

Shallow Soil Sampling

NWC of Juniper and Jurupa Avenue
Fontana, California
Stantec Project No: 185803581



Prepared for:
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Prepared by:
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August 6, 2019

Sign-off Sheet

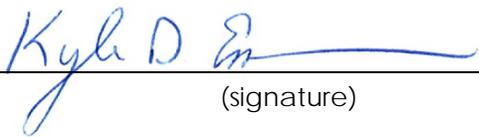
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Prepared by 
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SHALLOW SOIL SAMPLING

Table of Contents

EXECUTIVE SUMMARY	I
1.0 INTRODUCTION	1.1
1.1 PROPERTY DESCRIPTION AND OPERATIONS	1.1
1.2 PROPERTY GEOLOGY AND HYDROGEOLOGY.....	1.1
2.0 BACKGROUND INFORMATION	2.1
3.0 FIELD INVESTIGATION PROGRAM	3.2
3.1 PRE-ASSESSMENT ACTIVITIES.....	3.2
3.2 FIELD INVESTIGATION	3.2
3.2.1 Soil Boring and Sampling Procedures.....	3.2
3.3 DECONTAMINATION PROCEDURES	3.3
4.0 LABORATORY TESTING PROGRAM	4.4
5.0 INVESTIGATION RESULTS	5.1
5.1 FIELD OBSERVATIONS.....	5.1
5.2 ANALYTICAL RESULTS	5.1
6.0 LIMITATIONS	6.1
7.0 REFERENCES.....	7.1

LIST OF TABLES

Table 1 - Summary of Soil Analytical Results - Pesticides
Table 2 - Summary of Soil Analytical Results - Lead and Arsenic

LIST OF FIGURES

Figure 1 – Property Location Map
Figure 2 – Soil Sample Locations

LIST OF APPENDICES

Appendix A – Laboratory Data Sheets and QA/QC Results

SHALLOW SOIL SAMPLING

Executive Summary

Stantec Consulting Services Inc. (Stantec) perform a shallow soil sampling for the Property located on the northwest corner of Juniper Avenue and Jurupa Avenue for a total of approximately 23.82 acres in the City of Fontana, County of San Bernardino, California (the "Property" or the "Site" see figure 21, on behalf of GLC Fontana III LLC (the "Client"). A Property map illustrating the main features and boring locations on the Property is provided as Figure 2.

The intent of this assessment was to evaluate the following recognized environmental conditions (RECs) and non-ASTM issues identified in the Phase I Environmental Site Assessment (ESA) dated February 10, 2019:

- **Historical Agricultural Use.** Stantec's interpretation of available historical aerial photographs shows that the Site parcels were used as orchards since at least 1938 with the orchards cleared by 1975. Residential structures were present on the Property as early as 1938 and remain so from then on. Based on historical agricultural use on the Site, Stantec concludes that there is a potential that residual organochlorine pesticides and metals associated with herbicides may exist in soils on the Property.

The results of the shallow soil sampling are discussed below.

Due to difficult subsurface conditions (i.e. cobbles and hard pack soils), a total of eight (8) soil borings were advanced by hand auger to 1-foot below ground surface (bgs). Three (3) deeper soil samples were collected at 3-foot bgs. All samples were logged on a chain-of-custody (COC) form and placed in an ice-filled cooler for transport to the laboratory. The eight 1-foot samples were submitted to the laboratory and analyzed for lead and arsenic by EPA Method 6010B as well as organochloride pesticides (OCPs) by EPA Method 8081A. All other samples were placed on hold pending the analytical results of the shallow soil samples. Copies of the COC forms are included as Appendix A.

Soil Results

Eight (8) soil samples were collected and analyzed for arsenic, and lead and organochlorine pesticides. Four of these soil samples (HA-02; HA-03; HA-04; and HA-07) reported detection of dieldrin at 0.120; 0.047; 0.033; and 0.0057 milligrams per kilogram (mg/kg), respectively (Table 1). Three of these concentrations are above the United States Environmental Protection Agency (US EPA) Regional Screening Level (RSL) for residential sites of 0.034 mg/kg for residential uses. However, the concentrations are below the US EPA RSL for commercial/industrial sites of 0.14 mg/kg and the California hazardous waste level of 8.0 mg/kg.

Arsenic was reported in all of the eight samples ranging from 2.6 to 9.8 mg/kg. These detections are above the United States Regional Screening Levels (US EPA RSLs) for residential sites of 0.68

SHALLOW SOIL SAMPLING

milligrams per kilogram (mg/kg); however, these detections are below the naturally occurring background level for California which ranges between 0.6 and 11.0 mg/kg (Table 2).

Lead was reported in all of the eight samples collected at concentrations ranging from 4.1 to 42 mg/kg (Table 2). These detections are well below the US EPA RSLs for residential sites of 80 mg/kg. Therefore, the metals associated with herbicide use are not considered an environmental concern to the Site.

CONCLUSIONS AND RECOMMENDATIONS

Based on the above results, the organochlorine pesticides, lead, and arsenic are below current regulatory thresholds for commercial uses and below California hazardous waste levels for disposal. Therefore, Stantec concludes that the historical agricultural use of the Property does not represent REC or a human health risk in light of the contemplated industrial use of the Property and recommends no further investigation regarding this issue.

SHALLOW SOIL SAMPLING

INTRODUCTION

August 7, 2019

1.0 INTRODUCTION

This report documents the methodology and results of a Phase II Environmental Site Assessment (ESA) investigation completed by Stantec Consulting Services Inc. (Stantec) for the Property located on the northwest corner of Juniper Avenue and Jurupa Avenue for a total of approximately 23.82 acres in the City of Fontana, County of San Bernardino, California (the "Property" or the "Site" see figure 1), on behalf of GLC Fontana III LLC (the "Client").

The work was conducted in accordance with Stantec's *Proposal for Shallow Soil Sampling*, dated August 2, 2019. The scope of work and the results of the investigation are described in subsequent sections. The following subsections provide the site description and a summary of past operations.

1.1 PROPERTY DESCRIPTION AND OPERATIONS

The northern portion of the Property encompasses approximately 13.94 acres was historically ranch land, a cattle slaughter house, a commercial structure, and residential properties. The two-story commercial structure on Lot 14 is currently undergoing asbestos abatement. The southern portion of the Property is approximately 9.88 acres and consists of historical ranch land and residential structures. Surrounding properties are a mixture of residential, commercial, vacant land, and a church. A property location map is illustrated on Figure 1. A property plan illustrating the main features of the Property is provided as Figure 2.

1.2 PROPERTY GEOLOGY AND HYDROGEOLOGY

The Site is located in San Bernardino County. The area is located within the Peninsular Ranges Geomorphic Province, which includes northwest-southeast trending mountain ranges and valleys that have been developed by the San Andreas Fault system (California Geological Survey [CGS], 2002). The stratigraphy underlying the Site consists primarily of recent-age alluvium with highlands of Miocene non-marine strata (CDMG, 1967).

