



2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

April 30, 2015

Grant Anderson
Conestoga-Rovers & Associates
1801 Old Highway 8 NW, Ste 114
St. Paul, MN 55112
RE: Penta Wood - Siren, WI

Enclosed are the analytical results for the samples received by the laboratory on 04/24/2015.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List

			Expires
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2016
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2016
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2016
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2015
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2015
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2014-153	08/31/2015
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2015



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Project: Penta Wood - Siren, WI
Project Number: 086165-01-06
Project Manager: Grant Anderson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-150423-TB-INF	A151720-01	Water	04/23/2015	04/24/2015
W-150423-TB-BET GACs	A151720-02	Water	04/23/2015	04/24/2015
W-150423-TB-EW2	A151720-03	Water	04/23/2015	04/24/2015
W-150423-TB-EW4	A151720-04	Water	04/23/2015	04/24/2015
W-150423-TB-EW7	A151720-05	Water	04/23/2015	04/24/2015
W-150423-TB-EW13	A151720-06	Water	04/23/2015	04/24/2015
W-150423-TB-EW14	A151720-07	Water	04/23/2015	04/24/2015

CASE NARRATIVE

Sample Receipt Information:

7 samples were received on 4/24/2015. Samples were received at 3.9 degrees Celsius. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Laboratory Control Samples (LCS):

The LCS duplicate recovery indicates a potential high bias for pentachlorophenol for samples A151720-01 through A151720-07. The LCS duplicate recovery was 110% and the acceptable limit is 108%. Samples were qualified with an EI.



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Project Number: 086165-01-06
Project Manager: Grant Anderson

W-150423-TB-INF

A151720-01 (Water)

Date Sampled
04/23/2015 08:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pentachlorophenol	2900	30	56	ug/L	500	04/24/2015	04/28/2015 16:07	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			%	67-125		04/24/2015	04/25/2015 10:58	EPA 8270D	DO



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Project Manager: Grant Anderson

W-150423-TB-BET GACs

A151720-02 (Water)

Date Sampled

04/23/2015 08:55

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pentachlorophenol	0.15	0.051	0.095	ug/L	1	04/24/2015	04/28/2015 00:18	EPA 8270D	E1
<i>Surrogate: 2,4-D-d5</i>			103 %	67-125		04/24/2015	04/28/2015 00:18	EPA 8270D	



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Project Manager: Grant Anderson

W-150423-TB-EW2

Date Sampled

A151720-03 (Water)

04/23/2015 09:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Pentachlorophenol	17	0.53	0.99	ug/L	10	04/24/2015	04/28/2015 16:42	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			<i>95.5 %</i>	<i>67-125</i>		<i>04/24/2015</i>	<i>04/28/2015 00:53</i>	<i>EPA 8270D</i>	



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Project Manager: Grant Anderson

W-150423-TB-EW4

Date Sampled

A151720-04 (Water)

04/23/2015 09:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Pentachlorophenol	430	5.2	9.7	ug/L	100	04/24/2015	04/28/2015 17:17	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			94.5 %	67-125		04/24/2015	04/28/2015 01:28	EPA 8270D	



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W-150423-TB-EW7

Date Sampled

A151720-05 (Water)

04/23/2015 09:10

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Pentachlorophenol	2400	27	50	ug/L	500	04/24/2015	04/28/2015 19:38	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			89.0 %	67-125		04/24/2015	04/28/2015 02:03	EPA 8270D	



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Project Number: 086165-01-06
Project Manager: Grant Anderson

W-150423-TB-EW13

A151720-06 (Water)

Date Sampled

04/23/2015 09:15

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Pentachlorophenol	18000	520	960	ug/L	10000	04/24/2015	04/29/2015 18:44	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			%	67-125		04/24/2015	04/29/2015 18:44	EPA 8270D	DO



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Project Manager: Grant Anderson

W-150423-TB-EW14

Date Sampled

A151720-07 (Water)

04/23/2015 09:20

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Pentachlorophenol	2100	26	48	ug/L	500	04/24/2015	04/28/2015 20:48	EPA 8270D	E1, D
<i>Surrogate: 2,4-D-d5</i>			90.0 %	67-125		04/24/2015	04/28/2015 03:12	EPA 8270D	



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Project Number: 086165-01-06
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Acid Herbicides by Gas Chromatography/Mass Spectrometry - Quality Control

ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A504098 - EPA 3510C

Blank (A504098-BLK1)

Prepared: 04/24/2015 Analyzed: 04/28/2015 04:21

Pentachlorophenol	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	1.83		ug/L	2.000		91.3	67-125			

