

US EPA ARCHIVE DOCUMENT



**United States Environmental Protection Agency
Region 9 Laboratory**

1337 S. 46th Street Building 201
Richmond, CA 94804

Date: 3/28/2011

Subject: Analytical Testing Results - Project R11R03
SDG: 11042A

From: Brenda Bettencourt, Director
EPA Region 9 Laboratory
MTS-2

To: Cameron McDonald
RCRA Enforcement Office
WST-3

Attached are the results from the analysis of samples from the **Western Environmental, Inc. 2011 RCRA Inspection** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Eugenia McNaughton at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

Analyses included in this report:

Organochlorine Pesticides by GC/ECD
Percent Solids

Organochlorine Pesticides by GC/ECD



United States Environmental Protection Agency

Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804

Phone:(510) 412-2300

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Project Manager: Cameron McDonald

Project Number: R11R03

Project: Western Environmental, Inc. 2011 RCRA
Inspection

RCRA Enforcement Office

75 Hawthorne Street
San Francisco CA, 94105

SDG: 11042A

Reported: 03/28/11 15:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
CFUA-1	1102011-01	Soil	02/09/11 14:29	02/10/11 16:30
CFUA-2	1102011-02	Soil	02/09/11 14:40	02/10/11 16:30
CFUA-3	1102011-03	Soil	02/09/11 14:47	02/10/11 16:30
CFUA-4	1102011-04	Soil	02/09/11 14:57	02/10/11 16:30
CFUA-5	1102011-05	Soil	02/09/11 14:57	02/10/11 16:30
CFUA-6	1102011-06	Soil	02/09/11 15:05	02/10/11 16:30
CFUB-1	1102011-07	Soil	02/09/11 13:09	02/10/11 16:30
CFUB-2	1102011-08	Soil	02/09/11 13:21	02/10/11 16:30
CFUB-3	1102011-09	Soil	02/09/11 13:38	02/10/11 16:30
CFUB-4	1102011-10	Soil	02/09/11 13:46	02/10/11 16:30
CFUB-5	1102011-11	Soil	02/09/11 13:48	02/10/11 16:30

SDG ID 11042A

All samples were reported at a 5X dilution to minimize potential false positives from PCB interference.

Work Order(s)

1102011



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Project Manager: Cameron McDonald Project Number: R11R03 Project: Western Environmental, Inc. 2011 RCRA Inspection	RCRA Enforcement Office 75 Hawthorne Street San Francisco CA, 94105	SDG: 11042A Reported: 03/28/11 15:36
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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-01

Soil - Sampled: 02/09/11 14:29

Sample ID: CFUA-1

Organochlorine Pesticides by EPA Method 8081B

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
alpha-BHC	RE1	ND	Q4, U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	11	J, Q4, Q6	10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	Q6, J, Q4, U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
Dieldrin	RE1	28	Q4, Q6, J	20	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	59	J, Q4, Q6	20	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	J, Q4, Q6, U	20	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	J, Q4, Q6, U	20	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	15	C1, J, Q4, Q6	20	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	Q4, Q6, J, U	20	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	29	G1, J, N, Q4, Q6	20	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	J, Q4, Q6, U	100	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	Q4, Q6, J, U	20	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	J, Q4, Q6, U	20	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	J, Q4, Q6, U	10	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	6.8	C1, Q4, J	10	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>RE1</i>		72 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	<i>RE1</i>		124 %	20-162%		"	"	"	

Sample ID: CFUA-1

Conventional Chemistry Parameters by APHA/EPA Methods

% Solids	83	1	%						
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Lab ID: 1102011-02

Soil - Sampled: 02/09/11 14:40

Sample ID: CFUA-2

Organochlorine Pesticides by EPA Method 8081B

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
alpha-BHC	RE1	ND	U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND	U	10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Dieldrin	RE1	13	C1, J	20	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	43		20	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	20	"	"	"	"	8081B/SOP330



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Project Manager: Cameron McDonald	RCRA Enforcement Office	SDG: 11042A
Project Number: R11R03	75 Hawthorne Street	Reported: 03/28/11 15:36
Project: Western Environmental, Inc. 2011 RCRA Inspection	San Francisco CA, 94105	

Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-02 **Soil - Sampled: 02/09/11 14:40**

