Rec 6/29/15
put on BRRTS
7/1/15
(98)

Richard, Philip E - DNR

From: Ree, Timothy <tree@craworld.com>
Sent: Monday, June 29, 2015 11:15 AM
To: Richard, Philip E - DNR
Cc: Frehner, Ron; Storlie, Pete; Sandberg, Brian
Subject: Penta Wood - WPDES Compliance Sampling 6/16/2015 ~COR-086165~
Attachments: Lab Report-240-52066-1-086165-01-07-2015-06-24.pdf; Lab Report-240-52067-1-086165-01-06-2015-06-24.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 6/16/2015. PCP was detected in the effluent sample at a concentration of 0.11 ug/L, which slightly exceeds the permit criteria of 0.1 ug/L. The average June 2015 effluent PCP concentration for the three sample results received from the lab is 0.096 ug/L, which meets the permit criteria. We collected an effluent sample on 6/22/2015 and should receive that result later this week. We plan to collect another effluent sample tomorrow (6/30/2015).

Please also find attached the results for the influent sample collected between the carbon units on 6/16/2015 to evaluate carbon exchange timing. PCP was detected in this sample at a concentration of 0.027 ug/L (estimated), which is less than the effluent sample and permit criteria. This result indicates that a carbon exchange is not necessary at this time. The lab confirmed that there were no errors with the reported results.

CRA recommends that we continue to operate the system and re-assess following the receipt of the remaining June 2015 sample results.

Please update Kathy Bartilson (WDNR) and Linda Martin (USEPA).

Should you have questions, please do not hesitate to contact me.

Regards,
Tim

Tim Ree
Conestoga-Rovers & Associates (CRA)
1801 Old Highway 8 NW, Suite 114
St Paul, MN 55112

Phone: 651.639.0913
Direct: 651.639-0439 (ext. 338)
Cell: 651.592.7697
Fax: 651.639.0923
Email: tree@CRAworld.com
www.CRAworld.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-52066-1
Client Project/Site: 86165-01-01, Penta Wood

For:
Conestoga-Rovers & Associates, Inc.
1801 Old Highway 8 NW
Suite 114
St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson

Denise D Heckler

Authorized for release by:
6/24/2015 10:21:28 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-52066-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-52066-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

CHLORINATED HERBICIDES

Sample W-150616-TB-WE (240-52066-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 06/19/2015 and analyzed on 06/23/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-145582.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-52066-1	W-150616-TB-WE	Water	06/16/15 10:40	06/17/15 09:20

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Client Sample ID: W-150616-TB-WE

Lab Sample ID: 240-52066-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.11		0.094	0.015	ug/L	4		8151A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Client Sample ID: W-150616-TB-WE
Date Collected: 06/16/15 10:40
Date Received: 06/17/15 09:20

Lab Sample ID: 240-52066-1
Matrix: Water

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.11		0.094	0.015	ug/L		06/19/15 11:17	06/23/15 15:40	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*67*		*32 - 140*	*06/19/15 11:17*	*06/23/15 15:40*	*4*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1	DCPA2
Lab Sample ID	Client Sample ID	(32-140)	(32-140)
240-52066-1	W-150616-TB-WE	67	63
LCS 180-145582/2-A	Lab Control Sample	88	86
LCSD 180-145582/3-A	Lab Control Sample Dup	71	63
MB 180-145582/1-A	Method Blank	67	69

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-145582/1-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.10	U	0.10	0.016	ug/L		06/19/15 11:17	06/23/15 15:15	4

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*32 - 140*	*06/19/15 11:17*	*06/23/15 15:15*	*4*

Lab Sample ID: LCS 180-145582/2-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	5.00	5.54		ug/L		111	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*88*		*32 - 140*

Lab Sample ID: LCSD 180-145582/3-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	5.00	5.11		ug/L		102	40 - 140	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*32 - 140*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

GC Semi VOA

Prep Batch: 145582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52066-1	W-150616-TB-WE	Total/NA	Water	8151A	
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 145849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52066-1	W-150616-TB-WE	Total/NA	Water	8151A	145582
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	145582
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	145582
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	145582

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Client Sample ID: W-150616-TB-WE

Date Collected: 06/16/15 10:40
Date Received: 06/17/15 09:20

Lab Sample ID: 240-52066-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			145582	06/19/15 11:17	JPM	TAL PIT
Total/NA	Analysis	8151A		4	145849	06/23/15 15:40	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52066-1

Laboratory: TestAmerica Canton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998027800	08-31-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

