



January 30, 2016

Reference No. 012610

City of Bay City WWTP
Attn: IPP Coordinator
2905 North Water Street
Bay City, Michigan
U.S.A. 48708

To Whom It May Concern:

**Re: Semi-Annual Compliance Report (July 1 to December 31, 2016)
RACER Bay City Industrial Land
Bay City, Michigan**

The following letter has been prepared by GHD on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER) in accordance with Part 4 Section 3 of Industrial User (IU) permit No. 120807 as the semi-annual compliance report for the period July 1 to December 31, 2016 for RACER's groundwater treatment system located at the north end of Crotty Street in Bay City, Michigan (Site).

The groundwater treatment system operated consistently for the semi-annual period with the exception of short periods when the system was down for maintenance or as a result of an alarm condition. In addition, the groundwater treatment system was inoperable the latter half of December, when the pump head for EW15 required replacement.

Table 1 presents the results of the required semi-annual effluent sample collected from the RACER groundwater treatment system on January 16, 2017. Please note that the collection of the semi-annual sample was delayed as a result of a pump head in the EW-15 pump requiring replacement. To avoid a similar situation in the future, GHD will plan to collect the semi-annual samples in May and November each year. Attachment 1 presents a copy of the laboratory analytical report. The analytical results did not identify an exceedance of the daily maximum discharge levels specified in the permit, and there were no other conditions, events or circumstances identified that did not meet other permit requirements. Table 2 presents the flow readings collected periodically from the flow meter.

The RACER groundwater treatment system is operated and maintained by Steve Hoevemeyer (GHD) who maintains the designation of Waste Treatment Plan Operator – Industrial or Commercial (A-1d Impoundment, A-2b Filtration of Wastewater, B-2c Oil-Water Separation, and B-3b Carbon Adsorption).

See Attachment 2 for the certification statement prepared in accordance with Section 106-23(d) of the Bay City sewer ordinance.



Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

GHD

A handwritten signature in blue ink, appearing to read "Michael Tomka". The signature is fluid and cursive, with the first and last names being more prominent.

Michael Tomka, P.E.

JEP/wg/1

cc: Grant Trigger (RACER)
Dave Favero (RACER)

Encl. Table 1 – Effluent Results Summary
Table 2 – Flow Meter Readings
Attachment 1 – Laboratory Analytical Report
Attachment 2 – Certification Statement

Table 1

**Analytical Results Summary
Effluent Sampling
Bay City Industrial Land
Bay City, Michigan**

Sample Location:
Sample ID:
Sample Date:

**effluent-GWTS
W-12610-011617-SSH-1701
01/16/17**

Parameters VOAs	Units	Daily Maximum (Bay City Industrial User Permit)	
Vinyl chloride	mg/L	0.002	0.001 U
Metals			
Cadmium	mg/L	0.057	0.002 U
Chromium	mg/L	6.812	0.005 U
Copper	mg/L	1.476	0.067
Iron	mg/L		0.57
Lead	mg/L	0.632	0.003 U
Mercury	mg/L	ND	0.0002 U
Nickel	mg/L	2.548	0.02 U
Silver	mg/L	0.2	0.005 U
Pesticides			
Aroclor-1016 (PCB-1016)	mg/L	ND	0.000095 U
Aroclor-1221 (PCB-1221)	mg/L	ND	0.000095 U
Aroclor-1232 (PCB-1232)	mg/L	ND	0.000095 U
Aroclor-1242 (PCB-1242)	mg/L	ND	0.000095 U
Aroclor-1248 (PCB-1248)	mg/L	ND	0.000095 U
Aroclor-1254 (PCB-1254)	mg/L	ND	0.000095 U
Aroclor-1260 (PCB-1260)	mg/L	ND	0.000095 U
Wet			
Ammonia	mg/L	30	2.2
Biochemical oxygen demand (BOD)	mg/L	835	2.0 U
Chemical oxygen demand (COD)	mg/L	1670	24
Oil and grease (HEM), polar	mg/L	100	4.7 U
pH, lab	s.u.	6.5 to 11.0	7.7 HF
Phosphorus	mg/L	13.8	0.10 U
Total suspended solids (TSS)	mg/L	1336	4.0 U

Footnotes:

- HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U Not detected at the associated reporting limit.