The closest mapped recently active fault is the Glen Helen Fault located greater than 5 miles to northeast (CGS, 2010). According to official maps of California, the Site is not located within an Alquist-Priolo (AP) Earthquake Fault Zone boundary or within a liquefaction zone (CDMG, 2000).

The Site is located within the Upper Santa Ana Valley Groundwater Basin, Chino Subbasin (8-2.01). The basin is bounded on the east by the Rialto-Colton fault, on the southeast by the contact with impermeable rocks forming the Jurupa Mountains and low divides connecting the exposures. On the south the basin is bounded by contact with impermeable rocks of the Puente Hills and by the Chino fault, on the northwest by the San Jose Fault, and on the north by impermeable rocks of the San Gabriel Mountains and by the Cucamonga fault. San Antonio Creek and Cucamonga Creek drain the surface of the basin southward to join Santa Ana River. Water-bearing units consist of Holocene alluvium up to 150 feet in thickness and Pleistocene alluvium up to 700 feet in thickness (Department of Water Resources [DWR], 2004).

SHALLOW SOIL SAMPLING

INTRODUCTION

August 7, 2019

Groundwater in this area is estimated to be greater than 250 feet below ground surface (bgs). According to information available on Geotracker for a facility located less than three quarters of a mile to the northwest of the Site parcels, as of September 2011, groundwater ranged between 250 and 300 feet bgs with a southwesterly flow.

SHALLOW SOIL SAMPLING

BACKGROUND INFORMATION

August 7, 2019

2.0 BACKGROUND INFORMATION

The intent of this assessment was to evaluate the following recognized environmental conditions (RECs) and non-ASTM issues identified in the Phase I Environmental Site Assessment (ESA) dated February 10, 2019:

- **Historical Agricultural Use.** Stantec's interpretation of available historical aerial photographs shows that the Site parcels were used as orchards since at least 1938 with the orchards cleared by 1975. Residential structures were present on the Property as early as 1938 and remain so from then on. Based on historical agricultural use on the Site, Stantec concludes that there is a potential that residual organochlorine pesticides and herbicides may exist in soils on the Property.

SHALLOW SOIL SAMPLING

FIELD INVESTIGATION PROGRAM
August 7, 2019

3.0 FIELD INVESTIGATION PROGRAM

3.1 PRE-ASSESSMENT ACTIVITIES

The scope of work consisted of the following general elements:

Prior to the commencement of fieldwork activities, Stantec made the following preparations:

- In accordance with federal OSHA regulations (29 CFR, Section 1910.120), Stantec developed a site-specific Health and Safety Plan (HASP) for the subject property. All Stantec personnel and subcontractors associated with the project were required to be familiar with, and comply with, all provisions of the HASP.

3.2 FIELD INVESTIGATION

Stantec provided the services of a field environmental scientist to supervise and direct all on-site activities. All soil sampling and surface restoration, where applicable, was performed on August 5, 2019. All field work was performed under the supervision of a State of California registered professional geologist, and included the following activities:

Historical Agricultural Use:

Eight (8) soil samples were collected from the 8 soil borings (HA-01 through HA-08) to assess the historical agricultural use. Soil samples were collected at 1-foot from all eight soil borings. Due to difficult subsurface conditions (i.e. cobbles and hard packed soil), soil samples were collected from 3-feet from only three soil borings (HA-01, HA-05, and HA-06). The shallow samples were analyzed for organochlorine pesticides by EPA Method 8081A and arsenic/lead by EPA Method 6010B. The 3-foot soil samples were placed on hold pending results of the shallow soil sample.

3.2.1 Soil Boring and Sampling Procedures

Soil Sampling

Soil borings were advanced using a hand auger. Upon extraction of the auger bucket at the prescribed sampling depths, the soils contained therein were packed into two laboratory-provided clean 4-ounce glass jars and labeled with the appropriate identification information (boring number, sample depth, sample collection date, and sample collection time). The samples were logged on a chain-of-custody form and placed in an ice-filled cooler for transport to the laboratory.

The eight 1-foot samples were submitted to the laboratory and analyzed for lead and arsenic by EPA Method 6010B and organochloride pesticides (OCPs) by EPA Method 8081A. All other samples were placed on hold pending the analytical results of the first round of soil samples. Copies of the COC forms are included as Appendix A.

SHALLOW SOIL SAMPLING

FIELD INVESTIGATION PROGRAM

August 7, 2019

3.3 DECONTAMINATION PROCEDURES

To maintain quality control during soil sampling, prior to each sampling interval, the sampling equipment was decontaminated in an Alconox scrub solution and double-rinsed, first with tap water followed by a final rinse using distilled water. In addition, prior to, and between each boring advanced, the hollow steel rods were cleaned following the same protocol.

SHALLOW SOIL SAMPLING

LABORATORY TESTING PROGRAM

August 7, 2019

4.0 LABORATORY TESTING PROGRAM

A total of eleven (11) soil samples collected during this investigation were delivered under COC to Advanced Technology Laboratories (ATL) based out of Signal Hill, California. All soil samples were collected in glass jars by the onsite staff geologist under the supervision of a State of California registered professional. Stantec staff and ATL are certified to perform hazardous waste testing by the State of California Department of Health Services, Environmental Laboratory Accreditation Program.

Of the samples submitted to the laboratory, eight (8) 1-foot soil samples were analyzed for lead and arsenic by EPA Method 6010B as well as organochloride pesticides by EPA Method 8081A. All other samples were placed on hold pending the analytical results of the shallow of soil samples. Copies of the COC forms are included as Appendix A.

SHALLOW SOIL SAMPLING

INVESTIGATION RESULTS

August 7, 2019

5.0 INVESTIGATION RESULTS

5.1 FIELD OBSERVATIONS

On August 5, 2019, Stantec personnel oversaw the advancement and sampling of eight (8) soil borings at the Property. Subsurface conditions encountered during the investigation were variable with sand-silt mixtures from surface to 3-feet bgs. No staining or chemical odors were observed. Groundwater was not encountered in the borings advanced during this assessment.

5.2 ANALYTICAL RESULTS

The laboratory test results are discussed below. Laboratory test results are summarized in attached Table 1 and Table 2. The complete laboratory analytical test results are presented on the laboratory data sheets attached as Appendix A.

Soil Results

Eight (8) soil samples were collected and analyzed in the laboratory for arsenic, lead, and organochlorine pesticides. Four soil samples (HA-02; HA-03; HA-04; and HA-07) reported detection of the organochlorine pesticide dieldrin at 0.120; 0.047; 0.033; and 0.0057 milligrams per kilogram (mg/kg), respectively (Table 1). Three of these concentrations are above the United States Environmental Protection Agency (US EPA) Regional Screening Level (RSL) for residential sites of 0.034 mg/kg. However, the concentrations are below the US EPA RSL for commercial/industrial sites of 0.14 mg/kg (planned use for the Property) and below the California the hazardous waste level of 8.0 mg/kg.

