

PREPARED FOR:

RED TAIL ACQUISITIONS, LLC 2082 MICHAELSON DRIVE, 3RD FLOOR IRVINE, CALIFORNIA 92612

PREPARED BY:

GEOCON INCORPORATED 6960 FLANDERS DRIVE SAN DIEGO, CALIFORNIA 92121-2974







Project No. G2129-62-02A September 12, 2019

Red Tail Acquisitions, LLC 2082 Michelson Drive, 3rd Floor Irvine, California 92612

Attention:

Kim Berry

Subject:

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

408 HOLLISTER STREET SAN DIEGO, CALIFORNIA

Dear Ms. Berry:

In accordance with your request and our change order dated August 28, 2019, we have performed a limited Phase II Environmental Site Assessment (ESA) of the property at 408 Hollister Street (the Site) in San Diego, California (Figure 1). This letter report summarizes site background information, describes the scope of work for the limited Phase II ESA, and presents the findings of our assessment.

BACKGROUND

We performed a Phase I ESA of the approximate 14-acre Site and presented our findings in our *Phase* I Environmental Site Assessment Report, 408 Hollister Street, San Diego, California, dated December 6, 2017. We identified agricultural use of the Site on aerial photographs from 1949 to approximately the mid-1960's. We considered the historical agricultural use of the Site a recognized environmental condition, given the potential for persistent pesticides and arsenic (commonly used in pesticides) to be present at the Site. We recommended collecting soil samples and analyzing them for organochlorine pesticides (OCPs) and arsenic.

SCOPE OF WORK

The scope of the limited Phase II ESA consisted of the following:

- Retaining Advanced Technology Laboratories (ATL), a state-certified laboratory, to perform laboratory analysis of soil samples;
- Collecting soil samples from the locations depicted on Figure 2;
- Analyzing soil samples for the presence of OCPs and arsenic; and
- Preparing this report detailing our findings from the assessment.

Following are summaries of the field activities and laboratory analysis.

Field Activities

On August 30, 2019, we collected 24 discrete surface (depth of 0 to 6 inches) soil samples (B1-0.5' through B24-0.5') from the Site at the approximate locations depicted on Figure 2. The samples were collected using a decontaminated hand trowel and then transferred into laboratory-provided 4-ounce jars. The jars were capped with Teflon-lined lids, labeled, and placed in a chilled cooler for transport to the laboratory under chain-of-custody protocol.

Laboratory Analysis

We instructed ATL to make six, four-part composite samples from similar locations from the 24 discrete samples to be analyzed for OCPs by United States Environmental Protection Agency (US EPA) test method 8081. The laboratory retained a portion of one discrete sample from each composite sample to be analyzed for arsenic by US EPA test method 6010B. ATL analyzed the samples on a standard 5-day turnaround time.

FINDINGS

Observations

In general, the soil samples collected at the Site were dark brown to yellowish brown, silty sands. We observed no obvious signs of contamination such as odors or discoloration in the collected soil samples.

Laboratory Analysis Results

The results of the analytical testing are summarized in Table 1 and summarized below.

OCPs

Dichlorodiphenyldichloroethylene (DDE) was detected in five of the six composite samples at concentrations ranging from 2.4 to 31 micrograms per kilogram (μ g/kg), which is less than the San Francisco Bay Regional Water Control Board Environmental Screening Level (ESL) for DDE in residential soil of 1,800 μ g/kg.

Dichlorodiphenyltrichloroethane (DDT) was detected in two of the six composite samples at concentrations of 4.8 and $18 \mu g/kg$, which is less than the ESL for residential soil of 1,900 $\mu g/kg$.

Alpha-chlordane and gamma-chlordane were detected in one of the six composite samples at concentrations of 3.4 and 2.9 μ g/kg, respectively. There are no established screening levels for these chemicals.

Chlordane was detected in one of the composite samples at a concentration of 28 μ g/kg, which is less than the ESL for chlordane in residential soil of 1,700 μ g/kg.

No other OCPs were detected at concentrations exceeding the laboratory PQLs in the six composite samples. All analysis method PQLs were less than the ESLs for residential soil, where established.

Arsenic

Arsenic was detected in all six of the discrete samples analyzed at concentrations ranging from 2.3 to 4.1 milligrams per kilogram (mg/kg), which exceeds the ESL for arsenic in residential soil. Naturally occurring or "background" arsenic concentrations in California soils typically range from 0.6 to 12 mg/kg and higher depending on the mineralogy of the soil's parent material. Therefore, regulatory agencies allow comparison of arsenic concentrations in soil to naturally occurring background arsenic concentrations instead of screening levels. The reported sample concentrations are within the range of naturally occurring arsenic concentrations for soil.

