND

WKA's Phase I Environmental Site Assessment (ESA) report, dated August 25, 2014, identified Recognized Environmental Conditions at locations occupied by a 1,000-gallon aboveground storage tank (AST) containing unleaded gasoline, a residence, garage, office, shed, dry tail water pond, and container plant storage areas. The ESA report included WKA's recommendation for additional assessment at those locations. This report identifies the above listed locations as locations A, R, G, O, S, D, and C, respectively, in Figure 2.

WKA was refused permission to visually review the portion of the Site containing an occupied residence during the ESA site visit. The residence was vacant when the WKA collected soil samples discussed in this report and WKA discovered that a 14.5 feet by 13 feet outbuilding existed south of the residence. WKA observed this outbuilding to contain a sink. The Site owner stated that the sink served as a wet bar and that the outbuilding was constructed by 1974. The outbuilding is designated by an Ob on Figure 2.

3.0 OBJECTIVE

The purpose of this work was to evaluate surface soil around the structures for the presence of organochlorine pesticides (OCPs), arsenic, copper, and lead and soil around the AST for residues of petroleum hydrocarbon fuel products. WKA utilized the State of California Department of Toxic Substances Control's (DTSC), *Interim Guidance for the Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint,*

Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (Revised June 9, 2006) to select soil sample locations discussed in this report.

4.0 FIELD ACTIVITIES

WKA collected soil samples from 21 locations on the west and eastern portions of the property on September 18, 2014. Figure 3 illustrates sample locations within the western portion of the property and Figure 4 illustrates sample locations within the eastern portion of the property. WKA utilized hand auger sampling methods to collect each soil sample. Surface samples were collected at each location at a depth between zero and six inches below ground surface (bgs). WKA collected a second soil sample between 30 inches and 36 inches (2½ feet and 3 feet) bgs to evaluate background concentrations of naturally occurring metals in soil, if necessary. WKA observed soil to be more consolidated beginning at depths ranging between eight and 18 inches bgs and extending beyond the 36-inch bgs sample depth.

WKA collected soil samples at two locations (S1 and S2), which are north of the AST and where WKA observed surface soil with petroleum hydrocarbon staining. A surface (between zero and six inches bgs) and deeper (between 30 and 36 inches bgs) sample were collected from each of these locations for a total of four samples. WKA observed that soil staining was limited to the ground surface. The ground surface surrounding the tank was covered with a half-inch thickness of gravel. WKA observed soil beneath the gravel layer to be a slightly moist, brown, silty clay, intermixed with gravel that was free of petroleum hydrocarbon staining and chemical odors.

WKA collected 28 surface and 28 deeper soil samples were collected from the area of the residence and out building (S3 through S6), garage (S7 through S10), office (S11 through S14), and shed (S15 through S16), within two feet from each building's foundation. WKA collected each sample from a location along the perimeter of each building where bare soil was exposed at the ground surface. Sample locations S4 and S5 were placed within two planting beds on the north and east side of the residence, respectively. Sample location S6 was located on the southern side of the out building and the surface sample collected (S6-A) was included as part of a laboratory composite consisting of samples collected from the area of the residence and out building (Composite sample S3-S6-A shown in Table 4). Surface soils surrounding each structure were a moist to dry, brown, clayey silt with no visual indication of chemical staining or olfactory evidence of chemical odors. Deeper soils varied in color between light brown, yellowish brown, reddish brown, and light gray. Deeper soil varied between a clayey silt and silty clay and were also free of staining and odors.

One surface and one deeper sample were also collected within a dry tail water pond (S17) – a location where runoff is reported to have accumulated. Surface soil within the dry tail water pond was classified as a dry, grayish brown, silty fine sand with no visual indication of chemical staining or olfactory evidence of chemical odors. Deeper soil in the dry tail water pond was classified as a moist, brown, silty clay with fine sand free of staining and odors.

Four surface and four deeper samples were collected at four locations (S18 through S21) within the container plant storage areas. Samples were collected near four inlets to piping which provide runoff control within the container plant storage areas and were observed to be low areas where runoff from watering was likely to have accumulated. Surface soil samples collected from the container plant storage area varied between a wet to slightly moist, dark brown to brown, silty clay with no visual indication of chemical staining or olfactory evidence of chemical odors Deeper soil samples collected in the container plant storage area were classified as wet to slightly moist, brown to red brown, clayey silt to sandy silt and was also free of staining and odors.

WKA returned to the Site on September 30, 2014, to collect six surface and six deeper soil samples in the area of the outbuilding and residence (S22 through S27). These sample locations are illustrated in Figure 5. Each sample location was placed within two feet of the out building (S22 and S23) and residence perimeter (S24 through S27). Samples were collected on the east and west sides of the out building and on the north, south, east, and west sides of the residence. Sample locations S26 and S27 were placed within a planting bed on the northwest and east side of the residence, respectively. Surface soil was classified as a dry to slightly moist, dark brown to brown, silty clay or clayey silt with no visual indication of chemical staining or olfactory evidence of chemical odors Deeper soil was classified as a dry to slightly moist, light brown, clayey silt and was also free of staining and odors.

The collected soil samples were each labeled with a unique sample identification name and the date and time of collection. Samples were preserved on ice prior to transport for laboratory analysis. Soil samples were submitted to the laboratory with completed chain of custody forms.

5.0 LABORATORY ANALYSIS

WKA submitted surface soil samples to Excelchem Environmental Labs (Excelchem), a California State Water Resources Control Board certified laboratory (ELAP No. 2119), for analyses. Soil samples collected on September 18, 2014, from the area of the AST (S1-A and S2-A) were analyzed for petroleum hydrocarbons as discrete samples. Soil samples collected in the area of the residence (S3-A through S5-A), including the sample collected from the outbuilding (S6-A), were laboratory composited at a 4:1 ratio for the analysis of organochlorine pesticides (OCPs). Samples collected from the garage (S7-A through S10-A) and office (S11-A

through S14-A) were laboratory composited at a 4:1 ratio for the analysis of OCPs. Soil samples collected from the shed (S15-A and S16-A) were laboratory composited at a 2:1 ratio for the analysis of total lead and OCPs. Samples collected around each structure were also analyzed discretely for total lead. The remaining samples collected from the dry tail water pond (S17-A) and container plant storage area (S18-A through S21-A) were analyzed discretely for total arsenic, copper, and lead and OCPs.

Soil samples collected during the September 30, 2014, sampling event were each analyzed discreetly for OCPs. Deeper samples collected over both events were placed on hold pending surface sample results. The specific test methods for each analyte stated above are as follows:

- Total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8260B;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA 8260B;
- Naphthalene using EPA Method 8270;
- Five fuel oxygenates – Methyl tert butyl ether , diisopropyl ether, tertiary-amyl methyl ether, tert-butyl alcohol, and 1,2-dichloroethane by EPA 8260B;
- Total arsenic, copper, and lead by EPA Method 6010B; and,
- OCPs by EPA Method 8081A.

Laboratory data sheets are available in Appendix A.

6.0 FINDINGS

The laboratory results for the analyzed constituents were compared to their respective California Human Health Screening Levels (CHHSLs). The residential CHHSLs for the constituents analyzed, when available, are provided in Appendix B. The Office of Environmental Health Hazards Assessment established these thresholds based on the total exposure (inhalation, ingestion, and dermal absorption) to impacted soil.

6.1 Petroleum Hydrocarbon Related Compounds

A summary of soil analytical results for surface soil samples analyzed for petroleum hydrocarbon related compounds is provided in Table 1. The results show no detections of TPHg, BTEX, naphthalene, or the five fuel oxygenates above laboratory reporting limits in soil samples S1-A and S2-A collected near the AST.

6.2 Total Copper and Lead

Laboratory analytical results for surface soil samples analyzed for total copper and lead are summarized in Table 2. Total copper was detected in samples collected from the dry tail water pond (S17-A) and container plant storage area (S18-A through S21-A). The detected concentrations of total copper fall below its residential CHHSL (3,000 milligrams per kilogram (mg/kg)). Similarly, total lead was detected in all samples collected around the perimeter of each structure (S3-A through S16-A) and within the dry tail water pond (S17-A) and container plant storage area (S18-A through S21-A). The detected concentration of total lead ranged from 2.9 mg/kg to 28.8 mg/kg. The concentration of total lead detected at the Site falls below its CHHSL of 80 mg/kg based on a residential land use.

6.3 Total Arsenic

Laboratory results for surface soil samples analyzed for total arsenic are summarized in Table 3. The results show total arsenic concentrations ranging between 1.6 mg/kg and 3.2 mg/kg for samples collected in the dry tail water pond (S17-A) and container plant storage area (S18-A through S21-A). The detected concentrations of arsenic cannot be directly compared to its residential CHHSL (0.07 mg/kg), as naturally occurring arsenic is often detected at concentrations exceeding this threshold. Because of this, the cancer risk associated with the detected concentrations at the Site was calculated and compared to the risk associated with the residential CHHSL and DTSC's 12 mg/kg threshold for naturally occurring arsenic in soil at sensitive land use properties.

WKA calculated the risk associated with arsenic using the following equation:

$$Risk_{soil} = \left(SF_o \times C_s \times 1.57 \times 10^{-6}\right) + \left(SF_o \times C_s \times 5.1 \times 10^{-6} \times ABS\right) \qquad \text{Eq. 1}$$

SF_o = Slope Factor $(mg/kg\text{-}day)^{-1}$
C_s = concentration of chemical in soil (mg/kg)
ABS = fraction of chemical absorbed from soil
(Preliminary Endangerment Assessment Guidance Manual, 2013)

This equation (Eq. 1) accounts for the incidental ingestion exposure and dermal exposure for a child and an adult. The equation does not include exposure from ingestion of homegrown foods produced on the Site soil. A SF_o of 1.5 $(mg/kg\text{-}day)^{-1}$ and an ABS of 0.03 for arsenic from the US EPA Regional Screening Level Summary Table was used for the risk calculation. A statistical analysis was conducted on the laboratory results for total arsenic (Table 3) to determine the maximum concentration of total arsenic detected at the Site and the Site 95%

upper confidence limit (UCL) for total arsenic. These values were applied to Eq. 1 along with the residential CHHSL for arsenic and DTSC's threshold for arsenic based on a sensitive land use to calculate the risks shown in the table below.

Risk Comparison - Arsenic

Arsenic Concentration Input Basis	C_s (mg/kg)	$Risk_{soil}$	Estimated Increased Cancer Occurrence (population 1,000,000)
Site Maximum	3.2	8.27×10^{-6}	9
Site 95% UCL	0.56	1.45×10^{-6}	2
CHHSL	0.07	1.81×10^{-7}	<1
DTSC Sensitive Land Use	12	3.1×10^{-5}	31

The table shows risk associated with the maximum detected concentration of total arsenic at the Site and the Site 95% UCL for arsenic fall below the risk associated with DTSC's sensitive land use threshold.

6.4 Organochlorine Pesticides

Table 4 provides a summary of surface soil analytical results for OCPs for samples collected on September 18, 2014. The results show a concentration of dieldrin (0.347 mg/kg) in the composite sample S3-S6-A. This concentration of dieldrin exceeds the CHHSL for a residential land use of 0.035 mg/kg. No other OCPs were detected at levels above laboratory reporting limits in other samples collected throughout the Site. These results indicated a need for additional sampling in the area of the residence and out building to determine if impacts to soil are distributed along the entire perimeter of each structure or if concentrations exceeding the CHHSL are limited to a smaller portion of the building perimeters.

A summary of soil analytical results for the discrete analysis of the residence and out building samples collected on September 30, 2014, are provided in Table 5. The results show no detections of OCPs above laboratory detection limits in samples collected from the east and west sides of the out building (S22-A and S23-A). Dieldrin was detected in samples S24-A (1.09 mg/kg), S25-A (0.267 mg/kg), and S27-A (0.334 mg/kg), collected from the south, west, and east sides of the residence, respectively. Alpha-chlordane and endrin (a chemical which has the same molecular formula and sequence of bonded atoms as dieldrin, but different orientation of atoms) were also detected within sample S27-A. However, the concentrations of alpha-chlordane and endrin fall below their respective CHHSLs of 0.43 mg/kg (technical

chlordane) and 21 mg/kg (endrin) for a residential land use. No other OCPs were detected above laboratory reporting limits along the perimeter of the residence. The detected concentrations of dieldrin from this sampling event exceed its residential CHHSL.

7.0 CONCLUSIONS

The laboratory analytical results indicate that there are no impacts to soil associated with the presence of the AST. The results show that the presence of the AST has not impacted Site soils in a way which would pose a risk to human health.

Concentrations of total copper and lead were detected in Site soils, but were at concentrations below their respective CHHSLs. Because the concentration of both total copper and lead fall below their respective residential CHHSLs, these chemicals pose no risk to human health based on a residential land use scenario.

The cancer risk from arsenic at the Site was calculated because concentrations of naturally occurring arsenic are often detected above the residential CHHSL. The risk associated with the maximum arsenic concentration detected at the Site (nine additional occurrences of cancer in an exposed population of 1,000,000) and the 95% UCL (two additional occurrences of cancer in an exposed population of 1,000,000) falls below the risk associated with DTSC's 12 mg/kg threshold for a sensitive land use (31 additional occurrences of cancer in an exposed population of 1,000,000). While the cancer risk from detected arsenic at the Site falls above the risk associated with the residential CHHSL for arsenic, the risk determined with the Site's maximum detected arsenic concentration and the 95% UCL falls below the no significant risk level established by the California Code of Regulations (Title 27. Article 7 § 25703) of 10 additional occurrences of cancer in an exposed population of 1,000,000. From this, WKA has determined that arsenic at the Site poses no significant risk to human health based on a residential land use.

WKA has identified the area of the residence as an area of concern due to the detected concentrations of dieldrin (0.267 mg/kg to 1.09 mg/kg) which exceed the residential CHHSL (0.035 mg/kg). WKA concludes that dieldrin at the location of the residence has impacted the soil in a way which would be adverse to human health for a residential land use. While dieldrin was not detected above laboratory reporting limits in sample S26-A, this location cannot be eliminated from the area of impact. If the application of dieldrin along perimeter of the residence occurred, it is likely to have been applied to all sides of the structure. OCPs were not detected at levels above laboratory detection limits at other areas analyzed at the Site. OCPs at

locations other than the residence pose no risk to human health based on a residential land use scenario.