Arsenic was reported in all of the eight samples ranging from 2.6 to 9.8 mg/kg. These detections are above the United States Regional Screening Levels (US EPA RSLs) for residential sites of 0.68 milligrams per kilogram (mg/kg); however, these detections are within the expected naturally occurring background level for arsenic in California which ranges between 0.6 and 11.0 mg/kg (Table 2).

Lead was reported in all of the eight samples collected at concentrations ranging from 4.1 to 42 mg/kg (Table 2). These detections are well below the US EPA RSLs for residential sites of 80 mg/kg.

CONCLUSIONS AND RECOMMENDATIONS

Based on the above results, the organochlorine pesticides, lead and arsenic are below current regulatory thresholds for commercial uses and below California hazardous waste levels for disposal. Therefore, Stantec concludes that the historical agricultural use of the Property does not represent REC or a human health risk in light of the contemplated industrial use of the Property and recommends no further investigation regarding this issue.

SHALLOW SOIL SAMPLING

LIMITATIONS

August 7, 2019

6.0 LIMITATIONS

The conclusions presented in this report are professional opinions based on data described in this report. The opinions of this report have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location and are subject to the following inherent limitations. Stantec makes no other warranty, either expressed or implied, concerning the conclusions and professional advice that is contained within the body of this report.

Inherent in most projects performed in a heterogeneous subsurface environment, continuing excavation and assessments may reveal findings that are different than those presented herein. This facet of the environmental profession should be considered when formulating professional opinions on the limited data collected on these projects.

This report has been issued with the clear understanding that it is the responsibility of the owner, or their representative, to make appropriate notifications to regulatory agencies. It is specifically not the responsibility of Stantec to conduct appropriate notifications as specified by current County and State regulations.

The information presented in this report is valid as of the date our exploration was performed. Property conditions may degrade with time; consequently, the findings presented herein are subject to change.

SHALLOW SOIL SAMPLING

7.0 REFERENCES

California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOG), 2018, website <http://www.consrv.ca.gov/dog/maps>

California Division of Mines and Geology (CDMG), 1967, Geologic Hazards of Southwestern San Bernardino County, California, Special Report 113.

California Geological Survey (CGS), 2002, California Geomorphic Provinces, Note 36.

_____, 2010a, Fault Activity Map of California, adjustable scale, <http://www.quake.ca.gov/gmaps/FAM/faultactivitymap.html>

_____, 2010b, Alquist-Priolo Earthquake Fault Zones of California, http://www.quake.ca.gov/gmaps/ap/ap_maps.htm

Department of Toxic Substances Control (DTSC), 2008, Interim Guidance for Sampling Agricultural Properties (Third Revision), August 7.

Stantec Consulting Services, Inc., 2019, Phase I Environmental Site Assessment, February 14.

State Water Resources Control Board (SWRCB), 2019, Geotracker website, <http://geotracker.swrcb.ca.gov>.

United States Environmental Protection Agency (US EPA), Regional Screening Levels, Region 9, May 2019.

TABLES

Table 1
 Summary of Soil Analytical Results - Pesticides
 NWC of Jurupa Avenue and Juniper Avenue
 Fontana, California
 Stantec Project No.: 185803581

Location	Depth ⁽¹⁾	Date	Pesticides (EPA Test Method 8081A)				
			4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Other OCPs
Screening Levels for commercial/industrial soil (mg/Kg)			2.3	2.0	1.9	0.034	varies
Hazardous Waste Levels (mg/Kg)			1.0	1.0	1.0	8.0	varies
Samples							
HA-01	1.0	8/5/2019	<0.0020	0.0034	<0.0020	<0.0020	<varies
HA-02	1.0	8/5/2019	<0.010	0.090	0.023	0.120	<varies
HA-03	1.0	8/5/2019	<0.0040	0.013	<0.0040	0.047	<varies
HA-04	1.0	8/5/2019	0.0079	<0.0020	<0.0020	0.033	0.0066 alpha-Chlordane; 0.096 Chlordane; 0.0095 gamma-chlordane;
HA-05	1.0	8/5/2019	<0.0020	<0.0020	<0.0020	<0.0020	<varies
HA-06	1.0	8/5/2019	<0.0020	0.0064	0.0050	<0.0020	<varies
HA-07	1.0	8/5/2019	<0.0020	<0.0020	<0.0020	0.0057	<varies
HA-08	1.0	8/5/2019	<0.0020	<0.0020	<0.0020	<0.0020	<varies

NOTES:

- (1) Sample depth is reported as feet below ground surface
- (2) Screening level value is determined by the more conservative value from the California DTSC HERO Note 3 or USEPA RSLs.

All concentrations reported in milligrams of metal per kilogram of soil (mg/kg)

< - Indicates the concentration was not detected above the laboratory method reporting limit.

BOLD - Indicates the concentration is above the laboratory reporting level

Concentration exceeds USEPA RLS

ABBREVIATIONS:

- DTSC - Department of Toxic Substances Control
- HERO - Human and Ecological Risk Office
- NE - Not established
- USEPA RSL - United States Environmental Protection Agency Regional Screening Levels, residential use

Table 2
Summary of Soil Analytical Results - Lead & Arsenic
NWC of Jurupa Avenue and Juniper Avenue
Fontana, California

Stantec Project No.: 185803581

Sample ID ⁽¹⁾	Sampling Date	Sampling Depth (ft)	Metals (mg/kg)	
			EPA 6010B ⁽²⁾	
			Arsenic	Lead
USEPA RSLs (mg/kg)			0.68	80
California Background Levels (mg/kg)			0.6-11.0	12.4 - 97.1
<i>Samples</i>				
HA-01	8/5/2019	1.0	5.1	12
HA-02	8/5/2019	1.0	9.8	42
HA-03	8/5/2019	1.0	5.0	8.5
HA-04	8/5/2019	1.0	2.6	11
HA-05	8/5/2019	1.0	3.3	16
HA-06	8/5/2019	1.0	3.7	10
HA-07	8/5/2019	1.0	3.2	4.1
HA-08	8/5/2019	1.0	6.6	14

NOTES:

(1) Refer to Figure 2 for sampling locations

(2) Concentrations reported in milligrams per kilogram (mg/kg), EPA Test Method 6010B

< - Indicates the concentration was not detected above the laboratory method reporting limit.

