Put on Sports

Richard, Philip E - DNR

From:

Ree, Timothy <Tim.Ree@ghd.com>

Sent:

Tuesday, November 10, 2015 11:00 AM

To:

Richard, Philip E - DNR

Cc: Subject: Frehner, Ron; Storlie, Pete Penta Wood - WPDES Compliance Sampling 10/27/2015 ~COR-086165~

Attachments:

Lab Report-240-57187-1-086165-02-07-2015-11-10.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 10/27/2015. PCP was detected at a concentration of 0.067 ug/L (estimated), which meets the permit criteria of 0.1 ug/L. This represents the fourth and final sample collected during October 2015. The average PCP concentration of the October 2015 effluent samples is 0.049 ug/L, which meets the permit criteria.

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

Regards,

Tim Ree

GHD

T: +1 651 639 0913 | M: +1 651 592 7697 | E: <u>tim.ree@ghd.com</u> 1801 Old Highway 8 NW Suite 114 St. Paul Minnesota 55112 USA | <u>www.ghd.com</u>

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

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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: 240-57187-1

Client Project/Site: 86165-02-07, Penta Wood

For:

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

Attn: Mr. Grant Anderson

Jenuse DHeckler

Authorized for release by: 11/10/2015 9:32:46 AM

Denise Heckler, Project Manager II (330)966-9477

denise.heckler@testamericainc.com

..... LINKS

Review your project results through Total Access

Have a Question?



Visit us at: 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: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
^c	CCV Recovery is outside acceptance limits.

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reported value was between the limit of detection and the limit of quantitation.

RPD

TEF

TEQ

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

Relative Percent Difference, a measure of the relative difference between two points

Case Narrative

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187

Job ID: 240-57187-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 86165-02-07, Penta Wood

Report Number: 240-57187-1

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 10/28/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.1 C.

CHLORINATED HERBICIDES

Sample W-102715-TB-WE (240-57187-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 10/30/2015 and analyzed on 11/04/2015.

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 180-158851.

No 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: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

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MethodMethod DescriptionProtocolLaboratory8151AHerbicides (GC)SW846TAL PIT

4

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

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Sample Summary

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

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 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-57187-1
 W-102715-TB-WE
 Water
 10/27/15 14:45
 10/28/15 09:40

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Detection Summary

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

Lab Sample ID: 240-57187-1

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Client Sample ID: \	W-10	271	5-TB	-WE
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Analyte Result Qualifier LOQ LOD Unit Dil Fac D Method Prep Type
Pentachlorophenol 0.067 J 0.10 0.016 ug/L 4 8151A Total/NA

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Client Sample Results

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

Lab Sample ID: 240-57187-1 Client Sample ID: W-102715-TB-WE Date Collected: 10/27/15 14:45

Matrix: Water

Date Received: 10/28/15 09:40

Method: 8151A - Herbicides (GC) Result Qualifier Dil Fac LOQ LOD Unit Analyte Prepared Analyzed 10/30/15 17:15 11/04/15 16:51 Pentachlorophenol 0.067 J 0.10 0.016 ug/L

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed

2,4-Dichlorophenylacetic acid 87 ^c 32 - 140 10/30/15 17:15 11/04/15 16:51

Surrogate Summary

55

55

59

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Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

Prep Type: Total/NA

Method: 8151A - Herbicides (GC)

Matrix: Water

Percent Surrogate Recovery (Acceptance Limits) DCPA1 DCPA2 (32-140) (32-140)Client Sample ID Lab Sample ID 240-57187-1 W-102715-TB-WE 87 °c 79 53 LCS 180-158851/2-A Lab Control Sample 57

Lab Control Sample Dup

Method Blank

Surrogate Legend

LCSD 180-158851/3-A

MB 180-158851/1-A

DCPA = 2,4-Dichlorophenylacetic acid

TestAmerica Job ID: 240-57187-1

Client Sample ID: Method Blank

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB	180-158851/1-A
Matrix: Water	