CONCLUSION AND RECOMMENDATIONS

The laboratory analysis results for the soil samples collected from the Site indicate that workers and future site occupants will not be exposed to OCPs or arsenic in soil at concentrations that will be a potential threat to human health. Therefore, no further investigation of the nature and extent of OCPs and arsenic in soil at the Site appears to be warranted at this time.

LIMITATIONS

The conclusions presented in this report are based upon limited soil sampling and analysis within the scope and budget of the contract. The information presented is relevant to the dates of our site investigation and should not be relied upon to represent conditions at later dates. The opinions expressed herein are based on our experience with similar studies and information obtained during our effort. If additional information becomes available, we request the opportunity to review the information and modify our opinions, if necessary. Any reliance upon the information, conclusions, or recommendations contained in this report shall be at the sole risk of the party undertaking such use.

Our services have been conducted using the degree of care and skill ordinarily exercised, under similar circumstances, by environmental sciences consultants practicing in this or similar localities. No other warranty, express or implied, is made as to the professional opinions presented in this report. Geocon

is not responsible for the conclusions, opinions, or recommendations made by others based on this information.

The conclusions and recommendations herein are based solely on the information Geocon obtained in compiling the report. Geocon makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, express or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

We appreciate the opportunity to have performed this limited Phase II ESA. Please contact the undersigned with any comments or questions.

Very truly yours,

GEOCON INCORPORATED

Mitchell H. Wagner Staff Scientist

MHW:TKR:kcd

Attachments: Figure 1 – Vicinity Map

Figure 2 – Site Plan

Table 1 – Summary of Laboratory Analysis Results – Soil

ATL Laboratory Analytical Report and Chain-of-Custody Documentation

Senior Geologist

(e-mail) Addressee



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NO SCALE

VICINITY MAP





GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS 6960 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858 558-6900 - FAX 558-6159

MHW

408 HOLLISTER STREET SAN DIEGO, CALIFORNIA

SEPTEMBER 2019 PROJECT NO. G2129-62-02A

FIG. 1





B24-05' - APPROXIMATE LOCATION OF SOIL SAMPLE

- APPROXIMATE BOUNDARIES OF SIMILAR AREAS FOR COMPOSITE SAMPLES







NO SCALE

GEOTECHNICAL

GEOTEC

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TABLE 1 SUMMARY OF LABORATORY ANALYSIS RESULTS - SOIL ORGANOCHLORINE PESTICIDES AND ARSENIC 408 HOLLISTER STREET

SAN DIEGO, CALIFORNIA

			DI II V	Org		esticides (µg/l	kg)		Metals (mg/kg)
SAMPLE ID	SAMPLE DATE	APPROX. DEPTH (feet)	DDE	DDT	alpha-Chlordane	gamma-Chlordane	Chlordane	Other OCPs	Arsenic
Composite B1-0.5' through B4-05'	8/30/2019	0	2.3	<2.0	<1.0	<1.0	<8.5	ND	-
Composite B5-0.5' through B8-0.5'	8/30/2019	0	7.6	<2.0	<1.0	<1.0	<8.5	ND	-
Composite B9-0.5' through B12-0.5'	8/30/2019	0	31	18	3.4	2.9	28	ND	-
Composite B13-0.5' through B16-0.5'	8/30/2019	0	2.4	<2.0	<1.0	<1.0	<8.5	ND	-
Composite B17-0.5' through B20-0.5'	8/30/2019	0	<2.0	<2.0	<1.0	<1.0	<8.5	ND	-
Composite B21-0.5' through B24-0.5'	8/30/2019	0	4.9	4.8	<1.0	<1.0	<8.5	ND	-
B2-0.5'	8/30/2019	0	-	-	-	-	-	-	2.8
B6-0.5'	8/30/2019	0	-	-	-	-	-	-	2.3
B10-0.5'	8/30/2019	0	-	-	-	-	-	-	4.1
B14-0.5'	8/30/2019	0	-	-	-	-	-	-	3.1
B18-0.5'	8/30/2019	0	-	-	-	-	-	-	2.5
B22-0.5'	8/30/2019	0	-			-	-	-	3.0
SFBRWQCB ESLs for l	Residenital Soi	il	1,800	1,900	-	-	480	-	0.067
US EPA RSLs for Resid	lential Soil		2,000	1,900	-	-	1,700	-	0.68
Upper-end Estimates of	Regional Back	ground Levels	NA	NA	NA	NA	NA	NA	12 ⁽¹⁾

Notes:

mg/kg = milligrams per kilogram

 $\mu g/kg \ = micrograms \ per \ kilogram$

< = less than the method detection limit

- = not available

ND = not detected at or above the laboratory detection limit

SFBRWQCB ESLs for Residenital Soil = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels, January 2019

 $US\ EPA\ RSLs\ = United\ States\ Environmental\ Protection\ Agency's\ Regional\ Screening\ Levels,\ April\ 2019$

^{(1) =} Based upon the report prepared by the Department of Toxic Substance Control titled Determination of a Southern California Regional Background Arsenic Concentration in Soil, dated March 2008



September 11, 2019

Mitchell Wagner Geocon, Inc.