-- indicates the sample was not analyzed

ABBREVIATIONS:

USEPA RSLs - United States Environmental Protection Agency Regional Screening Levels for Residential Soils (April 2019)

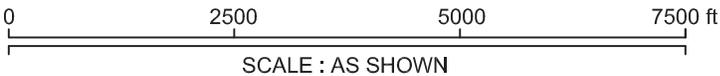
BOLD - Indicates the concentration is above the laboratory reporting level



Concentration exceeds USEPA RLS

Concentration exceeds Southern California regional background levels

FIGURES



NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC SERVICES INC. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

<h2 style="margin: 0;">PROPERTY LOCATION MAP</h2> <p style="margin: 0;">NWC OF JURUPA AVENUE AND JUNIPER AVENUE, FONTANA, CA</p>	Project No.: 185803581	<h1 style="margin: 0;">1</h1>	
	Scale: AS SHOWN		
Client: GLC FONTANA III LLC	Date: 19/02/15		
	Dwn. By: CD SC2019020027 DM/VM		
	App'd By: KE		



LEGEND

- SHALLOW SOIL SAMPLING (STANTEC, AUG 2019)



SCALE : AS SHOWN

NOTE: THIS DRAWING ILLUSTRATES SUPPORTING INFORMATION SPECIFIC TO A STANTEC CONSULTING LTD. REPORT AND MUST NOT BE USED FOR OTHER PURPOSES.

SHALLOW SOIL SAMPLING LOCATIONS

NWC OF JURUPA AVENUE AND JUNIPER AVENUE, FONTANA, CA

Client: GOODMAN

Project No.:	185803849
Scale:	AS SHOWN
Date:	18/06/21
Dwn. By:	CD DM SC2018060042
App'd By:	KE

Fig. No.:

2



APPENDIX A
LABORATORY DATA SHEETS AND QA/QC RESULTS



August 06, 2019

Alicia Jansen
Stantec
735 E. Carnegie Drive, Suite 280
San Bernardino, CA 92408
Tel: (909) 335-6116
Fax:(909) 335-6120

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

RE: ATL Work Order Number : 1902917
Client Reference : NWC Jurupa Ave. & Juniper Ave. Fontana,185803581

Enclosed are the results for sample(s) received on August, 5 2019 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edgar Caballero', with a small 'EC' monogram below it.

Edgar Caballero
President & Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Stantec 735 E. Carnegie Drive, Suite 280 San Bernardino, CA 92408	Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana Report To : Alicia Jansen Reported : 08/06/2019
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SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HA-01-1.0	1902917-01	Soil	8/05/19 8:27	8/05/19 14:00
HA-02-1.0	1902917-02	Soil	8/05/19 7:40	8/05/19 14:00
HA-03-1.0	1902917-03	Soil	8/05/19 7:24	8/05/19 14:00
HA-04-1.0	1902917-04	Soil	8/05/19 7:13	8/05/19 14:00
HA-05-1.0	1902917-05	Soil	8/05/19 9:10	8/05/19 14:00
HA-06-1.0	1902917-06	Soil	8/05/19 9:36	8/05/19 14:00
HA-07-1.0	1902917-07	Soil	8/05/19 10:35	8/05/19 14:00
HA-08-1.0	1902917-08	Soil	8/05/19 7:02	8/05/19 14:00



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino , CA 92408

Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
 Report To : Alicia Jansen
 Reported : 08/06/2019

Client Sample ID HA-01-1.0

Lab ID: 1902917-01

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.1	1.0	1	B9H0100	08/06/2019	08/06/19 13:36	
Lead	12	1.0	1	B9H0100	08/06/2019	08/06/19 13:36	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
4,4'-DDE [2C]	3.4	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
4,4'-DDT	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Aldrin	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
alpha-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
alpha-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
beta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Chlordane	ND	8.5	1	B9H0102	08/05/2019	08/05/19 20:01	
delta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Dieldrin	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endosulfan I	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endosulfan II	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endosulfan sulfate	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endrin	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endrin aldehyde	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Endrin ketone	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:01	
gamma-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
gamma-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Heptachlor	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Heptachlor epoxide	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Methoxychlor	ND	5.0	1	B9H0102	08/05/2019	08/05/19 20:01	
Toxaphene	ND	50	1	B9H0102	08/05/2019	08/05/19 20:01	
Surrogate: Decachlorobiphenyl	70.9 %	32 - 91		B9H0102	08/05/2019	08/05/19 20:01	
Surrogate: Tetrachloro-m-xylene	79.0 %	38 - 93		B9H0102	08/05/2019	08/05/19 20:01	



Certificate of Analysis

Stantec
 735 E. Carnegie Drive, Suite 280
 San Bernardino, CA 92408

Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
 Report To : Alicia Jansen
 Reported : 08/06/2019

Client Sample ID HA-02-1.0

Lab ID: 1902917-02

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	9.8	1.0	1	B9H0100	08/06/2019	08/06/19 13:40	
Lead	42	1.0	1	B9H0100	08/06/2019	08/06/19 13:40	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
4,4'-DDE [2C]	90	10	5	B9H0102	08/05/2019	08/06/19 10:17	
4,4'-DDT [2C]	23	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Aldrin	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
alpha-BHC	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
alpha-Chlordane	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
beta-BHC	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Chlordane	ND	42	5	B9H0102	08/05/2019	08/06/19 10:17	
delta-BHC	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Dieldrin [2C]	120	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Endosulfan I	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Endosulfan II	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Endosulfan sulfate	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Endrin	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Endrin aldehyde	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
Endrin ketone	ND	10	5	B9H0102	08/05/2019	08/06/19 10:17	
gamma-BHC	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
gamma-Chlordane	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Heptachlor	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Heptachlor epoxide	ND	5.0	5	B9H0102	08/05/2019	08/06/19 10:17	
Methoxychlor	ND	25	5	B9H0102	08/05/2019	08/06/19 10:17	
Toxaphene	ND	250	5	B9H0102	08/05/2019	08/06/19 10:17	
<i>Surrogate: Decachlorobiphenyl</i>	<i>100 %</i>	<i>32 - 91</i>		B9H0102	08/05/2019	<i>08/06/19 10:17</i>	<i>S10</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>99.1 %</i>	<i>38 - 93</i>		B9H0102	08/05/2019	<i>08/06/19 10:17</i>	<i>S10</i>



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
Report To : Alicia Jansen
Reported : 08/06/2019

Client Sample ID HA-03-1.0

Lab ID: 1902917-03

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.0	1.0	1	B9H0100	08/06/2019	08/06/19 13:41	
Lead	8.5	1.0	1	B9H0100	08/06/2019	08/06/19 13:41	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
4,4'-DDE [2C]	13	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
4,4'-DDT [2C]	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Aldrin	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
alpha-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
alpha-Chlordane	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
beta-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Chlordane	ND	17	2	B9H0102	08/05/2019	08/06/19 10:28	
delta-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Dieldrin [2C]	47	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endosulfan I	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endosulfan II	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endosulfan sulfate	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endrin	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endrin aldehyde	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Endrin ketone	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:28	
gamma-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
gamma-Chlordane	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Heptachlor	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Heptachlor epoxide	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:28	
Methoxychlor	ND	10	2	B9H0102	08/05/2019	08/06/19 10:28	
Toxaphene	ND	100	2	B9H0102	08/05/2019	08/06/19 10:28	
Surrogate: Decachlorobiphenyl	90.6 %	32 - 91		B9H0102	08/05/2019	08/06/19 10:28	
Surrogate: Tetrachloro-m-xylene	86.8 %	38 - 93		B9H0102	08/05/2019	08/06/19 10:28	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
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Client Sample ID HA-04-1.0