8.0 RECOMMENDATIONS

WKA recommends mitigation of dieldrin impacted soil surrounding the residence through excavation. WKA has developed the following recommended actions based on the assumption that the residential structure is planned to be demolished. Prior to any demolition activities, the location of the residence shall be surveyed such that the footprint of the structure can be established for mitigation activities following the removal of the structure. It is recommended that the demolition of the residence be conducted in away which minimizes soil disturbance in the area of the residence and leaves the structural foundation intact. Excavation shall take place following the destruction of the residence and extend three feet from the perimeter of the residence footprint to a depth of one-foot bgs. Additional confirmation samples shall be collected from the excavation sidewalls and excavation floor. Additional excavation may be required if confirmation samples indicate a more widespread impact of dieldrin in soil. Soil removed during any subsequent excavation activities will need to be characterized for disposal and the excavation shall be backfilled with material determined to be suitable for a residential land use.

9.0 LIMITATIONS

The statements and results presented in this report are based upon the scope of work described above and on observations made on the dates of WKA's applicable fieldwork. The summary report was prepared in a manner consistent with the level of care and skill ordinarily exercised by Professional Geologists. Work was performed using a degree of skill consistent with that of competent environmental consulting firms performing similar work in the area. No recommendation is made as to the suitability of the property for any purpose. The result of the investigation does not preclude the possibility that materials currently, or in the future, defined as hazardous are present on the site. This report is applicable only to the investigated site and should not be used for any other site. No warranty is expressed or implied.

10.0 REFERENCES

Department of Toxic Substances Control. *Interim Guidance for the Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers*. N.p.: California Environmental Protection Agency. 9 Jun. 2006. Print.

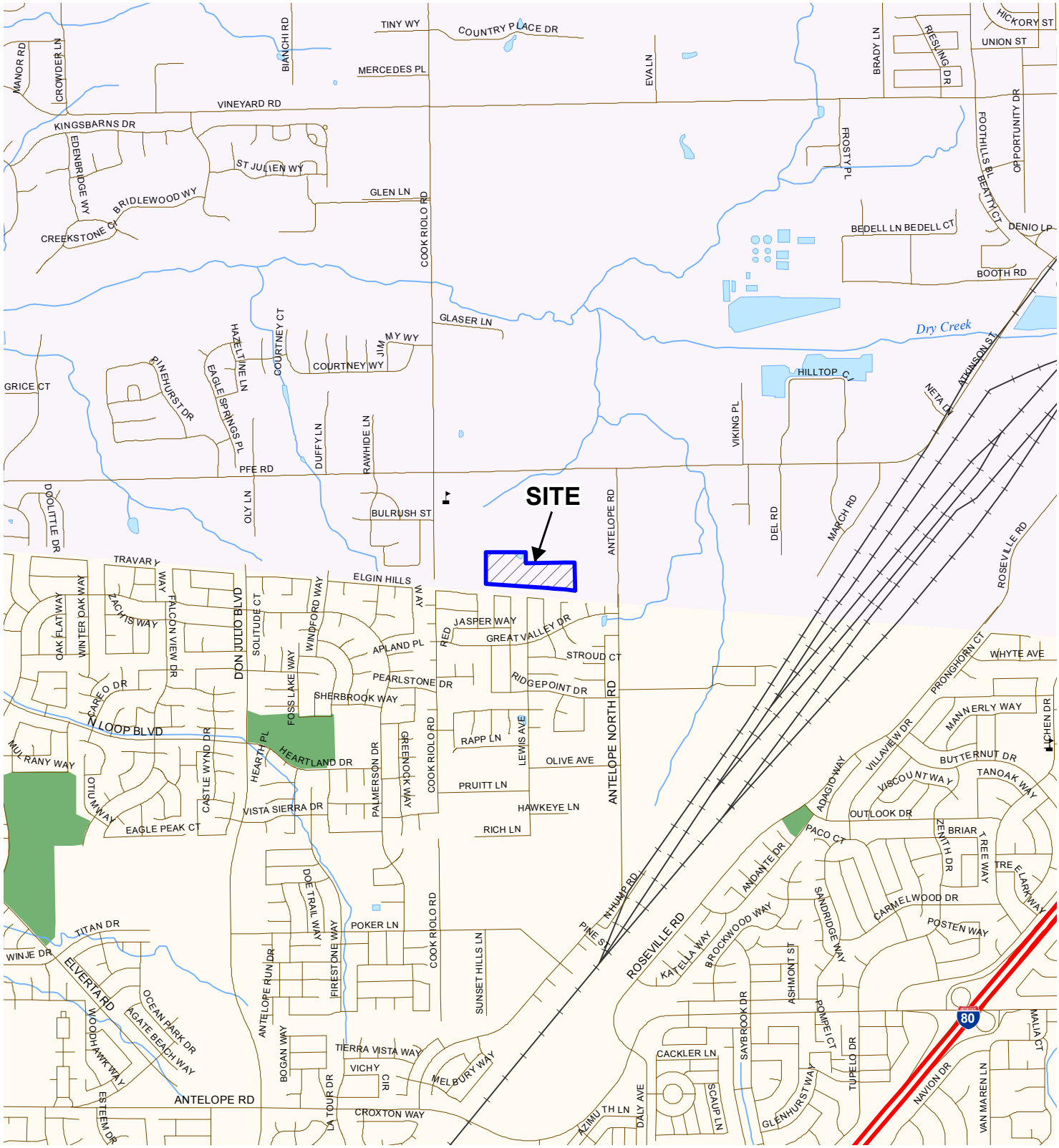
Office of Environmental Health Hazard Assessment. *Soil-Screening Numbers*. N.p.: California Environmental Protection Agency, 23 Sept. 2010. Web. 2 Oct. 2014.

Preliminary Endangerment Assessment Guidance Manual: A Guidance Manual for Evaluating Hazardous Substance Release Sites. Sacramento: State of California, Environmental Protection Agency, Department of Toxic Substances Control, 2013. Print.

Quantitative Risk Assessment, Title 27, California Code of Regulations. Article 7. No Significant Risk Levels, § 25703, 2013. Print.

United States Environmental Protection Agency. *Regional Screening Levels (Formerly PRGs).* N.p.: United States Environmental Protection Agency, May 2014. Web. 2 Oct. 2014.

FIGURES



Street data courtesy of Placer & Sacramento Counties.
Hydrography courtesy of the U.S. Geological Survey
acquired from the GIS Data Depot, December, 2007.
Projection: NAD 83, California State Plane, Zone II

N

0 1,000 2,000
Feet

WallaceKuhl & ASSOCIATES

VICINITY MAP

12-ACRE HAIGHT PROPERTY

Roseville, California

FIGURE	1
DRAWN BY	TJC
CHECKED BY	NSP
PROJECT MGR	DBN
DATE	9/14

WKA NO. 10217.03

Adapted from a Google Earth aerial photograph,
dated April 19, 2014.
Projection: NAD 83, California State Plane, Zone II

Legend

- Site boundary
- A - 1,000 gallon unleaded AST
- C - Container plant storage
- D - Dry tail water pond
- G - Garage
- O - Office
- Ob - Out building
- R - Residence
- S - Shed

N

0 75 150
Feet

WallaceKuhl & ASSOCIATES

AERIAL SITE MAP

12-ACRE HAIGHT PROPERTY

Roseville, California

FIGURE	2
DRAWN BY	TJC
CHECKED BY	NSP
PROJECT MGR	DBN
DATE	9/14
WKA NO. 10217.03	

Adapted from a Google Earth aerial photograph, dated April 19, 2014.
Projection: NAD 83, California State Plane, Zone II

Legend
Site boundary
Soil sample location

N

0 50 100
Feet

SAMPLE LOCATION MAP - WESTERN PORTION OF PROPERTY

12-ACRE HAIGHT PROPERTY

Roseville, California

FIGURE	3
DRAWN BY	TJC
CHECKED BY	NSP
PROJECT MGR	DBN
DATE	9/14
WKA NO. 10217.03	

Adapted from a Google Earth aerial photograph,
dated April 19, 2014.
Projection: NAD 83, California State Plane, Zone II

Legend

Site boundary

Soil sample location

N

0 50 100
Feet

SAMPLE LOCATION MAP - EASTERN PORTION OF PROPERTY

12-ACRE HAIGHT PROPERTY

Roseville, California

FIGURE	4
DRAWN BY	TJC
CHECKED BY	NSP
PROJECT MGR	DBN
DATE	9/14
WKA NO. 10217.03	

Adapted from a Google Earth aerial photograph,
dated April 19, 2014.
Projection: NAD 83, California State Plane, Zone II

Legend

● Soil sample location

N

0 10 20

Feet

WallaceKuhl & ASSOCIATES

SAMPLE LOCATION MAP - RESIDENCE

12-ACRE HAIGHT PROPERTY

Roseville, California

FIGURE	5
DRAWN BY	TJC
CHECKED BY	NSP
PROJECT MGR	DBN
DATE	10/14

WKA NO. 10217.03

TABLES

Table 1
Summary of Soil Analytical Results Petroleum Hydrocarbons
12-ACRE HAIGHT PROPERTY
WKA No. 10217.03

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8260													EPA Method 8270
				TPHg*	Ethanol	TBA	Methyl tert-Butyl Ether	Ethyl tert-Butyl Ether	Di-isopropyl ether	Tert-Amyl Methyl Ether	Benzene	Toluene	Ethylbenzene	m,p-Xylene	o-Xylene	Total Xylenes	Naphthalene
Concentrations reported in milligrams per kilogram (mg/kg)																	
Above Ground Storage Tank	S1-A	9/18/2014	0-6	<1.00	<0.4	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<2.0
	S2-A	9/18/2014	0-6	<1.00	<0.4	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<2.0

Notes:
< less than laboratory reporting limit(s)
*Gasoline range hydrocarbons

Table 2
Summary of Soil Analytical Results Total Copper and Lead
12-ACRE HAIGHT PROPERTY
WKA No. 10217.03

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 6010B	
				Total Copper	Total Lead
Concentrations reported in milligrams per kilogram (mg/kg)					
Residence	S3-A	9/18/2014	0-6	--	8.4
	S4-A	9/18/2014	0-6	--	7.8
	S5-A	9/18/2014	0-6	--	11.7
Out Building	S6-A	9/18/2014	0-6	--	11.3
Garage	S7-A	9/18/2014	0-6	--	17.3
	S8-A	9/18/2014	0-6	--	4.0
	S9-A	9/18/2014	0-6	--	3.4
	S10-A	9/18/2014	0-6	--	5.5
Office	S11-A	9/18/2014	0-6	--	28.8
	S12-A	9/18/2014	0-6	--	6.0
	S13-A	9/18/2014	0-6	--	6.4
	S14-A	9/18/2014	0-6	--	12.6
Shed	S15-A	9/18/2014	0-6	--	6
	S16-A	9/18/2014	0-6	--	13.9
Dry Tail Water Pond	S17-A	9/18/2014	0-6	7.9	2.9
Container Plant Storage Area	S18-A	9/18/2014	0-6	26.1	6.6
	S19-A	9/18/2014	0-6	31.7	6.7
	S20-A	9/18/2014	0-6	14	3.4
	S21-A	9/18/2014	0-6	9.9	4.2

Notes:
-- Not Analyzed

Table 3
Summary of Soil Analytical Results and Statistical Analysis Arsenic
12-ACRE HAIGHT PROPERTY
WKA No. 10217.03

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 6010B Total Arsenic
Concentrations reported in milligrams per kilogram (mg/kg)				
Dry Tail Water Pond	S17-A	9/18/2014	0-6	1.6
Container Plant Storage Area	S18-A	9/18/2014	0-6	1.7
	S19-A	9/18/2014	0-6	2.2
	S20-A	9/18/2014	0-6	3.2
	S21-A	9/18/2014	0-6	2.1
			Number	5
			mean	**2.16**
			MIN	1.6
			MAX	3.2
			SD	0.63
			95% UCL	**0.56**
			UCL	**2.7**

Notes:
SD - Standard Deviation
UCL - Upper Confidence Limit

Table 4
Summary of Soil Analytical Results Organochlorine Pesticides
12-ACRE HAIGHT PROPERTY
WKA No. 10217.03

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8081A									
				alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor epoxide	gamma-chlordane	endosulfan I	alpha-Chlordane
Concentrations reported in milligrams per kilogram (mg/kg)													
Residence/Out Building	S3-S6-A	9/18/2014	0-6	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Garage	S7-S10-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Office	S11-S14-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Shed	S15-S16-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Dry Tail Water Pond	S17-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Container Plant Storage Area	S18-A	9/18/2014	0-6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
	S19-A	9/18/2014	0-6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
	S20-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S21-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8081A										
				4,4'-DDE	Dieldrin	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan sulfate	4,4'-DDT	Endrin Ketone	Methyoxychlor	Toxaphene
Concentrations reported in milligrams per kilogram (mg/kg)														
Residence/Out Building	S3-S6-A	9/18/2014	0-6	<0.040	0.347	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.400
Garage	S7-S10-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050
Office	S11-S14-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050
Shed	S15-S16-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050
Dry Tail Water Pond	S17-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050
Container Plant Storage Area	S18-A	9/18/2014	0-6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.250
	S19-A	9/18/2014	0-6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.250
	S20-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050
	S21-A	9/18/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.050

Notes:
< less than laboratory reporting limit(s)

Table 5
Summary of Soil Analytical Results Organochlorine Pesticides (Additional Residence Area Samples)
12-ACRE HAIGHT PROPERTY
WKA No. 10217.03

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8081A									
				alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor epoxide	gamma-chlordane	Endosulfan I	alpha-Chlordane
Concentrations reported in milligrams per kilogram (mg/kg)													
Out Building	S22-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S23-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Residence	S24-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.250
	S25-A	9/30/2014	0-6	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
	S26-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S27-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.04

