Sent to Kathy + Linda Put on BRRTS 12/11/14 (49)

Richard, Philip E - DNR

From: Ree, Timothy <tree@craworld.com>
Sent: Thursday, December 11, 2014 10:32 AM
To: Richard, Philip E - DNR
Cc: Frehner, Ron; Storlie, Pete; Endsley, Erin A - DNR
Subject: Penta Wood - WPDES Compliance Sampling 12/2/2014 ~COR-086165~
Attachments: Lab Report-A144909-086165-01-07-2014-12-10.pdf; Lab Report-240-44973-1-086165-01-08-2014-12-10.pdf

Phil,

Please find attached copies of the laboratory reports for the WPDES compliance influent and effluent samples collected at the Penta Wood site on 12/2/2014. PCP was detected at a concentration of 0.35 ug/L, which exceeds the permit limit of 0.1 ug/L. This is the first sample collected in December; therefore, this result does not represent a noncompliance since additional weekly effluent sampling is required to determine the monthly average. Naphthalene and DRO were not detected in the effluent sample.

PCP was detected in the influent sample collected on 12/2/2014 at a concentration of 4,600 ug/L, which is greater than the concentrations detected in September through November 2014 (ranged between 2,100 ug/L and 2,400 ug/L).

As part of the corrective action discussed in the CRA letter (dated 12/8/2014) to Kathy Bartilson (WDNR-Spooner), the effluent sample was also filtered and analyzed to evaluate whether installation of a filter downstream of the carbon units may remove solid PCP particles prior to discharge. PCP was detected in the filtered sample at a concentration of 0.082 ug/L (estimated below the reporting limit), which is slightly less than the permit limit of 0.1 ug/L. Comparison of the filtered and unfiltered results indicates that there are small solid particles with PCP in the effluent and filtration will remove a portion of these small particles. Since the filtered result is just below the permit limit, CRA recommends that the effluent sample collected this week also be analyzed as filtered and unfiltered to determine if these results can be duplicated.

CRA also recommends that a sample be collected next week between the lead and lag carbon units to assess the timing of a carbon change-out.

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

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

Regards,

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
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www.CRAworld.com

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December 10, 2014

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 12/04/2014.

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	04/30/2015
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2015
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2015
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2015
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2015

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Conestoga-Rovers & Associates	Project: Penta Wood - Siren, WI
1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-141202-PS-ME	A144909-01	Water	12/02/2014	12/04/2014
W-141202-PS-MI	A144909-02	Water	12/02/2014	12/04/2014
W-141202-PS-ME-F	A144909-03	Water	12/02/2014	12/04/2014

CASE NARRATIVE

Sample Receipt Information:
2 samples were received on 12/4/2014. Samples were received on ice. Samples were received in acceptable condition.

Per client instruction, one of the amber liters received for sample W-141202-PS-ME was filtered, extracted and analyzed.

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

Continuing Calibration Verification (CCV):
The HC footnote on samples A144909-01 through A144909-03 states that there was a high CCV recovery for pentachlorophenol. The upper control limit is 120% and the recovery was 124%.

Laboratory Control Samples (LCS):
The E1 footnote on samples A144909-01 through A144909-03 indicates that there were quality control sample exceedances for pentachlorophenol. The LCS recovery was 112% and the LCS duplicate recovery was 110%. The acceptable upper limit is 108%.

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1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

W-141202-PS-ME

A144909-01 (Water)

Date Sampled
12/02/2014 12:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS									
Acid Herbicides by Gas Chromatography/Mass Spectrometry						**Preparation Batch: A412006**			
Pentachlorophenol	**0.35**	0.054	0.10	ug/L	1	12/05/2014	12/10/2014 02:53	EPA 8270D	E1, HC
Surrogate: 2,4-D-d5			*112 %*	*67-125*		*12/05/2014*	*12/10/2014 02:53*	*EPA 8270D*	

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Conestoga-Rovers & Associates	Project: Penta Wood - Siren, WI
1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

W-141202-PS-MI

A144909-02 (Water)

Date Sampled
12/02/2014 12:35

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS									
Acid Herbicides by Gas Chromatography/Mass Spectrometry						**Preparation Batch: A412006**			
Pentachlorophenol	**4600**	28	51	ug/L	500	12/05/2014	12/10/2014 04:02	EPA 8270D	E1, HC, D
Surrogate: 2,4-D-d5			*%*	*67-125*		*12/05/2014*	*12/10/2014 04:02*	*EPA 8270D*	*DO*