Lab ID: 1902917-04

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.6	1.0	1	B9H0100	08/06/2019	08/06/19 13:42	
Lead	11	1.0	1	B9H0100	08/06/2019	08/06/19 13:42	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	7.9	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
4,4'-DDE	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
4,4'-DDT	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Aldrin	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
alpha-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
alpha-Chlordane	6.6	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
beta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Chlordane	96	8.5	1	B9H0102	08/05/2019	08/05/19 20:33	
delta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Dieldrin [2C]	33	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endosulfan I	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endosulfan II	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endosulfan sulfate	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endrin	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endrin aldehyde	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Endrin ketone	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:33	
gamma-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
gamma-Chlordane [2C]	9.5	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Heptachlor	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Heptachlor epoxide	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Methoxychlor	ND	5.0	1	B9H0102	08/05/2019	08/05/19 20:33	
Toxaphene	ND	50	1	B9H0102	08/05/2019	08/05/19 20:33	
Surrogate: Decachlorobiphenyl	72.4 %	32 - 91		B9H0102	08/05/2019	08/05/19 20:33	
Surrogate: Tetrachloro-m-xylene	77.7 %	38 - 93		B9H0102	08/05/2019	08/05/19 20:33	



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Client Sample ID HA-05-1.0

Lab ID: 1902917-05

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.3	1.0	1	B9H0100	08/06/2019	08/06/19 13:43	
Lead	16	1.0	1	B9H0100	08/06/2019	08/06/19 13:43	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
4,4'-DDE	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
4,4'-DDT	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Aldrin	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
alpha-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
alpha-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
beta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Chlordane	ND	8.5	1	B9H0102	08/05/2019	08/05/19 20:44	
delta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Dieldrin	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endosulfan I	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endosulfan II	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endosulfan sulfate	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endrin	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endrin aldehyde	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Endrin ketone	ND	2.0	1	B9H0102	08/05/2019	08/05/19 20:44	
gamma-BHC	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
gamma-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Heptachlor	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Heptachlor epoxide	ND	1.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Methoxychlor	ND	5.0	1	B9H0102	08/05/2019	08/05/19 20:44	
Toxaphene	ND	50	1	B9H0102	08/05/2019	08/05/19 20:44	
Surrogate: Decachlorobiphenyl	67.7 %	32 - 91		B9H0102	08/05/2019	08/05/19 20:44	
Surrogate: Tetrachloro-m-xylene	86.7 %	38 - 93		B9H0102	08/05/2019	08/05/19 20:44	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
 Report To : Alicia Jansen
 Reported : 08/06/2019

Client Sample ID HA-06-1.0

Lab ID: 1902917-06

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.7	1.0	1	B9H0100	08/06/2019	08/06/19 13:44	
Lead	10	1.0	1	B9H0100	08/06/2019	08/06/19 13:44	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
4,4'-DDE [2C]	6.4	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
4,4'-DDT	5.0	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Aldrin	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
alpha-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
alpha-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
beta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Chlordane	ND	8.5	1	B9H0102	08/05/2019	08/06/19 10:50	
delta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Dieldrin	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endosulfan I	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endosulfan II	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endosulfan sulfate	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endrin	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endrin aldehyde	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Endrin ketone	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:50	
gamma-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
gamma-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Heptachlor	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Heptachlor epoxide	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Methoxychlor	ND	5.0	1	B9H0102	08/05/2019	08/06/19 10:50	
Toxaphene	ND	50	1	B9H0102	08/05/2019	08/06/19 10:50	
Surrogate: Decachlorobiphenyl	66.2 %	32 - 91		B9H0102	08/05/2019	08/06/19 10:50	
Surrogate: Tetrachloro-m-xylene	73.0 %	38 - 93		B9H0102	08/05/2019	08/06/19 10:50	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
Report To : Alicia Jansen
Reported : 08/06/2019

Client Sample ID HA-07-1.0

Lab ID: 1902917-07

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.2	1.0	1	B9H0100	08/06/2019	08/06/19 13:48	
Lead	4.1	1.0	1	B9H0100	08/06/2019	08/06/19 13:48	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
4,4'-DDE	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
4,4'-DDT	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Aldrin	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
alpha-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
alpha-Chlordane	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
beta-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Chlordane	ND	17	2	B9H0102	08/05/2019	08/06/19 10:39	
delta-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Dieldrin [2C]	5.7	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endosulfan I	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endosulfan II	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endosulfan sulfate	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endrin	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endrin aldehyde	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Endrin ketone	ND	4.0	2	B9H0102	08/05/2019	08/06/19 10:39	
gamma-BHC	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
gamma-Chlordane	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Heptachlor	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Heptachlor epoxide	ND	2.0	2	B9H0102	08/05/2019	08/06/19 10:39	
Methoxychlor	ND	10	2	B9H0102	08/05/2019	08/06/19 10:39	
Toxaphene	ND	100	2	B9H0102	08/05/2019	08/06/19 10:39	
<i>Surrogate: Decachlorobiphenyl</i>	<i>63.9 %</i>	<i>32 - 91</i>		B9H0102	08/05/2019	<i>08/06/19 10:39</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>78.1 %</i>	<i>38 - 93</i>		B9H0102	08/05/2019	<i>08/06/19 10:39</i>	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
 Report To : Alicia Jansen
 Reported : 08/06/2019

Client Sample ID HA-08-1.0

Lab ID: 1902917-08

Total Metals by ICP-AES EPA 6010B

Analyst: VV

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.6	1.0	1	B9H0100	08/06/2019	08/06/19 13:49	
Lead	14	1.0	1	B9H0100	08/06/2019	08/06/19 13:49	

Organochlorine Pesticides by EPA 8081

Analyst: BL/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
4,4'-DDE [2C]	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
4,4'-DDT	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Aldrin	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
alpha-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
alpha-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
beta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Chlordane	ND	8.5	1	B9H0102	08/05/2019	08/06/19 10:07	
delta-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Dieldrin	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endosulfan I	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endosulfan II	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endosulfan sulfate	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endrin	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endrin aldehyde	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Endrin ketone	ND	2.0	1	B9H0102	08/05/2019	08/06/19 10:07	
gamma-BHC	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
gamma-Chlordane	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Heptachlor	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Heptachlor epoxide	ND	1.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Methoxychlor	ND	5.0	1	B9H0102	08/05/2019	08/06/19 10:07	
Toxaphene	ND	50	1	B9H0102	08/05/2019	08/06/19 10:07	
Surrogate: Decachlorobiphenyl	84.3 %	32 - 91		B9H0102	08/05/2019	08/06/19 10:07	
Surrogate: Tetrachloro-m-xylene	90.8 %	38 - 93		B9H0102	08/05/2019	08/06/19 10:07	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
Report To : Alicia Jansen
Reported : 08/06/2019