Table 2

**Flow Meter Readings
Bay City Industrial Land
Bay City, Michigan**

Date	Flow Meter reading (gallons)	Cumulative Total: (gallons)	Volume to be invoiced annually (July to June 30)	Comments
16-Jun-14	4593	18950	18950	- City invoiced for discharge
28-Jul-14	4593	18950		
18-Aug-14	4593	18950		
5-Sep-14	6337	20694		- Collected effluent sample
23-Sep-14	11504	25861		
23-Oct-14	31004	45361		
26-Nov-14	31004	45361		
29-Dec-14	31004	45361		
27-Jan-15	31004	45361		
13-Feb-15	46303	60660		
16-Mar-15				- Collected effluent sample
19-Mar-15	67425	81782		
30-Apr-15	175234	189591		
6-May-15	197766	212123		
18-Jun-15	224490	238847		
25-Jun-15	232315	246672		
30-Jun-15	232315	246672		
29-Jul-15	232315	246672		
28-Aug-15	241397	255754		
29-Sep-15	252638	266995		
30-Oct-15	260771	275128		
23-Nov-15	289731	304088		
10-Dec-15				- Collected effluent sample
30-Dec-15	351550	365907		
10-Feb-16	387410	401767		
29-Feb-16	394550	408907		
21-Mar-16	409836	424193		
27-Apr-16	462204	476561		
31-May-16	521920	536277		
14-Jun-16	528259	542616	523666	- Collected effluent sample, City invoiced for discharge
29-Jun-16	556457	570814		
20-Jul-16	561893	576250		
31-Aug-16	607298	621655		
30-Sep-16	607717	622074		
28-Oct-16	608865	623222		
11-Nov-16	608980	623337		
16-Dec-16	609074	623431		

Attachment 1

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: 240-74459-1

Client Project/Site: 12610-T03, RACER Bay City

For:

GHD Services Inc.

14496 Sheldon Road, Suite 200

Plymouth, Michigan 48170

Attn: Rawa Fleisher



Authorized for release by:

1/24/2017 8:02:22 AM

Denise Heckler, Project Manager II

(330)966-9477

denise.heckler@testamericainc.com

LINKS

Review your project
results through

TotalAccess

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.

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Definitions/Glossary	4
Sample Summary	5
Detection Summary	6
Method Summary	7
Client Sample Results	8
QC Association Summary	14
QC Sample Results	17
Surrogate Summary	23
Lab Chronicle	24
Certification Summary	25
Chain of Custody	26



Case Narrative

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Job ID: 240-74459-1

Laboratory: TestAmerica Canton

Narrative

Job Narrative 240-74459-1

Comments

No additional comments.

Receipt

The samples were received on 1/17/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

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

GC Semi VOA

Method(s) 608: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: W-12610-011617-SSH-1701 (240-74459-1). 2881016, 2596995.

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

Metals

Method(s) 200.7 Rev 4.4, 6010B: Some requested practical quantitation limits (PQLs) on the following samples fall below the laboratory's verified standard quantitation limit: W-12610-011617-SSH-1701 (240-74459-1). The continuing calibration blanks and method blanks may not support the lower PQL.

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

General Chemistry

Method(s) 1664A: The reference method requires samples to be preserved to a pH of 2 or less or analyzed within 4 hours of the collection time. The following sample was received at the laboratory with a pH of greater than 2: W-12610-011617-SSH-1701 (240-74459-1). As such, the laboratory had insufficient time remaining to perform this analysis within holding time.

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

Organic Prep

Method(s) 3520C, 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 240-263275.

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Qualifiers

GC/MS 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.
---	--

Metals

Qualifier	Qualifier Description
-----------	-----------------------

U	Indicates the analyte was analyzed for but not detected.
---	--

General Chemistry

Qualifier	Qualifier Description
-----------	-----------------------

HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
----	--

U	Indicates the analyte was analyzed for but not detected.
---	--

s	Seeded Control Blank (SCB) Recovery High
---	--

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)
-----	---------------------------------------

Sample Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-74459-1	W-12610-011617-SSH-1701	Water	01/16/17 13:30	01/17/17 09:30
240-74459-2	TB-12610-011617-SSH-1702	Water	01/16/17 13:35	01/17/17 09:30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Detection Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Client Sample ID: W-12610-011617-SSH-1701

