

Rec 11/4/15
put on BREPS
11/9/15

Richard, Philip E - DNR

From: Ree, Timothy <Tim.Ree@ghd.com>
Sent: Wednesday, November 04, 2015 10:56 AM
To: Richard, Philip E - DNR
Cc: Frehner, Ron; Storlie, Pete
Subject: Penta Wood - WPDES Compliance Sampling 10/19/2015 ~COR-086165~
Attachments: Lab Report-240-56878-1-086165-02-09-2015-11-04.pdf

Phil,

Please find attached the results for the effluent sample collected at the Penta Wood site on 10/19/2015. PCP was detected at a concentration of 0.047 ug/L (estimated), which meets the permit criteria of 0.1 ug/L. The 10/19/2015 effluent sample was also analyzed for other constituents (metals and chloride) required on a quarterly basis. These constituent concentrations met the applicable substantive permit criteria.

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

Regards,

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: 240-56878-1

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:
11/4/2015 10:14:09 AM

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

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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: 240-56878-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

Metals

Qualifier	Qualifier Description
J	Reported value was between the limit of detection and the limit of quantitation.

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)



Case Narrative

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

TestAmerica Job ID: 240-56878-1

Job ID: 240-56878-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: GHD Services Inc.

Project: 86165-02-01, Penta Wood

Report Number: 240-56878-1

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 10/21/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.1 C.

CHLORINATED HERBICIDES

Sample W-151019-PS-QE (240-56878-1) was analyzed for chlorinated herbicides in accordance with EPA SW-846 Method 8151A. The samples were prepared on 10/24/2015 and analyzed on 10/30/2015.

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 180-158123.

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

TOTAL RECOVERABLE METALS (ICPMS)

Sample W-151019-PS-QE (240-56878-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method



Case Narrative

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

TestAmerica Job ID: 240-56878-1

Job ID: 240-56878-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

6020. The samples were prepared on 10/22/2015 and analyzed on 10/24/2015 and 10/26/2015.

Iron was detected in method blank MB 240-203112/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

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

ANIONS

Sample W-151019-PS-QE (240-56878-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 10/27/2015.

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: 86165-02-01, Penta Wood

TestAmerica Job ID: 240-56878-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	TAL PIT
6020	Metals (ICP/MS)	SW846	TAL CAN
300.0	Anions, Ion Chromatography	MCAWW	TAL CAN

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
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: 240-56878-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-56878-1	W-151019-PS-QE	Water	10/19/15 16:30	10/21/15 10:30



Detection Summary

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

TestAmerica Job ID: 240-56878-1

Client Sample ID: W-151019-PS-QE

Lab Sample ID: 240-56878-1

Analyte	Result	Qualifier	LOQ	LOD	Unit	Dil	Fac	D	Method	Prep Type
Pentachlorophenol	0.047	J	0.094	0.015	ug/L	4			8151A	Total/NA
Arsenic	0.51	J	5.0	0.49	ug/L	1			6020	Total Recoverable
Manganese	856		5.0	1.1	ug/L	1			6020	Total Recoverable
Zinc	8.5	J	20.0	7.3	ug/L	1			6020	Total Recoverable
Chloride	16.1		1.0	0.41	mg/L	1			300.0	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: 240-56878-1

Client Sample ID: W-151019-PS-QE

Lab Sample ID: 240-56878-1

Date Collected: 10/19/15 16:30

Matrix: Water

Date Received: 10/21/15 10:30

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	0.047	J	0.094	0.015	ug/L		10/24/15 10:30	10/30/15 17:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	73		32 - 140				10/24/15 10:30	10/30/15 17:01	4

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.51	J	5.0	0.49	ug/L		10/22/15 10:26	10/24/15 20:43	1
Copper	<0.75		2.0	0.75	ug/L		10/22/15 10:26	10/26/15 14:57	1
Iron	<16.0		100	16.0	ug/L		10/22/15 10:26	10/24/15 20:43	1
Manganese	856		5.0	1.1	ug/L		10/22/15 10:26	10/24/15 20:43	1
Zinc	8.5	J	20.0	7.3	ug/L		10/22/15 10:26	10/24/15 20:43	1

General Chemistry

Analyte	Result	Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		1.0	0.41	mg/L			10/27/15 01:30	1



Surrogate Summary

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

TestAmerica Job ID: 240-56878-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCPA1 (32-140)	DCPA2 (32-140)
240-56878-1	W-151019-PS-QE	73	60
LCS 180-158123/2-A	Lab Control Sample	117	105
LCSD 180-158123/3-A	Lab Control Sample Dup	113	104
MB 180-158123/1-A	Method Blank	72	71