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Conestoga-Rovers & Associates	Project: Penta Wood - Siren, WI
1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

W-141202-PS-ME-F

A144909-03 (Water)

Date Sampled
12/02/2014 12:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS									
Acid Herbicides by Gas Chromatography/Mass Spectrometry						**Preparation Batch: A412006**			
Pentachlorophenol	**0.082**	0.054	0.10	ug/L	1	12/05/2014	12/10/2014 03:28	EPA 8270D	E1, HC, J
Surrogate: 2,4-D-d5			*107 %*	*67-125*		*12/05/2014*	*12/10/2014 03:28*	*EPA 8270D*	

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Conestoga-Rovers & Associates	Project: Penta Wood - Siren, WI
1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

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
Batch A412006 - EPA 3510C										
Blank (A412006-BLK1)				Prepared: 12/05/2014 Analyzed: 12/10/2014 00:33						
Pentachlorophenol	ND	0.10	ug/L							
Surrogate: 2,4-D-d5	*2.54*		*ug/L*	*2.000*		*127*	*67-125*			*S*
LCS (A412006-BS1)				Prepared: 12/05/2014 Analyzed: 12/10/2014 01:08						
Pentachlorophenol	2.23	0.10	ug/L	2.000		112	58.7-108			
Surrogate: 2,4-D-d5	*2.43*		*ug/L*	*2.000*		*122*	*67-125*			
LCS Dup (A412006-BSD1)				Prepared: 12/05/2014 Analyzed: 12/10/2014 01:43						
Pentachlorophenol	2.19	0.10	ug/L	2.000		110	58.7-108	1.76	20	
Surrogate: 2,4-D-d5	*2.56*		*ug/L*	*2.000*		*128*	*67-125*			*S*

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Conestoga-Rovers & Associates	Project: Penta Wood - Siren, WI
1801 Old Highway 8 NW, Ste 114	Project Number: 086165-01-01
St. Paul MN, 55112	Project Manager: Grant Anderson

Notes and Definitions

S	Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
HC	Results may be biased high because of high continuing calibration verification (CCV).
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

CHAIN OF CUSTODY RECORD

COC NO.: SP-01330

PAGE ___ OF ___

(See Reverse Side for Instructions)

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

A144909

Project No/ Phase/Task Code: 086165-01-01	**Laboratory Name:** ECCS	**Lab Location:**	**SSOW ID:**
Project Name: Pehta Wood	**Lab Contact:** ganderson@craworld.com	**Lab Quote No:**	**Cooler No:**
Project Location: Siren, WI			**Carrier:**
Chemistry Contact: ganderson@craworld.com			**Airbill No:**
Sampler(s): P. Storlie			**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)	Container Quantity & Preservation: 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 @Method 8270D SIM	MS/MSD Request	Comments/ Special Instructions:
1	W-141202-PS-ME	12-2-14	1230	W	G	X								2	X		Monthly Eff. 01
2	W-141202-PS-MI	12-2-14	1235	W	G	X								2	X		Monthly INF 02
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

5-day TAT
Standard TAT

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

Total Number of Containers:

All Samples in Cooler must be on COC

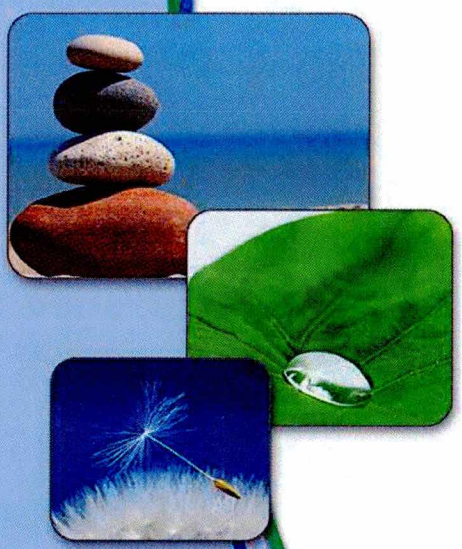
Notes/ Special Requirements: Reidvia FedEx On ice

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1. Peter Storlie	CRA	12-3-14	1400	1. Kari-Ann Kjellin	ECCS	12/4/14	1015
2.				2.			
3.				3.			

