



Project No. T2765-77-03
October 4, 2018

The Rancon Group, Inc.
41391 Kalmia Street, Suite 200
Murrieta, California 92562

Attention: Mr. Jim Lytle

Subject: LIMITED SOIL ASSESSMENT
BRIGGS & 74 PROPERTY
NORTHWEST OF HIGHWAY 74 AND BRIGGS ROAD
MENIFEE, CALIFORNIA

Dear Mr. Lytle:

In accordance with your request and our Work Order Authorization dated September 11, 2018, we have performed a limited assessment of soil on Briggs & 74 (the Site), a 4-acre parcel of former agricultural land located northwest of the intersection of Highway 74 and Briggs Road in Menifee, California (Figure 1). This letter report presents the findings of the assessment.

BACKGROUND

The Site and surrounding agricultural properties appear to have been historically dry-farmed, and pesticides may have been applied to the Site. As a result, persistent pesticides such as organochlorine pesticides (OCPs) and arsenic (commonly used in pesticides) may be present in soil. Given the planned residential redevelopment of the Site and in response to recommendations made by SCS Engineers in their *Third-Party Report Review, PP2017-225: Harvest Glen Marketplace, Northwest Corner of Briggs Road and Highway 74, Menifee, California 92548* dated May 18, 2018, Dan Long with The Rancon Group, Inc. requested that soil on the Site be assessed for the potential presence of OCPs and arsenic.

SCOPE OF WORK

The scope of work consisted of the following:

- Soil sample collection in general accordance with the California Department of Toxic Substances Control (DTSC) *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, dated August 2008;

- Laboratory analysis of soil samples for OCPs and arsenic; and
- Preparing this report presenting the results of the assessment.

SOIL SAMPLING

Based on the assumptions that the property had been previously dry-farmed and that farming was not ongoing, the DTSC protocol recommends collection of one sample from each quadrant of the Site and analysis for OCPs and arsenic. On September 12, 2018, we collected five discrete soil samples (PS-1 through PS-5) at the Site from a depth of approximately 3 to 6 inches. Approximate sample locations are shown on Figure 2. The samples were collected using a clean hand auger then transferred into 8-ounce glass 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.

LABORATORY ANALYSIS

Advanced Technology Laboratories (ATL), a State-certified laboratory located in Signal Hill, California, analyzed the soil samples for OCPs using United States Environmental Protection Agency (USEPA) Method 8081A and metals using USEPA Methods 6010B and 7471A.

RESULTS

OCPs

As shown on Table 1, the OCPs 4,4'-DDE, 4,4'-DDT, and delta-BHC were detected in one or more of the soil samples collected from the Site. 4,4'-DDE was detected in four soil samples at concentrations ranging from 4.9 to 14 micrograms per kilogram ($\mu\text{g}/\text{kg}$). 4,4'-DDT was detected in one soil sample at a concentration of 5.3 $\mu\text{g}/\text{kg}$. Delta-BHC was detected in three soil samples at concentrations ranging from 1.5 to 31 $\mu\text{g}/\text{kg}$. All of the reported OCP concentrations were orders of magnitude less than their respective USEPA Regional Screening Levels (RSL) (updated May 2018) for soil in a residential use scenario. There is no established RSL for delta-BHC. No other OCPs were detected at concentrations exceeding their respective laboratory practical quantitation limits (PQLs). Additionally, all PQLs were less than the RSLs.

Metals

As shown on Table 1, several metals including barium, chromium, cobalt, copper, lead, nickel, vanadium, and zinc were detected in each soil sample. None of the reported metals concentrations exceed residential RSLs.

Arsenic was not detected at concentrations exceeding the laboratory PQL of 1.0 milligrams per kilogram (mg/kg) in the five soil samples collected from the Site. Arsenic, like several metals, is a natural mineralogical component of soil and its naturally occurring or “background” concentrations in California soils typically range from 0.6 to 12 mg/kg and much higher in some areas depending on the mineralogy of the soil’s parent rock. Therefore, regulatory agencies typically allow comparison of arsenic concentrations in soil to naturally occurring background arsenic concentrations instead of calculated screening levels. The laboratory PQL for arsenic was within the lower end of the range of naturally occurring (background) arsenic concentrations for southern California soil of up to 12 mg/kg.

A copy of the laboratory analytical report is attached.

CONCLUSION AND RECOMMENDATIONS

OCPs were not detected in any of the soil samples collected from the Site at concentrations exceeding their respective RSLs. Arsenic was not detected in any of the soil samples collected from the Site at concentrations exceeding the PQL. All PQLs were less than the applicable residential screening levels or, with respect to arsenic, within the lower end of the range of naturally occurring (background) arsenic concentrations for soil in southern California of up to 12 mg/kg.

These findings suggest that workers and future site residents will not be exposed to OCPs or arsenic at concentrations that will be a potential threat to human health. Therefore, no further investigation of the nature and extent of OCPs or arsenic in soil at the Site appears to be warranted.

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 soil sampling and analysis. Please contact the undersigned with any comments or questions.


Very truly yours,

GEOCON INCORPORATED

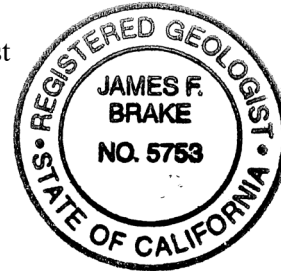


Brett G. Conner, CEG
Senior Geologist

BGC:JB:cam

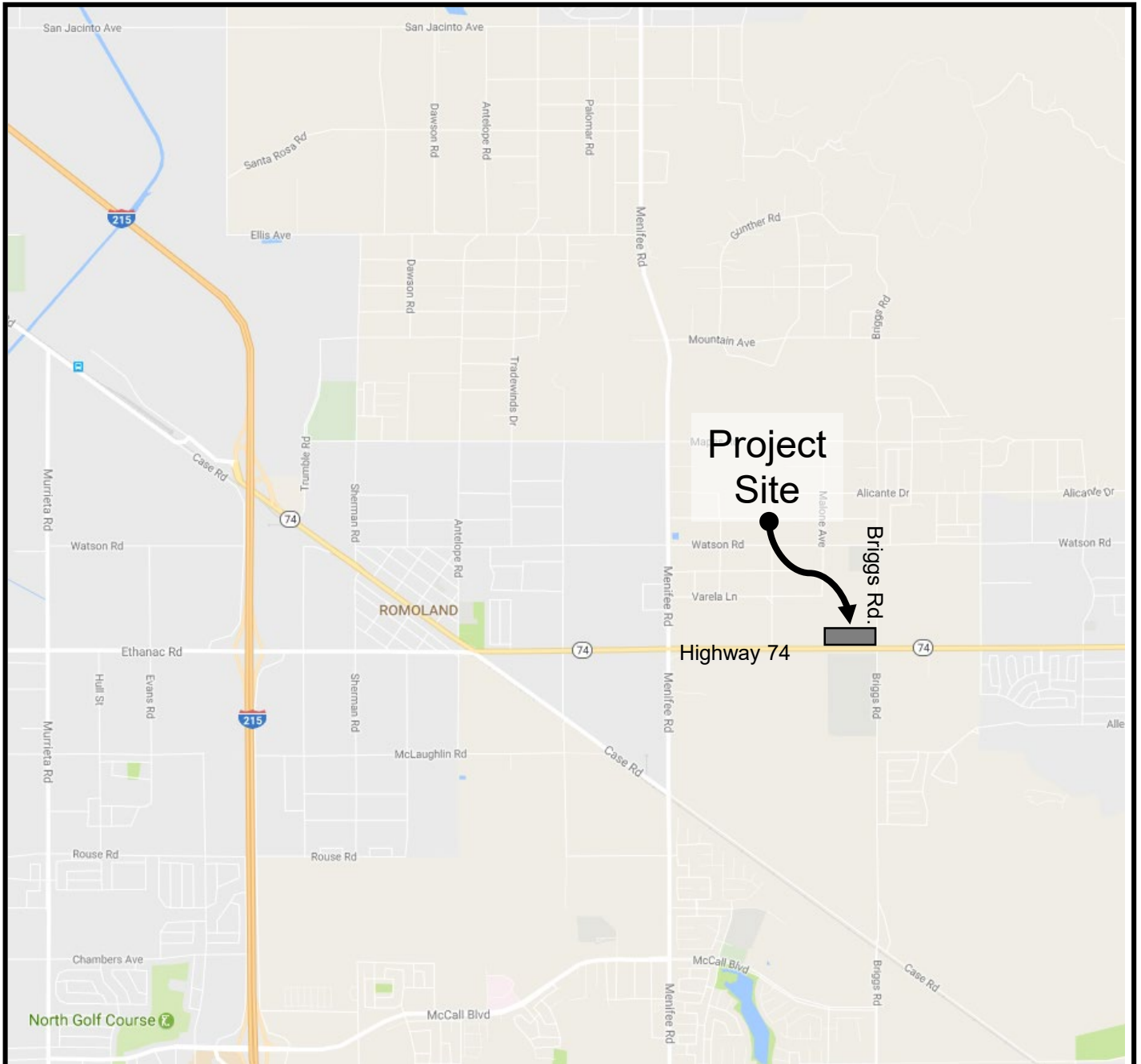


Jim Brake, PG
Senior Geologist



Attachments: Figure 1 Vicinity Map
Figure 2 Sample Location Plan
Table 1 Summary of Soil Analytical Results – Pesticides & Metals
Laboratory Reports and Chain-of-Custody Documentation

(e-mail) Addressee



NOT TO SCALE



SOURCE: Google Maps, 2017

VICINITY MAP

GEOCON
WEST, INC.