	Sample ID	Sample Date	Sample Depth (in)	EPA Method 8081A									
				4,4'-DDE	Dieldrin	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan sulfate	4,4'-DDT	Endrin Ketone	Methyoxychlor
Concentrations reported in milligrams per kilogram (mg/kg)													
Out Building	S22-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S23-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Residence	S24-A	9/30/2014	0-6	<0.005	1.09	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S25-A	9/30/2014	0-6	<0.250	0.267	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
	S26-A	9/30/2014	0-6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	S27-A	9/30/2014	0-6	<0.005	0.394	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Notes:
< less than laboratory reporting limit(s)

APPENDIX A

Laboratory Analytical Reports
and
Chain-of-Custody Documentation

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449

ELAP Certificate No. : 2119

01 October 2014

Nelson Pi

Wallace Kuhl and Associates

3050 Industrial Blvd.

West Sacramento, CA 95691

RE: 12-Acre Haight Property

Work order number:1409188

Enclosed are the results of analyses for samples received by the laboratory on 09/18/14 16:33. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

_____

John Somers, Lab Director

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S1-A	1409188-01	Soil	09/18/14 12:58	09/18/14 16:33
S2-A	1409188-02	Soil	09/18/14 13:50	09/18/14 16:33
S3-A	1409188-03	Soil	09/18/14 09:40	09/18/14 16:33
S4-A	1409188-04	Soil	09/18/14 09:55	09/18/14 16:33
S5-A	1409188-05	Soil	09/18/14 10:15	09/18/14 16:33
S6-A	1409188-06	Soil	09/18/14 11:40	09/18/14 16:33
S3-S6-A	1409188-07	Soil	09/18/14 11:40	09/18/14 16:33
S7-A	1409188-08	Soil	09/18/14 10:02	09/18/14 16:33
S8-A	1409188-09	Soil	09/18/14 11:07	09/18/14 16:33
S9-A	1409188-10	Soil	09/18/14 11:15	09/18/14 16:33
S10-A	1409188-11	Soil	09/18/14 10:52	09/18/14 16:33
S7-S10-A	1409188-12	Soil	09/18/14 11:15	09/18/14 16:33
S11-A	1409188-13	Soil	09/18/14 12:39	09/18/14 16:33
S12-A	1409188-14	Soil	09/18/14 13:00	09/18/14 16:33
S13-A	1409188-15	Soil	09/18/14 13:34	09/18/14 16:33
S14-A	1409188-16	Soil	09/18/14 13:50	09/18/14 16:33
S11-S14-A	1409188-17	Soil	09/18/14 13:50	09/18/14 16:33
S15-A	1409188-18	Soil	09/18/14 11:53	09/18/14 16:33
S16-A	1409188-19	Soil	09/18/14 12:07	09/18/14 16:33
S15-S16-A	1409188-20	Soil	09/18/14 12:07	09/18/14 16:33
S17-A	1409188-21	Soil	09/18/14 09:07	09/18/14 16:33
S18-A	1409188-22	Soil	09/18/14 14:41	09/18/14 16:33
S19-A	1409188-23	Soil	09/18/14 15:03	09/18/14 16:33
S20-A	1409188-24	Soil	09/18/14 14:40	09/18/14 16:33
S21-A	1409188-25	Soil	09/18/14 14:59	09/18/14 16:33

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

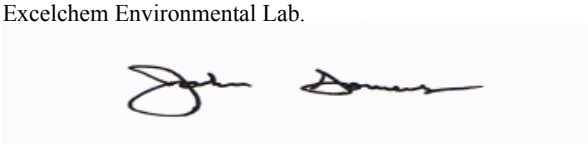
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S1-A
1409188-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Volatile Organic Compounds by GC/MS								
Gasoline Range Hydrocarbons	ND	1.00	mg/kg	AXI0222	09/22/14	09/23/14	EPA 8260B	
Ethanol	ND	0.400	"	"	"	"	"	
TBA	ND	0.050	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.005	"	"	"	"	"	
Di-isopropyl ether	ND	0.005	"	"	"	"	"	
Ethyl tert-Butyl Ether	ND	0.005	"	"	"	"	"	
Tert-Amyl Methyl Ether	ND	0.005	"	"	"	"	"	
Benzene	ND	0.005	"	"	"	"	"	
Toluene	ND	0.005	"	"	"	"	"	
Ethylbenzene	ND	0.005	"	"	"	"	"	
m,p-Xylene	ND	0.010	"	"	"	"	"	
o-Xylene	ND	0.005	"	"	"	"	"	
Xylenes, total	ND	0.010	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*107 %*	% Recovery Limits		*70-130*			"	
Surrogate: Toluene-d8	*95.1 %*	% Recovery Limits		*70-130*			"	
Surrogate: 4-Bromofluorobenzene	*106 %*	% Recovery Limits		*70-130*			"	
SemiVolatile Organic Compounds by GC/MS								
Naphthalene	ND	0.5	mg/kg	AXI0211	09/22/14	09/22/14	EPA 8270C	
Surrogate: 2-Fluorophenol	*58.3 %*	% Recovery Limits		*10-125*			"	
Surrogate: Phenol-d6	*68.3 %*	% Recovery Limits		*10-125*			"	
Surrogate: Nitrobenzene-d5	*61.3 %*	% Recovery Limits		*10-125*			"	
Surrogate: 2-Fluorobiphenyl	*65.9 %*	% Recovery Limits		*10-125*			"	
Surrogate: 2,4,6-Tribromophenol	*67.1 %*	% Recovery Limits		*10-125*			"	
Surrogate: Terphenyl-dl4	*66.8 %*	% Recovery Limits		*10-125*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

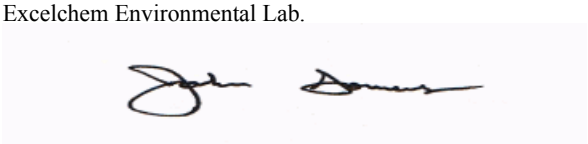
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S2-A
1409188-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Volatile Organic Compounds by GC/MS								
Gasoline Range Hydrocarbons	ND	1.00	mg/kg	AXI0222	09/22/14	09/23/14	EPA 8260B	Z-01
Ethanol	ND	0.400	"	"	"	"	"	Z-01
TBA	ND	0.050	"	"	"	"	"	Z-01
Methyl tert-Butyl Ether	ND	0.005	"	"	"	"	"	Z-01
Ethyl tert-Butyl Ether	ND	0.005	"	"	"	"	"	Z-01
Di-isopropyl ether	ND	0.005	"	"	"	"	"	Z-01
Tert-Amyl Methyl Ether	ND	0.005	"	"	"	"	"	Z-01
Benzene	ND	0.005	"	"	"	"	"	Z-01
Toluene	ND	0.005	"	"	"	"	"	Z-01
Ethylbenzene	ND	0.005	"	"	"	"	"	Z-01
m,p-Xylene	ND	0.010	"	"	"	"	"	Z-01
o-Xylene	ND	0.005	"	"	"	"	"	Z-01
Xylenes, total	ND	0.010	"	"	"	"	"	Z-01
Surrogate: Dibromofluoromethane	*113 %*	% Recovery Limits		*70-130*			*"*	*Z-01*
Surrogate: Toluene-d8	*91.9 %*	% Recovery Limits		*70-130*			*"*	*Z-01*
Surrogate: 4-Bromofluorobenzene	*117 %*	% Recovery Limits		*70-130*			*"*	*Z-01*
SemiVolatile Organic Compounds by GC/MS								
Naphthalene	ND	2.0	mg/kg	AXI0211	09/22/14	09/22/14	EPA 8270C	
Surrogate: 2-Fluorophenol	*46.0 %*	% Recovery Limits		*10-125*			*"*	
Surrogate: Phenol-d6	*62.0 %*	% Recovery Limits		*10-125*			*"*	
Surrogate: Nitrobenzene-d5	*48.4 %*	% Recovery Limits		*10-125*			*"*	
Surrogate: 2-Fluorobiphenyl	*60.0 %*	% Recovery Limits		*10-125*			*"*	
Surrogate: 2,4,6-Tribromophenol	*38.8 %*	% Recovery Limits		*10-125*			*"*	
Surrogate: Terphenyl-dl4	*44.4 %*	% Recovery Limits		*10-125*			*"*	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

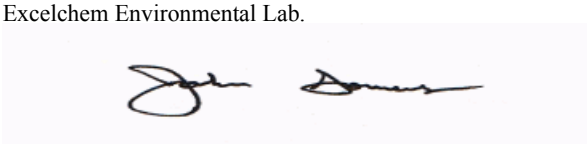
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S3-A
1409188-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**8.4**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

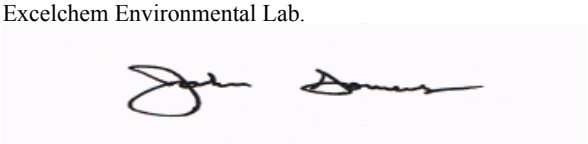
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S4-A
1409188-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**7.8**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

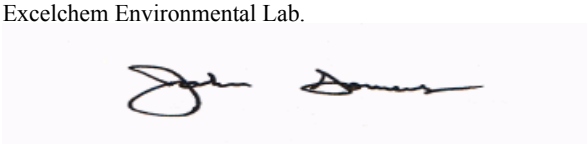
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S5-A
1409188-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**11.7**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

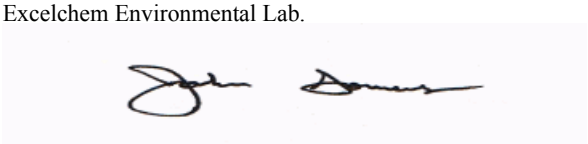
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S6-A
1409188-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**11.3**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

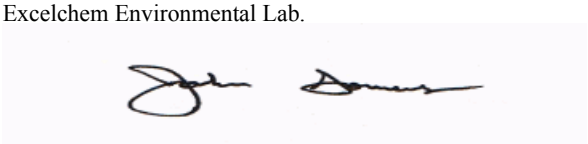
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S3-S6-A
1409188-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.040	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.040	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.040	"	"	"	"	"	
delta-BHC	ND	0.040	"	"	"	"	"	
Heptachlor	ND	0.040	"	"	"	"	"	
Aldrin	ND	0.040	"	"	"	"	"	
Heptachlor epoxide	ND	0.040	"	"	"	"	"	
gamma-Chlordane	ND	0.040	"	"	"	"	"	
Endosulfan I	ND	0.040	"	"	"	"	"	
alpha-Chlordane	ND	0.040	"	"	"	"	"	
4,4'-DDE	ND	0.040	"	"	"	"	"	
Dieldrin	**0.347**	0.040	"	"	"	"	"	
Endrin	ND	0.040	"	"	"	"	"	
Endosulfan II	ND	0.040	"	"	"	"	"	
4,4'-DDD	ND	0.040	"	"	"	"	"	
Endrin aldehyde	ND	0.040	"	"	"	"	"	
Endosulfan sulfate	ND	0.040	"	"	"	"	"	
4,4'-DDT	ND	0.040	"	"	"	"	"	
Endrin Ketone	ND	0.040	"	"	"	"	"	
Methoxychlor	ND	0.040	"	"	"	"	"	
Toxaphene	ND	0.400	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*151 %*	% Recovery Limits		*50-150*			*"*	*S-06*
Surrogate: Tetrachloro-meta-xylene	*131 %*	% Recovery Limits		*50-150*			*"*	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

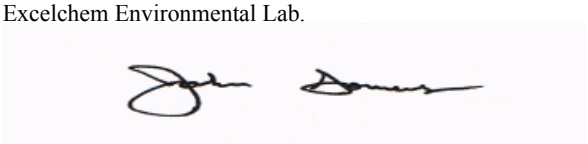
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S7-A
1409188-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**17.3**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

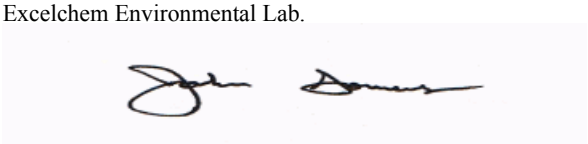
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S8-A

1409188-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**4.0**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

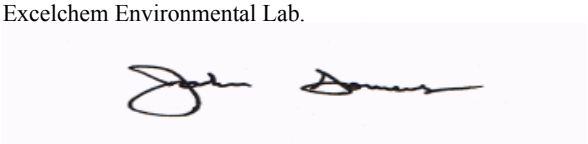
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S9-A
1409188-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**3.4**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

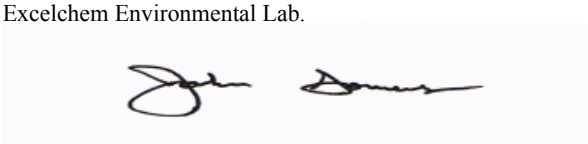
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S10-A

1409188-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**5.5**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

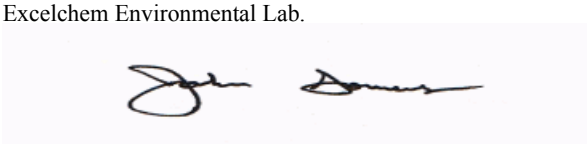
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S7-S10-A
1409188-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/24/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*93.9 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*93.1 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

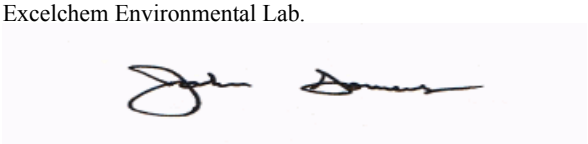
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S11-A

1409188-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**28.8**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

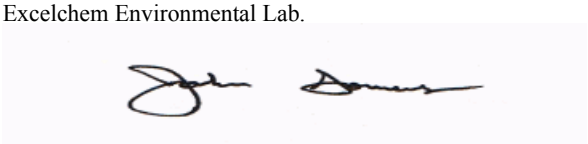
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S12-A
1409188-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**6.0**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S13-A
1409188-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**6.4**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