Sample ID: CFUA-2 **Organochlorine Pesticides by EPA Method 8081B**

Endosulfan II	RE1	ND	U	20	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
4,4'-DDD	RE1	13	C1, J	20	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	31		20	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	100	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	20	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	6.5	C1, J	10	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>RE1</i>		63 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	<i>RE1</i>		93 %	20-162%		"	"	"	

Sample ID: CFUA-2 **Conventional Chemistry Parameters by APHA/EPA Methods**

% Solids		83		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460
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Lab ID: 1102011-03 **Soil - Sampled: 02/09/11 14:47**

Sample ID: CFUA-3 **Organochlorine Pesticides by EPA Method 8081B**

alpha-BHC	RE1	ND	U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND	U	10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Dieldrin	RE1	10	C1, J	20	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	33		20	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	10	C1, J	20	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	21		20	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	100	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	20	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	ND	U	10	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>RE1</i>		57 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	<i>RE1</i>		86 %	20-162%		"	"	"	



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Project Manager: Cameron McDonald Project Number: R11R03 Project: Western Environmental, Inc. 2011 RCRA Inspection	RCRA Enforcement Office 75 Hawthorne Street San Francisco CA, 94105	SDG: 11042A Reported: 03/28/11 15:36
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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-03		Soil - Sampled: 02/09/11 14:47
Sample ID: CFUA-3		Conventional Chemistry Parameters by APHA/EPA Methods
% Solids	82	1 %
		B1B0069 02/21/11 02/22/11 3550C/SOP460

Lab ID: 1102011-04		Soil - Sampled: 02/09/11 14:57						
Sample ID: CFUA-4		Organochlorine Pesticides by EPA Method 8081B						
alpha-BHC	RE1	ND U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND U	10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND U	10	"	"	"	"	8081B/SOP330
Dieldrin	RE1	11	C1, J	20	"	"	"	8081B/SOP330
4,4'-DDE	RE1	40		20	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	20	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	20	"	"	"	8081B/SOP330
4,4'-DDD	RE1	12	C1, J	20	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	20	"	"	"	8081B/SOP330
4,4'-DDT	RE1	33		20	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	100	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	20	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	20	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	10	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	6.6	C1, J	10	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>RE1</i>	69 %		20-165%	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	<i>RE1</i>	121 %		20-162%	"	"	"	

Sample ID: CFUA-4		Conventional Chemistry Parameters by APHA/EPA Methods
% Solids	83	1 %
		B1B0069 02/21/11 02/22/11 3550C/SOP460

Lab ID: 1102011-05		Soil - Sampled: 02/09/11 14:57						
Sample ID: CFUA-5		Organochlorine Pesticides by EPA Method 8081B						
alpha-BHC	RE1	ND U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND U	10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND U	10	"	"	"	"	8081B/SOP330



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-05 **Soil - Sampled: 02/09/11 14:57**

Organochlorine Pesticides by EPA Method 8081B									
Dieldrin	RE1	ND	U	20	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
4,4'-DDE	RE1	49		20	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	12	C1, J	20	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	120		20	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	100	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	20	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	8.4	C1, J	10	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	RE1		65 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	RE1		102 %	20-162%		"	"	"	

Conventional Chemistry Parameters by APHA/EPA Methods									
Sample ID: CFUA-5						B1B0069	02/21/11	02/22/11	3550C/SOP460
% Solids		83		1	%				

Lab ID: 1102011-06 **Soil - Sampled: 02/09/11 15:05**

Organochlorine Pesticides by EPA Method 8081B									
alpha-BHC	RE1	ND	U	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	11		10	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	10	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	10	"	"	"	"	8081B/SOP330
Dieldrin	RE1	26	G1, J, N	20	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	57		20	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	15	C1, J	20	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	20	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	19	C1, G1, J, N	20	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	100	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	20	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	20	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	10	"	"	"	"	8081B/SOP330



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-06		Soil - Sampled: 02/09/11 15:05							
Sample ID: CFUA-6	Organochlorine Pesticides by EPA Method 8081B								
gamma-Chlordane	RE1	5.2	C1, J	10	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	RE1		70 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	RE1		122 %	20-162%		"	"	"	