6960 Flanders Drive San Diego, CA 92121 Tel: (858) 558-6900

Fax:(858) 558-8437

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

RE: ATL Work Order Number : 1903237

Client Reference : 408 Hollister Street, G2129-62-02A

Enclosed are the results for sample(s) received on August, 30 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,

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.



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B2-0.5'	1903237-02	Soil	8/30/19 9:05	8/30/19 12:28
B6-0.5'	1903237-06	Soil	8/30/19 9:25	8/30/19 12:28
B10-0.5'	1903237-10	Soil	8/30/19 9:45	8/30/19 12:28
B14-0.5'	1903237-14	Soil	8/30/19 10:05	8/30/19 12:28
B18-0.5'	1903237-18	Soil	8/30/19 10:25	8/30/19 12:28
B22-0.5'	1903237-22	Soil	8/30/19 10:45	8/30/19 12:28
Composite B1-0.5' to B4-0.5'	1903237-25	Soil	8/30/19 0:00	8/30/19 12:28
Composite B5-0.5' to B8-0.5'	1903237-26	Soil	8/30/19 0:00	8/30/19 12:28
Composite B9-0.5' to B12-0.5'	1903237-27	Soil	8/30/19 0:00	8/30/19 12:28
Composite B13-0.5' to B16-0.5'	1903237-28	Soil	8/30/19 0:00	8/30/19 12:28
Composite B17-0.5' to B20-0.5'	1903237-29	Soil	8/30/19 0:00	8/30/19 12:28
Composite B21-0.5' to B24-0.5'	1903237-30	Soil	8/30/19 0:00	8/30/19 12:28



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B2-0.5' Lab ID: 1903237-02

Total Metals by ICP-AES EPA 6010B

Analyte Arsenic	(mg/kg)	(mg/kg)	Dilution	Batch B9I0130	Prepared 09/05/2019	Analyzed 09/06/19 16:10	Notes
	Result	PQL				Date/Time	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B6-0.5' Lab ID: 1903237-06

Total Metals by ICP-AES EPA 6010B

	Result	PQL				Date/Time	
Analyte	(mg/kg)	(mg/kg)	Dilution	Batch	Prepared	Analyzed	Notes
Arsenic	2.3	1.0	1	B9I0130	09/05/2019	09/06/19 16:13	



Geocon, Inc.

Certificate of Analysis

Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B10-0.5' Lab ID: 1903237-10

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	1	B9I0130	09/05/2019	09/06/19 16:15	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B14-0.5' Lab ID: 1903237-14

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.1	1.0	1	B9I0130	09/05/2019	09/06/19 16:16	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B18-0.5' Lab ID: 1903237-18

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.5	1.0	1	B9I0130	09/05/2019	09/06/19 16:17	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID B22-0.5' Lab ID: 1903237-22

Total Metals by ICP-AES EPA 6010B

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.0	1.0	1	B9I0130	09/05/2019	09/06/19 16:18	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B1-0.5' to B4-0.5' Lab ID: 1903237-25

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4′-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
4,4´-DDE	2.3	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
4,4′-DDT	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
alpha-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Chlordane	ND	8.5	1	B9I0146	09/05/2019	09/05/19 14:45	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:45	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
gamma-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 14:45	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 14:45	
Surrogate: Decachlorobiphenyl	64.3 %	32 - 91		B9I0146	09/05/2019	09/05/19 14:45	
Surrogate: Tetrachloro-m-xylene	59.2 %	38 - 93		B9I0146	09/05/2019	09/05/19 14:45	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B5-0.5' to B8-0.5' Lab ID: 1903237-26

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
4,4′-DDE	7.6	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
4,4´-DDT	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
alpha-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Chlordane	ND	8.5	1	B9I0146	09/05/2019	09/05/19 14:55	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 14:55	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
gamma-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 14:55	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 14:55	
Surrogate: Decachlorobiphenyl	66.7 %	32 - 91		B9I0146	09/05/2019	09/05/19 14:55	
Surrogate: Tetrachloro-m-xylene	318 %	38 - 93		B9I0146	09/05/2019	09/05/19 14:55	S10



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B9-0.5' to B12-0.5' Lab ID: 1903237-27