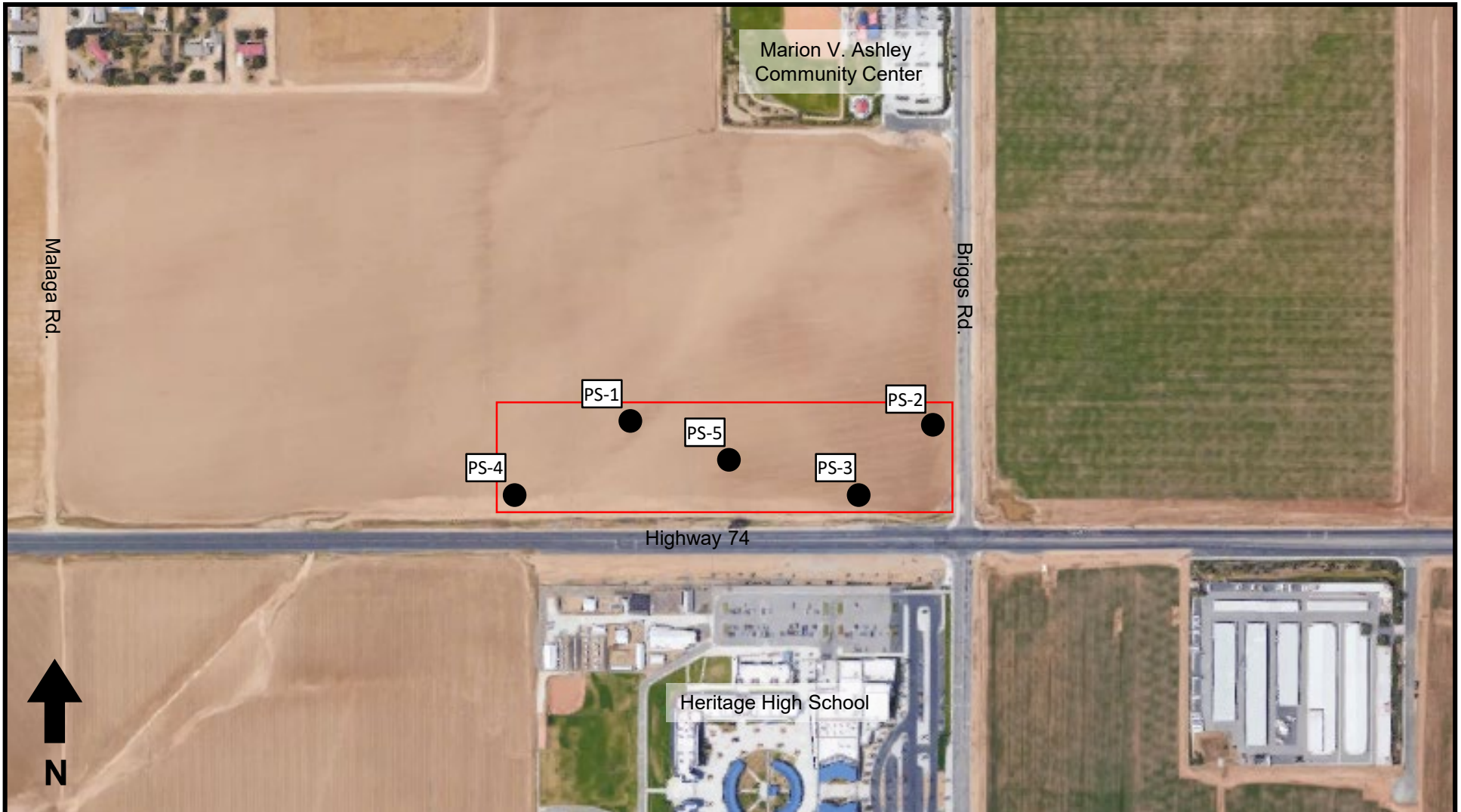


GEOTECHNICAL ENVIRONMENTAL MATERIALS
41571 CORNING PLACE, SUITE 101, MURRIETA, CA 92562-7065
PHONE 951-304-2300 FAX 951-304-2392

AMO		
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BRIGGS & 74 SITE
NORTHWEST OF HIGHWAY 74 AND BRIGGS ROAD
MENIFEE, CALIFORNIA

OCTOBER, 2018	PROJECT NO. T2765-77-03	FIG. 1
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Marion V. Ashley
Community Center

Malaga Rd.

Briggs Rd.

PS-1

PS-2

PS-5

PS-4

PS-3

Highway 74


Heritage High School



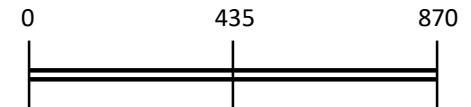
LEGEND

Locations are approximate

 Site Boundary

 PS-5 Approximate Sample Location

SOURCE: Google Maps, 2017



SCALE 1" = 435'

GEOCON
WEST, INC.



GEOTECHNICAL ENVIRONMENTAL MATERIALS
41571 CORNING PLACE, SUITE 101, MURRIETA, CA 92562-7065
PHONE 951-304-2300 FAX 951-304-2392

SAMPLE LOCATION PLAN

BRIGGS & 74 SITE
NORTHWEST OF HIGHWAY 74 AND BRIGGS ROAD
MENIFEE, CALIFORNIA

AMO

OCTOBER, 2018

PROJECT NO. T2765-77-03

FIG. 2

TABLE 1
SUMMARY OF LABORATORY ANALYSIS DATA - SOIL
PESTICIDES & METALS
NORTHWEST OF HIGHWAY 74 AND BRIGGS ROAD
MENIFEE, CALIFORNIA

SAMPLE ID	SAMPLE DATE	APPROX. DEPTH (feet)	4,4'-DDE	4,4'-DDT	delta-BHC	Other Pesticides	Arsenic	Antimony	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury	
			µg/kg				mg/kg																	
PS-1	9/12/2018	0.5	<2.0	<2.0	<1.0	ND	<1.0	<2.0	130	<1.0	<1.0	7.7	6.2	12	1.7	<1.0	3.7	<1.0	<1.0	<1.0	<1.0	27	45	<0.1
PS-2	9/12/2018	0.5	9.0	<2.0	4.7	ND	<1.0	<2.0	160	<1.0	<1.0	7.8	7.7	11	1.7	<1.0	3.8	<1.0	<1.0	<1.0	<1.0	31	44	<0.1
PS-3	9/12/2018	0.5	14	5.3	<1.0	ND	<1.0	<2.0	160	<1.0	<1.0	6.5	7.7	8.3	2.2	<1.0	3.3	<1.0	<1.0	<1.0	<1.0	29	32	<0.1
PS-4	9/12/2018	0.5	6.3	<2.0	1.5	ND	<1.0	<2.0	98	<1.0	<1.0	3.9	4.5	6.2	1.2	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	17	23	<0.1
PS-5	9/12/2018	0.5	4.9	<2.0	31	ND	<1.0	<2.0	150	<1.0	<1.0	5.9	7.1	9.5	1.5	<1.0	3.0	<1.0	<1.0	<1.0	<1.0	27	31	<0.1
RSLs Residential			2,000	1,900	NE	Various	0.68	31	15,000	160	71	NE	23	3,100	400	390	670	390	390	NE	390	23,000	11	
Regional Background Concentrations			12 ⁽¹⁾																					

Notes:

mg/kg = milligrams per kilogram

µg/kg = micrograms per kilogram

NE = Not established

ND = Not detected at concentrations greater than respective laboratory practical quantitation limits

< = Less than laboratory practical quantitation limit

RSLs = USEPA Regional Screening Levels dated May 2018 for residential and industrial soil scenarios.

(1) Upper-end naturally occurring ("background") arsenic concentration in Southern California soil as described in Department of Toxic Substances Control's *Determination of a Southern California Regional Background Arsenic Concentration in Soil*, dated March 2008.

September 20, 2018

Alice Orton
Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562
Tel: (951) 304-2300
Fax:(951) 304-2392

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

Re: ATL Work Order Number : 1803426
Client Reference : MR-56 / Briggs + 74, T2765-77-03

Enclosed are the results for sample(s) received on September 13, 2018 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,



Eddie Rodriguez
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

Geocon West, Inc.

