American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Joel Hebdon

115 East 1280 North
Pleasant Grove, UT 84062
TEL: (801) 785-0126

RE: Clyde Ohio

Dear Joel Hebdon: Lab Set ID: 1303132

American West Analytical Laboratories received 10 sample(s) on 3/8/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Kyle F. Gross

Digitally signed by Kyle F. Gross
DN: cn=Kyle F. Gross, o=AWAL, ou=AWAL-Laboratory Director, email=kyle@awal-labs.com, c=US
Date: 2013.03.22 07:53:58 -06'00'

Laboratory Director or designee

Partial Report

INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-002
Client Sample ID: 1B Vacuum / Mead
Collection Date: 3/4/2013 0925h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-wet	3/11/2013 1130h	3/11/2013 1559h	SW6020A	1.55	< 1.55	
Barium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2106h	SW6020A	2.79	**5.20**	
Cadmium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2106h	SW6020A	0.527	< 0.527	*
Chromium	mg/kg-wet	3/11/2013 1130h	3/12/2013 1137h	SW6010C	6.20	< 6.20	*
Lead	mg/kg-wet	3/11/2013 1130h	3/12/2013 1137h	SW6010C	31.0	**42.9**	
Mercury	mg/kg-wet	3/12/2013 1200h	3/13/2013 1230h	SW7471B	0.0357	< 0.0357	
Selenium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2106h	SW6020A	5.27	< 5.27	*
Silver	mg/kg-wet	3/11/2013 1130h	3/14/2013 2106h	SW6020A	0.929	< 0.929	*

** - The reporting limits were raised due to sample matrix interferences.*

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Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-004
Client Sample ID: 2B Vacuum / Brown
Collection Date: 3/4/2013 1315h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-wet	3/11/2013 1130h	3/11/2013 1604h	SW6020A	1.03	< 1.03	
Barium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2111h	SW6020A	1.85	< 1.85	*
Cadmium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2111h	SW6020A	0.350	< 0.350	*
Chromium	mg/kg-wet	3/11/2013 1130h	3/12/2013 1141h	SW6010C	4.12	< 4.12	*
Lead	mg/kg-wet	3/11/2013 1130h	3/12/2013 1141h	SW6010C	20.6	< 20.6	*
Mercury	mg/kg-wet	3/12/2013 1200h	3/13/2013 1236h	SW7471B	0.0400	< 0.0400	
Selenium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2111h	SW6020A	3.50	< 3.50	*
Silver	mg/kg-wet	3/11/2013 1130h	3/14/2013 2111h	SW6020A	0.617	< 0.617	*

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INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-006
Client Sample ID: 3B Vacuum / Donnersbach
Collection Date: 3/4/2013 1510h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-wet	3/11/2013 1130h	3/11/2013 1608h	SW6020A	0.864	< 0.864	
Barium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2133h	SW6020A	1.56	**7.20**	
Cadmium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2133h	SW6020A	0.294	< 0.294	*
Chromium	mg/kg-wet	3/11/2013 1130h	3/12/2013 1145h	SW6010C	3.46	< 3.46	*
Lead	mg/kg-wet	3/11/2013 1130h	3/12/2013 1145h	SW6010C	17.3	< 17.3	*
Mercury	mg/kg-wet	3/12/2013 1200h	3/13/2013 1237h	SW7471B	0.0370	**0.0609**	
Selenium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2133h	SW6020A	2.94	< 2.94	*
Silver	mg/kg-wet	3/11/2013 1130h	3/14/2013 2133h	SW6020A	0.519	< 0.519	*

** - The reporting limits were raised due to sample matrix interferences.*

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INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-007
Client Sample ID: 4A Wipe / Keller Rental
Collection Date: 3/4/2013 1555h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-wet	3/11/2013 1130h	3/11/2013 1613h	SW6020A	1.70	< 1.70	
Barium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2138h	SW6020A	3.07	**25.3**	
Cadmium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2138h	SW6020A	0.579	< 0.579	*
Chromium	mg/kg-wet	3/11/2013 1130h	3/12/2013 1149h	SW6010C	6.81	< 6.81	*
Lead	mg/kg-wet	3/11/2013 1130h	3/12/2013 1149h	SW6010C	34.1	< 34.1	*
Mercury	mg/kg-wet	3/12/2013 1200h	3/13/2013 1239h	SW7471B	0.200	< 0.200	
Selenium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2138h	SW6020A	5.79	< 5.79	*
Silver	mg/kg-wet	3/11/2013 1130h	3/14/2013 2138h	SW6020A	1.02	< 1.02	*

** - The reporting limits were raised due to sample matrix interferences.*

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INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-008
Client Sample ID: Clyde Water Treatment
Collection Date: 3/6/2013 0800h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.0100	**0.0927**	
Barium	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.0100	**4.76**	
Cadmium	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.00250	< 0.00250	†
Chromium	mg/L	3/11/2013 1530h	3/19/2013 0058h	SW6020A	0.0100	**1.35**	
Lead	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.0100	**0.0294**	
Mercury	mg/L	3/12/2013 1400h	3/13/2013 0941h	SW7470A	0.00150	< 0.00150	*
Selenium	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.0100	**0.0119**	
Silver	mg/L	3/11/2013 1530h	3/17/2013 1939h	SW6020A	0.0100	< 0.0100	†

** - The reporting limits were raised due to sample matrix interferences.*
† - The reporting limits were raised due to insufficient sample volume/mass to meet normal method requirements.