Sample ID: CFUA-6	Conventional Chemistry Parameters by APHA/EPA Methods								
% Solids		83		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460

Lab ID: 1102011-07		Soil - Sampled: 02/09/11 13:09							
Sample ID: CFUB-1	Organochlorine Pesticides by EPA Method 8081B								
alpha-BHC	RE1	ND	U	9.4	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
Dieldrin	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	16	C1, J	18	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	18	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	ND	U	18	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	14	C1, J	18	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	94	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	18	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	18	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	9.4	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	10		9.4	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	RE1		55 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	RE1		66 %	20-162%		"	"	"	

Sample ID: CFUB-1	Conventional Chemistry Parameters by APHA/EPA Methods								
% Solids		90		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460

Lab ID: 1102011-08		Soil - Sampled: 02/09/11 13:21							
Sample ID: CFUB-2	Organochlorine Pesticides by EPA Method 8081B								
alpha-BHC	RE1	ND	U	9.5	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	6.8	C1, J	9.5	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330



United States Environmental Protection Agency Region 9 Laboratory

1337 S. 46th Street, Building 201, Richmond, CA 94804
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Project Manager: Cameron McDonald Project Number: R11R03 Project: Western Environmental, Inc. 2011 RCRA Inspection	RCRA Enforcement Office 75 Hawthorne Street San Francisco CA, 94105	SDG: 11042A Reported: 03/28/11 15:36
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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-08

Soil - Sampled: 02/09/11 13:21

Sample ID: CFUB-2

Organochlorine Pesticides by EPA Method 8081B

Heptachlor	RE1	ND	U	9.5	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
Aldrin	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330
Dieldrin	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	51		18	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	18	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	16	C1, J	18	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	18	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	51		18	"	"	"	"	8081B/SOP330
Methoxychlor	RE1	ND	U	95	"	"	"	"	8081B/SOP330
Endrin ketone	RE1	ND	U	18	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	18	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	9.5	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	6.7	C1, J	9.5	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>RE1</i>		63 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	<i>RE1</i>		67 %	20-162%		"	"	"	

Sample ID: CFUB-2

Conventional Chemistry Parameters by APHA/EPA Methods

% Solids	89	1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460
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Lab ID: 1102011-09

Soil - Sampled: 02/09/11 13:38

Sample ID: CFUB-3

Organochlorine Pesticides by EPA Method 8081B

alpha-BHC	RE1	ND	U	9.7	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
beta-BHC	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
delta-BHC	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
Heptachlor	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
Aldrin	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
Heptachlor epoxide	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
Endosulfan I	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
Dieldrin	RE1	ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDE	RE1	72		19	"	"	"	"	8081B/SOP330
Endrin	RE1	ND	U	19	"	"	"	"	8081B/SOP330
Endosulfan II	RE1	ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDD	RE1	23		19	"	"	"	"	8081B/SOP330
Endosulfan sulfate	RE1	ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDT	RE1	81		19	"	"	"	"	8081B/SOP330



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Project Manager: Cameron McDonald Project Number: R11R03 Project: Western Environmental, Inc. 2011 RCRA Inspection	RCRA Enforcement Office 75 Hawthorne Street San Francisco CA, 94105	SDG: 11042A Reported: 03/28/11 15:36
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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
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Lab ID: 1102011-09 **Soil - Sampled: 02/09/11 13:38**

Sample ID:	CFUB-3	Organochlorine Pesticides by EPA Method 8081B							
Methoxychlor	RE1	ND	U	97	ug/kg dry	B1B0080	02/22/11	02/28/11	8081B/SOP330
Endrin ketone	RE1	ND	U	19	"	"	"	"	8081B/SOP330
Endrin aldehyde	RE1	ND	U	19	"	"	"	"	8081B/SOP330
alpha-Chlordane	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
gamma-Chlordane	RE1	ND	U	9.7	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>	RE1	60 %		20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>	RE1	82 %		20-162%		"	"	"	

Sample ID:	CFUB-3	Conventional Chemistry Parameters by APHA/EPA Methods							
% Solids		87		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460