41571 Corning Place, Suite 101

Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PS-1	1803426-01	Soil	9/12/18 12:37	9/13/18 12:13
PS-2	1803426-02	Soil	9/12/18 12:35	9/13/18 12:13
PS-3	1803426-03	Soil	9/12/18 12:50	9/13/18 12:13
PS-4	1803426-04	Soil	9/12/18 12:41	9/13/18 12:13
PS-5 Field Duplicate	1803426-05	Soil	9/12/18 12:44	9/13/18 12:13



Certificate of Analysis

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41571 Corning Place, Suite 101

Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-1

Lab ID: 1803426-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Arsenic	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Barium	130	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Beryllium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Cadmium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Chromium	7.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Cobalt	6.2	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Copper	12	2.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Lead	1.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Molybdenum	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Nickel	3.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Selenium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Silver	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Thallium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Vanadium	27	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	
Zinc	45	1.0	1	B8I0470	09/18/2018	09/19/18 14:10	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8I0472	09/18/2018	09/19/18 11:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
4,4'-DDE [2C]	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
4,4'-DDT [2C]	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Aldrin	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
alpha-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
alpha-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
beta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Chlordane	ND	8.5	1	B8I0507	09/19/2018	09/19/18 15:08	
delta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Dieldrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	



Certificate of Analysis

Geocon West, Inc.
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 Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-1

Lab ID: 1803426-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Endosulfan II	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Endosulfan sulfate	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Endrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Endrin aldehyde	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Endrin ketone	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:08	
gamma-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
gamma-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Heptachlor	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Heptachlor epoxide	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Methoxychlor	ND	5.0	1	B8I0507	09/19/2018	09/19/18 15:08	
Toxaphene	ND	50	1	B8I0507	09/19/2018	09/19/18 15:08	
<i>Surrogate: Decachlorobiphenyl</i>	58.2 %	18 - 97		B8I0507	09/19/2018	09/19/18 15:08	
<i>Surrogate: Tetrachloro-m-xylene</i>	74.7 %	18 - 95		B8I0507	09/19/2018	09/19/18 15:08	



Certificate of Analysis

Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-2

Lab ID: 1803426-02

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Arsenic	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Barium	160	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Beryllium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Cadmium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Chromium	7.8	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Cobalt	7.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Copper	11	2.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Lead	1.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Molybdenum	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Nickel	3.8	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Selenium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Silver	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Thallium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Vanadium	31	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	
Zinc	44	1.0	1	B8I0470	09/18/2018	09/19/18 14:11	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8I0472	09/18/2018	09/19/18 11:29	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
4,4'-DDE [2C]	9.0	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
4,4'-DDT	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Aldrin	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
alpha-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
alpha-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
beta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Chlordane	ND	8.5	1	B8I0507	09/19/2018	09/19/18 15:19	
delta-BHC	4.7	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Dieldrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	



Certificate of Analysis

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Project Number : MR-56 / Briggs + 74, T2765-77-03
Report To : Alice Orton
Reported : 09/20/2018

Client Sample ID PS-2
Lab ID: 1803426-02

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Endosulfan II	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Endosulfan sulfate	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Endrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Endrin aldehyde	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Endrin ketone	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:19	
gamma-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
gamma-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Heptachlor	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Heptachlor epoxide	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Methoxychlor	ND	5.0	1	B8I0507	09/19/2018	09/19/18 15:19	
Toxaphene	ND	50	1	B8I0507	09/19/2018	09/19/18 15:19	
<i>Surrogate: Decachlorobiphenyl</i>	<i>67.8 %</i>	<i>18 - 97</i>		B8I0507	09/19/2018	<i>09/19/18 15:19</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>87.9 %</i>	<i>18 - 95</i>		B8I0507	09/19/2018	<i>09/19/18 15:19</i>	



Certificate of Analysis

Geocon West, Inc.

Project Number : MR-56 / Briggs + 74, T2765-77-03

41571 Corning Place, Suite 101

Report To : Alice Orton

Murrietta , CA 92562

Reported : 09/20/2018

Client Sample ID PS-3

Lab ID: 1803426-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Arsenic	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Barium	160	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Beryllium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Cadmium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Chromium	6.5	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Cobalt	7.7	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Copper	8.3	2.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Lead	2.2	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Molybdenum	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Nickel	3.3	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Selenium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Silver	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Thallium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Vanadium	29	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	
Zinc	32	1.0	1	B8I0470	09/18/2018	09/19/18 14:13	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8I0472	09/18/2018	09/19/18 11:35	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
4,4'-DDE [2C]	14	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
4,4'-DDT	5.3	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Aldrin	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
alpha-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
alpha-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
beta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Chlordane	ND	8.5	1	B8I0507	09/19/2018	09/19/18 15:29	
delta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Dieldrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	



Certificate of Analysis

Geocon West, Inc.
 41571 Corning Place, Suite 101
 Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03
 Report To : Alice Orton
 Reported : 09/20/2018

Client Sample ID PS-3
Lab ID: 1803426-03

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Endosulfan II	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Endosulfan sulfate	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Endrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Endrin aldehyde	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Endrin ketone	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:29	
gamma-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
gamma-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Heptachlor	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Heptachlor epoxide	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Methoxychlor	ND	5.0	1	B8I0507	09/19/2018	09/19/18 15:29	
Toxaphene	ND	50	1	B8I0507	09/19/2018	09/19/18 15:29	
<i>Surrogate: Decachlorobiphenyl</i>	<i>67.3 %</i>	<i>18 - 97</i>		B8I0507	09/19/2018	<i>09/19/18 15:29</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>72.1 %</i>	<i>18 - 95</i>		B8I0507	09/19/2018	<i>09/19/18 15:29</i>	



Certificate of Analysis

Geocon West, Inc.

41571 Corning Place, Suite 101

Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-4

Lab ID: 1803426-04

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Arsenic	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Barium	98	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Beryllium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Cadmium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Chromium	3.9	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Cobalt	4.5	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Copper	6.2	2.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Lead	1.2	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Molybdenum	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Nickel	1.9	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Selenium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Silver	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Thallium	ND	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Vanadium	17	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	
Zinc	23	1.0	1	B8I0470	09/18/2018	09/19/18 14:14	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8I0472	09/18/2018	09/19/18 11:37	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
4,4'-DDE [2C]	6.3	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
4,4'-DDT	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Aldrin	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
alpha-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
alpha-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
beta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Chlordane	ND	8.5	1	B8I0507	09/19/2018	09/19/18 15:40	
delta-BHC	1.5	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Dieldrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	



Certificate of Analysis

Geocon West, Inc.
 41571 Corning Place, Suite 101
 Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-4

Lab ID: 1803426-04

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Endosulfan II	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Endosulfan sulfate	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Endrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Endrin aldehyde	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Endrin ketone	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:40	
gamma-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
gamma-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Heptachlor	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Heptachlor epoxide	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Methoxychlor	ND	5.0	1	B8I0507	09/19/2018	09/19/18 15:40	
Toxaphene	ND	50	1	B8I0507	09/19/2018	09/19/18 15:40	
<hr/>							
<i>Surrogate: Decachlorobiphenyl</i>	<i>59.9 %</i>	<i>18 - 97</i>		B8I0507	09/19/2018	<i>09/19/18 15:40</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>76.1 %</i>	<i>18 - 95</i>		B8I0507	09/19/2018	<i>09/19/18 15:40</i>	



Certificate of Analysis

Geocon West, Inc.

41571 Corning Place, Suite 101

Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-5 Field Duplicate

Lab ID: 1803426-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Arsenic	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Barium	150	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Beryllium	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Cadmium	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Chromium	5.9	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Cobalt	7.1	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Copper	9.5	2.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Lead	1.5	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Molybdenum	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Nickel	3.0	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Selenium	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Silver	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Thallium	ND	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Vanadium	27	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	
Zinc	31	1.0	1	B8I0471	09/18/2018	09/19/18 13:26	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B8I0473	09/18/2018	09/19/18 11:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
4,4'-DDE [2C]	4.9	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
4,4'-DDT	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Aldrin	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
alpha-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
alpha-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
beta-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Chlordane	ND	8.5	1	B8I0507	09/19/2018	09/19/18 15:50	
delta-BHC	31	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Dieldrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	



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Geocon West, Inc.