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Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-010
Client Sample ID: 5B Vacuum / Brewer
Collection Date: 3/6/2013 0950h
Received Date: 3/8/2013 0852h

Analytical Results TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-wet	3/11/2013 1130h	3/11/2013 1618h	SW6020A	1.09	**4.64**	
Barium	mg/kg-wet	3/11/2013 1130h	3/15/2013 1622h	SW6020A	3.93	**251**	
Cadmium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2143h	SW6020A	0.371	**2.87**	
Chromium	mg/kg-wet	3/11/2013 1130h	3/12/2013 1153h	SW6010C	4.37	**17.8**	
Lead	mg/kg-wet	3/11/2013 1130h	3/12/2013 1238h	SW6010C	218	**26,600**	
Mercury	mg/kg-wet	3/12/2013 1200h	3/13/2013 1241h	SW7471B	0.0357	**0.403**	
Selenium	mg/kg-wet	3/11/2013 1130h	3/14/2013 2143h	SW6020A	3.71	< 3.71	*
Silver	mg/kg-wet	3/11/2013 1130h	3/14/2013 2143h	SW6020A	0.655	**0.659**	

** - The reporting limits were raised due to sample matrix interferences.*

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Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-002A
Client Sample ID: 1B Vacuum / Mead
Collection Date: 3/4/2013 0925h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3546

Analyzed: 3/12/2013 1331h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	6.98	< 6.98	
4,4´-DDE	72-55-9	6.98	< 6.98	
4,4´-DDT	50-29-3	6.98	< 6.98	
Aldrin	309-00-2	6.98	< 6.98	
alpha-BHC	319-84-6	6.98	< 6.98	
alpha-Chlordane	5103-71-9	6.98	< 6.98	
beta-BHC	319-85-7	6.98	< 6.98	
Chlordane, total	57-74-9	34.9	< 34.9	
delta-BHC	319-86-8	6.98	< 6.98	
Dieldrin	60-57-1	6.98	< 6.98	
Endosulfan I	959-98-8	6.98	< 6.98	
Endosulfan II	33213-65-9	6.98	< 6.98	
Endosulfan sulfate	1031-07-8	6.98	< 6.98	
Endrin	72-20-8	6.98	< 6.98	
Endrin aldehyde	7421-93-4	6.98	< 6.98	
Endrin ketone	53494-70-5	6.98	< 6.98	
gamma-BHC	58-89-9	6.98	< 6.98	
gamma-Chlordane	5566-34-7	6.98	< 6.98	
Heptachlor	76-44-8	6.98	< 6.98	
Heptachlor epoxide	1024-57-3	6.98	< 6.98	
Methoxychlor	72-43-5	34.9	< 34.9	
Toxaphene	8001-35-2	69.8	< 69.8	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	103	116.3	88.5	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	31.0	116.3	26.6	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-004A
Client Sample ID: 2B Vacuum / Brown
Collection Date: 3/4/2013 1315h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3546

Analyzed: 3/12/2013 1357h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	10.5	< 10.5	
4,4´-DDE	72-55-9	10.5	< 10.5	
4,4´-DDT	50-29-3	10.5	< 10.5	
Aldrin	309-00-2	10.5	< 10.5	
alpha-BHC	319-84-6	10.5	< 10.5	
alpha-Chlordane	5103-71-9	10.5	< 10.5	
beta-BHC	319-85-7	10.5	< 10.5	
Chlordane, total	57-74-9	52.6	< 52.6	
delta-BHC	319-86-8	10.5	< 10.5	
Dieldrin	60-57-1	10.5	< 10.5	
Endosulfan I	959-98-8	10.5	< 10.5	
Endosulfan II	33213-65-9	10.5	< 10.5	
Endosulfan sulfate	1031-07-8	10.5	< 10.5	
Endrin	72-20-8	10.5	< 10.5	
Endrin aldehyde	7421-93-4	10.5	< 10.5	
Endrin ketone	53494-70-5	10.5	< 10.5	
gamma-BHC	58-89-9	10.5	< 10.5	
gamma-Chlordane	5566-34-7	10.5	< 10.5	
Heptachlor	76-44-8	10.5	< 10.5	
Heptachlor epoxide	1024-57-3	10.5	< 10.5	
Methoxychlor	72-43-5	52.6	< 52.6	
Toxaphene	8001-35-2	105	< 105	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	197	175.4	112	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	68.8	175.4	39.2	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-006A
Client Sample ID: 3B Vacuum / Donnersbach
Collection Date: 3/4/2013 1510h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3546

Analyzed: 3/15/2013 1917h **Extracted:** 3/11/2013 0855h
Units: µg/kg **Dilution Factor:** 5 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Chlordane, total	57-74-9	236	**584**	*

** - The reporting limits were raised due to sample matrix interferences.*
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