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9H0100 - EPA 3050B_S										
Blank (B9H0100-BLK1)										
					Prepared: 8/6/2019 Analyzed: 8/6/2019					
Arsenic	ND	1.0	0.12							
Lead	ND	1.0	0.18							
LCS (B9H0100-BS1)										
					Prepared: 8/6/2019 Analyzed: 8/6/2019					
Arsenic	45.2565	1.0	0.12	50.0000		90.5	80 - 120			
Lead	45.7182	1.0	0.18	50.0000		91.4	80 - 120			
Matrix Spike (B9H0100-MS1)										
					Source: 1902917-01 Prepared: 8/6/2019 Analyzed: 8/6/2019					
Arsenic	101.099	1.0	0.12	125.000	5.05644	76.8	46 - 97			
Lead	102.860	1.0	0.18	125.000	12.4577	72.3	33 - 121			
Matrix Spike Dup (B9H0100-MSD1)										
					Source: 1902917-01 Prepared: 8/6/2019 Analyzed: 8/6/2019					
Arsenic	99.5019	1.0	0.12	125.628	5.05644	75.2	46 - 97	1.59	20	
Lead	102.055	1.0	0.18	125.628	12.4577	71.3	33 - 121	0.785	20	



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Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana
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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0102 - GCSEMI_PCB/PEST_S

Blank (B9H0102-BLK1)

Prepared: 8/5/2019 Analyzed: 8/5/2019

4,4'-DDD	ND	2.0	0.07							
4,4'-DDD [2C]	ND	2.0	0.07							
4,4'-DDE	ND	2.0	0.11							
4,4'-DDE [2C]	ND	2.0	0.11							
4,4'-DDT	ND	2.0	0.10							
4,4'-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							
Heptachlor epoxide [2C]	ND	1.0	0.09							



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0102 - GCSEMI_PCB/PEST_S (continued)

Blank (B9H0102-BLK1) - Continued

Prepared: 8/5/2019 Analyzed: 8/5/2019

Methoxychlor	ND	5.0	0.18							
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							

<i>Surrogate: Decachlorobiphenyl</i>	<i>15.12</i>			<i>16.6667</i>		<i>90.7</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [2</i>	<i>15.10</i>			<i>16.6667</i>		<i>90.6</i>	<i>32 - 91</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.35</i>			<i>16.6667</i>		<i>86.1</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene [</i>	<i>15.25</i>			<i>16.6667</i>		<i>91.5</i>	<i>38 - 93</i>			

LCS (B9H0102-BS1)

Prepared: 8/5/2019 Analyzed: 8/6/2019

4,4'-DDD	16.7620	2.0	0.07	16.6667		101	66 - 112			
4,4'-DDD [2C]	17.0203	2.0	0.07	16.6667		102	66 - 112			
4,4'-DDE	16.8845	2.0	0.11	16.6667		101	62 - 112			
4,4'-DDE [2C]	17.9368	2.0	0.11	16.6667		108	62 - 112			
4,4'-DDT	12.2610	2.0	0.10	16.6667		73.6	48 - 90			
4,4'-DDT [2C]	13.6628	2.0	0.10	16.6667		82.0	48 - 90			
Aldrin	15.8350	1.0	0.12	16.6667		95.0	58 - 104			
Aldrin [2C]	17.3280	1.0	0.12	16.6667		104	58 - 104			
alpha-BHC	15.2045	1.0	0.11	16.6667		91.2	57 - 105			
alpha-BHC [2C]	16.4022	1.0	0.11	16.6667		98.4	57 - 105			
alpha-Chlordane	16.3630	1.0	0.12	16.6667		98.2	62 - 108			
alpha-Chlordane [2C]	17.9852	1.0	0.12	16.6667		108	62 - 108			
beta-BHC	15.8467	1.0	0.06	16.6667		95.1	59 - 106			
beta-BHC [2C]	17.5450	1.0	0.06	16.6667		105	59 - 106			
delta-BHC	16.7850	1.0	0.12	16.6667		101	63 - 115			
delta-BHC [2C]	18.6517	1.0	0.12	16.6667		112	63 - 115			
Dieldrin	15.5615	2.0	0.26	16.6667		93.4	59 - 102			
Dieldrin [2C]	16.9262	2.0	0.26	16.6667		102	59 - 102			
Endosulfan I	14.8130	1.0	0.10	16.6667		88.9	61 - 99			
Endosulfan I [2C]	16.4285	1.0	0.10	16.6667		98.6	61 - 99			
Endosulfan II	16.0307	2.0	0.15	16.6667		96.2	65 - 105			
Endosulfan II [2C]	17.3710	2.0	0.15	16.6667		104	65 - 105			
Endosulfan sulfate	15.2045	2.0	0.16	16.6667		91.2	59 - 107			
Endosulfan Sulfate [2C]	16.6278	2.0	0.16	16.6667		99.8	59 - 107			
Endrin	16.8310	2.0	0.14	16.6667		101	65 - 113			
Endrin [2C]	17.4397	2.0	0.14	16.6667		105	65 - 113			
Endrin aldehyde	15.8545	2.0	0.31	16.6667		95.1	61 - 109			
Endrin aldehyde [2C]	17.3912	2.0	0.31	16.6667		104	61 - 109			
Endrin ketone	13.8672	2.0	0.13	16.6667		83.2	56 - 97			
Endrin ketone [2C]	15.2623	2.0	0.13	16.6667		91.6	56 - 97			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0102 - GCSEMI_PCB/PEST_S (continued)

LCS (B9H0102-BS1) - Continued

Prepared: 8/5/2019 Analyzed: 8/6/2019

gamma-BHC	15.7297	1.0	0.10	16.6667		94.4	57 - 101			
gamma-BHC [2C]	16.6353	1.0	0.10	16.6667		99.8	57 - 101			
gamma-Chlordane	15.9753	1.0	0.89	16.6667		95.9	56 - 125			
gamma-Chlordane [2C]	17.5643	1.0	0.89	16.6667		105	56 - 125			
Heptachlor	15.3583	1.0	0.12	16.6667		92.1	61 - 105			
Heptachlor [2C]	16.7932	1.0	0.12	16.6667		101	61 - 105			
Heptachlor epoxide	14.9308	1.0	0.09	16.6667		89.6	59 - 97			
Heptachlor epoxide [2C]	16.5763	1.0	0.09	16.6667		99.5	59 - 97			L5
Methoxychlor	11.3702	5.0	0.18	16.6667		68.2	68 - 118			
Methoxychlor [2C]	12.4772	5.0	0.18	16.6667		74.9	68 - 118			
<i>Surrogate: Decachlorobiphenyl</i>	<i>14.73</i>			<i>16.6667</i>		<i>88.4</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [2</i>	<i>15.54</i>			<i>16.6667</i>		<i>93.2</i>	<i>32 - 91</i>			S3
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.84</i>			<i>16.6667</i>		<i>89.0</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene [</i>	<i>15.50</i>			<i>16.6667</i>		<i>93.0</i>	<i>38 - 93</i>			