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

Distribution: WHITE – Fully Executed Copy (CRA) YELLC... GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)



LINKS

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ANALYTICAL REPORT

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

TestAmerica Job ID: 240-44973-1
Client Project/Site: 86165-10-014, 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:
12/10/2014 10:34:43 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

Qualifiers

GC/MS Semi VOA

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

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: 240-44973-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Conestoga-Rovers & Associates, Inc.

Project: 86165-10-014, Penta Wood

Report Number: 240-44973-1

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 12/03/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample W-141202-PS-ME (240-44973-1) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/05/2014 and analyzed on 12/08/2014.

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

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

WISCONSIN DRO

Sample W-141202-PS-ME (240-44973-1) was analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 12/04/2014 and analyzed on 12/08/2014.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 159448.

Job ID: 240-44973-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

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: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CAN

Protocol References:

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-44973-1	W-141202-PS-ME	Water	12/02/14 12:30	12/03/14 10:30

Detection Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

Client Sample ID: W-141202-PS-ME **Lab Sample ID: 240-44973-1**

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: W-141202-PS-ME
Date Collected: 12/02/14 12:30
Date Received: 12/03/14 10:30

Lab Sample ID: 240-44973-1
Matrix: Water

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.20	U	0.20	0.061	ug/L		12/05/14 09:44	12/08/14 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*29 - 110*	*12/05/14 09:44*	*12/08/14 17:19*	*1*
2-Fluorophenol (Surr)	*42*		*15 - 110*	*12/05/14 09:44*	*12/08/14 17:19*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*21 - 128*	*12/05/14 09:44*	*12/08/14 17:19*	*1*
Nitrobenzene-d5 (Surr)	*82*		*31 - 110*	*12/05/14 09:44*	*12/08/14 17:19*	*1*
Phenol-d5 (Surr)	*24*		*10 - 110*	*12/05/14 09:44*	*12/08/14 17:19*	*1*
Terphenyl-d14 (Surr)	*80*		*31 - 115*	*12/05/14 09:44*	*12/08/14 17:19*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.096	U	0.096	0.077	mg/L		12/04/14 06:47	12/08/14 19:10	1

Surrogate Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(29-110)	(15-110)	(21-128)	(31-110)	(10-110)	(31-115)
240-44973-1	W-141202-PS-ME	75	42	82	82	24	80
LCS 240-159693/20-A	Lab Control Sample	75	58	105	95	38	93
MB 240-159693/19-A	Method Blank	75	58	71	90	37	89

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-159693/19-A
Matrix: Water
Analysis Batch: 159898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.20	U	0.20	0.063	ug/L		12/05/14 09:44	12/08/14 14:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*75*		*29 - 110*	*12/05/14 09:44*	*12/08/14 14:02*	*1*
2-Fluorophenol (Surr)	*58*		*15 - 110*	*12/05/14 09:44*	*12/08/14 14:02*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*21 - 128*	*12/05/14 09:44*	*12/08/14 14:02*	*1*
Nitrobenzene-d5 (Surr)	*90*		*31 - 110*	*12/05/14 09:44*	*12/08/14 14:02*	*1*
Phenol-d5 (Surr)	*37*		*10 - 110*	*12/05/14 09:44*	*12/08/14 14:02*	*1*
Terphenyl-d14 (Surr)	*89*		*31 - 115*	*12/05/14 09:44*	*12/08/14 14:02*	*1*

Lab Sample ID: LCS 240-159693/20-A
Matrix: Water
Analysis Batch: 159898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Naphthalene	20.0	14.2		ug/L		71	52 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*29 - 110*
2-Fluorophenol (Surr)	*58*		*15 - 110*
2,4,6-Tribromophenol (Surr)	*105*		*21 - 128*
Nitrobenzene-d5 (Surr)	*95*		*31 - 110*
Phenol-d5 (Surr)	*38*		*10 - 110*
Terphenyl-d14 (Surr)	*93*		*31 - 115*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 240-159448/2-A
Matrix: Water
Analysis Batch: 160036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 159448

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	0.10	U	0.10	0.080	mg/L		12/04/14 06:47	12/08/14 18:29	1