Analyzed: 3/12/2013 1423h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	9.45	< 9.45	
4,4´-DDE	72-55-9	9.45	< 9.45	
4,4´-DDT	50-29-3	9.45	< 9.45	
Aldrin	309-00-2	9.45	< 9.45	
alpha-BHC	319-84-6	9.45	< 9.45	
alpha-Chlordane	5103-71-9	9.45	**52.6**	
beta-BHC	319-85-7	9.45	< 9.45	
delta-BHC	319-86-8	9.45	< 9.45	
Dieldrin	60-57-1	9.45	< 9.45	
Endosulfan I	959-98-8	9.45	< 9.45	
Endosulfan II	33213-65-9	9.45	< 9.45	
Endosulfan sulfate	1031-07-8	9.45	< 9.45	
Endrin	72-20-8	9.45	< 9.45	
Endrin aldehyde	7421-93-4	9.45	< 9.45	
Endrin ketone	53494-70-5	9.45	< 9.45	
gamma-BHC	58-89-9	9.45	< 9.45	
gamma-Chlordane	5566-34-7	9.45	**81.5**	
Heptachlor	76-44-8	9.45	< 9.45	
Heptachlor epoxide	1024-57-3	9.45	< 9.45	
Methoxychlor	72-43-5	47.2	< 47.2	
Toxaphene	8001-35-2	94.5	< 94.5	

Lab Sample ID: 1303132-006A
Client Sample ID: 3B Vacuum / Donnersbach

Analyzed: 3/12/2013 1423h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	162	157.5	103	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	42.6	157.5	27.1	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

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Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-007A
Client Sample ID: 4A Wipe / Keller Rental
Collection Date: 3/4/2013 1555h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3546

Analyzed: 3/12/2013 1449h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	52.2	< 52.2	
4,4´-DDE	72-55-9	52.2	< 52.2	
4,4´-DDT	50-29-3	52.2	**355**	
Aldrin	309-00-2	52.2	< 52.2	
alpha-BHC	319-84-6	52.2	< 52.2	
alpha-Chlordane	5103-71-9	52.2	< 52.2	
beta-BHC	319-85-7	52.2	< 52.2	
Chlordane, total	57-74-9	261	< 261	
delta-BHC	319-86-8	52.2	< 52.2	
Dieldrin	60-57-1	52.2	< 52.2	
Endosulfan I	959-98-8	52.2	< 52.2	
Endosulfan II	33213-65-9	52.2	< 52.2	
Endosulfan sulfate	1031-07-8	52.2	< 52.2	
Endrin	72-20-8	52.2	< 52.2	
Endrin aldehyde	7421-93-4	52.2	< 52.2	
Endrin ketone	53494-70-5	52.2	< 52.2	
gamma-BHC	58-89-9	52.2	< 52.2	
gamma-Chlordane	5566-34-7	52.2	< 52.2	
Heptachlor	76-44-8	52.2	< 52.2	
Heptachlor epoxide	1024-57-3	52.2	< 52.2	
Methoxychlor	72-43-5	261	< 261	
Toxaphene	8001-35-2	522	< 522	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	1,130	869.6	130	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	756	869.6	87.0	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

ORGANIC ANALYTICAL REPORT

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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-008A
Client Sample ID: Clyde Water Treatment
Collection Date: 3/6/2013 0800h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3510C

Analyzed: 3/11/2013 1214h **Extracted:** 3/8/2013 1250h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	1.43	< 1.43	
4,4´-DDE	72-55-9	1.43	< 1.43	
4,4´-DDT	50-29-3	1.43	< 1.43	
Aldrin	309-00-2	1.43	< 1.43	
alpha-BHC	319-84-6	1.43	< 1.43	
alpha-Chlordane	5103-71-9	1.43	< 1.43	
beta-BHC	319-85-7	1.43	< 1.43	
Chlordane, total	57-74-9	14.3	< 14.3	
delta-BHC	319-86-8	1.43	< 1.43	
Dieldrin	60-57-1	1.43	< 1.43	
Endosulfan I	959-98-8	1.43	< 1.43	
Endosulfan II	33213-65-9	1.43	< 1.43	
Endosulfan sulfate	1031-07-8	1.43	< 1.43	
Endrin	72-20-8	1.43	< 1.43	
Endrin aldehyde	7421-93-4	1.43	< 1.43	
Endrin ketone	53494-70-5	1.43	< 1.43	
gamma-BHC	58-89-9	1.43	< 1.43	
gamma-Chlordane	5566-34-7	1.43	< 1.43	
Heptachlor	76-44-8	1.43	< 1.43	
Heptachlor epoxide	1024-57-3	1.43	< 1.43	
Methoxychlor	72-43-5	1.43	< 1.43	
Toxaphene	8001-35-2	17.9	< 17.9	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	35.3	35.71	98.7	46-140	
Surr: Tetrachloro-m-xylene	877-09-8	20.2	35.71	56.7	28-140	

Insufficient sample was received to comply with method requirements.
Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.

ORGANIC ANALYTICAL REPORT

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

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Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-010A
Client Sample ID: 5B Vacuum / Brewer
Collection Date: 3/6/2013 0950h
Received Date: 3/8/2013 0852h

Analytical Results Organochlorine Pests. By GC/ECD Method 8081B/3546

Analyzed: 3/12/2013 1516h **Extracted:** 3/11/2013 0855h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8081B