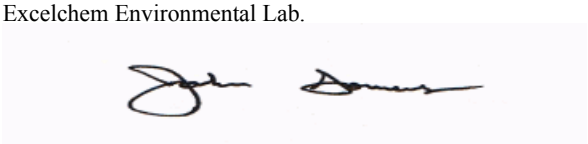
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S14-A

1409188-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**12.6**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

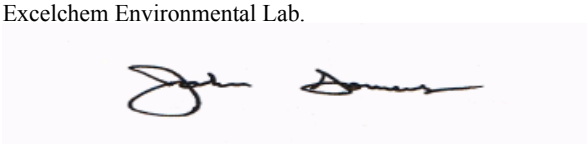
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S11-S14-A
1409188-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/24/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*81.3 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*92.7 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

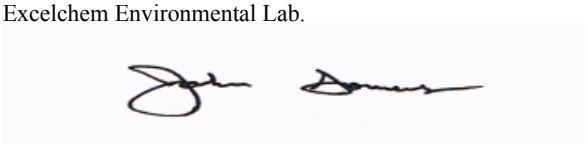
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S15-A

1409188-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**6.0**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

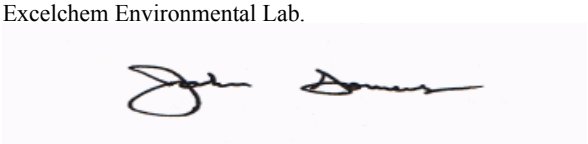
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S16-A

1409188-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Total Recoverable Metals								
Lead	**13.9**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

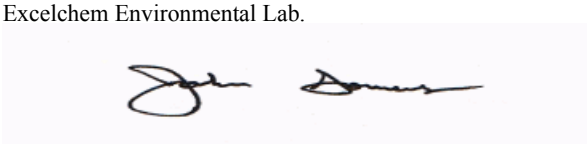
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S15-S16-A
1409188-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/24/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*88.7 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*98.6 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

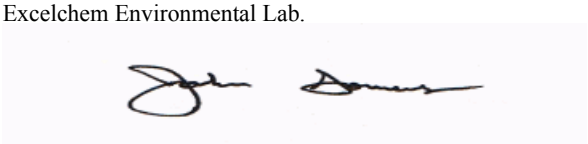
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S17-A
1409188-21 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*74.0 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*94.4 %*	% Recovery Limits		*50-150*			"	
Total Recoverable Metals								
Arsenic	**1.6**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	
Copper	**7.9**	2.0	"	"	"	"	"	
Lead	**2.9**	1.0	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

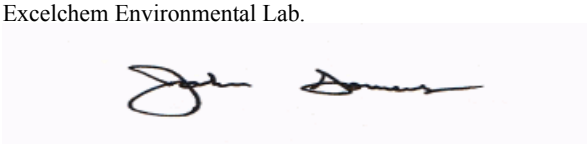
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S18-A

1409188-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.025	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.025	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.025	"	"	"	"	"	
delta-BHC	ND	0.025	"	"	"	"	"	
Heptachlor	ND	0.025	"	"	"	"	"	
Aldrin	ND	0.025	"	"	"	"	"	
Heptachlor epoxide	ND	0.025	"	"	"	"	"	
gamma-Chlordane	ND	0.025	"	"	"	"	"	
Endosulfan I	ND	0.025	"	"	"	"	"	
alpha-Chlordane	ND	0.025	"	"	"	"	"	
4,4'-DDE	ND	0.025	"	"	"	"	"	
Dieldrin	ND	0.025	"	"	"	"	"	
Endrin	ND	0.025	"	"	"	"	"	
Endosulfan II	ND	0.025	"	"	"	"	"	
4,4'-DDD	ND	0.025	"	"	"	"	"	
Endrin aldehyde	ND	0.025	"	"	"	"	"	
Endosulfan sulfate	ND	0.025	"	"	"	"	"	
4,4'-DDT	ND	0.025	"	"	"	"	"	
Endrin Ketone	ND	0.025	"	"	"	"	"	
Methoxychlor	ND	0.025	"	"	"	"	"	
Toxaphene	ND	0.250	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*98.4 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*111 %*	% Recovery Limits		*50-150*			"	
Total Recoverable Metals								
Arsenic	**1.7**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	
Copper	**26.1**	2.0	"	"	"	"	"	
Lead	**6.6**	1.0	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

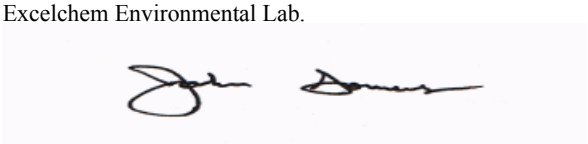
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S19-A
1409188-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.025	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.025	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.025	"	"	"	"	"	
delta-BHC	ND	0.025	"	"	"	"	"	
Heptachlor	ND	0.025	"	"	"	"	"	
Aldrin	ND	0.025	"	"	"	"	"	
Heptachlor epoxide	ND	0.025	"	"	"	"	"	
gamma-Chlordane	ND	0.025	"	"	"	"	"	
Endosulfan I	ND	0.025	"	"	"	"	"	
alpha-Chlordane	ND	0.025	"	"	"	"	"	
4,4'-DDE	ND	0.025	"	"	"	"	"	
Dieldrin	ND	0.025	"	"	"	"	"	
Endrin	ND	0.025	"	"	"	"	"	
Endosulfan II	ND	0.025	"	"	"	"	"	
4,4'-DDD	ND	0.025	"	"	"	"	"	
Endrin aldehyde	ND	0.025	"	"	"	"	"	
Endosulfan sulfate	ND	0.025	"	"	"	"	"	
4,4'-DDT	ND	0.025	"	"	"	"	"	
Endrin Ketone	ND	0.025	"	"	"	"	"	
Methoxychlor	ND	0.025	"	"	"	"	"	
Toxaphene	ND	0.250	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*99.9 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*113 %*	% Recovery Limits		*50-150*			"	
Total Recoverable Metals								
Arsenic	**2.2**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	
Copper	**31.7**	2.0	"	"	"	"	"	
Lead	**6.7**	1.0	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

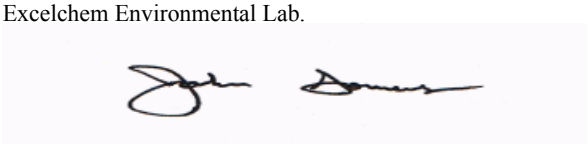
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S20-A
1409188-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*77.9 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*101 %*	% Recovery Limits		*50-150*			"	
Total Recoverable Metals								
Arsenic	**3.2**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	
Copper	**14.0**	2.0	"	"	"	"	"	
Lead	**3.4**	1.0	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

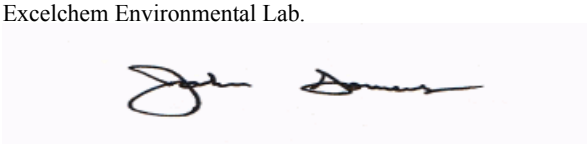
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

S21-A
1409188-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXI0224	09/23/14	09/25/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*79.9 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*102 %*	% Recovery Limits		*50-150*			"	
Total Recoverable Metals								
Arsenic	**2.1**	1.0	mg/kg	AXI0245	09/24/14	09/25/14	EPA 6010B	
Copper	**9.9**	2.0	"	"	"	"	"	
Lead	**4.2**	1.0	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0222 - EPA 8260B										
Blank (AXI0222-BLK1)				Prepared & Analyzed: 09/22/14						
Surrogate: Dibromofluoromethane	*56.7*		*ug/kg*	*50.0*		*113*	*70-130*			
Surrogate: Toluene-d8	*50.9*		*"*	*50.0*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*47.8*		*"*	*50.0*		*95.5*	*70-130*			
Gasoline Range Hydrocarbons	ND	1.00	mg/kg							
Ethanol	ND	0.400	"							
TBA	ND	0.050	"							
Methyl tert-Butyl Ether	ND	0.005	"							
Di-isopropyl ether	ND	0.005	"							
Ethyl tert-Butyl Ether	ND	0.005	"							
Tert-Amyl Methyl Ether	ND	0.005	"							
Benzene	ND	0.005	"							
Toluene	ND	0.005	"							
Ethylbenzene	ND	0.005	"							
m,p-Xylene	ND	0.010	"							
o-Xylene	ND	0.005	"							
Xylenes, total	ND	0.010	"							
1,1-Dichloroethene	ND	0.005	"							
Chlorobenzene	ND	0.005	"							
Trichloroethene	ND	0.005	"							
LCS (AXI0222-BS1)				Prepared & Analyzed: 09/22/14						
Surrogate: Dibromofluoromethane	*50.7*		*ug/kg*	*50.0*		*101*	*70-130*			
Surrogate: Toluene-d8	*48.8*		*"*	*50.0*		*97.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*51.2*		*"*	*50.0*		*102*	*70-130*			
Benzene	0.020	0.005	mg/kg	0.0200		98.0	80-120			
Toluene	0.020	0.005	"	0.0200		101	80-120			
1,1-Dichloroethene	0.021	0.005	"	0.0200		103	80-120			
Chlorobenzene	0.020	0.005	"	0.0200		98.8	80-120			
Trichloroethene	0.020	0.005	"	0.0200		98.1	80-120			

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

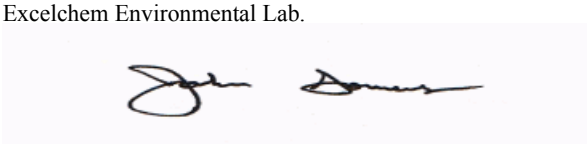
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0222 - EPA 8260B										
LCS Dup (AXI0222-BSD1)				Prepared & Analyzed: 09/22/14						
Surrogate: Dibromofluoromethane	*47.3*		*ug/kg*	*50.0*		*94.7*	*70-130*			
Surrogate: Toluene-d8	*51.0*		*"*	*50.0*		*102*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*52.2*		*"*	*50.0*		*104*	*70-130*			
Benzene	0.020	0.005	mg/kg	0.0200		101	80-120	3.31	15	
Toluene	0.021	0.005	"	0.0200		103	80-120	2.01	15	
1,1-Dichloroethene	0.020	0.005	"	0.0200		101	80-120	2.41	15	
Chlorobenzene	0.020	0.005	"	0.0200		101	80-120	2.25	15	
Trichloroethene	0.021	0.005	"	0.0200		105	80-120	6.32	15	
Matrix Spike (AXI0222-MS1)		**Source: 1409186-01**		Prepared: 09/22/14 Analyzed: 09/23/14						
Surrogate: Dibromofluoromethane	*58.7*		*ug/kg*	*50.0*		*117*	*70-130*			
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*97.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*52.9*		*"*	*50.0*		*106*	*70-130*			
Benzene	0.019	0.005	mg/kg	0.0200	ND	96.4	80-120			
Toluene	0.018	0.005	"	0.0200	ND	89.7	80-120			
1,1-Dichloroethene	0.022	0.005	"	0.0200	ND	111	80-120			
Chlorobenzene	0.018	0.005	"	0.0200	ND	92.3	80-120			
Trichloroethene	0.018	0.005	"	0.0200	ND	92.3	80-120			
Matrix Spike Dup (AXI0222-MSD1)		**Source: 1409186-01**		Prepared: 09/22/14 Analyzed: 09/23/14						
Surrogate: Dibromofluoromethane	*57.3*		*ug/kg*	*50.0*		*115*	*70-130*			
Surrogate: Toluene-d8	*47.2*		*"*	*50.0*		*94.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*61.4*		*"*	*50.0*		*123*	*70-130*			
Benzene	0.017	0.005	mg/kg	0.0200	ND	84.7	80-120	12.9	15	
Toluene	0.014	0.005	"	0.0200	ND	68.0	80-120	27.5	15	Z-02
1,1-Dichloroethene	0.018	0.005	"	0.0200	ND	91.9	80-120	18.5	15	QR-03
Chlorobenzene	0.012	0.005	"	0.0200	ND	62.3	80-120	38.8	15	Z-02
Trichloroethene	0.013	0.005	"	0.0200	ND	67.5	80-120	31.1	15	Z-02

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0224 - EPA 8081A										
Blank (AXI0224-BLK1)				Prepared & Analyzed: 09/23/14						
Surrogate: Decachlorobiphenyl	*0.0187*		*mg/kg*	*0.0200*		*93.7*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0177*		*"*	*0.0200*		*88.3*	*50-150*			
alpha-BHC	ND	0.005	"							
beta-BHC	ND	0.005	"							
gamma-BHC (Lindane)	ND	0.005	"							
delta-BHC	ND	0.005	"							
Heptachlor	ND	0.005	"							
Aldrin	ND	0.005	"							
Heptachlor epoxide	ND	0.005	"							
gamma-Chlordane	ND	0.005	"							
Endosulfan I	ND	0.005	"							
alpha-Chlordane	ND	0.005	"							
4,4'-DDE	ND	0.005	"							
Dieldrin	ND	0.005	"							
Endrin	ND	0.005	"							
Endosulfan II	ND	0.005	"							
4,4'-DDD	ND	0.005	"							
Endrin aldehyde	ND	0.005	"							
Endosulfan sulfate	ND	0.005	"							
4,4'-DDT	ND	0.005	"							
Endrin Ketone	ND	0.005	"							
Methoxychlor	ND	0.005	"							
LCS (AXI0224-BS1)				Prepared & Analyzed: 09/23/14						
Surrogate: Decachlorobiphenyl	*0.0187*		*mg/kg*	*0.0200*		*93.5*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0176*		*"*	*0.0200*		*87.8*	*50-150*			
gamma-BHC (Lindane)	0.016	0.005	"	0.0200		78.2	50-150			
Heptachlor	0.010	0.005	"	0.0200		51.3	50-150			
Aldrin	0.016	0.005	"	0.0200		78.2	50-150			
Dieldrin	0.036	0.005	"	0.0500		72.5	50-150			
Endrin	0.038	0.005	"	0.0500		75.4	50-150			
4,4'-DDT	0.026	0.005	"	0.0500		52.8	50-150			