LCS (A504098-BS1)

Prepared: 04/24/2015 Analyzed: 04/28/2015 04:56

Pentachlorophenol	1.82	0.10	ug/L	2.000		90.9	58.7-108			
Surrogate: 2,4-D-d5	1.90		ug/L	2.000		94.9	67-125			

LCS Dup (A504098-BSD1)

Prepared: 04/24/2015 Analyzed: 04/29/2015 20:28

Pentachlorophenol	2.19	0.10	ug/L	2.000		110	58.7-108	18.6	20	
Surrogate: 2,4-D-d5	1.74		ug/L	2.000		87.2	67-125			



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Project Number: 086165-01-06
Project Manager: Grant Anderson

Notes and Definitions

E1	Estimated value because of quality control sample exceedances.
DO	Diluted out.
D	Data reported from a dilution
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference



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Jessica Esser
Project Manager

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LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2015
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Project: Penta Wood - Siren, WI
Project Number: 086165-01-07
Project Manager: Grant Anderson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-150423-TB-WE	A151721-01	Water	04/23/2015	04/24/2015

CASE NARRATIVE

Sample Receipt Information:

1 sample was received on 4/24/2015. Sample was received at 3.9 degrees Celsius. Sample was received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.

Laboratory Control Samples (LCS):

The LCS duplicate recovery indicates a potential high bias for pentachlorophenol for sample A151721-01. The LCS duplicate recovery was 110% and the acceptable limit is 108%. Sample is qualified with an E1.



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 Project Number: 086165-01-07
 Project Manager: Grant Anderson

W-150423-TB-WE

Date Sampled

A151721-01 (Water)

04/23/2015 08:45

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
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ECCS

Acid Herbicides by Gas Chromatography/Mass Spectrometry

Preparation Batch: A504098

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pentachlorophenol	0.077	0.051	0.095	ug/L	1	04/24/2015	04/28/2015 03:47	EPA 8270D	E1, J
<i>Surrogate: 2,4-D-d5</i>			114 %	67-125		04/24/2015	04/28/2015 03:47	EPA 8270D	



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Project Number: 086165-01-07
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Acid Herbicides by Gas Chromatography/Mass Spectrometry - Quality Control

ECCS

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A504098 - EPA 3510C

Blank (A504098-BLK1)

Prepared: 04/24/2015 Analyzed: 04/28/2015 04:21

Pentachlorophenol	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	1.83		ug/L	2.000		91.3	67-125			

LCS (A504098-BS1)

Prepared: 04/24/2015 Analyzed: 04/28/2015 04:56

Pentachlorophenol	1.82	0.10	ug/L	2.000		90.9	58.7-108			
Surrogate: 2,4-D-d5	1.90		ug/L	2.000		94.9	67-125			

LCS Dup (A504098-BSD1)

Prepared: 04/24/2015 Analyzed: 04/29/2015 20:28

Pentachlorophenol	2.19	0.10	ug/L	2.000		110	58.7-108	18.6	20	
Surrogate: 2,4-D-d5	1.74		ug/L	2.000		87.2	67-125			



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Project Number: 086165-01-07
Project Manager: Grant Anderson

Notes and Definitions

- J Analyte was detected but is below the reporting limit. The concentration is estimated.
- EI Estimated value because of quality control sample exceedances.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
- RPD Relative Percent Difference

TABLE 1

PUMPING RATE AND INFLUENT SUMMARY
PENTA WOOD PRODUCTS SUPERFUND SITE
SIREN, WISCONSIN

Well	Pre-Pumping Modification Pumping Rate (gpm)	Post-Pumping Modification Pumping Rate (gpm)	Recommended Pumping Rate (gpm)	PCP (ug/L)					Comments
				8/22/2014	2/3/2015	3/3/2015	4/6/2015	4/23/2015	
EW2		10	12	52				17	
EW3	6-7			260					Pump shutdown, requires repair
EW4	6-7	10	12	150	200			430	
EW5	6-7			4400	3100				Pump shutdown on 2/13/2015 as part of initial pumping modification
EW6	6-7		6	910	4900				Pump shutdown on 2/13/2015 as part of initial pumping modification
EW7	6-7	10		280	170			2400	
EW10	6-7			7000	2800				Pump shutdown on 2/13/2015 as part of initial pumping modification
EW12	6-7			4600	880				Pump shutdown on 2/13/2015 as part of initial pumping modification
EW13	6-7	10		780	660			18000	
EW14	6-7	10		290	660			2100	
Combined Influent	55-60	50	30	1600	1900	390	1500	2900	