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4,4´-DDD	72-54-8	6.59	< 6.59	
4,4´-DDE	72-55-9	6.59	< 6.59	
4,4´-DDT	50-29-3	6.59	< 6.59	
Aldrin	309-00-2	6.59	< 6.59	
alpha-BHC	319-84-6	6.59	< 6.59	
alpha-Chlordane	5103-71-9	6.59	< 6.59	
beta-BHC	319-85-7	6.59	< 6.59	
Chlordane, total	57-74-9	33.0	< 33.0	
delta-BHC	319-86-8	6.59	< 6.59	
Dieldrin	60-57-1	6.59	< 6.59	
Endosulfan I	959-98-8	6.59	< 6.59	
Endosulfan II	33213-65-9	6.59	< 6.59	
Endosulfan sulfate	1031-07-8	6.59	< 6.59	
Endrin	72-20-8	6.59	< 6.59	
Endrin aldehyde	7421-93-4	6.59	< 6.59	
Endrin ketone	53494-70-5	6.59	< 6.59	
gamma-BHC	58-89-9	6.59	< 6.59	
gamma-Chlordane	5566-34-7	6.59	< 6.59	
Heptachlor	76-44-8	6.59	< 6.59	
Heptachlor epoxide	1024-57-3	6.59	< 6.59	
Methoxychlor	72-43-5	33.0	< 33.0	
Toxaphene	8001-35-2	65.9	< 65.9	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	145	109.9	132	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	33.3	109.9	30.3	10-135	

ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-002A
Client Sample ID: 1B Vacuum / Mead
Collection Date: 3/4/2013 0925h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3546

Analyzed: 3/12/2013 1204h **Extracted:** 3/11/2013 0905h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	167	< 167	
Aroclor 1221	11104-28-2	167	< 167	
Aroclor 1232	11141-16-5	167	< 167	
Aroclor 1242	53469-21-9	167	< 167	
Aroclor 1248	12672-29-6	167	< 167	
Aroclor 1254	11097-69-1	167	< 167	
Aroclor 1260	11096-82-5	167	< 167	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	75.0	55.56	135	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	33.5	55.56	60.2	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

American West ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-004A
Client Sample ID: 2B Vacuum / Brown
Collection Date: 3/4/2013 1315h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3546

Analyzed: 3/12/2013 1223h **Extracted:** 3/11/2013 0905h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	172	< 172	
Aroclor 1221	11104-28-2	172	< 172	
Aroclor 1232	11141-16-5	172	< 172	
Aroclor 1242	53469-21-9	172	< 172	
Aroclor 1248	12672-29-6	172	< 172	
Aroclor 1254	11097-69-1	172	< 172	
Aroclor 1260	11096-82-5	172	< 172	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	69.1	57.47	120	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	23.3	57.47	40.5	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

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Kyle F. Gross
Laboratory Director

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QA Officer

ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-006A
Client Sample ID: 3B Vacuum / Donnersbach
Collection Date: 3/4/2013 1510h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3546

Analyzed: 3/12/2013 1243h **Extracted:** 3/11/2013 0905h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	200	< 200	
Aroclor 1221	11104-28-2	200	< 200	
Aroclor 1232	11141-16-5	200	< 200	
Aroclor 1242	53469-21-9	200	< 200	
Aroclor 1248	12672-29-6	200	< 200	
Aroclor 1254	11097-69-1	200	< 200	
Aroclor 1260	11096-82-5	200	< 200	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	99.0	66.67	148	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	19.7	66.67	29.6	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

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Laboratory Director

Jose Rocha
QA Officer

ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-007A
Client Sample ID: 4A Wipe / Keller Rental
Collection Date: 3/4/2013 1555h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3546

Analyzed: 3/12/2013 1302h **Extracted:** 3/11/2013 0905h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	1,580	< 1,580	
Aroclor 1221	11104-28-2	1,580	< 1,580	
Aroclor 1232	11141-16-5	1,580	< 1,580	
Aroclor 1242	53469-21-9	1,580	< 1,580	
Aroclor 1248	12672-29-6	1,580	< 1,580	
Aroclor 1254	11097-69-1	1,580	< 1,580	
Aroclor 1260	11096-82-5	1,580	< 1,580	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	735	526.3	140	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	466	526.3	88.5	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

463 West 3600 South
Salt Lake City, UT 84115

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Kyle F. Gross
Laboratory Director

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ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-008A
Client Sample ID: Clyde Water Treatment
Collection Date: 3/6/2013 0800h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3510C

Analyzed: 3/8/2013 1724h **Extracted:** 3/8/2013 1253h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	35.7	< 35.7	
Aroclor 1221	11104-28-2	35.7	< 35.7	
Aroclor 1232	11141-16-5	35.7	< 35.7	
Aroclor 1242	53469-21-9	35.7	< 35.7	
Aroclor 1248	12672-29-6	35.7	< 35.7	
Aroclor 1254	11097-69-1	35.7	< 35.7	
Aroclor 1260	11096-82-5	35.7	< 35.7	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	13.2	17.86	74.1	10-123	
Surr: Tetrachloro-m-xylene	877-09-8	7.70	17.86	43.1	15-124	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

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Salt Lake City, UT 84115

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ORGANIC ANALYTICAL REPORT

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-010A
Client Sample ID: 5B Vacuum / Brewer
Collection Date: 3/6/2013 0950h
Received Date: 3/8/2013 0852h

Analytical Results PCBs by GC/ECD Method 8082A/3546

Analyzed: 3/12/2013 1321h **Extracted:** 3/11/2013 0905h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8082A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Aroclor 1016	12674-11-2	139	< 139	
Aroclor 1221	11104-28-2	139	< 139	
Aroclor 1232	11141-16-5	139	< 139	
Aroclor 1242	53469-21-9	139	< 139	
Aroclor 1248	12672-29-6	139	< 139	
Aroclor 1254	11097-69-1	139	< 139	
Aroclor 1260	11096-82-5	139	< 139	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: Decachlorobiphenyl	2051-24-3	67.9	46.30	147	10-180	
Surr: Tetrachloro-m-xylene	877-09-8	24.5	46.30	53.0	10-135	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.
Sulfuric acid cleanup method 3665A utilized for this sample.