Lab ID: 1102011-10 **Soil - Sampled: 02/09/11 13:46**

Sample ID:	CFUB-4	Organochlorine Pesticides by EPA Method 8081B							
alpha-BHC		ND	U	9.9	ug/kg dry	B1B0070	02/21/11	02/28/11	8081B/SOP330
beta-BHC		5.4	C1, J	9.9	"	"	"	"	8081B/SOP330
delta-BHC		ND	U	9.9	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)		ND	U	9.9	"	"	"	"	8081B/SOP330
Heptachlor		ND	U	9.9	"	"	"	"	8081B/SOP330
Aldrin		ND	U	9.9	"	"	"	"	8081B/SOP330
Heptachlor epoxide		ND	U	9.9	"	"	"	"	8081B/SOP330
Endosulfan I		ND	U	9.9	"	"	"	"	8081B/SOP330
Dieldrin		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDE		34		19	"	"	"	"	8081B/SOP330
Endrin		ND	U	19	"	"	"	"	8081B/SOP330
Endosulfan II		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDD		11	C1, J	19	"	"	"	"	8081B/SOP330
Endosulfan sulfate		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDT		31		19	"	"	"	"	8081B/SOP330
Methoxychlor		ND	U	99	"	"	"	"	8081B/SOP330
Endrin ketone		ND	U	19	"	"	"	"	8081B/SOP330
Endrin aldehyde		ND	U	19	"	"	"	"	8081B/SOP330
alpha-Chlordane		ND	U	9.9	"	"	"	"	8081B/SOP330
gamma-Chlordane		6.4	C1, J	9.9	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>		52 %		20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		62 %		20-162%		"	"	"	

Sample ID:	CFUB-4	Conventional Chemistry Parameters by APHA/EPA Methods							
% Solids		86		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460

Lab ID: 1102011-11 **Soil - Sampled: 02/09/11 13:48**

Sample ID: CFUB-5 **Organochlorine Pesticides by EPA Method 8081B**



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Sample Results

Analyte	Reanalysis / Extract	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 1102011-11		Soil - Sampled: 02/09/11 13:48							
Sample ID: CFUB-5		Organochlorine Pesticides by EPA Method 8081B							
alpha-BHC		ND	U	9.8	ug/kg dry	B1B0070	02/21/11	02/28/11	8081B/SOP330
beta-BHC		ND	U	9.8	"	"	"	"	8081B/SOP330
delta-BHC		ND	U	9.8	"	"	"	"	8081B/SOP330
gamma-BHC (Lindane)		ND	U	9.8	"	"	"	"	8081B/SOP330
Heptachlor		ND	U	9.8	"	"	"	"	8081B/SOP330
Aldrin		ND	U	9.8	"	"	"	"	8081B/SOP330
Heptachlor epoxide		ND	U	9.8	"	"	"	"	8081B/SOP330
Endosulfan I		ND	U	9.8	"	"	"	"	8081B/SOP330
Dieldrin		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDE		30		19	"	"	"	"	8081B/SOP330
Endrin		ND	U	19	"	"	"	"	8081B/SOP330
Endosulfan II		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDD		12	C1, J	19	"	"	"	"	8081B/SOP330
Endosulfan sulfate		ND	U	19	"	"	"	"	8081B/SOP330
4,4'-DDT		31		19	"	"	"	"	8081B/SOP330
Methoxychlor		ND	U	98	"	"	"	"	8081B/SOP330
Endrin ketone		ND	U	19	"	"	"	"	8081B/SOP330
Endrin aldehyde		ND	U	19	"	"	"	"	8081B/SOP330
alpha-Chlordane		ND	U	9.8	"	"	"	"	8081B/SOP330
gamma-Chlordane		ND	U	9.8	"	"	"	"	8081B/SOP330
<i>Surrogate: Tetrachloro-m-xylene</i>			35 %	20-165%		"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>			34 %	20-162%		"	"	"	
Sample ID: CFUB-5		Conventional Chemistry Parameters by APHA/EPA Methods							
% Solids		87		1	%	B1B0069	02/21/11	02/22/11	3550C/SOP460



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B1B0069 - Solids, Dry Weight (Prep) - Solids, Dry Weight