41571 Corning Place, Suite 101

Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Client Sample ID PS-5 Field Duplicate

Lab ID: 1803426-05

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Endosulfan I	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Endosulfan II	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Endosulfan sulfate	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Endrin	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Endrin aldehyde	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Endrin ketone	ND	2.0	1	B8I0507	09/19/2018	09/19/18 15:50	
gamma-BHC	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
gamma-Chlordane	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Heptachlor	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Heptachlor epoxide	ND	1.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Methoxychlor	ND	5.0	1	B8I0507	09/19/2018	09/19/18 15:50	
Toxaphene	ND	50	1	B8I0507	09/19/2018	09/19/18 15:50	
<i>Surrogate: Decachlorobiphenyl</i>	<i>62.6 %</i>	<i>18 - 97</i>		B8I0507	09/19/2018	<i>09/19/18 15:50</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>69.3 %</i>	<i>18 - 95</i>		B8I0507	09/19/2018	<i>09/19/18 15:50</i>	



Certificate of Analysis

Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

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

Batch B810470 - EPA 3050B_S

Blank (B810470-BLK1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B810470-BS1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	42.8423	2.0	0.51	50.0000	85.7	80 - 120
Arsenic	41.0704	1.0	0.12	50.0000	82.1	80 - 120
Barium	46.1415	1.0	0.12	50.0000	92.3	80 - 120
Beryllium	42.0518	1.0	0.03	50.0000	84.1	80 - 120
Cadmium	41.4967	1.0	0.14	50.0000	83.0	80 - 120
Chromium	45.5842	1.0	0.26	50.0000	91.2	80 - 120
Cobalt	44.5441	1.0	0.07	50.0000	89.1	80 - 120
Copper	45.4000	2.0	0.19	50.0000	90.8	80 - 120
Lead	42.7124	1.0	0.18	50.0000	85.4	80 - 120
Molybdenum	44.4128	1.0	0.12	50.0000	88.8	80 - 120
Nickel	44.1948	1.0	0.18	50.0000	88.4	80 - 120
Selenium	40.6340	1.0	0.40	50.0000	81.3	80 - 120
Silver	42.2516	1.0	0.12	50.0000	84.5	80 - 120
Thallium	44.1860	1.0	0.38	50.0000	88.4	80 - 120
Vanadium	45.0132	1.0	0.06	50.0000	90.0	80 - 120
Zinc	42.3298	1.0	0.15	50.0000	84.7	80 - 120

Matrix Spike (B810470-MS1)

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	81.5848	2.0	0.51	125.000	ND	65.3	28 - 99
Arsenic	92.8914	1.0	0.12	125.000	ND	74.3	49 - 99
Barium	197.804	1.0	0.12	125.000	98.0404	79.8	19 - 135
Beryllium	92.3934	1.0	0.03	125.000	ND	73.9	53 - 99



Certificate of Analysis

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Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B810470 - EPA 3050B_S (continued)

Matrix Spike (B810470-MS1) - Continued

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Cadmium	90.2110	1.0	0.14	125.000	ND	72.2	49 - 95
Chromium	101.630	1.0	0.26	125.000	3.91698	78.2	41 - 114
Cobalt	97.9022	1.0	0.07	125.000	4.47085	74.7	44 - 106
Copper	106.433	2.0	0.19	125.000	6.18742	80.2	42 - 120
Lead	91.3962	1.0	0.18	125.000	1.21332	72.1	36 - 121
Molybdenum	95.6764	1.0	0.12	125.000	ND	76.5	49 - 102
Nickel	94.9791	1.0	0.18	125.000	1.92910	74.4	45 - 101
Selenium	92.3020	1.0	0.40	125.000	ND	73.8	50 - 94
Silver	98.0923	1.0	0.12	125.000	ND	78.5	33 - 120
Thallium	84.1617	1.0	0.38	125.000	ND	67.3	41 - 95
Vanadium	114.929	1.0	0.06	125.000	17.0095	78.3	45 - 113
Zinc	110.647	1.0	0.15	125.000	22.5248	70.5	26 - 117

Matrix Spike Dup (B810470-MSD1)

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	86.0023	2.0	0.51	125.000	ND	68.8	28 - 99	5.27	20
Arsenic	99.2464	1.0	0.12	125.000	ND	79.4	49 - 99	6.62	20
Barium	214.618	1.0	0.12	125.000	98.0404	93.3	19 - 135	8.15	20
Beryllium	98.7598	1.0	0.03	125.000	ND	79.0	53 - 99	6.66	20
Cadmium	94.7042	1.0	0.14	125.000	ND	75.8	49 - 95	4.86	20
Chromium	106.100	1.0	0.26	125.000	3.91698	81.7	41 - 114	4.30	20
Cobalt	104.194	1.0	0.07	125.000	4.47085	79.8	44 - 106	6.23	20
Copper	110.017	2.0	0.19	125.000	6.18742	83.1	42 - 120	3.31	20
Lead	97.4476	1.0	0.18	125.000	1.21332	77.0	36 - 121	6.41	20
Molybdenum	102.664	1.0	0.12	125.000	ND	82.1	49 - 102	7.05	20
Nickel	100.378	1.0	0.18	125.000	1.92910	78.8	45 - 101	5.53	20
Selenium	98.0628	1.0	0.40	125.000	ND	78.5	50 - 94	6.05	20
Silver	101.190	1.0	0.12	125.000	ND	81.0	33 - 120	3.11	20
Thallium	89.7150	1.0	0.38	125.000	ND	71.8	41 - 95	6.39	20
Vanadium	119.019	1.0	0.06	125.000	17.0095	81.6	45 - 113	3.50	20
Zinc	118.252	1.0	0.15	125.000	22.5248	76.6	26 - 117	6.64	20



Certificate of Analysis

Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Title 22 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
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Batch B810471 - EPA 3050B_S

Blank (B810471-BLK1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B810471-BS1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	44.0438	2.0	0.51	50.0000	88.1	80 - 120
Arsenic	43.0344	1.0	0.12	50.0000	86.1	80 - 120
Barium	47.9333	1.0	0.12	50.0000	95.9	80 - 120
Beryllium	43.3188	1.0	0.03	50.0000	86.6	80 - 120
Cadmium	43.6656	1.0	0.14	50.0000	87.3	80 - 120
Chromium	47.4147	1.0	0.26	50.0000	94.8	80 - 120
Cobalt	46.3188	1.0	0.07	50.0000	92.6	80 - 120
Copper	46.7890	2.0	0.19	50.0000	93.6	80 - 120
Lead	44.3329	1.0	0.18	50.0000	88.7	80 - 120
Molybdenum	46.0760	1.0	0.12	50.0000	92.2	80 - 120
Nickel	46.1057	1.0	0.18	50.0000	92.2	80 - 120
Selenium	42.9594	1.0	0.40	50.0000	85.9	80 - 120
Silver	44.0466	1.0	0.12	50.0000	88.1	80 - 120
Thallium	45.7247	1.0	0.38	50.0000	91.4	80 - 120
Vanadium	46.8245	1.0	0.06	50.0000	93.6	80 - 120
Zinc	43.8043	1.0	0.15	50.0000	87.6	80 - 120

Duplicate (B810471-DUP1)

Source: 1803429-01

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	ND	2.0	0.51	ND	NR	20
Arsenic	ND	1.0	0.12	ND	NR	20
Barium	102.127	1.0	0.12	109.986	7.41	20
Beryllium	ND	1.0	0.03	ND	NR	20
Cadmium	0.238208	1.0	0.14	0.324009	30.5	20 R
Chromium	8.95487	1.0	0.26	10.1106	12.1	20



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Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B810471 - EPA 3050B_S (continued)

Duplicate (B810471-DUP1) - Continued

Source: 1803429-01

Prepared: 9/18/2018 Analyzed: 9/19/2018

Cobalt	5.22706	1.0	0.07		5.43644			3.93	20	
Copper	25.0725	2.0	0.19		29.4800			16.2	20	
Lead	2.22049	1.0	0.18		2.60279			15.9	20	
Molybdenum	ND	1.0	0.12		ND			NR	20	
Nickel	4.90624	1.0	0.18		5.28784			7.49	20	
Selenium	ND	1.0	0.40		ND			NR	20	
Silver	ND	1.0	0.12		ND			NR	20	
Thallium	ND	1.0	0.38		ND			NR	20	
Vanadium	25.3248	1.0	0.06		26.6608			5.14	20	
Zinc	68.2364	1.0	0.15		77.5904			12.8	20	

Matrix Spike (B810471-MS1)

Source: 1803426-05

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	70.6914	2.0	0.51	125.000	ND	56.6	28 - 99			
Arsenic	89.3201	1.0	0.12	125.000	ND	71.5	49 - 99			
Barium	243.695	1.0	0.12	125.000	151.879	73.5	19 - 135			
Beryllium	88.8042	1.0	0.03	125.000	ND	71.0	53 - 99			
Cadmium	87.8744	1.0	0.14	125.000	ND	70.3	49 - 95			
Chromium	100.323	1.0	0.26	125.000	5.90142	75.5	41 - 114			
Cobalt	97.0570	1.0	0.07	125.000	7.07753	72.0	44 - 106			
Copper	106.328	2.0	0.19	125.000	9.45612	77.5	42 - 120			
Lead	88.0676	1.0	0.18	125.000	1.53138	69.2	36 - 121			
Molybdenum	90.8821	1.0	0.12	125.000	ND	72.7	49 - 102			
Nickel	92.8356	1.0	0.18	125.000	2.99124	71.9	45 - 101			
Selenium	88.8650	1.0	0.40	125.000	ND	71.1	50 - 94			
Silver	95.6838	1.0	0.12	125.000	ND	76.5	33 - 120			
Thallium	75.9802	1.0	0.38	125.000	ND	60.8	41 - 95			
Vanadium	121.151	1.0	0.06	125.000	26.5143	75.7	45 - 113			
Zinc	118.092	1.0	0.15	125.000	30.5364	70.0	26 - 117			