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Laboratory Director

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QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-002A
Client Sample ID: 1B Vacuum / Mead
Collection Date: 3/4/2013 0925h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3550C

Analyzed: 3/12/2013 1553h **Extracted:** 3/11/2013 0953h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	114	< 114	
2,4,5-TP	93-72-1	114	< 114	
2,4-D	94-75-7	114	< 114	
2,4-DB	94-82-6	114	< 114	
3,5-Dichlorobenzoic acid	51-36-5	114	< 114	
4-Nitrophenol	100-02-7	114	< 114	
Acifluorfen	50594-66-6	114	< 114	
Bentazon	25057-89-0	114	< 114	
Chloramben	133-90-4	114	< 114	
Dalapon	75-99-0	114	< 114	
DCPA	1861-32-1	114	< 114	
Dicamba	1918-00-9	114	< 114	
Dichloroprop	120-36-5	114	< 114	
Dinoseb	88-85-7	114	< 114	
MCPA	94-74-6	5,680	< 5,680	
MCPP	93-65-2	5,680	< 5,680	
Pentachlorophenol	87-86-5	114	< 114	
Picloram	1918-02-1	114	< 114	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	2,360	2,273	104	16-144	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

ORGANIC ANALYTICAL REPORT

463 West 3600 South
Salt Lake City, UT 84115

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:
Contact: Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-004A
Client Sample ID: 2B Vacuum / Brown
Collection Date: 3/4/2013 1315h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3550C

Analyzed: 3/12/2013 1619h **Extracted:** 3/11/2013 0953h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	128	< 128	
2,4,5-TP	93-72-1	128	< 128	
2,4-D	94-75-7	128	< 128	
2,4-DB	94-82-6	128	< 128	
3,5-Dichlorobenzoic acid	51-36-5	128	< 128	
4-Nitrophenol	100-02-7	128	< 128	
Acifluorfen	50594-66-6	128	< 128	
Bentazon	25057-89-0	128	< 128	
Chloramben	133-90-4	128	< 128	
Dalapon	75-99-0	128	< 128	
DCPA	1861-32-1	128	< 128	
Dicamba	1918-00-9	128	< 128	
Dichloroprop	120-36-5	128	< 128	
Dinoseb	88-85-7	128	< 128	
MCPA	94-74-6	6,410	< 6,410	
MCPP	93-65-2	6,410	< 6,410	
Pentachlorophenol	87-86-5	128	< 128	
Picloram	1918-02-1	128	< 128	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	2,300	2,564	89.6	16-144	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

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Salt Lake City, UT 84115

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web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-006A
Client Sample ID: 3B Vacuum / Donnersbach
Collection Date: 3/4/2013 1510h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3550C

Analyzed: 3/12/2013 1645h **Extracted:** 3/11/2013 0953h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	107	< 107	
2,4,5-TP	93-72-1	107	< 107	
2,4-D	94-75-7	107	< 107	
2,4-DB	94-82-6	107	< 107	
3,5-Dichlorobenzoic acid	51-36-5	107	< 107	
4-Nitrophenol	100-02-7	107	< 107	
Acifluorfen	50594-66-6	107	< 107	
Bentazon	25057-89-0	107	< 107	
Chloramben	133-90-4	107	< 107	
Dalapon	75-99-0	107	< 107	
DCPA	1861-32-1	107	< 107	
Dicamba	1918-00-9	107	< 107	
Dichloroprop	120-36-5	107	< 107	
Dinoseb	88-85-7	107	< 107	
MCPA	94-74-6	5,360	< 5,360	
MCPP	93-65-2	5,360	< 5,360	
Pentachlorophenol	87-86-5	107	< 107	
Picloram	1918-02-1	107	< 107	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	1,860	2,143	87.0	16-144	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

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Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-007A
Client Sample ID: 4A Wipe / Keller Rental
Collection Date: 3/4/2013 1555h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3550C

Analyzed: 3/12/2013 1711h **Extracted:** 3/11/2013 0953h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	750	< 750	
2,4,5-TP	93-72-1	750	< 750	
2,4-D	94-75-7	750	< 750	
2,4-DB	94-82-6	750	< 750	
3,5-Dichlorobenzoic acid	51-36-5	750	< 750	
4-Nitrophenol	100-02-7	750	< 750	
Acifluorfen	50594-66-6	750	< 750	
Bentazon	25057-89-0	750	< 750	
Chloramben	133-90-4	750	< 750	
Dalapon	75-99-0	750	< 750	
DCPA	1861-32-1	750	< 750	
Dicamba	1918-00-9	750	< 750	
Dichloroprop	120-36-5	750	< 750	
Dinoseb	88-85-7	750	< 750	
MCPA	94-74-6	37,500	< 37,500	
MCPP	93-65-2	37,500	< 37,500	
Pentachlorophenol	87-86-5	750	< 750	
Picloram	1918-02-1	750	< 750	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	12,200	15,000	81.5	16-144	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

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Jose Rocha
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Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-008A
Client Sample ID: Clyde Water Treatment
Collection Date: 3/6/2013 0800h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3510C