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
4,4'-DDE	31	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
4,4'-DDT	18	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
alpha-Chlordane [2C]	3.4	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Chlordane [2C]	28	8.5	1	B9I0146	09/05/2019	09/05/19 15:06	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:06	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
gamma-Chlordane [2C]	2.9	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 15:06	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 15:06	
Surrogate: Decachlorobiphenyl	72.3 %	32 - 91		B9I0146	09/05/2019	09/05/19 15:06	
Surrogate: Tetrachloro-m-xylene	64.7 %	38 - 93		B9I0146	09/05/2019	09/05/19 15:06	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B13-0.5' to B16-0.5' Lab ID: 1903237-28

Organochlorine Pesticides by EPA 8081

							7 mary st. DE
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
4,4'-DDE	2.4	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
4,4′-DDT	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
alpha-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Chlordane	ND	8.5	1	B9I0146	09/05/2019	09/05/19 15:16	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:16	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
gamma-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 15:16	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 15:16	
Surrogate: Decachlorobiphenyl	63.6 %	32 - 91		B9I0146	09/05/2019	09/05/19 15:16	
Surrogate: Tetrachloro-m-xylene	58.4 %	38 - 93		B9I0146	09/05/2019	09/05/19 15:16	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B17-0.5' to B20-0.5' Lab ID: 1903237-29

Organochlorine Pesticides by EPA 8081

organicemornic restrettes by r							Analyst. D
Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
4,4′-DDE	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
4,4′-DDT	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
alpha-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Chlordane	ND	8.5	1	B9I0146	09/05/2019	09/05/19 15:27	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:27	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
gamma-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 15:27	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 15:27	
Surrogate: Decachlorobiphenyl	74.0 %	32 - 91		B9I0146	09/05/2019	09/05/19 15:27	
Surrogate: Tetrachloro-m-xylene	60.3 %	38 - 93		B9I0146	09/05/2019	09/05/19 15:27	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Client Sample ID Composite B21-0.5' to B24-0.5' Lab ID: 1903237-30

Organochlorine Pesticides by EPA 8081

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Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
4,4´-DDE	4.9	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
4,4´-DDT	4.8	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Aldrin	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
alpha-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
alpha-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
beta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Chlordane	ND	8.5	1	B9I0146	09/05/2019	09/05/19 15:38	
delta-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Dieldrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endosulfan I	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endosulfan II	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endosulfan sulfate	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endrin	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endrin aldehyde	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Endrin ketone	ND	2.0	1	B9I0146	09/05/2019	09/05/19 15:38	
gamma-BHC	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
gamma-Chlordane	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Heptachlor	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Heptachlor epoxide	ND	1.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Methoxychlor	ND	5.0	1	B9I0146	09/05/2019	09/05/19 15:38	
Toxaphene	ND	50	1	B9I0146	09/05/2019	09/05/19 15:38	
Surrogate: Decachlorobiphenyl	66.7 %	32 - 91		B9I0146	09/05/2019	09/05/19 15:38	
Surrogate: Tetrachloro-m-xylene	61.2 %	38 - 93		B9I0146	09/05/2019	09/05/19 15:38	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

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 B9I0130 - EPA 3050B_S										
Blank (B9I0130-BLK1)					Prepared:	9/5/2019 An	alyzed: 9/6/201	9		
Arsenic	ND	1.0	0.12							
LCS (B9I0130-BS1)					Prepared:	9/5/2019 An	alyzed: 9/6/201	9		
Arsenic	45.9028	1.0	0.12	50.0000		91.8	80 - 120			
Matrix Spike (B9I0130-MS1)		So	urce: 190323	7-02	Prepared:	9/5/2019 An	alyzed: 9/6/201	9		
Arsenic	96.5025	1.0	0.12	125.000	2.77059	75.0	46 - 97			
Matrix Spike Dup (B9I0130-MSD1)		So	urce: 190323	7-02	Prepared:	9/5/2019 An	alyzed: 9/6/201	9		
Arsenic	94.6542	1.0	0.12	125.000	2.77059	73.5	46 - 97	1.93	20	



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner
San Diego, CA 92121 Reported: 09/11/2019

Organochlorine Pesticides by EPA 8081 - Quality Control

	Result	PQL	MDL	Spike	Source		% Rec		RPD		
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes	1

Batch B9I0146 - GCSEMI_PCB/PEST_S

Blank (B9I0146-BLK1)			
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
Methoxychlor	ND	5.0	0.18