240-52066 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD

2.61C36

COC NO. **SP- 01649**

PAGE 1 OF 1

(See Reverse Side for Instructions)

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

Project No/ Phase/Task Code: 086165-01-	**Laboratory Name:** TESTAMERICA	**Lab Location:** N. CANTON, OH	**SSOW ID:**
Project Name: PENTAWOOD	**Lab Contact:**	**Lab Quote No:**	**Cooler No:**
Project Location: SIREN, WI			**Carrier:**
Chemistry Contact: GRANT ANDERSON GANDERSON@CRAWORLD.COM			**Airbill No:**
Sampler(s): T. BRAUN / P. STURLIE			**Date Shipped:**

Item	SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)	DATE (mm/dd/yy)	TIME (hh:mm)	SAMPLE TYPE: Matrix Code (see back of COC)	SAMPLE TYPE: Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	ANALYSIS REQUESTED: PCP-8151	MS/MSD Request	COMMENTS/ SPECIAL INSTRUCTIONS:
1	W-150616-TB-WE	06/16/15	10:40	W	G	2								2	X		* STANDARD TAT
2																	CONTACT
3																	GRANT
4																	ANDERSON
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: SEE RIGHT

Total Number of Containers: 2

All Samples in Cooler must be on COC

Notes/ Special Requirements:

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
1. Tom Braun [signature]	CRA	6/16/15	14:00	1. [signature]	TAL	6/17/15	920
				2.			
				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT — ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

6/24/2015

TestAmerica Canton Sample Receipt Form/Narrative — Login # : 57 0190
Canton Facility

Client CRA — Site Name Rentawood — Cooler unpacked by: Heather Mazone

Cooler Received on 6/17/15 — Opened on 6/17/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop-Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time — Storage Location

TestAmerica Cooler # — Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.6 °C
   - ~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~
   - IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C

   ☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 — (Yes) No
   - -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   - -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (NO)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC432654
12. Were VOAs on the COC? Yes (No)
13. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
14. Was a trip blank present in the cooler(s)? Trip Blank Lot #____ Yes (No)

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other
Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.
Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-52066-1

Login Number: 52066
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 06/18/15 06:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-52067-1
Client Project/Site: 86165-01-01, Penta Wood

For:
Conestoga-Rovers & Associates, Inc.
1801 Old Highway 8 NW
Suite 114
St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson

Denise D Heckler

Authorized for release by:
6/24/2015 10:25:09 AM

Denise Heckler, Project Manager II
(330)966-9477
denise.heckler@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-52067-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-01-01, Penta Wood

Report Number: 240-52067-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

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Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

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RECEIPT

The samples were received on 06/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

CHLORINATED HERBICIDES

Sample W-150616-TB-BG (240-52067-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 06/19/2015 and analyzed on 06/23/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-145582.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-52067-1	W-150616-TB-BG	Water	06/16/15 10:45	06/17/15 09:20

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-TB-BG

Lab Sample ID: 240-52067-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.027	J p	0.095	0.015	ug/L	4		8151A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-TB-BG
Date Collected: 06/16/15 10:45
Date Received: 06/17/15 09:20

Lab Sample ID: 240-52067-1
Matrix: Water

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.027	J p	0.095	0.015	ug/L		06/19/15 11:17	06/23/15 16:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*54*		*32 - 140*	*06/19/15 11:17*	*06/23/15 16:28*	*4*

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCPA1 (32-140)	DCPA2 (32-140)
240-52067-1	W-150616-TB-BG	54	49
LCS 180-145582/2-A	Lab Control Sample	88	86
LCSD 180-145582/3-A	Lab Control Sample Dup	71	63
MB 180-145582/1-A	Method Blank	67	69

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-145582/1-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 145582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.10	U	0.10	0.016	ug/L		06/19/15 11:17	06/23/15 15:15	4

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*69*		*32 - 140*	*06/19/15 11:17*	*06/23/15 15:15*	*4*

Lab Sample ID: LCS 180-145582/2-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 145582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	5.00	5.54		ug/L		111	40 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*88*		*32 - 140*

Lab Sample ID: LCSD 180-145582/3-A
Matrix: Water
Analysis Batch: 145849

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 145582

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Pentachlorophenol	5.00	5.11		ug/L		102	40 - 140	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*32 - 140*

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

GC Semi VOA

Prep Batch: 145582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52067-1	W-150616-TB-BG	Total/NA	Water	8151A	
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 145849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-52067-1	W-150616-TB-BG	Total/NA	Water	8151A	145582
LCS 180-145582/2-A	Lab Control Sample	Total/NA	Water	8151A	145582
LCSD 180-145582/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	145582
MB 180-145582/1-A	Method Blank	Total/NA	Water	8151A	145582