Analyzed: 3/12/2013 1253h **Extracted:** 3/11/2013 0926h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	71.4	< 71.4	
2,4,5-TP	93-72-1	71.4	< 71.4	
2,4-D	94-75-7	71.4	< 71.4	
2,4-DB	94-82-6	71.4	< 71.4	
3,5-Dichlorobenzoic acid	51-36-5	71.4	< 71.4	
4-Nitrophenol	100-02-7	71.4	< 71.4	
Acifluorfen	50594-66-6	357	< 357	
Bentazon	25057-89-0	143	< 143	
Chloramben	133-90-4	71.4	< 71.4	
Dalapon	75-99-0	71.4	< 71.4	
DCPA	1861-32-1	71.4	< 71.4	
Dicamba	1918-00-9	71.4	< 71.4	
Dichloroprop	120-36-5	71.4	< 71.4	
Dinoseb	88-85-7	71.4	< 71.4	
MCPA	94-74-6	3,570	< 3,570	
MCPP	93-65-2	3,570	< 3,570	
Pentachlorophenol	87-86-5	71.4	< 71.4	
Picloram	1918-02-1	71.4	< 71.4	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	247	214.3	115	10-172	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

ORGANIC ANALYTICAL REPORT

American West
ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, UT 84115

Phone: (801) 263-8686
Toll Free: (888) 263-8686
Fax: (801) 263-8687
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client: **Contact:** Joel Hebdon
Project: Clyde Ohio
Lab Sample ID: 1303132-010A
Client Sample ID: 5B Vacuum / Brewer
Collection Date: 3/6/2013 0950h
Received Date: 3/8/2013 0852h

Analytical Results Herbicides by GC/ECD Method 8151A/3550C

Analyzed: 3/12/2013 1737h **Extracted:** 3/11/2013 0953h
Units: µg/kg-wet **Dilution Factor:** 1 **Method:** SW8151A

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2,4,5-T	93-76-5	97.4	< 97.4	
2,4,5-TP	93-72-1	97.4	< 97.4	
2,4-D	94-75-7	97.4	< 97.4	
2,4-DB	94-82-6	97.4	< 97.4	
3,5-Dichlorobenzoic acid	51-36-5	97.4	< 97.4	
4-Nitrophenol	100-02-7	97.4	< 97.4	
Acifluorfen	50594-66-6	97.4	< 97.4	
Bentazon	25057-89-0	97.4	< 97.4	
Chloramben	133-90-4	97.4	< 97.4	
Dalapon	75-99-0	97.4	< 97.4	
DCPA	1861-32-1	97.4	< 97.4	
Dicamba	1918-00-9	97.4	< 97.4	
Dichloroprop	120-36-5	97.4	< 97.4	
Dinoseb	88-85-7	97.4	< 97.4	
MCPA	94-74-6	4,870	< 4,870	
MCPP	93-65-2	4,870	< 4,870	
Pentachlorophenol	87-86-5	97.4	< 97.4	
Picloram	1918-02-1	97.4	< 97.4	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: DCAA	19719-28-9	1,510	1,948	77.8	16-144	

Insufficient sample mass/volume was received to perform MS/MSD analysis. An LCSD was added to provide precision data.

American West Analytical Laboratories

D

WORK ORDER Summary

Work Order: **1303132**

Client:

Due Date: 3/22/2013

Client ID: WALKIN **Contact:** Joel Hebdon

Project: **Clyde Ohio** **QC Level:** II WO Type: Standard

Comments: Do not release w/o Financial Arrangements! Call client when report is ready, he will give credit card #. Samples are filters, use sparingly, everyone must share. QC2 - do library search for VOC's & Semi's.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303132-001A	**1A Wipe / Mead**	3/4/2013 0924h	3/8/2013 0852h		Wipe	☐	hold	1
1303132-002A	**1B Vacuum / Mead**	3/4/2013 0925h	3/8/2013 0852h	**3051A-ICPMS-PR**	Solid	☐	vOC-share	1
				3546-PCBS-PR		☐	vOC-share	
				3546-PEST-PR		☐	vOC-share	
				3546-SVOA-PR		☐	vOC-share	
				6010C-S		☑	vOC-share	
				2 SEL Analytes: CR PB				
				6020-S		☑	vOC-share	
				5 SEL Analytes: AS BA CD SE AG				
				8081-S-3546		☑	vOC-share	
				Test Group: 8081-S-Pest-3546; # of Analytes: 22 / # of Surr: 2				
				8082-S-3546		☑	vOC-share	
				Test Group: 8082-S-PCB-3546; # of Analytes: 7 / # of Surr: 2				
				8151PREP-S		☐	vOC-share	
				8151-S		☑	vOC-share	
				Test Group: 8151-S-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-S		☑	vOC-share	
				Test Group: 8260-S-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-S-3546		☑	vOC-share	
				Test Group: 8270-S-TCL-3546; # of Analytes: 67 / # of Surr: 6				
				HG-S-7471B		☐	vOC-share	
				HG-S-PR-B		☐	vOC-share	
1303132-003A	**2A Wipe / Brown**	3/4/2013 1320h	3/8/2013 0852h		Wipe	☐	hold	1
1303132-004A	**2B Vacuum / Brown**	3/4/2013 1315h	3/8/2013 0852h	**3051A-ICPMS-PR**	Solid	☐	vOC-share	1
				3546-PCBS-PR		☐	vOC-share	
				3546-PEST-PR		☐	vOC-share	
				3546-SVOA-PR		☐	vOC-share	
				6010C-S		☑	vOC-share	
				2 SEL Analytes: CR PB				
				6020-S		☑	vOC-share	
				5 SEL Analytes: AS BA CD SE AG				