Analysis Batch: 159291

MB	MB

Analyte	Resu
Pentachlorophenol	<0.07

MB	MB
Recult	Qua

Result	Qualifier	
<0.078	***************************************	

LOQ LOD Unit 0.50 0.078 ug/L

Prepared

Analyzed Dil Fac 10/30/15 17:15 11/04/15 16:27

Prep Type: Total/NA

Prep Batch: 158851

MB MB

%Recovery Qualifier 60

Prepared Analyzed 10/30/15 17:15 11/04/15 16:27

Client Sample ID: Lab Control Sample

40 - 140

Dil Fac

Lab Sample ID: LCS 180-158851/2-A

Matrix: Water

Surrogate

Analysis Batch: 159291

2,4-Dichlorophenylacetic acid

Analyte

Spike Added 5.00

Limits

32 - 140

LCS LCS Result Qualifier 3.60

Unit ug/L D %Rec

Prep Batch: 158851 %Rec. Limits

Prep Type: Total/NA

10

Pentachlorophenol

LCS LCS

Surrogate 2,4-Dichlorophenylacetic acid

Limits %Recovery Qualifier 57 32 - 140

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 158851

Lab Sample ID: LCSD 180-158851/3-A

Matrix: Water

Analysis Batch: 159291

Analyte Pentachlorophenol

Spike Added 5.00

LCSD LCSD Result Qualifier 3.45

Unit ug/L

D %Rec

%Rec. Limits 40 - 140

RPD Limit 30 4

RPD

LCSD LCSD

Surrogate 2,4-Dichlorophenylacetic acid

%Recovery Qualifier 59

Limits 32 - 140

QC Association Summary

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

GC Semi VOA

Prep Batch: 158851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57187-1	W-102715-TB-WE	Total/NA	Water	8151A	
LCS 180-158851/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-158851/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-158851/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 159291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57187-1	W-102715-TB-WE	Total/NA	Water	8151A	158851
LCS 180-158851/2-A	Lab Control Sample	Total/NA	Water	8151A	158851
LCSD 180-158851/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	158851
MB 180-158851/1-A	Method Blank	Total/NA	Water	8151A	158851

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Lab Chronicle

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

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Client Sample ID: W-102715-TB-WE

Date Collected: 10/27/15 14:45 Date Received: 10/28/15 09:40 Lab Sample ID: 240-57187-1

Matrix: Water

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8151A	4.	***************************************	158851	10/30/15 17:15	CBY	TAL PIT
Total/NA	Analysis	8151A		4	159291	11/04/15 16:51	DFE	TAL PIT

Laboratory References:

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

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Certification Summary

Client: GHD Services Inc.

Project/Site: 86165-02-07, Penta Wood

TestAmerica Job ID: 240-57187-1

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The certifications listed below are applicable to this report.

AuthorityProgramEPA RegionCertification IDExpiration DateWisconsinState Program599951819008-31-16

Laboratory: TestAmerica Pittsburgh

The certifications listed below are applicable to this report.

AuthorityProgramEPA RegionCertification IDExpiration DateWisconsinState Program599802780008-31-16



TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-57187 Chain of Custody



Distribution:

WHITE - Fully Executed Copy (CRA)

CHAIN OF CUSTODY RECORD

1801 Old Highway 8 Northwest, Suite 114 St. Paul, Minnesota 55112 United States Phone: (651) 639-0913 Fax: (651) 639-0923 COC NO. SP-01665 PAGE OF

(See Reverse Side for Instructions)