Matrix Spike (B9H0102-MS1)

Source: 1902917-01

Prepared: 8/5/2019 Analyzed: 8/5/2019

4,4'-DDD	16.2450	2.0	0.07	16.6667	ND	97.5	33 - 116			
4,4'-DDD [2C]	17.3040	2.0	0.07	16.6667	ND	104	33 - 116			
4,4'-DDE	18.7713	2.0	0.11	16.6667	2.60233	97.0	29 - 128			
4,4'-DDE [2C]	20.4323	2.0	0.11	16.6667	3.35350	102	29 - 128			
4,4'-DDT	18.7065	2.0	0.10	16.6667	ND	112	27 - 109			M2
4,4'-DDT [2C]	17.8647	2.0	0.10	16.6667	ND	107	27 - 109			
Aldrin	15.7542	1.0	0.12	16.6667	ND	94.5	34 - 110			
Aldrin [2C]	17.9100	1.0	0.12	16.6667	ND	107	34 - 110			
alpha-BHC	15.1903	1.0	0.11	16.6667	ND	91.1	39 - 107			
alpha-BHC [2C]	16.3775	1.0	0.11	16.6667	ND	98.3	39 - 107			
alpha-Chlordane	16.0223	1.0	0.12	16.6667	ND	96.1	37 - 111			
alpha-Chlordane [2C]	18.9828	1.0	0.12	16.6667	ND	114	37 - 111			M2
beta-BHC	15.8087	1.0	0.06	16.6667	ND	94.9	33 - 111			
beta-BHC [2C]	17.9378	1.0	0.06	16.6667	ND	108	33 - 111			
delta-BHC	9.90133	1.0	0.12	16.6667	ND	59.4	25 - 122			
delta-BHC [2C]	11.5183	1.0	0.12	16.6667	ND	69.1	25 - 122			
Dieldrin	15.5630	2.0	0.26	16.6667	ND	93.4	28 - 114			
Dieldrin [2C]	17.0327	2.0	0.26	16.6667	ND	102	28 - 114			
Endosulfan I	14.4317	1.0	0.10	16.6667	ND	86.6	35 - 107			
Endosulfan I [2C]	16.2365	1.0	0.10	16.6667	ND	97.4	35 - 107			
Endosulfan II	16.4550	2.0	0.15	16.6667	ND	98.7	13 - 122			
Endosulfan II [2C]	17.2387	2.0	0.15	16.6667	ND	103	13 - 122			
Endosulfan sulfate	14.1433	2.0	0.16	16.6667	ND	84.9	13 - 120			
Endosulfan Sulfate [2C]	15.7558	2.0	0.16	16.6667	ND	94.5	13 - 120			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0102 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9H0102-MS1) - Continued

Source: 1902917-01

Prepared: 8/5/2019 Analyzed: 8/5/2019

Endrin	16.8818	2.0	0.14	16.6667	ND	101	31 - 121			
Endrin [2C]	18.3563	2.0	0.14	16.6667	ND	110	31 - 121			
Endrin aldehyde	15.7520	2.0	0.31	16.6667	ND	94.5	18 - 129			
Endrin aldehyde [2C]	14.7022	2.0	0.31	16.6667	ND	88.2	18 - 129			
Endrin ketone	15.2128	2.0	0.13	16.6667	ND	91.3	14 - 113			
Endrin ketone [2C]	16.6147	2.0	0.13	16.6667	ND	99.7	14 - 113			
gamma-BHC	15.8122	1.0	0.10	16.6667	ND	94.9	34 - 104			
gamma-BHC [2C]	17.2387	1.0	0.10	16.6667	ND	103	34 - 104			
gamma-Chlordane	15.7897	1.0	0.89	16.6667	ND	94.7	35 - 121			
gamma-Chlordane [2C]	20.1702	1.0	0.89	16.6667	ND	121	35 - 121			
Heptachlor	16.3752	1.0	0.12	16.6667	ND	98.3	35 - 110			
Heptachlor [2C]	17.8743	1.0	0.12	16.6667	ND	107	35 - 110			
Heptachlor epoxide	14.4847	1.0	0.09	16.6667	ND	86.9	31 - 106			
Heptachlor epoxide [2C]	17.2577	1.0	0.09	16.6667	ND	104	31 - 106			
Methoxychlor	16.3283	5.0	0.18	16.6667	ND	98.0	21 - 128			
Methoxychlor [2C]	14.9597	5.0	0.18	16.6667	ND	89.8	21 - 128			

<i>Surrogate: Decachlorobiphenyl</i>	13.33			16.6667		80.0	32 - 91			
<i>Surrogate: Decachlorobiphenyl [2</i>	14.54			16.6667		87.2	32 - 91			
<i>Surrogate: Tetrachloro-m-xylene</i>	14.24			16.6667		85.4	38 - 93			
<i>Surrogate: Tetrachloro-m-xylene [</i>	15.25			16.6667		91.5	38 - 93			

Matrix Spike Dup (B9H0102-MSD1)

Source: 1902917-01

Prepared: 8/5/2019 Analyzed: 8/5/2019

4,4'-DDD	16.8438	2.0	0.07	16.6667	ND	101	33 - 116	3.62	20	
4,4'-DDD [2C]	17.9518	2.0	0.07	16.6667	ND	108	33 - 116	3.68	20	
4,4'-DDE	18.8567	2.0	0.11	16.6667	2.60233	97.5	29 - 128	0.454	20	
4,4'-DDE [2C]	21.0862	2.0	0.11	16.6667	3.35350	106	29 - 128	3.15	20	
4,4'-DDT	16.7338	2.0	0.10	16.6667	ND	100	27 - 109	11.1	20	
4,4'-DDT [2C]	16.6325	2.0	0.10	16.6667	ND	99.8	27 - 109	7.14	20	
Aldrin	16.6148	1.0	0.12	16.6667	ND	99.7	34 - 110	5.32	20	
Aldrin [2C]	18.1978	1.0	0.12	16.6667	ND	109	34 - 110	1.59	20	
alpha-BHC	15.3537	1.0	0.11	16.6667	ND	92.1	39 - 107	1.07	20	
alpha-BHC [2C]	16.5912	1.0	0.11	16.6667	ND	99.5	39 - 107	1.30	20	
alpha-Chlordane	16.0305	1.0	0.12	16.6667	ND	96.2	37 - 111	0.0510	20	
alpha-Chlordane [2C]	19.6398	1.0	0.12	16.6667	ND	118	37 - 111	3.40	20	M2
beta-BHC	16.0410	1.0	0.06	16.6667	ND	96.2	33 - 111	1.46	20	
beta-BHC [2C]	18.0548	1.0	0.06	16.6667	ND	108	33 - 111	0.650	20	
delta-BHC	10.1102	1.0	0.12	16.6667	ND	60.7	25 - 122	2.09	20	
delta-BHC [2C]	11.6515	1.0	0.12	16.6667	ND	69.9	25 - 122	1.15	20	
Dieldrin	15.6163	2.0	0.26	16.6667	ND	93.7	28 - 114	0.342	20	
Dieldrin [2C]	17.2483	2.0	0.26	16.6667	ND	103	28 - 114	1.26	20	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9H0102 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9H0102-MSD1) - Continued