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WORK ORDER Summary

Work Order: **1303132**

Client:

Due Date: 3/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303132-004A	**2B Vacuum / Brown**	3/4/2013 1315h	3/8/2013 0852h	**8081-S-3546**	Solid	☑	vOC-share	1
				Test Group: 8081-S-Pest-3546; # of Analytes: 22 / # of Surr: 2				
				8082-S-3546		☑	vOC-share	
				Test Group: 8082-S-PCB-3546; # of Analytes: 7 / # of Surr: 2				
				8151PREP-S		☐	vOC-share	
				8151-S		☑	vOC-share	
				Test Group: 8151-S-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-S		☑	vOC-share	
				Test Group: 8260-S-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-S-3546		☑	vOC-share	
				Test Group: 8270-S-TCL-3546; # of Analytes: 67 / # of Surr: 6				
				HG-S-7471B		☐	vOC-share	
				HG-S-PR-B		☐	vOC-share	
1303132-005A	**3A Wipe / Donnersbach**	3/4/2013 1512h	3/8/2013 0852h		Wipe	☐	hold	1
1303132-006A	**3B Vacuum / Donnersbach**	3/4/2013 1510h	3/8/2013 0852h	**3051A-ICPMS-PR**	Solid	☐	vOC-share	1
				3546-PCBS-PR		☐	vOC-share	
				3546-PEST-PR		☐	vOC-share	
				3546-SVOA-PR		☐	vOC-share	
				6010C-S		☑	vOC-share	
				2 SEL Analytes: CR PB				
				6020-S		☑	vOC-share	
				5 SEL Analytes: AS BA CD SE AG				
				8081-S-3546		☑	vOC-share	
				Test Group: 8081-S-Pest-3546; # of Analytes: 22 / # of Surr: 2				
				8082-S-3546		☑	vOC-share	
				Test Group: 8082-S-PCB-3546; # of Analytes: 7 / # of Surr: 2				
				8151PREP-S		☐	vOC-share	
				8151-S		☑	vOC-share	
				Test Group: 8151-S-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-S		☑	vOC-share	
				Test Group: 8260-S-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-S-3546		☑	vOC-share	
				Test Group: 8270-S-TCL-3546; # of Analytes: 67 / # of Surr: 6				
				HG-S-7471B		☐	vOC-share	
				HG-S-PR-B		☐	vOC-share	
1303132-007A	**4A Wipe / Keller Rental**	3/4/2013 1555h	3/8/2013 0852h	**3051A-ICPMS-PR**	Solid	☐	vOC-share	1
				3546-PCBS-PR		☐	vOC-share	
				3546-PEST-PR		☐	vOC-share	
				3546-SVOA-PR		☐	vOC-share	

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WORK ORDER Summary

Work Order: **1303132**

Client:

Due Date: 3/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303132-007A	**4A Wipe / Keller Rental**	3/4/2013 1555h	3/8/2013 0852h	**6010C-S**	Solid	☑	vOC-share	1
				2 SEL Analytes: CR PB				
				6020-S		☑	vOC-share	
				5 SEL Analytes: AS BA CD SE AG				
				8081-S-3546		☑	vOC-share	
				Test Group: 8081-S-Pest-3546; # of Analytes: 22 / # of Surr: 2				
				8082-S-3546		☑	vOC-share	
				Test Group: 8082-S-PCB-3546; # of Analytes: 7 / # of Surr: 2				
				8151PREP-S		☐	vOC-share	
				8151-S		☑	vOC-share	
				Test Group: 8151-S-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-S		☑	vOC-share	
				Test Group: 8260-S-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-S-3546		☑	vOC-share	
				Test Group: 8270-S-TCL-3546; # of Analytes: 67 / # of Surr: 6				
				HG-S-7471B		☐	vOC-share	
				HG-S-PR-B		☐	vOC-share	
1303132-008A	**Clyde Water Treatment**	3/6/2013 0800h	3/8/2013 0852h	**3005A-ICPMS-PR**	Aqueous	☐	vOC-share	1
				3510-PCBS-PR		☐	vOC-share	
				3510-PEST-PR		☐	vOC-share	
				3510-SVOA-PR		☐	vOC-share	
				6020-W		☑	vOC-share	
				7 SEL Analytes: AS BA CD CR PB SE AG				
				8081-W		☑	vOC-share	
				Test Group: 8081-W-Pest; # of Analytes: 22 / # of Surr: 2				
				8082-W		☑	vOC-share	
				Test Group: 8082-W-PCB; # of Analytes: 7 / # of Surr: 2				
				8151PREP-W		☐	vOC-share	
				8151-W		☑	vOC-share	
				Test Group: 8151-W-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-W		☑	vOC-share	
				Test Group: 8260-W-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-W		☑	vOC-share	
				Test Group: 8270-W-TCL; # of Analytes: 67 / # of Surr: 6				
				HG-W-7470A		☐	vOC-share	
				HG-W-PR		☐	vOC-share	
1303132-009A	**5A Wipe / Brewer**	3/6/2013 0955h	3/8/2013 0852h		Wipe	☐	hold	1
1303132-010A	**5B Vacuum / Brewer**	3/6/2013 0950h	3/8/2013 0852h	**3051A-ICPMS-PR**	Solid	☐	vOC-share	1
				3546-PCBS-PR		☐	vOC-share	