Prepared: 9/5/2019 Analyzed: 9/5/2019



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner

San Diego , CA 92121 Reported: 09/11/2019

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

	Result	PQL	MDL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
A L DOIOLAG COCCDAT DOD	DECE C									
Batch B9I0146 - GCSEMI_PCB/	PEST_S (coi	itinued)								
Blank (B9I0146-BLK1) - Continued					Prepared	d: 9/5/2019 A	nalyzed: 9/5/20	19		
Methoxychlor [2C]	ND	5.0	0.18							
Гохарһепе	ND	50	4.7							
Гохарhene [2C]	ND	50	4.7							
Surrogate: Decachlorobiphenyl	14.64			16.6667		87.8	32 - 91			
Surrogate: Decachlorobiphenyl [2	14.76			16.6667		88.6	32 - 91			
Surrogate: Tetrachloro-m-xylene	13.76			16.6667		82.6	38 - 93			
Surrogate: Tetrachloro-m-xylene [13.38			16.6667		80.3	38 - 93			
LCS (B9I0146-BS1)					Prepared	d: 9/5/2019 A	nalyzed: 9/5/20	019		
,4′-DDD	19.6245	2.0	0.07	16.6667		118	66 - 112			L3
1,4′-DDD [2C]	18.0925	2.0	0.07	16.6667		109	66 - 112			
1,4′-DDE	18.8708	2.0	0.11	16.6667		113	62 - 112			L3
,, ' ,,4´-DDE [2C]	17.7963	2.0	0.11	16.6667		107	62 - 112			
I,4'-DDT	21.0085	2.0	0.10	16.6667		126	48 - 90			L3
,4'-DDT [2C]	20.3875	2.0	0.10	16.6667		122	48 - 90			L3
Aldrin	17.1402	1.0	0.12	16.6667		103	58 - 104			
Aldrin [2C]	16.1652	1.0	0.12	16.6667		97.0	58 - 104			
lpha-BHC	16.4975	1.0	0.11	16.6667		99.0	57 - 105			
lpha-BHC [2C]	15.9490	1.0	0.11	16.6667		95.7	57 - 105			
lpha-Chlordane	16.4808	1.0	0.12	16.6667		98.9	62 - 108			
lpha-Chlordane [2C]	16.6938	1.0	0.12	16.6667		100	62 - 108			
peta-BHC	17.6252	1.0	0.06	16.6667		106	59 - 106			
peta-BHC [2C]	16.6622	1.0	0.06	16.6667		100	59 - 106			
lelta-BHC	12.8453	1.0	0.12	16.6667		77.1	63 - 115			
lelta-BHC [2C]	12.3493	1.0	0.12	16.6667		74.1	63 - 115			
Dieldrin	16.9142	2.0	0.26	16.6667		101	59 - 102			
Dieldrin [2C]	16.7202	2.0	0.26	16.6667		100	59 - 102			
Endosulfan I	14.0468	1.0	0.10	16.6667		84.3	61 - 99			
Endosulfan I [2C]	14.5635	1.0	0.10	16.6667		87.4	61 - 99			
Endosulfan II	17.4985	2.0	0.15	16.6667		105	65 - 105			
Endosulfan II [2C]	17.1880	2.0	0.15	16.6667		103	65 - 105			
Endosulfan sulfate	15.9342	2.0	0.16	16.6667		95.6	59 - 107			
Endosulfan Sulfate [2C]	16.1395	2.0	0.16	16.6667		96.8	59 - 107			
Endrin	18.3603	2.0	0.14	16.6667		110	65 - 113			
Endrin [2C]	18.1658	2.0	0.14	16.6667		109	65 - 113			
Endrin aldehyde	17.8650	2.0	0.31	16.6667		107	61 - 109			
Endrin aldehyde [2C]	17.4085	2.0	0.31	16.6667		104	61 - 109			
Endrin ketone	17.9085	2.0	0.13	16.6667		107	56 - 97			L3
Endrin ketone [2C]	18.2808	2.0	0.13	16.6667		110	56 - 97			L3
amma-BHC	17.7960	1.0	0.10	16.6667		107	57 - 101			L3
amma-BHC [2C]	16.9783	1.0	0.10	16.6667		102	57 - 101			L3