Matrix Spike Dup (B810471-MSD1)

Source: 1803426-05

Prepared: 9/18/2018 Analyzed: 9/19/2018

Antimony	75.7450	2.0	0.51	125.000	ND	60.6	28 - 99	6.90	20	
Arsenic	94.2620	1.0	0.12	125.000	ND	75.4	49 - 99	5.38	20	
Barium	251.245	1.0	0.12	125.000	151.879	79.5	19 - 135	3.05	20	
Beryllium	94.1189	1.0	0.03	125.000	ND	75.3	53 - 99	5.81	20	
Cadmium	91.0540	1.0	0.14	125.000	ND	72.8	49 - 95	3.55	20	
Chromium	104.386	1.0	0.26	125.000	5.90142	78.8	41 - 114	3.97	20	
Cobalt	102.470	1.0	0.07	125.000	7.07753	76.3	44 - 106	5.43	20	
Copper	109.440	2.0	0.19	125.000	9.45612	80.0	42 - 120	2.88	20	
Lead	91.7653	1.0	0.18	125.000	1.53138	72.2	36 - 121	4.11	20	
Molybdenum	96.0473	1.0	0.12	125.000	ND	76.8	49 - 102	5.53	20	
Nickel	97.8194	1.0	0.18	125.000	2.99124	75.9	45 - 101	5.23	20	
Selenium	93.0087	1.0	0.40	125.000	ND	74.4	50 - 94	4.56	20	



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Project Number : MR-56 / Briggs + 74, T2765-77-03
Report To : Alice Orton
Reported : 09/20/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B810471 - EPA 3050B_S (continued)

Matrix Spike Dup (B810471-MSD1) - Continued

Source: 1803426-05

Prepared: 9/18/2018 Analyzed: 9/19/2018

Silver	98.7631	1.0	0.12	125.000	ND	79.0	33 - 120	3.17	20	
Thallium	79.0425	1.0	0.38	125.000	ND	63.2	41 - 95	3.95	20	
Vanadium	124.223	1.0	0.06	125.000	26.5143	78.2	45 - 113	2.50	20	
Zinc	122.751	1.0	0.15	125.000	30.5364	73.8	26 - 117	3.87	20	



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B810472 - EPA 7471_S

Blank (B810472-BLK1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury ND 0.10 0.006

LCS (B810472-BS1)

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury 0.926244 0.10 0.006 0.833333 111 80 - 120

Matrix Spike (B810472-MS1)

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury 0.938088 0.10 0.006 0.833333 0.008068 112 70 - 130

Matrix Spike Dup (B810472-MSD1)

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury 0.944562 0.10 0.006 0.833333 0.008068 112 70 - 130 0.688 20



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8I0472 - EPA 7471_S

Post Spike (B8I0472-PS1)

Source: 1803426-04

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury	0.006514		5.00000E-3	0.000097	128	85 - 115			M1
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Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B810473 - EPA 7471_S										
Blank (B810473-BLK1)					Prepared: 9/18/2018 Analyzed: 9/19/2018					
Mercury	ND	0.10	0.006							
LCS (B810473-BS1)					Prepared: 9/18/2018 Analyzed: 9/19/2018					
Mercury	0.916272	0.10	0.006	0.833333		110	80 - 120			
Duplicate (B810473-DUP1)					Source: 1803429-01 Prepared: 9/18/2018 Analyzed: 9/19/2018					
Mercury	0.051409	0.10	0.006		0.053269			3.56	20	
Matrix Spike (B810473-MS1)					Source: 1803426-05 Prepared: 9/18/2018 Analyzed: 9/19/2018					
Mercury	0.918832	0.10	0.006	0.833333	0.010895	109	70 - 130			
Matrix Spike Dup (B810473-MSD1)					Source: 1803426-05 Prepared: 9/18/2018 Analyzed: 9/19/2018					
Mercury	0.974537	0.10	0.006	0.847458	0.010895	114	70 - 130	5.88	20	



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Project Number : MR-56 / Briggs + 74, T2765-77-03
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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8I0473 - EPA 7471_S

Post Spike (B8I0473-PS1)

Source: 1803426-05

Prepared: 9/18/2018 Analyzed: 9/19/2018

Mercury	6.4891E-3		5.00000E-3	0.000131	127	85 - 115			M1
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Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

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 B810507 - GCSEMI_PCB/PEST_S

Blank (B810507-BLK1)

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	ND	2.0	0.10
4,4'-DDD [2C]	ND	2.0	0.10
4,4'-DDE	ND	2.0	0.07
4,4'-DDE [2C]	ND	2.0	0.07
4,4'-DDT	ND	2.0	0.14
4,4'-DDT [2C]	ND	2.0	0.14
Aldrin	ND	1.0	0.08
Aldrin [2C]	ND	1.0	0.08
alpha-BHC	ND	1.0	0.04
alpha-BHC [2C]	ND	1.0	0.04
alpha-Chlordane	ND	1.0	0.04
alpha-Chlordane [2C]	ND	1.0	0.04
beta-BHC	ND	1.0	0.04
beta-BHC [2C]	ND	1.0	0.04
Chlordane	ND	8.5	0.90
Chlordane [2C]	ND	8.5	0.90
delta-BHC	ND	1.0	0.04
delta-BHC [2C]	ND	1.0	0.04
Dieldrin	ND	2.0	0.05
Dieldrin [2C]	ND	2.0	0.05
Endosulfan I	ND	1.0	0.04
Endosulfan I [2C]	ND	1.0	0.04
Endosulfan II	ND	2.0	0.10
Endosulfan II [2C]	ND	2.0	0.10
Endosulfan sulfate	ND	2.0	0.06
Endosulfan Sulfate [2C]	ND	2.0	0.06
Endrin	ND	2.0	0.08
Endrin [2C]	ND	2.0	0.08
Endrin aldehyde	ND	2.0	0.09
Endrin aldehyde [2C]	ND	2.0	0.09
Endrin ketone	ND	2.0	0.07
Endrin ketone [2C]	ND	2.0	0.07
gamma-BHC	ND	1.0	0.05
gamma-BHC [2C]	ND	1.0	0.05
gamma-Chlordane	ND	1.0	0.04
gamma-Chlordane [2C]	ND	1.0	0.04
Heptachlor	ND	1.0	0.07
Heptachlor [2C]	ND	1.0	0.07
Heptachlor epoxide	ND	1.0	0.04
Heptachlor epoxide [2C]	ND	1.0	0.04
Methoxychlor	ND	5.0	0.10



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Project Number : MR-56 / Briggs + 74, T2765-77-03

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Reported : 09/20/2018

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 B8I0507 - GCSEMI_PCB/PEST_S (continued)

Blank (B8I0507-BLK1) - Continued

Prepared: 9/19/2018 Analyzed: 9/19/2018

Methoxychlor [2C]	ND	5.0	0.10						
Toxaphene	ND	50	8.2						
Toxaphene [2C]	ND	50	8.2						

<i>Surrogate: Decachlorobiphenyl</i>	<i>11.33</i>			<i>16.6667</i>	<i>68.0</i>	<i>18 - 97</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>11.62</i>			<i>16.6667</i>	<i>69.7</i>	<i>18 - 97</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.70</i>			<i>16.6667</i>	<i>82.2</i>	<i>18 - 95</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.68</i>			<i>16.6667</i>	<i>76.1</i>	<i>18 - 95</i>			

LCS (B8I0507-BS1)

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	14.7512	2.0	0.10	16.6667	88.5	63 - 121
4,4'-DDD [2C]	14.0182	2.0	0.10	16.6667	84.1	63 - 121
4,4'-DDE	15.5918	2.0	0.07	16.6667	93.6	64 - 118
4,4'-DDE [2C]	13.9870	2.0	0.07	16.6667	83.9	64 - 118
4,4'-DDT	15.9137	2.0	0.14	16.6667	95.5	46 - 123
4,4'-DDT [2C]	14.6668	2.0	0.14	16.6667	88.0	46 - 123
Aldrin	14.9988	1.0	0.08	16.6667	90.0	66 - 113
Aldrin [2C]	13.2538	1.0	0.08	16.6667	79.5	66 - 113
alpha-BHC	15.1715	1.0	0.04	16.6667	91.0	67 - 111
alpha-BHC [2C]	13.5067	1.0	0.04	16.6667	81.0	67 - 111
alpha-Chlordane	15.0063	1.0	0.04	16.6667	90.0	65 - 113
alpha-Chlordane [2C]	13.3940	1.0	0.04	16.6667	80.4	65 - 113
beta-BHC	14.6053	1.0	0.04	16.6667	87.6	62 - 108
beta-BHC [2C]	13.3307	1.0	0.04	16.6667	80.0	62 - 108
delta-BHC	15.7083	1.0	0.04	16.6667	94.2	34 - 126
delta-BHC [2C]	14.1168	1.0	0.04	16.6667	84.7	34 - 126
Dieldrin	13.7312	2.0	0.05	16.6667	82.4	62 - 107
Dieldrin [2C]	12.7308	2.0	0.05	16.6667	76.4	62 - 107
Endosulfan I	13.9992	1.0	0.04	16.6667	84.0	62 - 108
Endosulfan I [2C]	12.5127	1.0	0.04	16.6667	75.1	62 - 108
Endosulfan II	14.5382	2.0	0.10	16.6667	87.2	63 - 120
Endosulfan II [2C]	13.7257	2.0	0.10	16.6667	82.4	63 - 120
Endosulfan sulfate	15.2892	2.0	0.06	16.6667	91.7	58 - 117
Endosulfan Sulfate [2C]	13.3750	2.0	0.06	16.6667	80.2	58 - 117
Endrin	15.1688	2.0	0.08	16.6667	91.0	65 - 118
Endrin [2C]	13.9913	2.0	0.08	16.6667	83.9	65 - 118
Endrin aldehyde	16.0690	2.0	0.09	16.6667	96.4	67 - 125
Endrin aldehyde [2C]	14.7180	2.0	0.09	16.6667	88.3	67 - 125
Endrin ketone	14.8208	2.0	0.07	16.6667	88.9	59 - 115
Endrin ketone [2C]	11.9695	2.0	0.07	16.6667	71.8	59 - 115
gamma-BHC	14.5212	1.0	0.05	16.6667	87.1	65 - 108
gamma-BHC [2C]	13.0933	1.0	0.05	16.6667	78.6	65 - 108