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0224 - EPA 8081A										
LCS Dup (AXI0224-BSD1)				Prepared & Analyzed: 09/23/14						
Surrogate: Decachlorobiphenyl	*0.0192*		*mg/kg*	*0.0200*		*95.9*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0188*		*"*	*0.0200*		*94.2*	*50-150*			
gamma-BHC (Lindane)	0.017	0.005	"	0.0200		83.8	50-150	6.93	25	
Heptachlor	0.010	0.005	"	0.0200		50.2	50-150	2.18	25	
Aldrin	0.017	0.005	"	0.0200		82.7	50-150	5.58	25	
Dieldrin	0.037	0.005	"	0.0500		74.5	50-150	2.68	25	
Endrin	0.039	0.005	"	0.0500		77.6	50-150	2.82	25	
4,4'-DDT	0.028	0.005	"	0.0500		55.3	50-150	4.54	25	
Matrix Spike (AXI0224-MS1)		**Source: 1409205-02**		Prepared & Analyzed: 09/23/14						
Surrogate: Decachlorobiphenyl	*0.0181*		*mg/kg*	*0.0200*		*90.7*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0175*		*"*	*0.0200*		*87.5*	*50-150*			
gamma-BHC (Lindane)	0.015	0.005	"	0.0200	ND	73.0	50-150			
Heptachlor	0.010	0.005	"	0.0200	ND	49.7	50-150			Z-01a
Aldrin	0.015	0.005	"	0.0200	ND	77.4	50-150			
Dieldrin	0.035	0.005	"	0.0500	ND	70.7	50-150			
Endrin	0.038	0.005	"	0.0500	ND	76.2	50-150			
4,4'-DDT	0.030	0.005	"	0.0500	0.003	52.6	50-150			
Matrix Spike Dup (AXI0224-MSD1)		**Source: 1409205-02**		Prepared & Analyzed: 09/23/14						
Surrogate: Decachlorobiphenyl	*0.0174*		*mg/kg*	*0.0200*		*87.1*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0168*		*"*	*0.0200*		*83.9*	*50-150*			
gamma-BHC (Lindane)	0.016	0.005	"	0.0200	ND	80.4	50-150	9.65	25	
Heptachlor	0.010	0.005	"	0.0200	ND	51.5	50-150	3.39	25	
Aldrin	0.015	0.005	"	0.0200	ND	76.3	50-150	1.41	25	
Dieldrin	0.035	0.005	"	0.0500	ND	69.3	50-150	1.94	25	
Endrin	0.038	0.005	"	0.0500	ND	75.5	50-150	0.922	25	
4,4'-DDT	0.029	0.005	"	0.0500	0.003	50.6	50-150	3.28	25	

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

SemiVolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0211 - EPA 8270C										
Blank (AXI0211-BLK1)				Prepared: 09/22/14 Analyzed: 09/23/14						
Surrogate: 2-Fluorophenol	*1.34*		*mg/kg*	*1.67*		*80.7*	*10-125*			
Surrogate: Phenol-d6	*1.50*		*"*	*1.67*		*89.8*	*10-125*			
Surrogate: Nitrobenzene-d5	*1.57*		*"*	*1.67*		*94.1*	*10-125*			
Surrogate: 2-Fluorobiphenyl	*1.38*		*"*	*1.67*		*82.8*	*10-125*			
Surrogate: 2,4,6-Tribromophenol	*1.49*		*"*	*1.67*		*89.5*	*10-125*			
Surrogate: Terphenyl-dl4	*1.78*		*"*	*1.67*		*107*	*10-125*			
Naphthalene	ND	0.1	"							
LCS (AXI0211-BS1)				Prepared & Analyzed: 09/22/14						
Surrogate: 2-Fluorophenol	*1.00*		*mg/kg*	*1.67*		*60.1*	*0-150*			
Surrogate: Phenol-d6	*1.36*		*"*	*1.67*		*81.5*	*0-150*			
Surrogate: Nitrobenzene-d5	*1.26*		*"*	*1.67*		*75.7*	*0-150*			
Surrogate: 2-Fluorobiphenyl	*1.27*		*"*	*1.67*		*76.0*	*0-150*			
Surrogate: 2,4,6-Tribromophenol	*1.79*		*"*	*1.67*		*107*	*0-150*			
Surrogate: Terphenyl-dl4	*1.66*		*"*	*1.67*		*99.3*	*0-150*			
Phenol	1.1	0.1	"	1.67		64.5	33.7-150			
2-Chlorophenol	1.1	0.1	"	1.67		68.7	39-150			
1,4-Dichlorobenzene	1.0	0.1	"	1.67		62.1	27.1-150			
N-Nitrosodi-n-propylamine	1.3	0.1	"	1.67		80.1	9.81-150			
1,2,4-Trichlorobenzene	1.1	0.1	"	1.67		67.9	31.4-150			
4-Chloro-3-methylphenol	1.3	0.2	"	1.67		76.8	30.5-150			
Acenaphthene	1.4	0.1	"	1.67		84.8	47.7-150			
2,4-Dinitrotoluene	1.4	0.1	"	1.67		84.5	20.5-150			
4-Nitrophenol	1.6	0.2	"	1.67		97.4	9.81-150			
Pentachlorophenol	2.0	1.0	"	1.67		120	2.29-150			
Pyrene	1.5	0.1	"	1.67		89.9	13.3-150			
3-Methylphenol & 4-Methylphenol	2.3	2.0	"	3.33		70.1	0-150			

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

SemiVolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0211 - EPA 8270C										
LCS Dup (AXI0211-BSD1)				Prepared & Analyzed: 09/22/14						
Surrogate: 2-Fluorophenol	*1.02*		*mg/kg*	*1.67*		*61.1*	*0-150*			
Surrogate: Phenol-d6	*1.30*		*"*	*1.67*		*78.1*	*0-150*			
Surrogate: Nitrobenzene-d5	*1.23*		*"*	*1.67*		*73.6*	*0-150*			
Surrogate: 2-Fluorobiphenyl	*1.34*		*"*	*1.67*		*80.4*	*0-150*			
Surrogate: 2,4,6-Tribromophenol	*1.86*		*"*	*1.67*		*111*	*0-150*			
Surrogate: Terphenyl-dl4	*1.72*		*"*	*1.67*		*103*	*0-150*			
Phenol	0.9	0.1	"	1.67		51.1	33.7-150	23.1	20	QR-02
2-Chlorophenol	0.9	0.1	"	1.67		56.7	39-150	19.1	20	
1,4-Dichlorobenzene	0.8	0.1	"	1.67		50.8	27.1-150	20.0	20	
N-Nitrosodi-n-propylamine	1.1	0.1	"	1.67		64.6	9.81-150	21.5	20	QR-02
1,2,4-Trichlorobenzene	0.9	0.1	"	1.67		55.7	31.4-150	19.7	20	
4-Chloro-3-methylphenol	1.0	0.2	"	1.67		61.1	30.5-150	22.8	20	QR-02
Acenaphthene	1.2	0.1	"	1.67		72.9	47.7-150	15.1	20	
2,4-Dinitrotoluene	1.2	0.1	"	1.67		72.3	20.5-150	15.6	20	
4-Nitrophenol	1.4	0.2	"	1.67		83.9	9.81-150	15.0	40	
Pentachlorophenol	1.6	1.0	"	1.67		98.7	2.29-150	19.7	30	
Pyrene	1.3	0.1	"	1.67		80.5	13.3-150	11.0	20	
3-Methylphenol & 4-Methylphenol	1.9	2.0	"	3.33		57.3	0-150	20.1	40	
Matrix Spike (AXI0211-MS1)		**Source: 1409193-01**		Prepared & Analyzed: 09/22/14						
Surrogate: 2-Fluorophenol	*0.00*		*mg/kg*	*1.67*			*0-150*			
Surrogate: Phenol-d6	*1.23*		*"*	*1.67*		*74.0*	*0-150*			
Surrogate: Nitrobenzene-d5	*1.01*		*"*	*1.67*		*60.4*	*0-150*			
Surrogate: 2-Fluorobiphenyl	*1.38*		*"*	*1.67*		*82.8*	*0-150*			
Surrogate: 2,4,6-Tribromophenol	*1.18*		*"*	*1.67*		*70.8*	*0-150*			
Surrogate: Terphenyl-dl4	*1.71*		*"*	*1.67*		*103*	*0-150*			
Phenol	1.0	2.0	"	1.67	ND	59.6	0-150			
2-Chlorophenol	1.1	2.0	"	1.67	ND	64.0	0-150			
1,4-Dichlorobenzene	1.2	2.0	"	1.67	ND	69.2	0-150			
N-Nitrosodi-n-propylamine	1.2	2.0	"	1.67	ND	70.4	0-150			
1,2,4-Trichlorobenzene	1.1	2.0	"	1.67	ND	68.4	0-150			
4-Chloro-3-methylphenol	1.2	5.0	"	1.67	ND	71.6	0-150			
Acenaphthene	1.5	2.0	"	1.67	ND	88.0	0-150			
2,4-Dinitrotoluene	1.0	2.0	"	1.67	ND	59.2	0-150			
4-Nitrophenol	ND	5.0	"	1.67	ND		0-150			
Pentachlorophenol	0.3	20.0	"	1.67	ND	16.8	0-150			
Pyrene	1.7	2.0	"	1.67	ND	102	0-150			
3-Methylphenol & 4-Methylphenol	ND	40.0	"	3.33	ND		0-150			

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

SemiVolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0211 - EPA 8270C										
Matrix Spike Dup (AXI0211-MSD1)		**Source: 1409193-01**		Prepared & Analyzed: 09/22/14						
Surrogate: 2-Fluorophenol	*2.12*		*mg/kg*	*1.67*		*127*	*0-150*			
Surrogate: Phenol-d6	*2.69*		*"*	*1.67*		*161*	*0-150*			*S-06*
Surrogate: Nitrobenzene-d5	*2.27*		*"*	*1.67*		*136*	*0-150*			
Surrogate: 2-Fluorobiphenyl	*2.69*		*"*	*1.67*		*161*	*0-150*			*S-06*
Surrogate: 2,4,6-Tribromophenol	*2.91*		*"*	*1.67*		*174*	*0-150*			*S-06*
Surrogate: Terphenyl-dl4	*3.39*		*"*	*1.67*		*203*	*0-150*			*S-06*
Phenol	1.1	2.0	"	1.67	ND	66.0	0-150	10.2	49	
2-Chlorophenol	1.2	2.0	"	1.67	ND	73.6	0-150	14.0	40	
1,4-Dichlorobenzene	1.2	2.0	"	1.67	ND	70.8	0-150	2.29	28	
N-Nitrosodi-n-propylamine	1.2	2.0	"	1.67	ND	74.4	0-150	5.52	20	
1,2,4-Trichlorobenzene	1.3	2.0	"	1.67	ND	75.2	0-150	9.47	20	
4-Chloro-3-methylphenol	1.3	5.0	"	1.67	ND	75.6	0-150	5.43	20	
Acenaphthene	1.5	2.0	"	1.67	ND	90.8	0-150	3.13	20	
2,4-Dinitrotoluene	0.9	2.0	"	1.67	ND	56.8	0-150	4.14	20	
4-Nitrophenol	ND	5.0	"	1.67	ND		0-150		20	
Pentachlorophenol	0.3	20.0	"	1.67	ND	15.6	0-150	7.41	20	
Pyrene	1.7	2.0	"	1.67	ND	105	0-150	2.32	20	
3-Methylphenol & 4-Methylphenol	ND	40.0	"	3.33	ND		0-150		40	

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

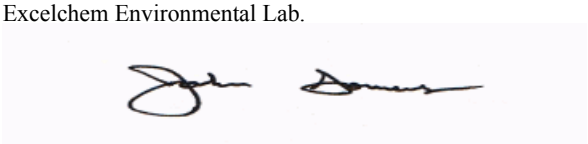
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Total Recoverable Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXI0245 - EPA 6010B										
Blank (AXI0245-BLK1)				Prepared: 09/24/14 Analyzed: 09/25/14						
Arsenic	ND	1.0	mg/kg							
Copper	ND	2.0	"							
Lead	ND	1.0	"							
LCS (AXI0245-BS1)				Prepared: 09/24/14 Analyzed: 09/25/14						
Arsenic	96.2	1.0	mg/kg	100		96.2	80-120			
Copper	98.2	2.0	"	100		98.2	80-120			
Lead	97.7	1.0	"	100		97.7	80-120			
LCS Dup (AXI0245-BSD1)				Prepared: 09/24/14 Analyzed: 09/25/14						
Arsenic	96.0	1.0	mg/kg	100		96.0	80-120	0.229	25	
Copper	97.5	2.0	"	100		97.5	80-120	0.664	25	
Lead	97.2	1.0	"	100		97.2	80-120	0.585	25	
Matrix Spike (AXI0245-MS1)		**Source: 1409188-03**		Prepared: 09/24/14 Analyzed: 09/25/14						
Arsenic	94.2	1.0	mg/kg	100	4.46	89.7	75-125			
Copper	104	2.0	"	100	14.9	89.6	75-125			
Lead	94.3	1.0	"	100	8.37	86.0	75-125			
Matrix Spike Dup (AXI0245-MSD1)		**Source: 1409188-03**		Prepared: 09/24/14 Analyzed: 09/25/14						
Arsenic	93.8	1.0	mg/kg	100	4.46	89.3	75-125	0.458	25	
Copper	102	2.0	"	100	14.9	87.2	75-125	2.32	25	
Lead	92.6	1.0	"	100	8.37	84.2	75-125	1.90	25	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

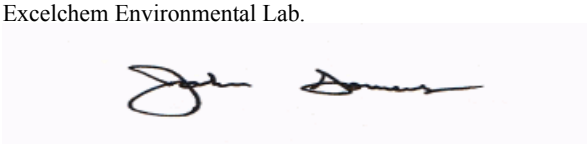
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Notes and Definitions

Z-02	The spike recovery and RPD for this analyte is out of QA/QC parameters due to matrix interferences.
Z-01a	The MS recovery for this analyte is marginally outside of QC limits due to matrix interference.
Z-01	Extreme matrix interfence giving low recoveries of both internal standards and surrogates.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte not detected at the reporting limit.
NR	Not reported

Excelchem Environmental Lab.