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner

San Diego , CA 92121 Reported: 09/11/2019

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

	Result	PQL	MDL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Dotah DOIO146 CCCEMI DCD	DECT C.									
Batch B9I0146 - GCSEMI_PCB/	resi_8 (coi	ntinued)								
LCS (B9I0146-BS1) - Continued					Prepared	: 9/5/2019 A	nalyzed: 9/5/20	19		
gamma-Chlordane	17.7485	1.0	0.89	16.6667		106	56 - 125			
gamma-Chlordane [2C]	16.3293	1.0	0.89	16.6667		98.0	56 - 125			
Heptachlor	18.5577	1.0	0.12	16.6667		111	61 - 105			L3
Heptachlor [2C]	16.8693	1.0	0.12	16.6667		101	61 - 105			
Heptachlor epoxide	16.8922	1.0	0.09	16.6667		101	59 - 97			L3
Heptachlor epoxide [2C]	15.4975	1.0	0.09	16.6667		93.0	59 - 97			
Methoxychlor	21.3948	5.0	0.18	16.6667		128	68 - 118			L3
Methoxychlor [2C]	21.6657	5.0	0.18	16.6667		130	68 - 118			L3
Surrogate: Decachlorobiphenyl	16.47			16.6667		98.8	32 - 91			S10, S3
Surrogate: Decachlorobiphenyl [2	16.37			16.6667		98.2	32 - 91			S10, S3
Surrogate: Tetrachloro-m-xylene	14.64			16.6667		87.9	38 - 93			
Surrogate: Tetrachloro-m-xylene [14.93			16.6667		89.6	38 - 93			
Matrix Spike (B9I0146-MS1)		Se	ource: 19032	37-25	Prepared	: 9/5/2019 A	nalyzed: 9/5/20	19		
1,4′-DDD	13.3605	2.0	0.07	16.6667	ND	80.2	33 - 116			
4,4′-DDD [2C]	12.5897	2.0	0.07	16.6667	ND	75.5	33 - 116			
1,4′-DDE	14.8352	2.0	0.11	16.6667	2.32417	75.1	29 - 128			
4,4′-DDE [2C]	14.0578	2.0	0.11	16.6667	1.81417	73.5	29 - 128			
4,4′-DDT	17.2905	2.0	0.10	16.6667	ND	104	27 - 109			
4,4′-DDT [2C]	16.5355	2.0	0.10	16.6667	ND	99.2	27 - 109			
Aldrin	10.7040	1.0	0.12	16.6667	ND	64.2	34 - 110			
Aldrin [2C]	10.9562	1.0	0.12	16.6667	ND	65.7	34 - 110			
alpha-BHC	11.9552	1.0	0.11	16.6667	ND	71.7	39 - 107			
alpha-BHC [2C]	11.6763	1.0	0.11	16.6667	ND	70.1	39 - 107			
alpha-Chlordane	11.4817	1.0	0.12	16.6667	ND	68.9	37 - 111			
alpha-Chlordane [2C]	11.1377	1.0	0.12	16.6667	ND	66.8	37 - 111			
beta-BHC	11.9523	1.0	0.06	16.6667	ND	71.7	33 - 111			
beta-BHC [2C]	11.9083	1.0	0.06	16.6667	ND	71.4	33 - 111			
delta-BHC	11.6800	1.0	0.12	16.6667	ND	70.1	25 - 122			
delta-BHC [2C]	11.5088	1.0	0.12	16.6667	ND	69.1	25 - 122			
Dieldrin	11.1162	2.0	0.26	16.6667	ND	66.7	28 - 114			
Dieldrin [2C]	11.6893	2.0	0.26	16.6667	ND	70.1	28 - 114			
Endosulfan I	9.84983	1.0	0.10	16.6667	ND	59.1	35 - 107			
Endosulfan I [2C]	10.1125	1.0	0.10	16.6667	ND	60.7	35 - 107			
Endosulfan II	12.5858	2.0	0.15	16.6667	ND	75.5	13 - 122			
Endosulfan II [2C]	13.2525	2.0	0.15	16.6667	ND	79.5	13 - 122			
Endosulfan sulfate	11.7557	2.0	0.16	16.6667	ND	70.5	13 - 120			
Endosulfan Sulfate [2C]	12.2707	2.0	0.16	16.6667	ND	73.6	13 - 120			
Endrin	12.2877	2.0	0.14	16.6667	ND	73.7	31 - 121			
Endrin [2C]	12.4167	2.0	0.14	16.6667	ND	74.5	31 - 121			
Endrin aldehyde	11.8822	2.0	0.31	16.6667	ND	71.3	18 - 129			



Analyte

alpha-Chlordane

beta-BHC [2C]

delta-BHC [2C]

Dieldrin [2C]

Endosulfan I

Endosulfan II

Endosulfan I [2C]

Endosulfan II [2C]

beta-BHC

delta-BHC

Dieldrin

alpha-Chlordane [2C]

Certificate of Analysis

Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

MDL

(ug/kg)

6960 Flanders Drive Report To: Mitchell Wagner

San Diego , CA 92121 Reported: 09/11/2019

PQL

(ug/kg)

Result

(ug/kg)