Certificate of Analysis

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Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

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 B810507 - GCSEMI_PCB/PEST_S (continued)

LCS (B810507-BS1) - Continued

Prepared: 9/19/2018 Analyzed: 9/19/2018

gamma-Chlordane	14.5643	1.0	0.04	16.6667		87.4	63 - 111			
gamma-Chlordane [2C]	13.0195	1.0	0.04	16.6667		78.1	63 - 111			
Heptachlor	15.2507	1.0	0.07	16.6667		91.5	66 - 112			
Heptachlor [2C]	13.5937	1.0	0.07	16.6667		81.6	66 - 112			
Heptachlor epoxide	13.9147	1.0	0.04	16.6667		83.5	63 - 106			
Heptachlor epoxide [2C]	12.4548	1.0	0.04	16.6667		74.7	63 - 106			
Methoxychlor	16.5985	5.0	0.10	16.6667		99.6	57 - 128			
Methoxychlor [2C]	15.5543	5.0	0.10	16.6667		93.3	57 - 128			

<i>Surrogate: Decachlorobiphenyl</i>	<i>12.56</i>			<i>16.6667</i>		<i>75.4</i>	<i>18 - 97</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>12.60</i>			<i>16.6667</i>		<i>75.6</i>	<i>18 - 97</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.28</i>			<i>16.6667</i>		<i>91.7</i>	<i>18 - 95</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.62</i>			<i>16.6667</i>		<i>81.7</i>	<i>18 - 95</i>			

Matrix Spike (B810507-MS1)

Source: 1803426-04

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	15.2080	2.0	0.10	16.6667	ND	91.2	17 - 120			
4,4'-DDD [2C]	12.2805	2.0	0.10	16.6667	ND	73.7	17 - 120			
4,4'-DDE	20.0918	2.0	0.07	16.6667	5.97567	84.7	26 - 114			
4,4'-DDE [2C]	19.8322	2.0	0.07	16.6667	6.27233	81.4	26 - 114			
4,4'-DDT	17.4642	2.0	0.14	16.6667	1.40500	96.4	17 - 116			
4,4'-DDT [2C]	15.1867	2.0	0.14	16.6667	1.35717	83.0	17 - 116			
Aldrin	13.1267	1.0	0.08	16.6667	ND	78.8	29 - 105			
Aldrin [2C]	12.6217	1.0	0.08	16.6667	ND	75.7	29 - 105			
alpha-BHC	14.4948	1.0	0.04	16.6667	ND	87.0	19 - 113			
alpha-BHC [2C]	13.4422	1.0	0.04	16.6667	ND	80.7	19 - 113			
alpha-Chlordane	13.7660	1.0	0.04	16.6667	ND	82.6	21 - 111			
alpha-Chlordane [2C]	12.3727	1.0	0.04	16.6667	ND	74.2	21 - 111			
beta-BHC	14.4907	1.0	0.04	16.6667	ND	86.9	3 - 123			
beta-BHC [2C]	14.6642	1.0	0.04	16.6667	ND	88.0	3 - 123			
delta-BHC	16.0682	1.0	0.04	16.6667	1.45500	87.7	7 - 122			
delta-BHC [2C]	16.9625	1.0	0.04	16.6667	1.32717	93.8	7 - 122			
Dieldrin	13.3792	2.0	0.05	16.6667	ND	80.3	0 - 121			
Dieldrin [2C]	11.9468	2.0	0.05	16.6667	ND	71.7	0 - 121			
Endosulfan I	12.5250	1.0	0.04	16.6667	ND	75.1	5 - 111			
Endosulfan I [2C]	11.6723	1.0	0.04	16.6667	ND	70.0	5 - 111			
Endosulfan II	14.3763	2.0	0.10	16.6667	ND	86.3	38 - 122			
Endosulfan II [2C]	12.5443	2.0	0.10	16.6667	ND	75.3	38 - 122			
Endosulfan sulfate	14.3065	2.0	0.06	16.6667	ND	85.8	34 - 120			
Endosulfan Sulfate [2C]	13.2728	2.0	0.06	16.6667	ND	79.6	34 - 120			
Endrin	15.0545	2.0	0.08	16.6667	ND	90.3	0 - 128			
Endrin [2C]	13.1478	2.0	0.08	16.6667	ND	78.9	0 - 128			
Endrin aldehyde	15.6235	2.0	0.09	16.6667	ND	93.7	33 - 130			



Certificate of Analysis

Geocon West, Inc.
41571 Corning Place, Suite 101
Murrietta, CA 92562

Project Number : MR-56 / Briggs + 74, T2765-77-03

Report To : Alice Orton

Reported : 09/20/2018

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 B810507 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B810507-MS1) - Continued

Source: 1803426-04

Prepared: 9/19/2018 Analyzed: 9/19/2018

Endrin aldehyde [2C]	10.5540	2.0	0.09	16.6667	ND	63.3	33 - 130
Endrin ketone	14.9198	2.0	0.07	16.6667	ND	89.5	38 - 115
Endrin ketone [2C]	13.8753	2.0	0.07	16.6667	ND	83.3	38 - 115
gamma-BHC	13.7227	1.0	0.05	16.6667	ND	82.3	15 - 112
gamma-BHC [2C]	12.8390	1.0	0.05	16.6667	ND	77.0	15 - 112
gamma-Chlordane	14.4678	1.0	0.04	16.6667	ND	86.8	23 - 119
gamma-Chlordane [2C]	11.0088	1.0	0.04	16.6667	ND	66.1	23 - 119
Heptachlor	13.7143	1.0	0.07	16.6667	ND	82.3	29 - 106
Heptachlor [2C]	12.6978	1.0	0.07	16.6667	ND	76.2	29 - 106
Heptachlor epoxide	12.6457	1.0	0.04	16.6667	ND	75.9	7 - 111
Heptachlor epoxide [2C]	11.4015	1.0	0.04	16.6667	ND	68.4	7 - 111
Methoxychlor	15.5390	5.0	0.10	16.6667	ND	93.2	2 - 144
Methoxychlor [2C]	15.7027	5.0	0.10	16.6667	ND	94.2	2 - 144

<i>Surrogate: Decachlorobiphenyl</i>	12.24			16.6667		73.4	18 - 97
<i>Surrogate: Decachlorobiphenyl [</i>	11.96			16.6667		71.8	18 - 97
<i>Surrogate: Tetrachloro-m-xylene</i>	15.23			16.6667		91.4	18 - 95
<i>Surrogate: Tetrachloro-m-xylene</i>	14.22			16.6667		85.3	18 - 95

Matrix Spike (B810507-MS2)

