

10 f DW
BREPTS 9/22/15
(99)

Richard, Philip E - DNR

From: Ree, Timothy <Tim.Ree@ghd.com>
Sent: Monday, September 21, 2015 8:54 AM
To: Richard, Philip E - DNR
Cc: Frehner, Ron; Storlie, Pete
Subject: Penta Wood - WPDES Compliance Sample 9/14/2015 ~COR-086165~
Attachments: Lab Report-240-55444-1-086165-02-07-2015-09-21.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 9/14/2015. PCP was detected in the effluent at a concentration of 0.030 ug/L (estimated), which is below the permit criteria of 0.1 ug/L.

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

Tim Ree

GHD

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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: 240-55444-1
Client Project/Site: 86165-02-01, Penta Wood

For:
GHD Services Inc.
1801 Old Highway 8 NW
Suite 114
St. Paul, Minnesota 55112

Attn: Mr. Grant Anderson



Authorized for release by:
9/21/2015 8:25:34 AM

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

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The
Expert**

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www.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.

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
J	Reported value was between the limit of detection and the limit of quantitation.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)

Case Narrative

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Job ID: 240-55444-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 86165-02-01, Penta Wood

Report Number: 240-55444-1

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 09/16/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.2 C.

CHLORINATED HERBICIDES

Sample W-150914-PS-WE (240-55444-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 09/17/2015 and analyzed on 09/18/2015.

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.

Pentachlorophenol exceeded the RPD limit for LCSD 180-154050/3-A.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 180-154050.

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



Method Summary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

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: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-55444-1	W-150914-PS-WE	Water	09/14/15 15:30	09/16/15 09:30

- 1
- 2
- 3
- 4
- 5
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- 10
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- 14
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Detection Summary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Client Sample ID: W-150914-PS-WE

Lab Sample ID: 240-55444-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil Fac	D	Method	Prep Type
Pentachlorophenol	0.030	J p *	0.094	0.015	ug/L	4		8151A	Total/NA



This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Client Sample ID: W-150914-PS-WE

Lab Sample ID: 240-55444-1

Date Collected: 09/14/15 15:30

Matrix: Water

Date Received: 09/16/15 09:30

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.030	J p *	0.094	0.015	ug/L		09/17/15 16:45	09/18/15 16:04	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	68		32 - 140				09/17/15 16:45	09/18/15 16:04	4



Surrogate Summary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

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)
240-55444-1	W-150914-PS-WE	68	60
LCS 180-154050/2-A	Lab Control Sample	50	43
LCSD 180-154050/3-A	Lab Control Sample Dup	115	103
MB 180-154050/1-A	Method Blank	52	47

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid



QC Sample Results

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-154050/1-A
Matrix: Water
Analysis Batch: 154116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154050

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.016		0.10	0.016	ug/L		09/17/15 16:45	09/18/15 15:39	4
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	52		32 - 140				09/17/15 16:45	09/18/15 15:39	4

Lab Sample ID: LCS 180-154050/2-A
Matrix: Water
Analysis Batch: 154116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154050

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Pentachlorophenol	5.00	2.72		ug/L		54	40 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid	50		32 - 140				

Lab Sample ID: LCSD 180-154050/3-A
Matrix: Water
Analysis Batch: 154116

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 154050

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Pentachlorophenol	5.00	6.97	*	ug/L		139	40 - 140	88	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4-Dichlorophenylacetic acid	115		32 - 140						

QC Association Summary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

GC Semi VOA

Prep Batch: 154050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55444-1	W-150914-PS-WE	Total/NA	Water	8151A	
LCS 180-154050/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-154050/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-154050/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 154116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-55444-1	W-150914-PS-WE	Total/NA	Water	8151A	154050
LCS 180-154050/2-A	Lab Control Sample	Total/NA	Water	8151A	154050
LCSD 180-154050/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	154050
MB 180-154050/1-A	Method Blank	Total/NA	Water	8151A	154050



Lab Chronicle

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

Client Sample ID: W-150914-PS-WE

Lab Sample ID: 240-55444-1

Date Collected: 09/14/15 15:30

Matrix: Water

Date Received: 09/16/15 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			154050	09/17/15 16:45	CBY	TAL PIT
Total/NA	Analysis	8151A		4	154116	09/18/15 16:04	JMO	TAL PIT

Laboratory References:

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



Certification Summary

Client: GHD Services Inc.
Project/Site: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-55444-1

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	08-31-16

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	08-31-16



TestAmerica

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TestAmerica Laboratories, Inc.

**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-55444 Chain of Custody

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- 11
- 12
- 13
- 14
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North Canton, OH 44720
Phone: 330 497 9396 Fax: 330 497 7

Regulatory Program: DW NPDES RCRA Other:

grant.Anderson@GHD.com

Client Contact		Project Manager: <u>Tim Ree</u>		Site Contact:		Date: <u>9-14-15</u>		COC No: <u>01</u>	
Company Name: <u>GHD</u>		Tel/Fax:		Lab Contact:		Carrier: <u>Fed Ex</u>		1 of 1 COCs	
Address: <u>1801 Old Hwy 8</u>		Analysis Turnaround Time							
City/State/Zip: <u>St. Paul MN</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <u>STANDARD</u>							
Phone: <u>651-639-0913</u>		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax: <u>651-639-0923</u>		Filtered Sample (Y/N) / Perform MS / MSD (Y/N)							
Project Name: <u>086165-02-01</u>									
Site: <u>Penta Wood</u>									
P O #									
Sampler: <u>P. Storix</u>		For Lab Use Only: Walk-in Client: <input type="checkbox"/> Lab Sampling: <input type="checkbox"/> Job / SDG No.:							
Sample Specific Notes:									
<u>Weekly Effluent.</u>									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)
<u>W-150914-PS-WLE</u>	<u>9-14-15</u>	<u>1530</u>	<u>G</u>	<u>W</u>	<u>2</u>	<u>N</u>	<u>N</u>
Page 15 of 17							

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

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: <u>[Signature]</u>	Company: <u>GHD</u>	Date/Time: <u>9-15-15/1600</u>	Received by: <u>[Signature]</u>	Company: <u>TA</u>	Date/Time: <u>9-16-15 930</u>
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:



TestAmerica Canton Sample Receipt Form/Narrative Login # : SSUM
Canton Facility _____

Client GHD Site Name _____ Cooler unpacked by: _____
Cooler Received on 9-16-15 Opened on 9-16-15
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 _____

- Cooler temperature upon receipt
IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2-2 °C Corrected Cooler Temp. 3-2 °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
- 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
- Shippers' packing slip attached to the cooler(s)? Yes No
- Did custody papers accompany the sample(s)? Yes No
- Were the custody papers relinquished & signed in the appropriate place? Yes No
- Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- Did all bottles arrive in good condition (Unbroken)? Yes No
- Could all bottle labels be reconciled with the COC? Yes No
- Were correct bottle(s) used for the test(s) indicated? Yes No
- Sufficient quantity received to perform indicated analyses? Yes No
- Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
- Were VOAs on the COC? Yes No
- Were air bubbles >6 mm in any VOA vials? Yes No NA
- 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: GHD Services Inc.

Job Number: 240-55444-1

Login Number: 55444
List Number: 2
Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh
List Creation: 09/17/15 02:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