Lab Sample ID: 240-74459-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Copper	67		20	ug/L	1		200.7 Rev 4.4	Total
Iron	570		100	ug/L	1		200.7 Rev 4.4	Recoverable Total
Ammonia (as N)	2.2		2.0	mg/L	1		350.2	Recoverable Total/NA
Chemical Oxygen Demand	24		10	mg/L	1		410.4	Total/NA
pH	7.7	HF	0.1	SU	1		4500 H+ B-2000	Total/NA

Client Sample ID: TB-12610-011617-SSH-1702

Lab Sample ID: 240-74459-2

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Method Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CAN
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL CAN
200.7 Rev 4.4	Metals (ICP)	EPA	TAL CAN
245.1	Mercury (CVAA)	EPA	TAL CAN
1664A	HEM and SGT-HEM	1664A	TAL CAN
350.2	Nitrogen, Ammonia, Distillation	MCAWW	TAL CAN
410.4	COD	MCAWW	TAL CAN
4500 H+ B-2000	pH	SM	TAL CAN
5210B-2001	BOD, 5-Day	SM	TAL CAN
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CAN
SM4500 P E-1999	Phosphorus	SM	TAL CAN

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	ug/L			01/20/17 00:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		73 - 120				01/20/17 00:20	1
1,2-Dichloroethane-d4 (Surr)	95		63 - 132				01/20/17 00:20	1
Toluene-d8 (Surr)	95		73 - 124				01/20/17 00:20	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Client Sample ID: TB-12610-011617-SSH-1702

Date Collected: 01/16/17 13:35

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-2

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	ug/L	-		01/20/17 00:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		73 - 120				01/20/17 00:45	1
1,2-Dichloroethane-d4 (Surr)	92		63 - 132				01/20/17 00:45	1
Toluene-d8 (Surr)	95		73 - 124				01/20/17 00:45	1

TestAmerica Canton

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1221	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1232	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1242	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1248	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1254	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Aroclor-1260	0.095	U	0.095	ug/L		01/18/17 09:52	01/20/17 08:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		10 - 114			01/18/17 09:52	01/20/17 08:11	1
Tetrachloro-m-xylene	70		15 - 131			01/18/17 09:52	01/20/17 08:11	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	5.0	U	5.0	ug/L		01/19/17 14:00	01/20/17 14:32	1
Cadmium	2.0	U	2.0	ug/L		01/18/17 14:00	01/19/17 18:39	1
Chromium	5.0	U	5.0	ug/L		01/18/17 14:00	01/19/17 18:39	1
Copper	67		20	ug/L		01/18/17 14:00	01/19/17 18:39	1
Iron	570		100	ug/L		01/18/17 14:00	01/19/17 18:39	1
Nickel	20	U	20	ug/L		01/18/17 14:00	01/19/17 18:39	1
Lead	3.0	U	3.0	ug/L		01/18/17 14:00	01/19/17 18:39	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 245.1 - Mercury (CVAA)

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	ug/L		01/18/17 14:00	01/19/17 11:50	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

General Chemistry

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	4.7	U	4.7	mg/L			01/18/17 08:13	1
Ammonia (as N)	2.2		2.0	mg/L		01/18/17 12:10	01/18/17 15:00	1
Chemical Oxygen Demand	24		10	mg/L			01/18/17 09:52	1
pH	7.7	HF	0.1	SU			01/17/17 16:34	1
Biochemical Oxygen Demand	2.0	U	2.0	mg/L			01/18/17 12:42	1
Total Suspended Solids	4.0	U	4.0	mg/L			01/19/17 09:58	1
Total Phosphorus as P	0.10	U	0.10	mg/L			01/19/17 08:51	1

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

GC/MS VOA

Analysis Batch: 263429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	624	
240-74459-2	TB-12610-011617-SSH-1702	Total/NA	Water	624	
MB 240-263429/8	Method Blank	Total/NA	Water	624	
LCS 240-263429/5	Lab Control Sample	Total/NA	Water	624	

GC Semi VOA

Prep Batch: 263275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	608	
MB 240-263275/13-A	Method Blank	Total/NA	Water	608	
LCS 240-263275/14-A	Lab Control Sample	Total/NA	Water	608	