Project Location: S. REW, WT. Chemistry Contact: C. LANT. ANDERSON & C.HD. COM Sampler(s): Sample (Containers for each sample may be combined on one line) SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line) DATE (Containers for each sample may be combined on one line) TIME (Containers for each sample may be combined on one line) (Containers for each sample may be combined on one line) (Containers for each sample may be combined on one line) (Containers for each sample may be combined on one line) (Containers for each sample may be combined on one line) (Containers for each sample may be combined on one line)	Project No/ Phase/Task Code: 066/65-02-07 Project Name: 0			Labo	Laboratory Name: TESTAME PICA Lab Contact:								Lab Location: N. Canjun							<i></i>			SSOW ID:		
Sampler(s): Sample for Containers for each sample may be combined on one line) Date Shipped: Comments/ Special Instructions Date (a) of Company (instructions Date (instructions Dat	Project Name: PENTAWOUD			Lab	Lab Contact:																	Cooler No:			
Sampler(s): Sample for Containers for each sample may be combined on one line) Date Shipped: Comments/ Special Instructions Date (a) of Company (instructions Date (instructions Dat	Project Location: S. REW. WT.																				Carrier:				
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line) DATE TIME (himm) And to place (himm) (himm) And to place (himm) (hi	Chemistry Contact: / CHO. CCIM										1									1		Airbill No:	1		
1 W - 102715 - TB - WE 10 37/15 14145 W G 2 2 2 2 3 3 3 5 6 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	Sampler(s): Skava			ode :k of CO	ode k of COC or Com or Com loric Acid (H ₂ S)					l/Water (3x5-g, 1x					<u> </u>				1				Request	Date Shipped:	
2 3 70 00	Item	SAMPLE IDENTIFICATION	(mm/dd//yy) (hh:mm)	Matrix C (see bac	Grab (G)	Unpreser	Hydrochl	Nitric Aci	Sulfuric A	(NaOH) Methanol	Ençores	Other:		80						·			MS/MSD F	COMMENT	
70 96	1	W-102715-78-WE	10/27/15 1414	5 W	G	2							2	X			1			-					6
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RELINQUISHED BY COMPANY DATE TIME RECEIVED BY COMPANY DATE TIME																	Col	NY		DATE	Тіме				
1. Dimbean ONZ (.HD 10) 2/1+ 170 1. (11/4/042. TA 10/28/15 940	1. Jimbean and Citto 10			027						۲.															
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YELLOW - Receiving Laboratory Copy











GOLDENROD - Sampling Crew









CRA Form: COC-10A (20110804)





Client CRA		Site Name		Cooler unpacked by:
Cooler Received or	10/28/15	Opened on 16/28	115	alix Celi
FedEx: 1st Grd &	xp UPS FAS Stetson			Other
	rs: Drop-off Date/Time		Storage Location	
TestAmerica Cool		ox Clent Cooler I	Box Other	
Packing-mate	ial used: Bubble Wrap	Foam Plastic Bag - I	None - Other -	
COOLA	NT: WELLE Blue Ice	Dry Ice Water	None	
1. Cooler temper				
IR GUN# 53	(CF +0.1 °C) Observed (Cooler Temp°C	Corrected Cooler Te	emp°C
IR GUN# 48	(CF -0.3 °C) Observed C	ooler Temp°C	Corrected Cooler Te	emp°C ☐See Mu
IR GUN# 5	(CF +0.4 °C)—Observed (Cooler Temp. °C	-Corrected-Cooler T	'emp.
IR GUN# 8	(CF -0.5 °C) Observed C	ooler Temp	Corrected Cooler Te	emp. V. I °C
2. Were custody	seals on the outside of the coo	oler(s)? — If Yes Quar	ıtity Z	s -No
	seals on the outside of the co			No NA
	seals on the bottle(s) or bott			
	ing slip attached to the cooler			No No
	pers accompany the sample(s dy papers relinquished & sign			`
	person(s) who collected the sa		on the COC?	No
	arrive in good condition (Unb			No ·
	e labels be reconciled with the			
	ottle(s) used for the test(s) inc			No No
	intity received to perform ind			No
) at the correct pH upon recei		Yes	No (NA pH Strip Lot# HC55
12. Were VOAs or		F		
	es >6 mm in any VOA vials?			No WA
14. Was a trip blar	k present in the cooler(s)? T	rip Blank Lot#		
Contacted PM	Date	by	via Verbal V	oice Mail Other
Concerning				
14 CHAINORC	USTODY & SAMPLE DIS	CDEDANCIES		Samples processed by:
14. CHAIN OF C	USIODI & SAMIFLE DIS	CREFANCIES		

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	NDITION			
15 CARADITE CO.		were received after the	recommended hold	ing time had evnired
15. SAMPLE CO		were received after the	recommended noid	mg mile nau explicu.
Sample(s)				
Sample(s)			were received	l in a broken container.
Sample(s) Sample(s) Sample(s)			were received	
Sample(s)			were received	l in a broken container.
Sample(s) Sample(s) Sample(s) 16. SAMPLE PR		were received v	were received with bubble >6 mm i	l in a broken container.

Ref: SOP NC-SC-0005, Sample Receiving X: \(\text{V-Drive Document Control\(\text{SOPs\Work Instructions\\\Word Version Work Instructions\\\\Word Version\)

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-57187-1

Login Number: 57187

List Number: 2

Creator: Kovitch, Christina M

List Source: TestAmerica Pittsburgh

List Creation: 10/29/15 11:05 PM

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	