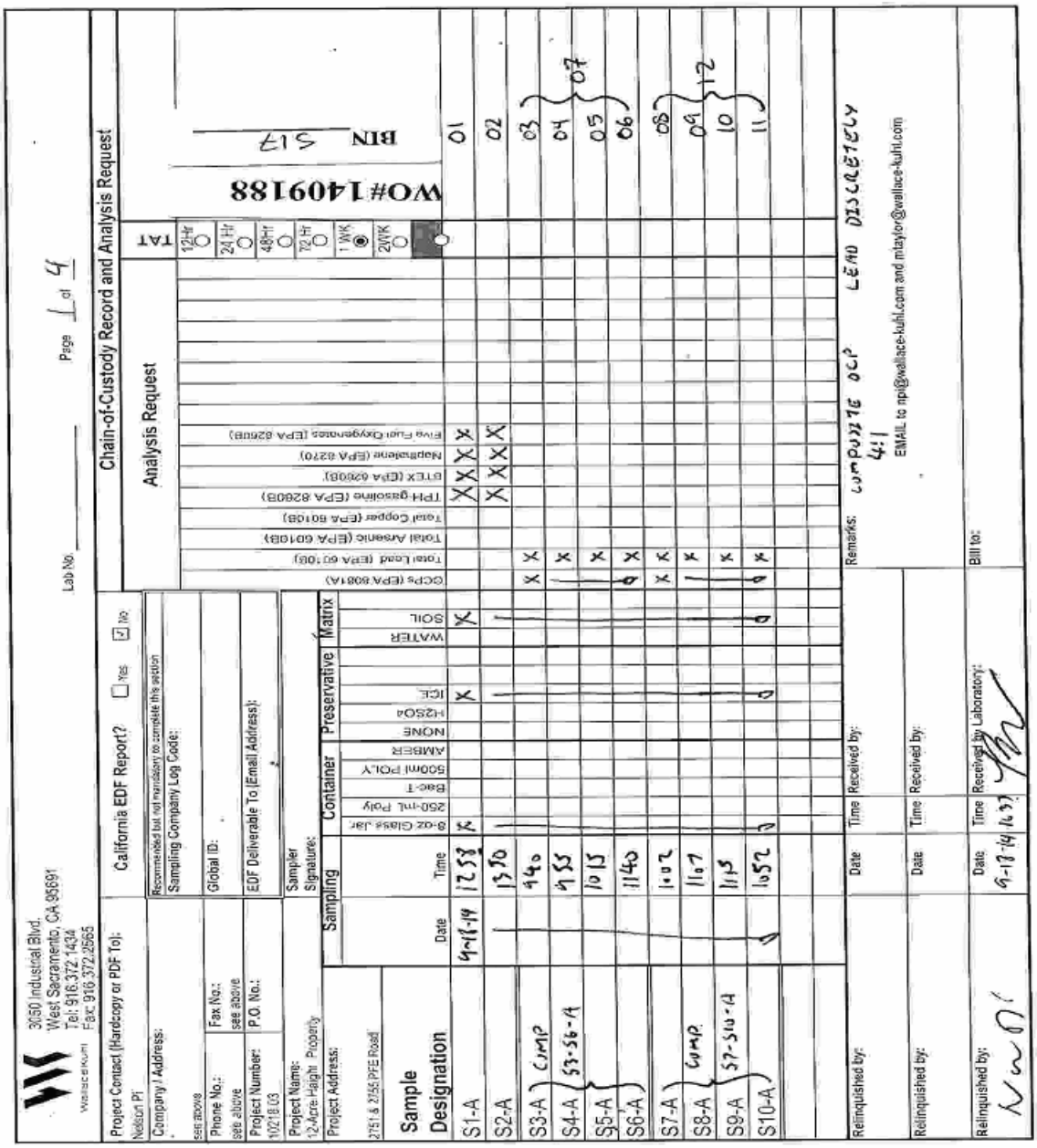


Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56



Wallace Kuhl
3050 Industrial Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565

Lab No. _____ Page 1 of 4

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nelson Pi
California EDF Report? ☐ Yes ☑ No
Recommended but not mandatory to complete this section
Company / Address: see above
Sampling Company Log Code:
Phone No.: see above
Fax No.: see above
Global ID:
Project Number: 10217.03
P.O. No.:
EDF Deliverable To (Email Address):
Project Name: 12-Acre Haight Property
Project Address: 2751 & 2755 PFE Road
Sampler Signature:

TAT: 12 Hr ○ 24 Hr ○ 48 Hr ○ 72 Hr ○ 1 WK ◉ 2WK ○

WO# 1409188
BIN S17

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 8-oz Glass Jar	250-mL Poly	Bac-T	500ml POLY	AMBER	NONE	Preservative: H2SO4	ICE	Matrix: WATER	SOIL	OCPs (EPA 8081A)	Total Lead (EPA 6010B)	Total Arsenic (EPA 6010B)	Total Copper (EPA 6010B)	TPH-gasoline (EPA 8260B)	BTEX (EPA 8260B)	Naphthalene (EPA 8270)	Five Fuel Oxygenates (EPA 8260B)
S1-A	9-17-14	1253	X							X		X					X	X	X	X
S2-A		1350															X	X	X	X
S3-A	Comp	940											X	X						
S4-A	S3-S6-A	955											X	X						
S5-A		1015											X	X						
S6-A		1140											X	X						
S7-A	Comp	1002											X	X						
S8-A	S7-S10-A	1107											X	X						
S9-A		1115											X	X						
S10-A		1052											X	X						

01 02 03 04 05 06 07 08 09 10 11 12

Relinquished by: Date: Time: Received by:
Relinquished by: Date: Time: Received by:
Relinquished by: Date: 9-17-14 Time: 1637 Received by Laboratory:

Remarks: COMPOSITE OCP 4:1 LEAD DISCRETELY
EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com
Bill to:

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Wallace Kuhl
3050 Industrial Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565

Lab No: _____ Page 2 of 4

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nelson Pi
Company / Address: see above
Phone No.: see above
Fax No.: see above
Project Number: 10218.03
P.O. No.:
Project Name: 12-Acre Haight Property
Project Address: 2751 & 2755 Pitt Road

California EDF Report? ☐ Yes ☑ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

TAT: 12 Hr ○ 24 Hr ○ 48 Hr ○ 72 Hr ○ 1 Wk ◉ 2 Wk ○

Analysis Request: OCPs (EPA 8081A); Total Lead (EPA 6010B); Total Arsenic (EPA 6010B); Total Copper (EPA 6010B); TPH gasoline (EPA 8260B); BTEX (EPA 8260B); Naphthalene (EPA 8270); Five Fuel Oxygenates (EPA 8260B)

Sample Designation	Sampling Date	Sampling Time	Container: 8-oz Glass Jar	250-mL Poly	Bac-T	500ml POLY	AMBER	NONE	H2SO4	ICE	Matrix: WATER	SOIL	OCPs (EPA 8081A)	Total Lead (EPA 6010B)	Total Arsenic (EPA 6010B)	Total Copper (EPA 6010B)	TPH gasoline (EPA 8260B)	BTEX (EPA 8260B)	Naphthalene (EPA 8270)	Five Fuel Oxygenates (EPA 8260B)	For Lab Use Only
S11-A	9-17-14	1234									X		X	X	X						13
S12-A (Comp)		1310											X	X	X						14
S13-A (S11 - S14-A)		1314											X	X	X						15
S14-A		1350											X	X	X						16
S15-A (Comp)		1153											X	X	X						18
S16-A (S15-S16-A)		1207											X	X	X						19
S17-A		907											X	X	X	X					21
S18-A		1441											X	X	X	X					22
S19-A		1503											X	X	X	X					23
S20-A		1440											X	X	X	X					24
S21-A		1459											X	X	X	X					25

Relinquished by: Date Time Received by:
Relinquished by: Date Time Received by:
Relinquished by: Date 9-17-14 Time 1637 Received by Laboratory:

Remarks: Composite OCPs 4:1 2:1 LEAD DISCREPANCY
EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com

Bill to:

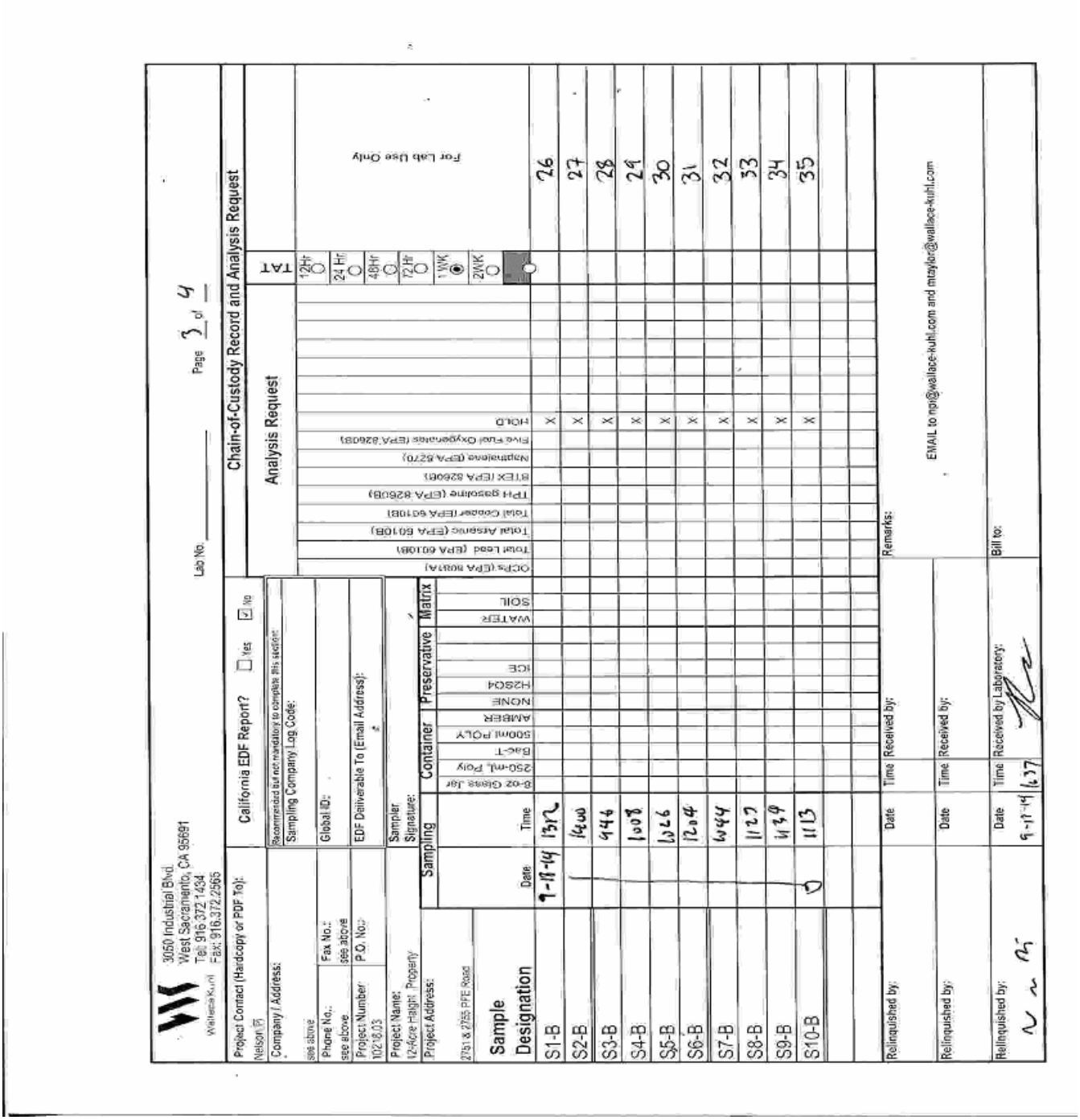
Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56



3050 Industrial Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2565
Wallace Kuhl

Lab No. _____ Page 3 of 4

Project Contact (Hardcopy or PDF To): Nelson Pi
Company / Address: see above
Phone No.: see above
Fax No.: see above
Project Number: 10218.03
P.O. No.:
Project Name: 12-Acre Haight Property
Project Address: 2751 & 2755 PFE Road

California EDF Report? ☐ Yes ☑ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Chain-of-Custody Record and Analysis Request

Analysis Request

Sample Designation	Sampling Date	Sampling Time	Container: 8-oz Glass Jar	Container: 250-ml. Poly	Container: Bac-T	Container: 500ml. POLY	Container: AMBER	Preservative: NONE	Preservative: H2SO4	Preservative: ICE	Matrix: WATER	Matrix: SOIL	OCPs (EPA 8081A)	Total Lead (EPA 6010B)	Total Arsenic (EPA 6010B)	Total Copper (EPA 6010B)	TPH gasoline (EPA 8260B)	BTEX (EPA 8260B)	Naphthalene (EPA 8270)	Five Fuel Oxygenates (EPA 8260B)	HOLD	TAT	For Lab Use Only
S1-B	9-18-14	1312																			X		26
S2-B		1400																			X		27
S3-B		946																			X		28
S4-B		1008																			X		29
S5-B		1026																			X		30
S6-B		1204																			X		31
S7-B		1044																			X		32
S8-B		1127																			X		33
S9-B		1139																			X		34
S10-B		1113																			X		35

Relinquished by: Date Time Received by: Remarks:
Relinquished by: Date Time Received by: EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com
Relinquished by: Date Time Received by Laboratory: Bill to:
N. Pi 9-18-14 1637

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Wallace Kuhl
3050 Industrial Blvd.
West Sacramento, CA 95691
Tel: 916.372.1434
Fax: 916.372.2665

Lab No. _____ Page 4 of 4

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Nelson Pi
Company / Address: see above
Phone No.: see above
Fax No.: see above
Project Number: 10218.03
P.O. No.:
Project Name: 12-Acre Haight Property
Project Address: 2751 & 2755 PFE Road
California EDF Report? ☐ Yes ☑ No
Recommended but not mandatory to complete this section:
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container: 8-oz Glass Jar	250-mL Poly	Bac-T	500ml POLY	AMBER	Preservative: NONE	H2SO4	ICE	Matrix: WATER	SOIL	OCPs (EPA 8081A)	Total Lead (EPA 6010B)	Total Arsenic (EPA 6010B)	Total Copper (EPA 6010B)	TPH gasoline (EPA 8260B)	BTEX (EPA 8260B)	Naphthalene (EPA 8270)	Five Fuel Oxygenates (EPA 8260B)	HOLD	For Lab Use Only
S11-B	9-17-14	1245																			X	36
S12-B		1306																			X	37
S13-B		1337																			X	38
S14-B		1401																			X	39
S15-B		1200																			X	40
S16-B		1212																			X	41
S17-B		914																			X	42
S18-B		1450																			X	43
S19-B		1307																			X	44
S20-B		1446																			X	45
S21-B		1504																			X	46

TAT: 12Hr ○ 24 Hr ○ 48Hr ○ 72 Hr ○ 1 WK ◉ 2WK ○

Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 9-17-14	Time 1637	Received by Laboratory:

Remarks: EMAIL to rpi@wallace-kuhl.com and mtaylor@wallace-kuhl.com

Bill to:

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/01/14 09:56

Sample Integrity

WORK ORDER _1409188_

Date Received: __09/19/14__

Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS [*Walk-In*] EXCELCHEM Courier Fed-Ex Other: _____

Transported In: [*Ice Chest*] Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other: _____

Has chilling process begun? [Y] N Samples Received: Chilled to Touch / Ambient / [*On Ice*]

Temperature of Samples (°C): __21__ Ice Chest Temperature(s) (°C): __23__

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	X			
Did all bottle labels agree with COC?	X			Will use earliest and latest times for composite sample. See comment below.
Were correct containers used for the tests requested?	X			
Were correct preservations used for the tests requested?			X	
Was a sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials?: **(Volatile Methods Only)**			X	

Section 3 – Summa/Flow regulator Info.