Source: 1902917-01

Prepared: 8/5/2019 Analyzed: 8/5/2019

Endosulfan I	14.4987	1.0	0.10	16.6667	ND	87.0	35 - 107	0.463	20	
Endosulfan I [2C]	16.6387	1.0	0.10	16.6667	ND	99.8	35 - 107	2.45	20	
Endosulfan II	16.5295	2.0	0.15	16.6667	ND	99.2	13 - 122	0.452	20	
Endosulfan II [2C]	17.3438	2.0	0.15	16.6667	ND	104	13 - 122	0.608	20	
Endosulfan sulfate	14.1095	2.0	0.16	16.6667	ND	84.7	13 - 120	0.239	20	
Endosulfan Sulfate [2C]	16.2345	2.0	0.16	16.6667	ND	97.4	13 - 120	2.99	20	
Endrin	16.7557	2.0	0.14	16.6667	ND	101	31 - 121	0.750	20	
Endrin [2C]	18.3802	2.0	0.14	16.6667	ND	110	31 - 121	0.130	20	
Endrin aldehyde	14.7608	2.0	0.31	16.6667	ND	88.6	18 - 129	6.50	20	
Endrin aldehyde [2C]	15.1078	2.0	0.31	16.6667	ND	90.6	18 - 129	2.72	20	
Endrin ketone	14.5150	2.0	0.13	16.6667	ND	87.1	14 - 113	4.69	20	
Endrin ketone [2C]	16.4762	2.0	0.13	16.6667	ND	98.9	14 - 113	0.837	20	
gamma-BHC	15.9832	1.0	0.10	16.6667	ND	95.9	34 - 104	1.08	20	
gamma-BHC [2C]	17.3732	1.0	0.10	16.6667	ND	104	34 - 104	0.777	20	
gamma-Chlordane	16.0947	1.0	0.89	16.6667	ND	96.6	35 - 121	1.91	20	
gamma-Chlordane [2C]	21.0358	1.0	0.89	16.6667	ND	126	35 - 121	4.20	20	M2
Heptachlor	16.4938	1.0	0.12	16.6667	ND	99.0	35 - 110	0.722	20	
Heptachlor [2C]	18.1447	1.0	0.12	16.6667	ND	109	35 - 110	1.50	20	
Heptachlor epoxide	14.7233	1.0	0.09	16.6667	ND	88.3	31 - 106	1.63	20	
Heptachlor epoxide [2C]	17.9220	1.0	0.09	16.6667	ND	108	31 - 106	3.78	20	M2
Methoxychlor	15.0353	5.0	0.18	16.6667	ND	90.2	21 - 128	8.25	20	
Methoxychlor [2C]	14.0828	5.0	0.18	16.6667	ND	84.5	21 - 128	6.04	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>13.27</i>			<i>16.6667</i>		<i>79.6</i>	<i>32 - 91</i>			
<i>Surrogate: Decachlorobiphenyl [2</i>	<i>14.79</i>			<i>16.6667</i>		<i>88.7</i>	<i>32 - 91</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.12</i>			<i>16.6667</i>		<i>84.7</i>	<i>38 - 93</i>			
<i>Surrogate: Tetrachloro-m-xylene [</i>	<i>15.24</i>			<i>16.6667</i>		<i>91.5</i>	<i>38 - 93</i>			



Certificate of Analysis

Stantec 735 E. Carnegie Drive, Suite 280 San Bernardino, CA 92408	Project Number : NWC Jurupa Ave. & Juniper Ave. Fontana Report To : Alicia Jansen Reported : 08/06/2019
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Notes and Definitions

S3 Surrogate recovery outside of laboratory acceptance limit. Unable to confirm matrix effects.

S10 Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.

M2 Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.

L5 Laboratory Control Sample high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.

ND Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)

PQL Practical Quantitation Limit

MDL Method Detection Limit

NR Not Reported

RPD Relative Percent Difference

CA2 CA-ELAP (CDPH)

OR1 OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

ATL

stantec CHAIN OF CUSTODY FORM

735 E Carnegie Dr., Suite 280, San Bernardino, CA 92408 (909)335-6116, Fax (909) 335-6120

Page 1 of 1

Client Name/Address: Stantec 735 E Carnegie Drive Suite 280 San Bernardino, CA 92408 Project Manager: Alicia Jansen Email Address: Melissa.Baernstein@stantec.com Sampler: Melissa Baernstein	Project/PO Number: NWC Juniper Ave. at Juniper Ave Fontana, CA 185803581		Phone Number: (909)335-6116 Fax Number: (909)335-6120		Analysis Required							
	Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Pesticides by 80814	Arsenic by 6010B	PCBs by 8081	Lead by 6010B	Special Instructions
HA-01-1.0 #4B	Soil	8oz glass jar	1	08/05/19	08:27	ICE	X	X	X	X		
HA-02-1.0					07:40		X	X	X	X		
HA-03-1.0					07:24		X	X	X	X		
HA-04-1.0					07:13		X	X	X	X		
HA-05-1.0					09:10		X	X	X	X		
HA-06-1.0					08:36		X	X	X	X		
HA-07-1.0					10:35		X	X	X	X		
HA-08-1.0					07:02		X	X	X	X		
HA-01-3.0					08:32		X	X	X	X		HOLD
HA-05-3.0					08:20		X	X	X	X		
HA-06-3.0					09:42		X	X	X	X		

Relinquished By: <i>Melissa Baernstein</i>	Date/Time: 08/05/19 14:00	Received By: <i>[Signature]</i>	Date/Time: 8-19-19 1400	Turnaround Time: 24 hrs
Relinquished By: <i>[Signature]</i>	Date/Time: 8-5-19 15:31	Received in Lab By: <i>[Signature]</i>	Date/Time: 8/5/19 1531	Sample Integrity: (Check) intact on ice

By relinquishing samples, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this form. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.