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Client Sample ID: W-150616-TB-BG

Lab Sample ID: 240-52067-1

Date Collected: 06/16/15 10:45

Matrix: Water

Date Received: 06/17/15 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			145582	06/19/15 11:17	JPM	TAL PIT
Total/NA	Analysis	8151A		4	145849	06/23/15 16:28	JMO	TAL PIT

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-01-01, Penta Wood

TestAmerica Job ID: 240-52067-1

Laboratory: TestAmerica Canton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	998027800	08-31-15

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

CONESTOGA-ROVERS & ASSOCIATES

CHAIN OF CUSTODY RECORD 2.6103.6

COC NO.: SP- 01650

PAGE 1 OF 1

(See Reverse Side for Instructions)

1801 Old Highway 8 Northwest, Suite 114
St. Paul, Minnesota 55112 United States
Phone: (651) 639-0913 Fax: (651) 639-0923

Project No/ Phase/Task Code: 086165-01	**Laboratory Name:** TEST AMERICAN	**Lab Location:** N. CANTON, OH	**SSOW ID:**
Project Name: PENTAWOOD	**Lab Contact:**	**Lab Quote No:**	**Cooler No:**
Project Location: SIREN, WI			**Carrier:**
Chemistry Contact: GRANT ANDERSON GRANDERSON@CRAWORLD.COM			**Airbill No:**
Sampler(s): T. BRANN / R. SOURLIE			**Date Shipped:**

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	PCP-8151	MS/MSD Request	Comments/ Special Instructions:
1	W-150616-TB-BG	06/16/15	10:45	W	G	2								2	X		* STANDARD TAT CONTACT GRANT ANDERSON
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

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TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☒ Other: STANDARD

Total Number of Containers: 2

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Tim BRANN	CRA	6/16/15	14:00	1. Heather Myers	TDR	6/17/15	920
2.				2.			
3.				3.			

6/24/2015

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

TestAmerica Canton Sample Receipt Form/Narrative — Login # : 52005
Canton Facility

Client CLA — Site Name Ravenswood — Cooler unpacked by: Heather Mizgorski

Cooler Received on 6/17/15 — Opened on 6/17/15

FedEx: 1st ~~Grd~~ ~~Exp~~ ~~UPS~~ ~~FAS~~ ~~Stetson~~ ~~Client Drop-Off~~ ~~TestAmerica Courier~~ ~~Other~~

Receipt After-hours: Drop-off Date/Time — Storage Location

TestAmerica Cooler # — Foam Box ~~Client Cooler~~ ~~Box~~ ~~Other~~

Packing material used: ~~Bubble Wrap~~ ~~Foam~~ ~~Plastic Bag~~ ~~None~~ ~~Other~~

COOLANT: ~~Wet Ice~~ ~~Blue Ice~~ ~~Dry Ice~~ ~~Water~~ ~~None~~

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.6 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~

~~IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. ____ °C Corrected Cooler Temp. ____ °C~~

☐ See Multiple Cooler Form

2.	Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	~~Yes~~ No
	-Were custody seals on the outside of the cooler(s) signed & dated?	~~Yes~~ No NA
	-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes ~~No~~
3.	Shippers' packing slip attached to the cooler(s)?	~~Yes~~ No
4.	Did custody papers accompany the sample(s)?	~~Yes~~ No
5.	Were the custody papers relinquished & signed in the appropriate place?	~~Yes~~ No
6.	Was/were the person(s) who collected the samples clearly identified on the COC?	~~Yes~~ No
7.	Did all bottles arrive in good condition (Unbroken)?	~~Yes~~ No
8.	Could all bottle labels be reconciled with the COC?	~~Yes~~ No
9.	Were correct bottle(s) used for the test(s) indicated?	~~Yes~~ No
10.	Sufficient quantity received to perform indicated analyses?	~~Yes~~ No
11.	Were sample(s) at the correct pH upon receipt?	Yes No ~~NA~~ pH Strip Lot# HC432654
12.	Were VOAs on the COC?	Yes ~~No~~
13.	Were air bubbles >6 mm in any VOA vials?	Yes No ~~NA~~
14.	Was a trip blank present in the cooler(s)? Trip Blank Lot # ____	Yes ~~No~~

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 240-52067-1

Login Number: 52067
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 06/18/15 06:47 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	