Surrogate Legend

DCPA = 2,4-Dichlorophenylacetic acid

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QC Sample Results

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

TestAmerica Job ID: 240-56878-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-158123/1-A
Matrix: Water
Analysis Batch: 158491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 158123

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.016		0.10	0.016	ug/L		10/24/15 10:30	10/28/15 20:58	4
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	72		32 - 140				10/24/15 10:30	10/28/15 20:58	4

Lab Sample ID: LCS 180-158123/2-A
Matrix: Water
Analysis Batch: 158491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 158123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Pentachlorophenol	5.00	6.11		ug/L		122	40 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2,4-Dichlorophenylacetic acid	117		32 - 140				

Lab Sample ID: LCSD 180-158123/3-A
Matrix: Water
Analysis Batch: 158491

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 158123

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Pentachlorophenol	5.00	6.85		ug/L		137	40 - 140	12	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
2,4-Dichlorophenylacetic acid	113		32 - 140						

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 240-203112/1-A
Matrix: Water
Analysis Batch: 203621

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 203112

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.49		5.0	0.49	ug/L		10/22/15 10:24	10/24/15 18:44	1
Copper	<0.75		2.0	0.75	ug/L		10/22/15 10:24	10/24/15 18:44	1
Iron	16.08	J	100	16.0	ug/L		10/22/15 10:24	10/24/15 18:44	1
Manganese	<1.1		5.0	1.1	ug/L		10/22/15 10:24	10/24/15 18:44	1
Zinc	<7.3		20.0	7.3	ug/L		10/22/15 10:24	10/24/15 18:44	1

Lab Sample ID: LCS 240-203112/3-A
Matrix: Water
Analysis Batch: 203621

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 203112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	1000	1044		ug/L		104	80 - 120
Copper	1000	1025		ug/L		102	80 - 120
Iron	10000	9920		ug/L		99	80 - 120
Manganese	1000	1006		ug/L		101	80 - 120

TestAmerica Canton

QC Sample Results

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

TestAmerica Job ID: 240-56878-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-203112/3-A
Matrix: Water
Analysis Batch: 203621

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 203112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	1000	1099		ug/L		110	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 240-203693/27
Matrix: Water
Analysis Batch: 203693

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

Analyte	MB Result	MB Qualifier	LOQ	LOD	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.41		1.0	0.41	mg/L			10/26/15 20:30	1

Lab Sample ID: LCS 240-203693/28
Matrix: Water
Analysis Batch: 203693

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.18		mg/L		96	90 - 110

Lab Sample ID: 240-56878-1 MS
Matrix: Water
Analysis Batch: 203693

Client Sample ID: W-151019-PS-QE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16.1		50.0	64.78		mg/L		97	80 - 120

Lab Sample ID: 240-56878-1 MSD
Matrix: Water
Analysis Batch: 203693

Client Sample ID: W-151019-PS-QE
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	16.1		50.0	65.01		mg/L		98	80 - 120	0	20

QC Association Summary

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

TestAmerica Job ID: 240-56878-1

GC Semi VOA

Prep Batch: 158123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total/NA	Water	8151A	
LCS 180-158123/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 180-158123/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	
MB 180-158123/1-A	Method Blank	Total/NA	Water	8151A	

Analysis Batch: 158491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-158123/2-A	Lab Control Sample	Total/NA	Water	8151A	158123
LCSD 180-158123/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	158123
MB 180-158123/1-A	Method Blank	Total/NA	Water	8151A	158123

Analysis Batch: 158805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total/NA	Water	8151A	158123

Metals

Prep Batch: 203112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total Recoverable	Water	3005A	
LCS 240-203112/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 240-203112/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 203621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total Recoverable	Water	6020	203112
LCS 240-203112/3-A	Lab Control Sample	Total Recoverable	Water	6020	203112
MB 240-203112/1-A	Method Blank	Total Recoverable	Water	6020	203112

Analysis Batch: 203825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total Recoverable	Water	6020	203112

General Chemistry

Analysis Batch: 203693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-56878-1	W-151019-PS-QE	Total/NA	Water	300.0	
240-56878-1 MS	W-151019-PS-QE	Total/NA	Water	300.0	
240-56878-1 MSD	W-151019-PS-QE	Total/NA	Water	300.0	
LCS 240-203693/28	Lab Control Sample	Total/NA	Water	300.0	
MB 240-203693/27	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