Used Summa#:	N/A
Unused Summa#:	
Cleaning Summa#:	
Regulator#:	

Was there any visual damage to summa canisters **or** flow regulators? **Explain.**

Section 4 – COC Info.

	Completed Yes	Completed No	Info From Container		Completed Yes	Completed No	Comments
Was COC Received	X			Analysis Requested	X		
Date Sampled	X			Samples arrived within holding time	X		
Time Sampled	X			Any hold times less than 72 hrs		X	
Sample ID	X			Client Name	X		
Rush TAT	X			Address/Telephone #	X		

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No [N/A] Notified by:

Explanations / Comments: **Composite sample times: S3-S6-A = 9:40-11:40, S7-S10-A = 10:02-11:15, S11-S14-A = 12:39-13:50, & S15-S16-A = 11:53-12:07.**

Samples Labeled by: ___BV___
Bin #s: ___S17___
COC Scanned/Attached by: _BV_
Sample labels reviewed by: _____

Filled Out by: Barrett Vue **Date:** 09/19/14 **Time:** 11:22

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449

ELAP Certificate No. : 2119

09 October 2014

Nelson Pi

Wallace Kuhl and Associates

3050 Industrial Blvd.

West Sacramento, CA 95691

RE: 12-Acre Haight Property

Work order number:1410008

Enclosed are the results of analyses for samples received by the laboratory on 10/01/14 12:33. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

John Somers, Lab Director

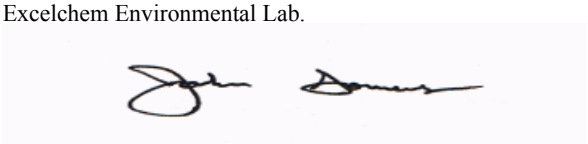
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S22-A	1410008-01	Soil	09/30/14 14:15	10/01/14 12:33
S23-A	1410008-02	Soil	09/30/14 14:53	10/01/14 12:33
S24-A	1410008-03	Soil	09/30/14 14:50	10/01/14 12:33
S25-A	1410008-04	Soil	09/30/14 15:40	10/01/14 12:33
S26-A	1410008-05	Soil	09/30/14 15:29	10/01/14 12:33
S27-A	1410008-06	Soil	09/30/14 15:47	10/01/14 12:33

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

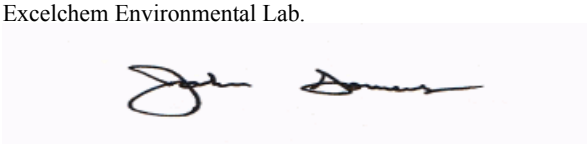
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S22-A
1410008-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*89.7 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*92.6 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

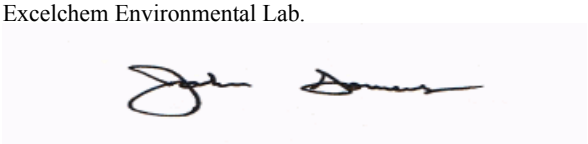
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S23-A
1410008-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*93.0 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*92.5 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

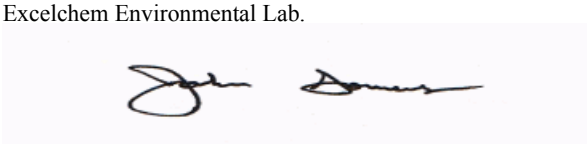
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S24-A
1410008-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*279 %*	% Recovery Limits		*50-150*			"	*S-GC*
Surrogate: Tetrachloro-meta-xylene	*81.3 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

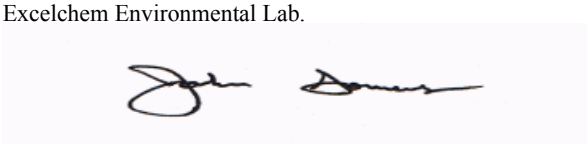
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S24-A

1410008-03RE1 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-Chlordane	ND	0.250	mg/kg	AXJ0078	10/08/14	10/09/14	EPA 8081A	
Dieldrin	**1.09**	0.250	"	"	"	"	"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

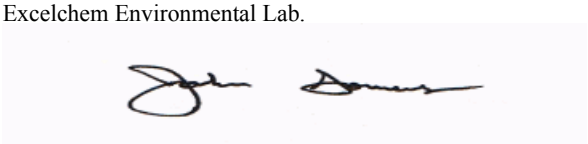
Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S25-A

1410008-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.250	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.250	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.250	"	"	"	"	"	
delta-BHC	ND	0.250	"	"	"	"	"	
Heptachlor	ND	0.250	"	"	"	"	"	
Aldrin	ND	0.250	"	"	"	"	"	
Heptachlor epoxide	ND	0.250	"	"	"	"	"	
gamma-Chlordane	ND	0.250	"	"	"	"	"	
Endosulfan I	ND	0.250	"	"	"	"	"	
alpha-Chlordane	ND	0.250	"	"	"	"	"	
4,4'-DDE	ND	0.250	"	"	"	"	"	
Dieldrin	**0.267**	0.250	"	"	"	"	"	
Endrin	ND	0.250	"	"	"	"	"	
Endosulfan II	ND	0.250	"	"	"	"	"	
4,4'-DDD	ND	0.250	"	"	"	"	"	
Endrin aldehyde	ND	0.250	"	"	"	"	"	
Endosulfan sulfate	ND	0.250	"	"	"	"	"	
4,4'-DDT	ND	0.250	"	"	"	"	"	
Endrin Ketone	ND	0.250	"	"	"	"	"	
Methoxychlor	ND	0.250	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*132 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*198 %*	% Recovery Limits		*50-150*			"	*S-06*

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

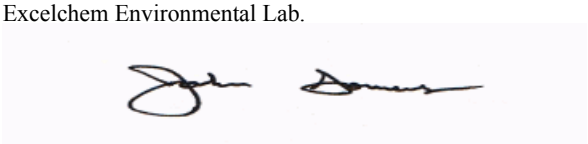
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S26-A
1410008-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*90.8 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*88.9 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

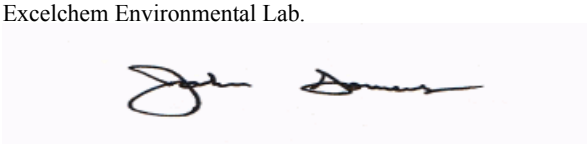
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S27-A
1410008-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
alpha-BHC	ND	0.005	mg/kg	AXJ0078	10/08/14	10/08/14	EPA 8081A	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Heptachlor	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	**0.040**	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Endrin	**0.005**	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	*93.6 %*	% Recovery Limits		*50-150*			"	
Surrogate: Tetrachloro-meta-xylene	*83.3 %*	% Recovery Limits		*50-150*			"	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

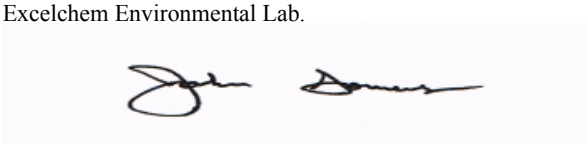
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

S27-A
1410008-06RE1 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
Pesticides by GC/ECD								
Dieldrin	**0.394**	0.050	mg/kg	AXJ0078	10/08/14	10/09/14	EPA 8081A	

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

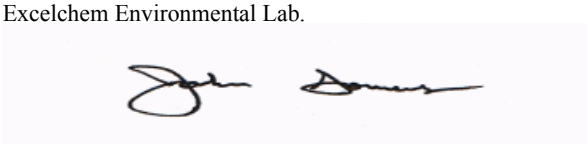
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXJ0078 - EPA 8081A										
Blank (AXJ0078-BLK1)				Prepared & Analyzed: 10/08/14						
Surrogate: Decachlorobiphenyl	*0.0189*		*mg/kg*	*0.0200*		*94.7*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0210*		*"*	*0.0200*		*105*	*50-150*			
alpha-BHC	ND	0.005	"							
beta-BHC	ND	0.005	"							
gamma-BHC (Lindane)	ND	0.005	"							
delta-BHC	ND	0.005	"							
Heptachlor	ND	0.005	"							
Aldrin	ND	0.005	"							
Heptachlor epoxide	ND	0.005	"							
gamma-Chlordane	ND	0.005	"							
Endosulfan I	ND	0.005	"							
alpha-Chlordane	ND	0.005	"							
4,4'-DDE	ND	0.005	"							
Dieldrin	ND	0.005	"							
Endrin	ND	0.005	"							
Endosulfan II	ND	0.005	"							
4,4'-DDD	ND	0.005	"							
Endrin aldehyde	ND	0.005	"							
Endosulfan sulfate	ND	0.005	"							
4,4'-DDT	ND	0.005	"							
Endrin Ketone	ND	0.005	"							
Methoxychlor	ND	0.005	"							
LCS (AXJ0078-BS1)				Prepared & Analyzed: 10/08/14						
Surrogate: Decachlorobiphenyl	*0.0194*		*mg/kg*	*0.0200*		*97.0*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0216*		*"*	*0.0200*		*108*	*50-150*			
gamma-BHC (Lindane)	0.017	0.005	"	0.0200		85.9	50-150			
Heptachlor	0.016	0.005	"	0.0200		81.5	50-150			
Aldrin	0.017	0.005	"	0.0200		83.3	50-150			
Dieldrin	0.037	0.005	"	0.0500		74.1	50-150			
Endrin	0.038	0.005	"	0.0500		75.5	50-150			
4,4'-DDT	0.036	0.005	"	0.0500		72.6	50-150			

Excelchem Environmental Lab.



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AXJ0078 - EPA 8081A										
LCS Dup (AXJ0078-BSD1)				Prepared & Analyzed: 10/08/14						
Surrogate: Decachlorobiphenyl	*0.0193*		*mg/kg*	*0.0200*		*96.3*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0210*		*"*	*0.0200*		*105*	*50-150*			
gamma-BHC (Lindane)	0.017	0.005	"	0.0200		83.7	50-150	2.58	25	
Heptachlor	0.016	0.005	"	0.0200		79.6	50-150	2.33	25	
Aldrin	0.016	0.005	"	0.0200		81.3	50-150	2.47	25	
Dieldrin	0.036	0.005	"	0.0500		72.5	50-150	2.11	25	
Endrin	0.037	0.005	"	0.0500		74.2	50-150	1.69	25	
4,4'-DDT	0.036	0.005	"	0.0500		71.1	50-150	2.06	25	
Matrix Spike (AXJ0078-MS1)		**Source: 1410008-06**		Prepared & Analyzed: 10/08/14						
Surrogate: Decachlorobiphenyl	*0.0195*		*mg/kg*	*0.0200*		*97.3*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0171*		*"*	*0.0200*		*85.7*	*50-150*			
gamma-BHC (Lindane)	0.016	0.005	"	0.0200	ND	77.6	50-150			
Heptachlor	0.015	0.005	"	0.0200	ND	73.2	50-150			
Aldrin	0.015	0.005	"	0.0200	ND	77.2	50-150			
Dieldrin	0.381	0.005	"	0.0500	0.182	398	50-150			E
Endrin	0.043	0.005	"	0.0500	0.005	75.8	50-150			
4,4'-DDT	0.039	0.005	"	0.0500	ND	78.3	50-150			
Matrix Spike Dup (AXJ0078-MSD1)		**Source: 1410008-06**		Prepared & Analyzed: 10/08/14						
Surrogate: Decachlorobiphenyl	*0.0196*		*mg/kg*	*0.0200*		*97.8*	*50-150*			
Surrogate: Tetrachloro-meta-xylene	*0.0176*		*"*	*0.0200*		*87.9*	*50-150*			
gamma-BHC (Lindane)	0.015	0.005	"	0.0200	ND	77.4	50-150	0.245	25	
Heptachlor	0.015	0.005	"	0.0200	ND	73.7	50-150	0.585	25	
Aldrin	0.016	0.005	"	0.0200	ND	77.7	50-150	0.685	25	
Dieldrin	0.430	0.005	"	0.0500	0.182	495	50-150	12.1	25	E
Endrin	0.043	0.005	"	0.0500	0.005	76.7	50-150	1.06	25	
4,4'-DDT	0.039	0.005	"	0.0500	ND	78.5	50-150	0.264	25	

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

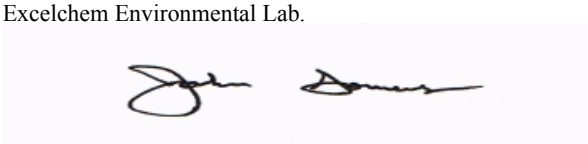
Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
ND	Analyte not detected at reporting limit.
NR	Not reported

Excelchem Environmental Lab.