Lab Sample ID: LCS 240-159448/3-A
Matrix: Water
Analysis Batch: 160036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 159448

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	0.500	0.470		mg/L		94	75 - 115

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 240-159448/4-A
Matrix: Water
Analysis Batch: 160036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 159448

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			0.500	0.455		mg/L		91	75 - 115	3	20

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

GC/MS Semi VOA

Prep Batch: 159693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44973-1	W-141202-PS-ME	Total/NA	Water	3510C	
LCS 240-159693/20-A	Lab Control Sample	Total/NA	Water	3510C	
MB 240-159693/19-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 159898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44973-1	W-141202-PS-ME	Total/NA	Water	8270C	159693
LCS 240-159693/20-A	Lab Control Sample	Total/NA	Water	8270C	159693
MB 240-159693/19-A	Method Blank	Total/NA	Water	8270C	159693

GC Semi VOA

Prep Batch: 159448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44973-1	W-141202-PS-ME	Total/NA	Water	3520C	
LCS 240-159448/3-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 240-159448/4-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 240-159448/2-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 160036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-44973-1	W-141202-PS-ME	Total/NA	Water	WI-DRO	159448
LCS 240-159448/3-A	Lab Control Sample	Total/NA	Water	WI-DRO	159448
LCSD 240-159448/4-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	159448
MB 240-159448/2-A	Method Blank	Total/NA	Water	WI-DRO	159448

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

Client Sample ID: W-141202-PS-ME
Date Collected: 12/02/14 12:30
Date Received: 12/03/14 10:30

Lab Sample ID: 240-44973-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			159693	12/05/14 09:44	JDR	TAL CAN
Total/NA	Analysis	8270C		1	159898	12/08/14 17:19	MRU	TAL CAN
Total/NA	Prep	3520C			159448	12/04/14 06:47	CSC	TAL CAN
Total/NA	Analysis	WI-DRO		1	160036	12/08/14 19:10	DEB	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 86165-10-014, Penta Wood

TestAmerica Job ID: 240-44973-1

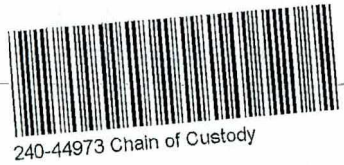
Laboratory: TestAmerica Canton

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

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**

TestAmerica Canton
4101 Shuffel Street, N. W.
North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

3,4

Chain of Custody Record

045169

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

ganderson@craworld.com

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact		Project Manager:	Site Contact: G. Anderson	Date:	COC No:
Company Name:	CRA, Inc.	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address:	1801 Old Hwy 8, #114	Analysis Turnaround Time			Sampler:
City/State/Zip:	St. Paul, MN	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	651-639-0913	TAT if different from Below ______			Walk-in Client:
Fax:		☐ 2 weeks			Lab Sampling:
Project Name:	086165-01-01	☐ 1 week			
Site:	PentaWood	☐ 2 days			Job / SDG No.:
P O #		☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Naphthalene 8270	DRO		Sample Specific Notes:
N-141202-PS-ME	12-2-14	1230	G	W	4			X	X	STANDARD TAT	Monthly Eff.

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1,2

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for ________ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ________ Corr'd: ________ Therm ID No.: ________

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	CRA, Inc	12-2-14/1400	[signature]	TA	12-3-14 1030
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

12/10/2014

TestAmerica Canton Sample Receipt Form/Narrative Login # : 44973
Canton Facility

Client CRA Site Name _____ Cooler unpacked by:

Cooler Received on 12-3-14 Opened on 12-3-14

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 +4.0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C		
IR GUN# 4	(CF +1.2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐	See Multiple Cooler Form
IR GUN# 5	(CF +0.4 °C)	Observed Cooler Temp. 3.4 °C	Corrected Cooler Temp. 3.6 °C		
IR GUN# 8	(CF +0.7 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C		

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? 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. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC425511
11. Were VOAs on the COC? Yes (No)
12. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
13. Was a trip blank present in the cooler(s)? Yes (No)

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

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: [signature]

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 Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
W-141202-PS-ME	240-44973-C-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____
W-141202-PS-ME	240-44973-D-1	Amber Glass 1 liter - Hydrochloric	<2	_____	_____