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

TestAmerica Job ID: 240-56878-1

Client Sample ID: W-151019-PS-QE

Lab Sample ID: 240-56878-1

Date Collected: 10/19/15 16:30

Matrix: Water

Date Received: 10/21/15 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			158123	10/24/15 10:30	CBY	TAL PIT
Total/NA	Analysis	8151A		4	158805	10/30/15 17:01	JMO	TAL PIT
Total Recoverable	Prep	3005A			203112	10/22/15 10:26	WKD	TAL CAN
Total Recoverable	Analysis	6020		1	203621	10/24/15 20:43	AS1	TAL CAN
Total Recoverable	Prep	3005A			203112	10/22/15 10:26	WKD	TAL CAN
Total Recoverable	Analysis	6020		1	203825	10/26/15 14:57	AS1	TAL CAN
Total/NA	Analysis	300.0		1	203693	10/27/15 01:30	LKG	TAL CAN

Laboratory References:

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

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: 240-56878-1

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

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**CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS**



240-56878 Chain of Custody

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TestAmerica Canton
 4101 Shuffel Street, N. H.

3/6/03.1

Chain of Custody Record

032167

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

North Canton, OH 44720
 Phone: 330.497.9396 Fax: 330.497.0772

Regulatory Program: DW NPDES RCRA Other: Other: grant.anderson@ghd.com

Client Contact		Project Manager: <u>T. Ree</u>		Site Contact:		Date: <u>10-20-15</u>	COC No:					
Company Name: <u>GHD</u>		Tel/Fax:		Lab Contact: <u>P. Heckler</u>		Carrier: <u>Fed Ex Overnight</u>						
Address: <u>1801 Old Hwy 8</u>		Analysis Turnaround Time										
City/State/Zip: <u>Lindstrom, MN 55112</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT is different from Below: <u>STANDARD</u>								
Phone: <u>651-247-4228 639-0913</u>		<input type="checkbox"/> 2 weeks		<table border="1" style="width:100%; height: 150px;"> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">Filtered Sample (Y/N)</td> <td style="text-align: center;">PCP-8151</td> </tr> <tr> <td style="text-align: center;">metals</td> </tr> <tr> <td style="text-align: center;">CI-</td> </tr> <tr> <td style="text-align: center;">XXX</td> </tr> </table>				Filtered Sample (Y/N)	PCP-8151	metals	CI-	XXX
Filtered Sample (Y/N)	PCP-8151											
	metals											
	CI-											
	XXX											
Fax: <u>651-247-4228 639-0923</u>		<input type="checkbox"/> 1 week										
Project Name: <u>086165-02-01</u>		<input type="checkbox"/> 2 days										
Site: <u>Penta Word</u>		<input type="checkbox"/> 1 day										
P O #						COC No. of COCs						
						Sampler: <u>P. Starke</u>						
						For Lab Use Only:						
						Walk-in Client: <input type="checkbox"/>						
						Lab Sampling: <input type="checkbox"/>						
						Job / SDG No.:						
						Sample Specific Notes:						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)					
<u>W-151019-PS-QE</u>		<u>10/19/15</u>	<u>1630</u>	<u>G</u>	<u>W</u>	<u>4</u>	<u>N</u>					
/		/	/	/	/	/	/					
Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
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.				<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown												
Special Instructions/QC Requirements & Comments:												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____		Therm ID No.:						
Relinquished by: <u>[Signature]</u>		Company: <u>GHD</u>		Date/Time: <u>10-20-15/1600</u>		Received by: <u>[Signature]</u> Company: <u>TA</u>						
Relinquished by:		Company:		Date/Time:		Received by:						
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:						
Relinquished by:		Company:		Date/Time:		Received by:						

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TestAmerica Canton Sample Receipt Form/Narrative Login # : 50878
Canton Facility

Client GAD Site Name _____ Cooler unpacked by: _____
Cooler Received on 10-21-15 Opened on 10-21-15
FedEx: 1st Grd 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# 53 (CF +0.1 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN# 48 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C See Multiple
IR-GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C Cooler Form
IR GUN# 8 (CF -0.5 °C) Observed Cooler Temp. 3.10 °C Corrected Cooler Temp. 31 °C
- 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): _____

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservative Added (mls)</u>	<u>Lot #</u>
W-151019-PS-QE	240-56878-B-1	Plastic 500ml - with Nitric Acid	<2	_____	_____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 0
- 1
- 2
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 240-56878-1

Login Number: 56878
List Number: 2
Creator: Lonzo, Michael A

List Source: TestAmerica Pittsburgh
List Creation: 10/22/15 01:02 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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	