Prepared: 02/21/11 Analyzed: 02/22/11

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Blank (B1B0069-BLK1)										
% Solids	ND	U		1 %						
Blank (B1B0069-BLK2)										
% Solids	ND	U		1 %						
Duplicate (B1B0069-DUP1) Source: 1102011-06										
% Solids	83			1 %		83			0.3	20
Duplicate (B1B0069-DUP2) Source: 1102011-19										
% Solids	87			1 %		86			0.8	20

Batch B1B0070 - 3545A ASE/PFE - OC Pesticides

Prepared: 02/21/11 Analyzed: 03/01/11

Organochlorine Pesticides by EPA Method 8081B - Quality Control

Blank (B1B0070-BLK1)										
alpha-BHC	ND	U		1.7 ug/kg wet						
beta-BHC	ND	U		1.7 "						
delta-BHC	ND	U		1.7 "						
gamma-BHC (Lindane)	ND	U		1.7 "						
Heptachlor	ND	U		1.7 "						
Aldrin	ND	U		1.7 "						
Heptachlor epoxide	ND	U		1.7 "						
Endosulfan I	ND	U		1.7 "						
Dieldrin	ND	U		3.3 "						
4,4'-DDE	ND	U		3.3 "						
Endrin	ND	U		3.3 "						
Endosulfan II	ND	U		3.3 "						
4,4'-DDD	ND	U		3.3 "						
Endosulfan sulfate	ND	U		3.3 "						
4,4'-DDT	ND	U		3.3 "						
Methoxychlor	ND	U		17 "						
Endrin ketone	ND	U		3.3 "						
Endrin aldehyde	ND	U		3.3 "						
alpha-Chlordane	ND	U		1.7 "						
gamma-Chlordane	ND	U		1.7 "						
Chlordane (technical)	ND	U		170 "						
Toxaphene	ND	U		170 "						

Surrogate: Tetrachloro-m-xylene	4.4	"	6.67	66	20-165
Surrogate: Decachlorobiphenyl	5.1	"	6.67	76	20-162

LCS (B1B0070-BS1)										
alpha-BHC	5.1			1.7 ug/kg wet	6.67		77	65-135		200
beta-BHC	5.5			1.7 "	6.67		82	65-135		200
delta-BHC	5.4			1.7 "	6.67		81	65-135		200
gamma-BHC (Lindane)	5.1			1.7 "	6.67		77	65-135		200



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B1B0070 - 3545A ASE/PFE - OC Pesticides

Prepared: 02/21/11 Analyzed: 03/01/11

Organochlorine Pesticides by EPA Method 8081B - Quality Control

LCS (B1B0070-BS1)

Heptachlor	5.2		1.7	"	6.67		77	65-135		200
Aldrin	5.1		1.7	"	6.67		77	65-135		200
Heptachlor epoxide	5.4		1.7	"	6.67		81	65-135		200
Endosulfan I	5		1.7	"	6.67		75	65-135		200
Dieldrin	11.5		3.3	"	13.3		86	65-135		200
4,4'-DDE	11.9		3.3	"	13.3		89	65-135		200
Endrin	12.1		3.3	"	13.3		90	65-135		200
Endosulfan II	10.8		3.3	"	13.3		81	65-135		200
4,4'-DDD	12.3		3.3	"	13.3		92	65-135		200
Endosulfan sulfate	11.9		3.3	"	13.3		89	65-135		200
4,4'-DDT	12.3		3.3	"	13.3		92	65-135		200
Methoxychlor	61.9		17	"	66.7		93	65-135		200
Endrin ketone	12		3.3	"	13.3		90	65-135		200
Endrin aldehyde	9.2		3.3	"	13.3		69	65-135		200
alpha-Chlordane	5.5		1.7	"	6.67		82	65-135		200
gamma-Chlordane	5.4		1.7	"	6.67		81	65-135		200