Source: 1803429-03

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	15.6982	2.0	0.10	16.6667	ND	94.2	17 - 120
4,4'-DDD [2C]	12.7690	2.0	0.10	16.6667	ND	76.6	17 - 120
4,4'-DDE	16.2233	2.0	0.07	16.6667	0.540333	94.1	26 - 114
4,4'-DDE [2C]	13.5155	2.0	0.07	16.6667	0.555833	77.8	26 - 114
4,4'-DDT	15.7577	2.0	0.14	16.6667	ND	94.5	17 - 116
4,4'-DDT [2C]	14.8072	2.0	0.14	16.6667	ND	88.8	17 - 116
Aldrin	14.7205	1.0	0.08	16.6667	ND	88.3	29 - 105
Aldrin [2C]	13.0698	1.0	0.08	16.6667	ND	78.4	29 - 105
alpha-BHC	14.8533	1.0	0.04	16.6667	ND	89.1	19 - 113
alpha-BHC [2C]	14.0998	1.0	0.04	16.6667	ND	84.6	19 - 113
alpha-Chlordane	14.9742	1.0	0.04	16.6667	ND	89.8	21 - 111
alpha-Chlordane [2C]	12.1308	1.0	0.04	16.6667	ND	72.8	21 - 111
beta-BHC	15.6752	1.0	0.04	16.6667	ND	94.1	3 - 123
beta-BHC [2C]	15.9520	1.0	0.04	16.6667	ND	95.7	3 - 123
delta-BHC	15.9845	1.0	0.04	16.6667	ND	95.9	7 - 122
delta-BHC [2C]	14.5012	1.0	0.04	16.6667	ND	87.0	7 - 122
Dieldrin	13.5153	2.0	0.05	16.6667	ND	81.1	0 - 121
Dieldrin [2C]	12.2272	2.0	0.05	16.6667	ND	73.4	0 - 121
Endosulfan I	13.6317	1.0	0.04	16.6667	ND	81.8	5 - 111
Endosulfan I [2C]	11.2997	1.0	0.04	16.6667	ND	67.8	5 - 111
Endosulfan II	14.4308	2.0	0.10	16.6667	ND	86.6	38 - 122
Endosulfan II [2C]	12.8435	2.0	0.10	16.6667	ND	77.1	38 - 122



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Reported : 09/20/2018

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	Limits	RPD	RPD Limit	Notes
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Batch B810507 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B810507-MS2) - Continued

Source: 1803429-03

Prepared: 9/19/2018 Analyzed: 9/19/2018

Endosulfan sulfate	14.6257	2.0	0.06	16.6667	ND	87.8	34 - 120			
Endosulfan Sulfate [2C]	13.7050	2.0	0.06	16.6667	ND	82.2	34 - 120			
Endrin	13.9808	2.0	0.08	16.6667	ND	83.9	0 - 128			
Endrin [2C]	13.4113	2.0	0.08	16.6667	ND	80.5	0 - 128			
Endrin aldehyde	15.6090	2.0	0.09	16.6667	ND	93.7	33 - 130			
Endrin aldehyde [2C]	11.4465	2.0	0.09	16.6667	ND	68.7	33 - 130			
Endrin ketone	14.6120	2.0	0.07	16.6667	ND	87.7	38 - 115			
Endrin ketone [2C]	13.0852	2.0	0.07	16.6667	ND	78.5	38 - 115			
gamma-BHC	14.3907	1.0	0.05	16.6667	ND	86.3	15 - 112			
gamma-BHC [2C]	13.1215	1.0	0.05	16.6667	ND	78.7	15 - 112			
gamma-Chlordane	149.317	1.0	0.04	16.6667	ND	896	23 - 119			M2
gamma-Chlordane [2C]	11.8752	1.0	0.04	16.6667	ND	71.3	23 - 119			
Heptachlor	15.8840	1.0	0.07	16.6667	ND	95.3	29 - 106			
Heptachlor [2C]	12.6080	1.0	0.07	16.6667	ND	75.6	29 - 106			
Heptachlor epoxide	16.1285	1.0	0.04	16.6667	ND	96.8	7 - 111			
Heptachlor epoxide [2C]	11.3875	1.0	0.04	16.6667	ND	68.3	7 - 111			
Methoxychlor	14.8413	5.0	0.10	16.6667	ND	89.0	2 - 144			
Methoxychlor [2C]	16.0610	5.0	0.10	16.6667	ND	96.4	2 - 144			
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Surrogate: Decachlorobiphenyl	11.87			16.6667		71.2	18 - 97			
Surrogate: Decachlorobiphenyl [12.18			16.6667		73.1	18 - 97			
Surrogate: Tetrachloro-m-xylene	15.72			16.6667		94.3	18 - 95			
Surrogate: Tetrachloro-m-xylene	14.63			16.6667		87.8	18 - 95			

Matrix Spike Dup (B810507-MSD1)

Source: 1803426-04

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	15.2875	2.0	0.10	16.6667	ND	91.7	17 - 120	0.521	20	
4,4'-DDD [2C]	12.4355	2.0	0.10	16.6667	ND	74.6	17 - 120	1.25	20	
4,4'-DDE	20.4782	2.0	0.07	16.6667	5.97567	87.0	26 - 114	1.90	20	
4,4'-DDE [2C]	18.9048	2.0	0.07	16.6667	6.27233	75.8	26 - 114	4.79	20	
4,4'-DDT	16.8127	2.0	0.14	16.6667	1.40500	92.4	17 - 116	3.80	20	
4,4'-DDT [2C]	17.1997	2.0	0.14	16.6667	1.35717	95.1	17 - 116	12.4	20	
Aldrin	13.8745	1.0	0.08	16.6667	ND	83.2	29 - 105	5.54	20	
Aldrin [2C]	12.6583	1.0	0.08	16.6667	ND	75.9	29 - 105	0.290	20	
alpha-BHC	14.5635	1.0	0.04	16.6667	ND	87.4	19 - 113	0.473	20	
alpha-BHC [2C]	13.3655	1.0	0.04	16.6667	ND	80.2	19 - 113	0.572	20	
alpha-Chlordane	14.2933	1.0	0.04	16.6667	ND	85.8	21 - 111	3.76	20	
alpha-Chlordane [2C]	11.9812	1.0	0.04	16.6667	ND	71.9	21 - 111	3.22	20	
beta-BHC	15.1652	1.0	0.04	16.6667	ND	91.0	3 - 123	4.55	20	
beta-BHC [2C]	14.7635	1.0	0.04	16.6667	ND	88.6	3 - 123	0.675	20	
delta-BHC	16.5830	1.0	0.04	16.6667	1.45500	90.8	7 - 122	3.15	20	
delta-BHC [2C]	15.2005	1.0	0.04	16.6667	1.32717	83.2	7 - 122	11.0	20	
Dieldrin	13.8718	2.0	0.05	16.6667	ND	83.2	0 - 121	3.62	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 Limits	RPD	RPD Limit	Notes
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Batch B810507 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B810507-MSD1) - Continued

Source: 1803426-04

Prepared: 9/19/2018 Analyzed: 9/19/2018

Dieldrin [2C]	11.9647	2.0	0.05	16.6667	ND	71.8	0 - 121	0.149	20	
Endosulfan I	12.9700	1.0	0.04	16.6667	ND	77.8	5 - 111	3.49	20	
Endosulfan I [2C]	11.4002	1.0	0.04	16.6667	ND	68.4	5 - 111	2.36	20	
Endosulfan II	14.1357	2.0	0.10	16.6667	ND	84.8	38 - 122	1.69	20	
Endosulfan II [2C]	12.5838	2.0	0.10	16.6667	ND	75.5	38 - 122	0.314	20	
Endosulfan sulfate	14.0340	2.0	0.06	16.6667	ND	84.2	34 - 120	1.92	20	
Endosulfan Sulfate [2C]	13.2982	2.0	0.06	16.6667	ND	79.8	34 - 120	0.191	20	
Endrin	15.2652	2.0	0.08	16.6667	ND	91.6	0 - 128	1.39	20	
Endrin [2C]	13.0522	2.0	0.08	16.6667	ND	78.3	0 - 128	0.730	20	
Endrin aldehyde	15.5738	2.0	0.09	16.6667	ND	93.4	33 - 130	0.318	20	
Endrin aldehyde [2C]	10.7093	2.0	0.09	16.6667	ND	64.3	33 - 130	1.46	20	
Endrin ketone	14.6412	2.0	0.07	16.6667	ND	87.8	38 - 115	1.89	20	
Endrin ketone [2C]	14.4220	2.0	0.07	16.6667	ND	86.5	38 - 115	3.86	20	
gamma-BHC	13.8598	1.0	0.05	16.6667	ND	83.2	15 - 112	0.995	20	
gamma-BHC [2C]	12.8162	1.0	0.05	16.6667	ND	76.9	15 - 112	0.178	20	
gamma-Chlordane	14.9453	1.0	0.04	16.6667	ND	89.7	23 - 119	3.25	20	
gamma-Chlordane [2C]	10.9795	1.0	0.04	16.6667	ND	65.9	23 - 119	0.267	20	
Heptachlor	14.1535	1.0	0.07	16.6667	ND	84.9	29 - 106	3.15	20	
Heptachlor [2C]	12.6818	1.0	0.07	16.6667	ND	76.1	29 - 106	0.126	20	
Heptachlor epoxide	13.4722	1.0	0.04	16.6667	ND	80.8	7 - 111	6.33	20	
Heptachlor epoxide [2C]	11.3375	1.0	0.04	16.6667	ND	68.0	7 - 111	0.563	20	
Methoxychlor	14.9535	5.0	0.10	16.6667	ND	89.7	2 - 144	3.84	20	
Methoxychlor [2C]	15.9430	5.0	0.10	16.6667	ND	95.7	2 - 144	1.52	20	