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

WORK ORDER Summary

Work Order: **1303132**

Client:

Due Date: 3/22/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1303132-010A	**5B Vacuum / Brewer**	3/6/2013 0950h	3/8/2013 0852h	**3546-PEST-PR**	Solid	☐	vOC-share	1
				3546-SVOA-PR		☐	vOC-share	
				6010C-S		☑	vOC-share	
				2 SEL Analytes: CR PB				
				6020-S		☑	vOC-share	
				5 SEL Analytes: AS BA CD SE AG				
				8081-S-3546		☑	vOC-share	
				Test Group: 8081-S-Pest-3546; # of Analytes: 22 / # of Surr: 2				
				8082-S-3546		☑	vOC-share	
				Test Group: 8082-S-PCB-3546; # of Analytes: 7 / # of Surr: 2				
				8151PREP-S		☐	vOC-share	
				8151-S		☑	vOC-share	
				Test Group: 8151-S-Herb; # of Analytes: 18 / # of Surr: 1				
				8260-S		☑	vOC-share	
				Test Group: 8260-S-TCL; # of Analytes: 52 / # of Surr: 4				
				8270-S-3546		☑	vOC-share	
				Test Group: 8270-S-TCL-3546; # of Analytes: 67 / # of Surr: 6				
				HG-S-7471B		☐	vOC-share	
				HG-S-PR-B		☐	vOC-share	

FOR LABORATORY USE ONLY [fill out on page 1]: %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____ COC Emailed_____

JOEL HEBDON

Client ALAN MORTENSEN

Address 36 SOUTH STATE ST. STE. 2400

SALT LAKE CITY (City) UT (State) 84111 (Zip)

Phone 801-533-0400 Fax

Contact JOEL HEBDON 801-400-0945

E-mail

Project Name CLYDE OHIO

Project Number/P.O.#

Sampler Name JOEL HEBDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1303132

Page _____ of _____

Turn Around Time (Circle One)

1 day 2 day 3 day 4 day 5 day (Standard)

	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	See attached										COMMENTS
Hold	1 A WIPE MEAD	3/4/13 09:24		1											
✓	1 B VACUUM MEAD	3/4/13 09:25		1											SAMPLING CARTRIDGE NON-STANDARD CONT.
Hold	2 A WIPE BROWN	3/4/13 13:20		1											
✓	2 B VACUUM BROWN	3/4/13 13:15		1											SAMPLING CARTRIDGE NON-STANDARD CONT.
Hold	3 A WIPE DONNERSBACH	3/4/13 15:12		1											
✓	3 B VACUUM DONNERSBACH	3/4/13 15:10		1											SAMPLING CARTRIDGE NON-STANDARD CONT.
✓	4 A WIPE KELLER RENTAL	3/4/13 15:55		1											
✓	CLYDE WATER TREATMENT	3/6/13 08:00		1											
Hold	5 A WIPE BREWER	3/6/13 0955		1											
✓	5 B VACUUM BREWER	3/6/13 0950		1											SAMPLE CARTRIDGE NON-STANDARD CONTAINER
	~~X FIELD BLANK~~	~~3/6/13 1231~~		1											SAMPLE CARTRIDGE NON-STANDARD CONTAINER

QC LEVEL

1 (2) 2+

3 3+ 4

LABORATORY USE ONLY

SAMPLES WERE:

1 Shipped or hand delivered (Shipped)
Notes:

2 Ambient or Chilled (Ambient)
Notes:

3 Temperature 2.8

4 Received Broken/Leaking (Improperly Sealed)
Y (N)
Notes:

5 Properly Preserved
(Y) N
Checked at Bench
Y N
Notes:

6 Received Within Holding Times
(Y) N
Notes:

COC Tape Was:

1 Present on Outer Package
Y N (NA)

2 Unbroken on Outer Package
Y N (NA)

3 Present on Sample
Y N (NA)

4 Unbroken on Sample
Y N (NA)

Discrepancies Between Sample Labels and COC Record?
Y (N)
Notes:

Relinquished By: Signature	Date	Received By: Signature	Date
Joel Hebdon	3/8/13	Elma Hayden	3/8/13
PRINT NAME: Joel Hebdon	Time 8:52	PRINT NAME: Elma Hayden	Time 852
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:

4.0 Sampling and Analytical Protocols

EPA standard analytical methods found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846 (SW-846), will be used for all analyses. The following analyses are anticipated if adequate sample can be obtained. If sample volumes are limited, the priority will be to obtain PCB analyses, then VOCs/SVOCs.

Table 1. Analytical Parameters and Methods

Analysis	EPA Method	
Volatile Organic Compounds (V)Cs)	SW-846 Methods ~~1311~~ and 8260 C	130.00
Semi volatile Organic Compounds (SVOCs)	SW-846 Methods ~~1311~~ and 8270 D	265.00
Polychlorinated Biphenyls (PCB)	SW-846 Method 8082 A	180.00
Pesticides	SW-846 Methods ~~1311~~ and 8081 B	
Herbicides	SW-846 Methods ~~1311~~ and 8151 A	320.00
Total Metals	SW-846 Methods ~~1311~~, 6020A RCRA 8	118.00

7471 B (Hg)

$900.00

H

JOEL B. HEBDON

115 EAST 1280 NORTH
PLEASANT GROVE, UTAH 84062

- cell 801-400-0945
- home 801-785-0126

VANILLAPARTNERS@GMAIL.COM
joelhebdon@aol.com