10.9275

10.4633

11.0780

10.5810

11.1392

10.6618

10.0300

10.2213

9.87017

9.72033

11.3975

11.4790

1.0

1.0

1.0

1.0

1.0

1.0

2.0

2.0

1.0

1.0

2.0

2.0

0.12

0.12

0.06

0.06

0.12

0.12

0.26

0.26

0.10

0.10

0.15

0.15

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

Spike

Level

Source

Result

% Rec

Batch B9I0146 - GCSEMI_PCB	/PEST_S (con	tinued)								
Matrix Spike (B9I0146-MS1) - Con	tinued	;	Source: 1903	237-25	Prepared	: 9/5/2019 A	Analyzed: 9/5/20	19		
Endrin aldehyde [2C]	11.3123	2.0	0.31	16.6667	ND	67.9	18 - 129			
Endrin ketone	12.5343	2.0	0.13	16.6667	ND	75.2	14 - 113			
Endrin ketone [2C]	13.0808	2.0	0.13	16.6667	ND	78.5	14 - 113			
gamma-BHC	13.8198	1.0	0.10	16.6667	ND	82.9	34 - 104			
gamma-BHC [2C]	12.6168	1.0	0.10	16.6667	ND	75.7	34 - 104			
gamma-Chlordane	12.1468	1.0	0.89	16.6667	ND	72.9	35 - 121			
gamma-Chlordane [2C]	11.6598	1.0	0.89	16.6667	ND	70.0	35 - 121			
Heptachlor	16.3617	1.0	0.12	16.6667	ND	98.2	35 - 110			
Heptachlor [2C]	12.6428	1.0	0.12	16.6667	ND	75.9	35 - 110			
Heptachlor epoxide	12.6192	1.0	0.09	16.6667	ND	75.7	31 - 106			
Heptachlor epoxide [2C]	12.2688	1.0	0.09	16.6667	ND	73.6	31 - 106			
Methoxychlor	16.7273	5.0	0.18	16.6667	ND	100	21 - 128			
Methoxychlor [2C]	16.2012	5.0	0.18	16.6667	ND	97.2	21 - 128			
Surrogate: Decachlorobiphenyl	12.56			16.6667		75.3	32 - 91			
Surrogate: Decachlorobiphenyl [2	14.19			16.6667		85.2	32 - 91			
Surrogate: Tetrachloro-m-xylene	12.34			16.6667		74.0	38 - 93			
Surrogate: Tetrachloro-m-xylene [11.16			16.6667		67.0	38 - 93			
Matrix Spike Dup (B9I0146-MSD1))	!	Source: 1903	237-25	Prepared	: 9/5/2019 A	Analyzed: 9/5/20	19		
4,4′-DDD	12.3193	2.0	0.07	16.6667	ND	73.9	33 - 116	8.11	20	
4,4′-DDD [2C]	11.3045	2.0	0.07	16.6667	ND	67.8	33 - 116	10.8	20	
4,4′-DDE	13.3582	2.0	0.11	16.6667	2.32417	66.2	29 - 128	10.5	20	
4,4'-DDE [2C]	13.0900	2.0	0.11	16.6667	1.81417	67.7	29 - 128	7.13	20	
4,4'-DDT	14.9958	2.0	0.10	16.6667	ND	90.0	27 - 109	14.2	20	
4,4'-DDT [2C]	14.4627	2.0	0.10	16.6667	ND	86.8	27 - 109	13.4	20	
Aldrin	10.0833	1.0	0.12	16.6667	ND	60.5	34 - 110	5.97	20	
Aldrin [2C]	9.95550	1.0	0.12	16.6667	ND	59.7	34 - 110	9.57	20	
alpha-BHC	11.0593	1.0	0.11	16.6667	ND	66.4	39 - 107	7.79	20	
alpha-BHC [2C]	10.8988	1.0	0.11	16.6667	ND	65.4	39 - 107	6.89	20	

RPD

Limit

Notes

RPD

% Rec

Limits

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Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner

San Diego , CA 92121 Reported: 09/11/2019

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

	Result	PQL	MDL	Spike	Source		% Rec		RPD	
Analyte	(ug/kg)	(ug/kg)	(ug/kg)	Level	Result	% Rec	Limits	RPD	Limit	Notes
Batch B9I0146 - GCSEMI_PCB	PEST_S (con	tinued)								
Matrix Spike Dup (B9I0146-MSD1)	- Continued	Se	ource: 19032	37-25	Prepare	d: 9/5/2019 A	nalyzed: 9/5/20	19		
Endosulfan sulfate	10.9633	2.0	0.16	16.6667	ND	65.8	13 - 120	6.98	20	
Endosulfan Sulfate [2C]	10.6087	2.0	0.16	16.6667	ND	63.7	13 - 120	14.5	20	
Endrin	12.4688	2.0	0.14	16.6667	ND	74.8	31 - 121	1.46	20	
Endrin [2C]	12.0518	2.0	0.14	16.6667	ND	72.3	31 - 121	2.98	20	
Endrin aldehyde	10.1227	2.0	0.31	16.6667	ND	60.7	18 - 129	16.0	20	
Endrin aldehyde [2C]	9.95800	2.0	0.31	16.6667	ND	59.7	18 - 129	12.7	20	
Endrin ketone	10.9555	2.0	0.13	16.6667	ND	65.7	14 - 113	13.4	20	
Endrin ketone [2C]	11.4667	2.0	0.13	16.6667	ND	68.8	14 - 113	13.2	20	
gamma-BHC	12.9223	1.0	0.10	16.6667	ND	77.5	34 - 104	6.71	20	
gamma-BHC [2C]	11.7300	1.0	0.10	16.6667	ND	70.4	34 - 104	7.28	20	
gamma-Chlordane	11.2795	1.0	0.89	16.6667	ND	67.7	35 - 121	7.40	20	
gamma-Chlordane [2C]	11.3445	1.0	0.89	16.6667	ND	68.1	35 - 121	2.74	20	
Heptachlor	15.7963	1.0	0.12	16.6667	ND	94.8	35 - 110	3.52	20	
Heptachlor [2C]	11.2475	1.0	0.12	16.6667	ND	67.5	35 - 110	11.7	20	
Heptachlor epoxide	11.8130	1.0	0.09	16.6667	ND	70.9	31 - 106	6.60	20	
Heptachlor epoxide [2C]	11.6443	1.0	0.09	16.6667	ND	69.9	31 - 106	5.22	20	
Methoxychlor	14.8708	5.0	0.18	16.6667	ND	89.2	21 - 128	11.8	20	
Methoxychlor [2C]	14.3793	5.0	0.18	16.6667	ND	86.3	21 - 128	11.9	20	
Surrogate: Decachlorobiphenyl	12.17			16.6667		73.0	32 - 91			
Surrogate: Decachlorobiphenyl [2	12.62			16.6667		75.7	32 - 91			
Surrogate: Tetrachloro-m-xylene	11.29			16.6667		67.7	38 - 93			
Surrogate: Tetrachloro-m-xylene [10.30			16.6667		61.8	38 - 93			



Geocon, Inc. Project Number: 408 Hollister Street, G2129-62-02A

6960 Flanders Drive Report To: Mitchell Wagner

San Diego , CA 92121 Reported: 09/11/2019

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.

L3 Laboratory control sample outside in-house established limits but within method criteria.

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.



CHAIN OF CUSTODY RECORD Page 1 of 3

	For Laboratory Use	Only		ATLCOC Ver:201	804	15
*4-*bl(T	Samp	le Con	ditto	ns Upon Receipt		
Method of Transport	Condition	Υ	N	Condition	Y	N
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☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		Ø
[] G5O	3. CONTAINER INTACT	Z		7. COOLER TEMP, deg C:	<	7,
☐ Other:	4. SSALED		Ω/	galoculul naannoide kiisin tähäänää täväinen kannissa tuossa vanoinen on	ren - nes	00784-172

Printed Name

Signature

3275 Walnut Ave., Signal Hill, CA 90755

•	Tel: (!	562) 989-4045 🛭 1	Fax: (562) 989-4040		<u>Instru</u>	<u>ction</u> : Comp	lete all s	haded	areas.		L	Other:		4. SEA	LED	NAME OF TAXABLE PARTY.	D 92			minoral violente conference]
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CHAIN OF CUSTODY RECORD
Page 2 of 3

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LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755 Tel: (562) 989-4045 • Fax: (562) 989-4040

Instruction: Complete all shaded areas.

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or owners.	2. Samp 3. The f	Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM. The following turnaround time conditions apply: TAT = 0:300% Surcharge SAME BUSINESS DAY (Freceived by 9:00 AM TAT = 1:100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM) TAT = 2:50% Surcharge 3RD BUSINESS DAY (COB 5:00 PM) TAT = 3:30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM) TAT = 4:20% Surcharge 3RD BUSINESS DAY (COB 5:00 PM) TAT = 5:NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM) TAT = 5:NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM) Subcontract TAT (fill 0 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective					es will be dispose of after 14 calend totalned for five () be disposed of a less: sples: Complime ole/month if extended store a less total en les total en les total en less total en les total en les total en les total en les total en less total en les total	ab ask for quote. will be disposed of after 45 calendar days from receipt of samples; air samples steed of after 45 calendar days from receipt of samples; air samples steed of Spears from report date. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal de of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will incur a disposal fee of S7 per sample. 11. Unanalyzed samples will inc												to additional le used.								
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CHAIN OF CUSTODY RECORD Page 3 of 3

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		TAT = 2:50% Surcharge 2ND BUSH TAT = 3:30% Surcharge 3RD BUSH	NESS DAY (COB 5:00 PM)	9. Storage a	nd Report Fees: Id & solid samples:						from rece	lpt of	perfor	m MS/MSD on	your sam	npie, a ch	arge will be	assessed	for the sp	seine sample	e usea.		
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