Surrogate: Decachlorobiphenyl	11.06			16.6667		66.3	18 - 97			
Surrogate: Decachlorobiphenyl [11.60			16.6667		69.6	18 - 97			
Surrogate: Tetrachloro-m-xylene	15.30			16.6667		91.8	18 - 95			
Surrogate: Tetrachloro-m-xylene	14.01			16.6667		84.0	18 - 95			

Matrix Spike Dup (B810507-MSD2)

Source: 1803429-03

Prepared: 9/19/2018 Analyzed: 9/19/2018

4,4'-DDD	14.4880	2.0	0.10	16.6667	ND	86.9	17 - 120	8.02	20	
4,4'-DDD [2C]	12.8475	2.0	0.10	16.6667	ND	77.1	17 - 120	0.613	20	
4,4'-DDE	13.9867	2.0	0.07	16.6667	0.540333	80.7	26 - 114	14.8	20	
4,4'-DDE [2C]	12.9410	2.0	0.07	16.6667	0.555833	74.3	26 - 114	4.34	20	
4,4'-DDT	15.0782	2.0	0.14	16.6667	ND	90.5	17 - 116	4.41	20	
4,4'-DDT [2C]	13.8857	2.0	0.14	16.6667	ND	83.3	17 - 116	6.42	20	
Aldrin	14.5535	1.0	0.08	16.6667	ND	87.3	29 - 105	1.14	20	
Aldrin [2C]	12.6420	1.0	0.08	16.6667	ND	75.9	29 - 105	3.33	20	
alpha-BHC	14.4262	1.0	0.04	16.6667	ND	86.6	19 - 113	2.92	20	
alpha-BHC [2C]	12.5250	1.0	0.04	16.6667	ND	75.1	19 - 113	11.8	20	
alpha-Chlordane	13.9852	1.0	0.04	16.6667	ND	83.9	21 - 111	6.83	20	
alpha-Chlordane [2C]	11.5818	1.0	0.04	16.6667	ND	69.5	21 - 111	4.63	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 Limits	RPD	RPD Limit	Notes
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Batch B810507 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B810507-MSD2) - Continued

Source: 1803429-03

Prepared: 9/19/2018 Analyzed: 9/19/2018

beta-BHC	15.2615	1.0	0.04	16.6667	ND	91.6	3 - 123	2.67	20	
beta-BHC [2C]	12.6722	1.0	0.04	16.6667	ND	76.0	3 - 123	22.9	20	R3
delta-BHC	15.8887	1.0	0.04	16.6667	ND	95.3	7 - 122	0.601	20	
delta-BHC [2C]	13.5828	1.0	0.04	16.6667	ND	81.5	7 - 122	6.54	20	
Dieldrin	12.2225	2.0	0.05	16.6667	ND	73.3	0 - 121	10.0	20	
Dieldrin [2C]	12.0658	2.0	0.05	16.6667	ND	72.4	0 - 121	1.33	20	
Endosulfan I	12.5032	1.0	0.04	16.6667	ND	75.0	5 - 111	8.64	20	
Endosulfan I [2C]	10.8110	1.0	0.04	16.6667	ND	64.9	5 - 111	4.42	20	
Endosulfan II	13.1120	2.0	0.10	16.6667	ND	78.7	38 - 122	9.58	20	
Endosulfan II [2C]	12.7123	2.0	0.10	16.6667	ND	76.3	38 - 122	1.03	20	
Endosulfan sulfate	14.4968	2.0	0.06	16.6667	ND	87.0	34 - 120	0.885	20	
Endosulfan Sulfate [2C]	13.7130	2.0	0.06	16.6667	ND	82.3	34 - 120	0.0584	20	
Endrin	12.9433	2.0	0.08	16.6667	ND	77.7	0 - 128	7.71	20	
Endrin [2C]	13.3043	2.0	0.08	16.6667	ND	79.8	0 - 128	0.801	20	
Endrin aldehyde	15.3607	2.0	0.09	16.6667	ND	92.2	33 - 130	1.60	20	
Endrin aldehyde [2C]	11.5187	2.0	0.09	16.6667	ND	69.1	33 - 130	0.629	20	
Endrin ketone	15.0473	2.0	0.07	16.6667	ND	90.3	38 - 115	2.94	20	
Endrin ketone [2C]	12.9313	2.0	0.07	16.6667	ND	77.6	38 - 115	1.18	20	
gamma-BHC	14.1615	1.0	0.05	16.6667	ND	85.0	15 - 112	1.61	20	
gamma-BHC [2C]	12.0543	1.0	0.05	16.6667	ND	72.3	15 - 112	8.48	20	
gamma-Chlordane	153.289	1.0	0.04	16.6667	ND	920	23 - 119	2.63	20	M2
gamma-Chlordane [2C]	11.4658	1.0	0.04	16.6667	ND	68.8	23 - 119	3.51	20	
Heptachlor	14.7263	1.0	0.07	16.6667	ND	88.4	29 - 106	7.56	20	
Heptachlor [2C]	11.7933	1.0	0.07	16.6667	ND	70.8	29 - 106	6.68	20	
Heptachlor epoxide	15.0812	1.0	0.04	16.6667	ND	90.5	7 - 111	6.71	20	
Heptachlor epoxide [2C]	11.0508	1.0	0.04	16.6667	ND	66.3	7 - 111	3.00	20	
Methoxychlor	14.5438	5.0	0.10	16.6667	ND	87.3	2 - 144	2.02	20	
Methoxychlor [2C]	15.2507	5.0	0.10	16.6667	ND	91.5	2 - 144	5.18	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>12.34</i>			<i>16.6667</i>		<i>74.0</i>	<i>18 - 97</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>14.12</i>			<i>16.6667</i>		<i>84.7</i>	<i>18 - 97</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.52</i>			<i>16.6667</i>		<i>93.1</i>	<i>18 - 95</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.80</i>			<i>16.6667</i>		<i>76.8</i>	<i>18 - 95</i>			



Certificate of Analysis

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Reported : 09/20/2018

Notes and Definitions

R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
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.

Instruction: Complete all shaded areas.

For Laboratory Use Only
 ATLCOOC Ver: 20180415

Method of Transport		Simple Conditions Upon Receipt	
<input type="checkbox"/> Client	<input checked="" type="checkbox"/> ATL	Condition	Y N
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> GSO		2. HEADSPACE (VOA)	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<input type="checkbox"/> Other:		3. CONTAINER INTACT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
		4. SEALED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
		5. # OF SAMPLES MATCH COC	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
		6. PRESERVED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
		7. COOLER TEMP, Deg C	2.4
			1.0

Company: Geocon West, Inc. **Address:** 41571 Corning Place, Suite 101
City: Murrieta **State:** CA **Zip:** 92562 **Tel:** (951) 304-2300

Attn: Alice Orton **Email:** orton@geoconinc.com **SEND INVOICE TO:** same as SEND REPORT TO

Company: Geocon West, Inc. **Address:** 41571 Corning Place, Suite 101
City: Murrieta **State:** CA **Zip:** 92562 **Fax:**

ITEM	Laboratory ID (For Lab Use Only)	Sample Description	Special Instructions/Comments:		Requested Analysis	Sample Matrix	Container
			Quote #:	PO #:			
1	1803426-01	PS-1	MR-56 / Briggs + 74	Quote #R18H271	6010 / 7000 (Title 22 Metals)	Select Soil Matrix	Type: 1=Tube, 2=Vial, 3=Filter, 4=Ring, 5=Jar, 6=Tray, 7=Canister
2	-02	PS-2			801 (Organochlorine Pesticides)	Select Non-aqueous Matrix	Preservative: 1-HCl, 2-HNO3, 3-H2SO4, 4-C, 5=NH4Cl, 6=NH4OH, 7=NA2S2O3
3	-03	PS-3			Select Analysis	Select Water Matrix	Turnaround Time (TAT)
4	-04	PS-4			Select Analysis	Select Solid Matrix	5 1 5 1
5	-05	PS-5 Field Duplicate			Select Analysis	Select Custom Matrix	5 1 5 1
6					Select Analysis	Select Custom Matrix	5 1 5 1
7					Select Analysis	Select Custom Matrix	5 1 5 1
8					Select Analysis	Select Custom Matrix	5 1 5 1
9					Select Analysis	Select Custom Matrix	5 1 5 1
10					Select Analysis	Select Custom Matrix	5 1 5 1

MS **Page 30 of 30**

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday, Saturday 8:00 AM to 12:00 PM.
 2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
 3. The following turnaround time conditions apply:
 TAT = 0: 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
 TAT = 1: 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
 TAT = 2: 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
 TAT = 3: 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
 TAT = 4: 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
 TAT = 5: NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
 4. Weekend, holiday, after-hours work --- ask for quote.
 5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.

6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
 7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20 sample/week if extended storage is requested.
 - Hard copy and regenerated reports/EDDs: \$37.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.

10. Rush TCD/STLC samples: add 2 days to analysis TAT for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13
 Relinquished by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13
 Relinquished by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13

Received by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13
 Received by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13
 Received by: (Signature and Printed Name) **Date:** 9/13/18 **Time:** 12:13

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.
 Alice Orton
 Printed Name
 Signature