Surrogate: Tetrachloro-m-xylene 4.5 " 6.67 68 20-165

Surrogate: Decachlorobiphenyl 5.5 " 6.67 83 20-162

Batch B1B0080 - 3545A ASE/PFE - OC Pesticides

Prepared: 02/22/11 Analyzed: 03/01/11

Organochlorine Pesticides by EPA Method 8081B - Quality Control

Blank (B1B0080-BLK1)

alpha-BHC	ND	U			1.7	ug/kg wet				
beta-BHC	ND	U			1.7	"				
delta-BHC	ND	U			1.7	"				
gamma-BHC (Lindane)	ND	U			1.7	"				
Heptachlor	ND	U			1.7	"				
Aldrin	ND	U			1.7	"				
Heptachlor epoxide	ND	U			1.7	"				
Endosulfan I	ND	U			1.7	"				
Dieldrin	ND	U			3.3	"				
4,4'-DDE	ND	U			3.3	"				
Endrin	ND	U			3.3	"				
Endosulfan II	ND	U			3.3	"				
4,4'-DDD	ND	U			3.3	"				
Endosulfan sulfate	ND	U			3.3	"				
4,4'-DDT	ND	U			3.3	"				
Methoxychlor	ND	U			17	"				
Endrin ketone	ND	U			3.3	"				
Endrin aldehyde	ND	U			3.3	"				
alpha-Chlordane	ND	U			1.7	"				



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B1B0080 - 3545A ASE/PFE - OC Pesticides

Prepared: 02/22/11 Analyzed: 03/01/11

Organochlorine Pesticides by EPA Method 8081B - Quality Control

Blank (B1B0080-BLK1)

gamma-Chlordane	ND	U	1.7	"						
Chlordane (technical)	ND	U	170	"						
Toxaphene	ND	U	170	"						

<i>Surrogate: Tetrachloro-m-xylene</i>	4.7			"	6.67		71	20-165		
<i>Surrogate: Decachlorobiphenyl</i>	5.4			"	6.67		81	20-162		

LCS (B1B0080-BS1)

alpha-BHC	5.1		1.7	ug/kg wet	6.67		77	65-135		200
beta-BHC	5.4		1.7	"	6.67		81	65-135		200
delta-BHC	5.3		1.7	"	6.67		80	65-135		200
gamma-BHC (Lindane)	5.2		1.7	"	6.67		78	65-135		200
Heptachlor	5.3		1.7	"	6.67		79	65-135		200
Aldrin	5.1		1.7	"	6.67		77	65-135		200
Heptachlor epoxide	5.5		1.7	"	6.67		83	65-135		200
Endosulfan I	4.9		1.7	"	6.67		73	65-135		200
Dieldrin	11.2		3.3	"	13.3		84	65-135		200
4,4'-DDE	11.6		3.3	"	13.3		87	65-135		200
Endrin	11.8		3.3	"	13.3		89	65-135		200
Endosulfan II	10.5		3.3	"	13.3		79	65-135		200
4,4'-DDD	11.9		3.3	"	13.3		89	65-135		200
Endosulfan sulfate	11.9		3.3	"	13.3		90	65-135		200
4,4'-DDT	12		3.3	"	13.3		90	65-135		200
Methoxychlor	59.9		17	"	66.7		90	65-135		200
Endrin ketone	11.6		3.3	"	13.3		87	65-135		200
Endrin aldehyde	9.2		3.3	"	13.3		69	65-135		200
alpha-Chlordane	5.5		1.7	"	6.67		82	65-135		200
gamma-Chlordane	5.4		1.7	"	6.67		82	65-135		200

<i>Surrogate: Tetrachloro-m-xylene</i>	4.7			"	6.67		70	20-165		
<i>Surrogate: Decachlorobiphenyl</i>	5.5			"	6.67		83	20-162		

Matrix Spike (B1B0080-MS1)

Source: 1102011-01RE2

alpha-BHC	1.4	C1, J	2.1	ug/kg dry	8.13	1.9	NR	65-135		20
beta-BHC	13.4		2.1	"	8.13	10	43	65-135		20
delta-BHC	ND	U	2.1	"	8.13	ND		65-135		20
gamma-BHC (Lindane)	ND	U	2.1	"	8.13	ND		65-135		20
Heptachlor	5.2		2.1	"	8.13	ND	64	65-135		20
Aldrin	5.4		2.1	"	8.13	1.7	47	65-135		20
Heptachlor epoxide	14.2		2.1	"	8.13	10.2	50	65-135		20
Endosulfan I	1.1	C1, J	2.1	"	8.13	ND	13	65-135		20



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Quality Control

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B1B0080 - 3545A ASE/PFE - OC Pesticides