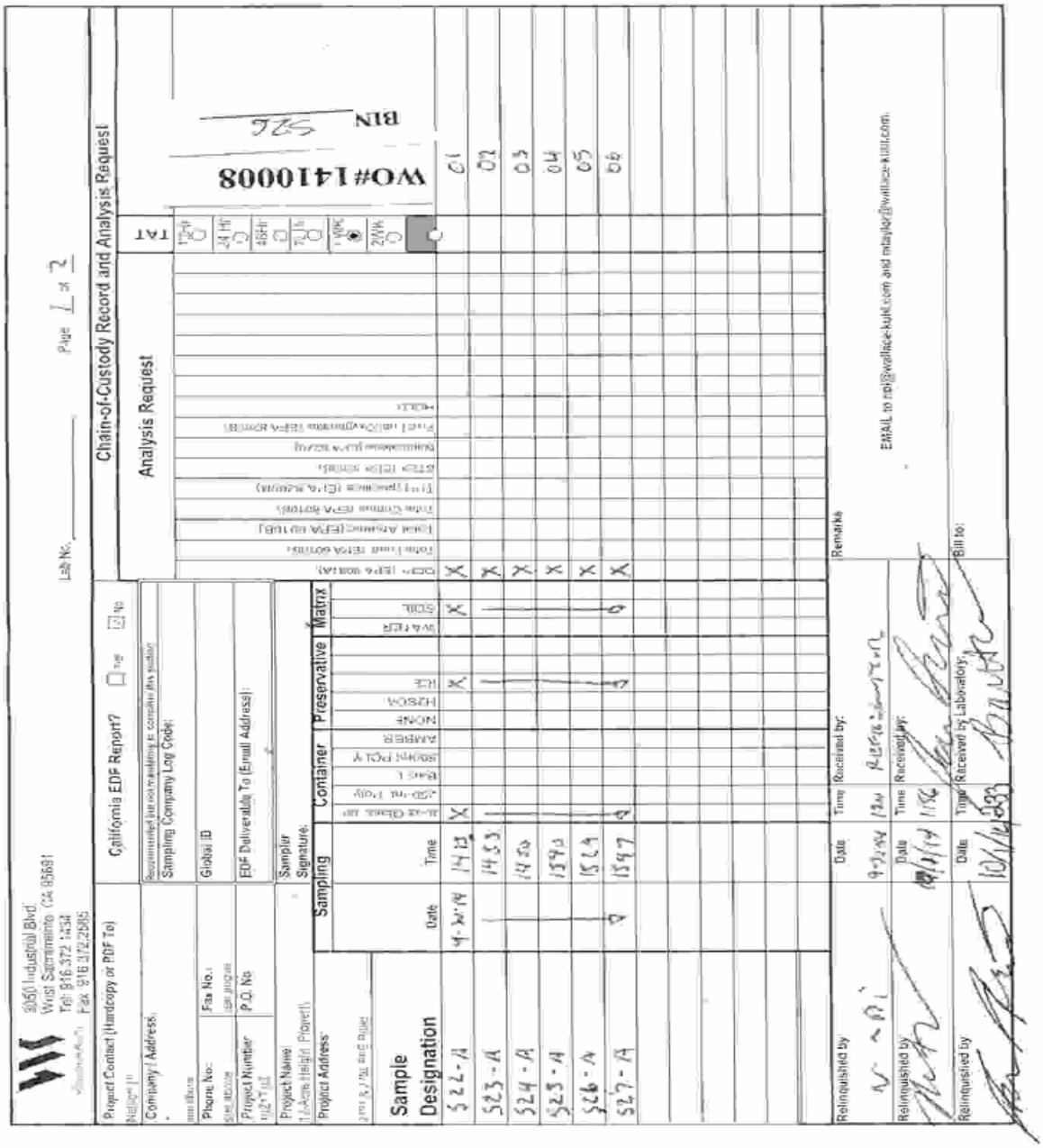


Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52



Chain-of-Custody Record and Analysis Request

Lab No. _____ Page 1 of 2

3050 Industrial Blvd.
West Sacramento, CA 95691
Tel: 916 372 1434
Fax: 916 372 2565

Project Contact (Hardcopy or PDF To): Nelson Pi
Company / Address:
Phone No.: Fax No.:
Project Number: P.O. No.:
Project Name: 12-Acre Haight Property
Project Address:
California EDF Report? Yes No
Requirements for non-standard or complex deliverables
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container	Preservative	Matrix	Analysis Request	TAT
S22-A	9-30-14	1413	3-oz Glass Jar	ICE	SOIL	DOH, EPA 8015M	01
S23-A		1453					02
S24-A		1450					03
S25-A		1590					04
S26-A		1524					05
S27-A		1597					06

WO# 1410008
BIN 526

Relinquished by: Date 9-30-14 Time 1800 Received by: [illegible]
Relinquished by: Date 10/1/14 Time 1115 Received by: [illegible]
Relinquished by: Date 10/1/14 Time 1100 Received by Laboratory: [illegible]

Remarks
EMAIL to npi@wallace-kuhl.com and mtaylor@wallace-kuhl.com

Bill to:

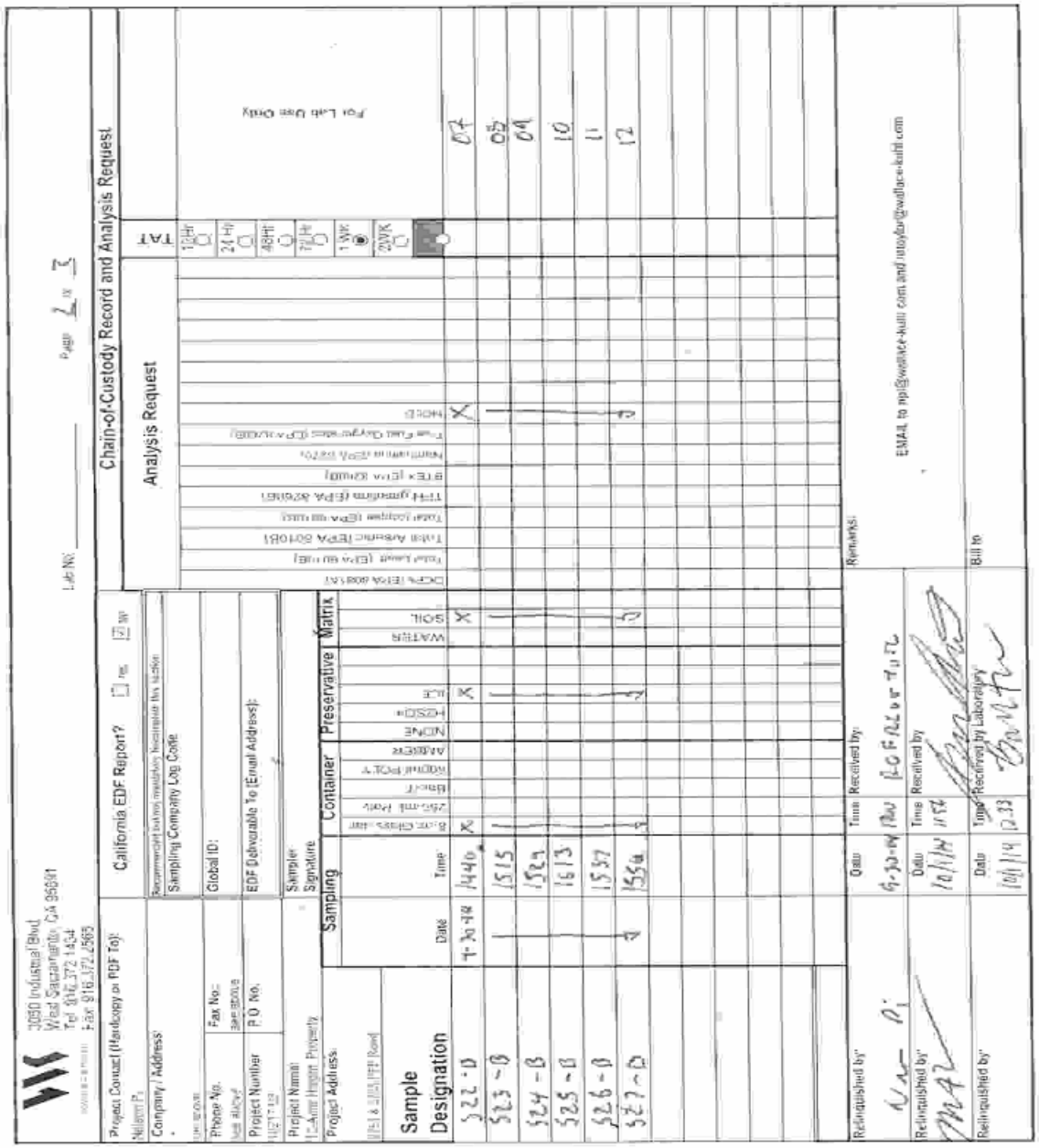
Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52



Chain-of-Custody Record and Analysis Request

Page 2 of 2

Lab No:

3050 Industrial Blvd.
West Sacramento, CA 95691
Tel 916.372.1434
Fax 916.372.2565

Project Contact (Hardcopy or PDF To): Nelson Pi
Company / Address:
Phone No.: Fax No.:
Project Number: 10217.03
Project Name: 12-Acre Haight Property
Project Address: 0 Pitt & Arlington Road
Sample Designation

California EDF Report? ☐ Yes ☑ No
Recommended but not mandatory. Incomplete this section
Sampling Company Log Code:
Global ID:
EDF Deliverable To (Email Address):
Sampler Signature:

Sample Designation	Sampling Date	Sampling Time	Container	Preservative	Matrix	Analysis Request	TAT	For Lab Use Only
S22-B	7-30-14	1440	8oz Glass Jar	ICE	SOIL	Total Lead (EPA 6010B), Total Arsenic (EPA 6010B), Total Cadmium (EPA 6010B), TTLH Gasoline (EPA 8260B), BTEX (EPA 8260B), Naphthalene (EPA 8270), Total Fuel Oxygenates (EPA 8260B), HOLD	1WK	04
S23-B		1515						05
S24-B		1524						06
S25-B		1613						10
S26-B		1537						11
S27-B		1554						12

Relinquished by: Date 9-30-14 Time 1800 Received by: BLOFRAZ
Relinquished by: Date 10/1/14 Time 1158 Received by:
Relinquished by: Date 10/1/14 Time 1233 Received by Laboratory:

Remarks: EMAIL to npi@wallace-kuhl.com and rstoyer@wallace-kuhl.com

Bill to

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

Excelchem Environmental Labs

Wallace Kuhl and Associates	Project:	12-Acre Haight Property	
3050 Industrial Blvd.	Project Number:	10217.03	Date Reported:
West Sacramento, CA 95691	Project Manager:	Nelson Pi	10/09/14 11:52

Sample Integrity

WORK ORDER _1410008_

Date Received: __10/02/14__

Section 1 – Sample Arrival Info.

Sample Transport: ONTRAC UPS USPS Walk-In [EXCELCHEM Courier] Fed-Ex Other:_____

Transported In: [Ice Chest] Box Hand

Describe type of packing materials: Bubble Wrap Foam Packing Peanuts Paper Other:_____

Has chilling process begun? [Y] N Samples Received: Chilled to Touch / Ambient / [On Ice]

Temperature of Samples (°C): __6__ Ice Chest Temperature(s) (°C): ___3___

Section 2 – Bottle/Analysis Info.

	Yes	No	N/A	Comments
Did all bottles arrive unbroken and intact?	X			
Did all bottle labels agree with COC?	X			
Were correct containers used for the tests requested?	X			
Were correct preservations used for the tests requested?			X	
Was a sufficient amount of sample sent for tests indicated?	X			
Were bubbles present in VOA Vials?: **(Volatile Methods Only)**			X	

Section 3 – Summa/Flow regulator Info.

Used Summa#:	N/A
Unused Summa#:	
Cleaning Summa#:	
Regulator#:	
Was there any visual damage to summa canisters or flow regulators? **Explain.**	

Section 4 – COC Info.

	Completed Yes	Completed No	Info From Container		Completed Yes	Completed No	Comments
Was COC Received	X			Analysis Requested	X		
Date Sampled	X			Samples arrived within holding time	X		
Time Sampled	X			Any hold times less than 72 hrs		X	
Sample ID	X			Client Name	X		
Rush TAT	X			Address/Telephone #	X		

Section 5 – Comments / Discrepancies

Was Client notified of discrepancies: Yes No [N/A] Notified by:

Explanations / Comments:

Samples Labeled by: ___BV___
Bin #s: ___S26___
COC Scanned/Attached by: _BV_
Sample labels reviewed by: _____

Filled Out by:	Barrett Vue	**Date:**	10/02/14
		Time:	14:40

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laboratory Representative

APPENDIX B

Soil Screening Levels – Residential Land Use

Soil Screening Levels - Residential Land Use

12-ACRE HAIGHT PROPERTY

WKA No. 10217.03

	CHHSL (mg/kg)
Organochlorine Pesticides	
Aldrin	0.033
alpha-BHC	--
beta-BHC	--
delta-BHC	--
gamma-BHC (Lindane)	0.5
Chlordane-technical	0.43
4,4'-DDD	2.3
4,4'-DDE	1.6
4,4'-DDT	1.6
Dieldrin	0.035
Endosulfan I	--
Endosulfan II	--
Endosulfan sulfate	--
Endrin	21
Endrin aldehyde	--
Heptachlor	0.13
Heptachlor epoxide	--
Methoxychlor	340
Mirex	0.031
Toxaphene	0.46
Metals	
Arsenic	0.07*
Copper	3000
Lead	80

*Contributions from human activity

CHHSL - California Human Health Screening Level

-- Screening level not available