Prepared: 02/22/11 Analyzed: 03/02/11

Organochlorine Pesticides by EPA Method 8081B - Quality Control

Matrix Spike (B1B0080-MS1)		Source: 1102011-01RE2								
Dieldrin	34.3		4	"	16.3	33.7	4	65-135		20
4,4'-DDE	69.3		4	"	16.3	59	63	65-135		20
Endrin	12.4		4	"	16.3	ND	76	65-135		20
Endosulfan II	ND	U	4	"	16.3	ND		65-135		20
4,4'-DDD	24		4	"	16.3	16.2	48	65-135		20
Endosulfan sulfate	ND	U	4	"	16.3	ND		65-135		20
4,4'-DDT	39.1		4	"	16.3	30	56	65-135		20
Methoxychlor	60.9		21	"	81.3	ND	75	65-135		20
Endrin ketone	7.3		4	"	16.3	ND	45	65-135		20
Endrin aldehyde	13.1		4	"	16.3	7.8	33	65-135		20
alpha-Chlordane	8.1		2.1	"	8.13	ND	99	65-135		20
gamma-Chlordane	10.8		2.1	"	8.13	6.9	47	65-135		20

Surrogate: Tetrachloro-m-xylene	7.3			"	8.13		89	20-165		
Surrogate: Decachlorobiphenyl	8.9			"	8.13		110	20-162		

Matrix Spike Dup (B1B0080-MSD1)		Source: 1102011-01RE2								
alpha-BHC	1.4	C1, J	2.1	ug/kg dry	8.16	1.9	NR	65-135	0.8	20
beta-BHC	9.7		2.1	"	8.16	10.9	NR	65-135	35	20
delta-BHC	ND	U	2.1	"	8.16	ND		65-135		20
gamma-BHC (Lindane)	ND	U	2.1	"	8.16	ND		65-135		20
Heptachlor	3.6		2.1	"	8.16	ND	44	65-135	36	20
Aldrin	3.2		2.1	"	8.16	1.7	19	65-135	52	20
Heptachlor epoxide	10.3		2.1	"	8.16	10.2	2	65-135	32	20
Endosulfan I	1.1	C1, J	2.1	"	8.16	ND	14	65-135	4	20
Dieldrin	29.5		4	"	16.3	36.5	NR	65-135	31	20
4,4'-DDE	49.3		4	"	16.3	56.1	NR	65-135	35	20
Endrin	8.7		4	"	16.3	ND	53	65-135	35	20
Endosulfan II	ND	U	4	"	16.3	ND		65-135		20
4,4'-DDD	16.3		4	"	16.3	16.2	0.7	65-135	38	20
Endosulfan sulfate	ND	U	4	"	16.3	ND		65-135		20
4,4'-DDT	19.1		4	"	16.3	30	NR	65-135	69	20
Methoxychlor	42.1		21	"	81.6	ND	52	65-135	37	20
Endrin ketone	4.7		4	"	16.3	ND	29	65-135	49	20
Endrin aldehyde	9.1		4	"	16.3	ND	56	65-135	73	20
alpha-Chlordane	5		2.1	"	8.16	ND	61	65-135	47	20
gamma-Chlordane	8.9		2.1	"	8.16	6.9	24	65-135	19	20

Surrogate: Tetrachloro-m-xylene	5.2			"	8.16		64	20-165		
Surrogate: Decachlorobiphenyl	6.9			"	8.16		84	20-162		



United States Environmental Protection Agency
Region 9 Laboratory

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Project Manager: Cameron McDonald

RCRA Enforcement Office

SDG: 11042A

Project Number: R11R03

75 Hawthorne Street

Reported: 03/28/11 15:36

Project: Western Environmental, Inc. 2011 RCRA
Inspection

San Francisco CA, 94105

Qualifiers and Comments

Q6 Matrix spike/matrix spike duplicate precision criteria were not met for this analyte (see MS/MSD results for this batch in QC summary).

Q4 The matrix spike and/or matrix spike duplicate associated with this sample did not meet recovery criteria for this analyte (see MS/MSD results for this batch in QC summary)

N This analyte is tentatively identified.

J The reported result for this analyte should be considered an estimated value.

G1 The results from the two columns for this compound do not meet the dual column percent difference criteria for positive identification.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported

RE1, RE2, etc: Result is from a sample re-analysis.