Analysis Batch: 263583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	608	263275
MB 240-263275/13-A	Method Blank	Total/NA	Water	608	263275
LCS 240-263275/14-A	Lab Control Sample	Total/NA	Water	608	263275

Metals

Prep Batch: 263301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total Recoverable	Water	200.7	
MB 240-263301/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-263301/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 263302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	245.1	
MB 240-263302/1-A	Method Blank	Total/NA	Water	245.1	
LCS 240-263302/2-A	Lab Control Sample	Total/NA	Water	245.1	

Prep Batch: 263505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total Recoverable	Water	200.7	
MB 240-263505/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 240-263505/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 263508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total Recoverable	Water	200.7 Rev 4.4	263301
MB 240-263301/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	263301
LCS 240-263301/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	263301

Analysis Batch: 263556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	245.1	263302
MB 240-263302/1-A	Method Blank	Total/NA	Water	245.1	263302
LCS 240-263302/2-A	Lab Control Sample	Total/NA	Water	245.1	263302

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Metals (Continued)

Analysis Batch: 263653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total Recoverable	Water	200.7 Rev 4.4	263505
MB 240-263505/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	263505
LCS 240-263505/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	263505

General Chemistry

Analysis Batch: 263152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	4500 H+ B-2000	
LCS 240-263152/21	Lab Control Sample	Total/NA	Water	4500 H+ B-2000	

Analysis Batch: 263224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	410.4	
MB 240-263224/9	Method Blank	Total/NA	Water	410.4	
LCS 240-263224/10	Lab Control Sample	Total/NA	Water	410.4	
240-74459-1 MS	W-12610-011617-SSH-1701	Total/NA	Water	410.4	

Analysis Batch: 263240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	1664A	
MB 240-263240/1	Method Blank	Total/NA	Water	1664A	
LCS 240-263240/2	Lab Control Sample	Total/NA	Water	1664A	

Prep Batch: 263327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	Distill/Ammonia	
MB 240-263327/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 240-263327/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 263350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	350.2	263327
MB 240-263327/1-A	Method Blank	Total/NA	Water	350.2	263327
LCS 240-263327/2-A	Lab Control Sample	Total/NA	Water	350.2	263327

Analysis Batch: 263371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	5210B-2001	
SCB 240-263371/2	Method Blank	Total/NA	Water	5210B-2001	
USB 240-263371/1	Method Blank	Total/NA	Water	5210B-2001	
LCS 240-263371/3	Lab Control Sample	Total/NA	Water	5210B-2001	
240-74459-1 DU	W-12610-011617-SSH-1701	Total/NA	Water	5210B-2001	

Analysis Batch: 263439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	SM4500 P E-1999	
MB 240-263439/3	Method Blank	Total/NA	Water	SM4500 P E-1999	

TestAmerica Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

General Chemistry (Continued)

Analysis Batch: 263439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-263439/4	Lab Control Sample	Total/NA	Water	SM4500 P E-1999	

Analysis Batch: 263479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-74459-1	W-12610-011617-SSH-1701	Total/NA	Water	SM 2540D	
MB 240-263479/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 240-263479/2	Lab Control Sample	Total/NA	Water	SM 2540D	
240-74459-1 DU	W-12610-011617-SSH-1701	Total/NA	Water	SM 2540D	

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-263429/8

Matrix: Water

Analysis Batch: 263429

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	ug/L	-		01/19/17 13:05	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		73 - 120				01/19/17 13:05	1
1,2-Dichloroethane-d4 (Surr)	89		63 - 132				01/19/17 13:05	1
Toluene-d8 (Surr)	94		73 - 124				01/19/17 13:05	1

Lab Sample ID: LCS 240-263429/5

Matrix: Water

Analysis Batch: 263429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	18.6		ug/L	-	93	10 - 251
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		73 - 120				
1,2-Dichloroethane-d4 (Surr)	86		63 - 132				
Toluene-d8 (Surr)	96		73 - 124				

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 240-263275/13-A

Matrix: Water

Analysis Batch: 263583

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 263275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1221	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1232	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1242	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1248	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1254	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Aroclor-1260	0.10	U	0.10	ug/L	-	01/18/17 09:52	01/20/17 07:18	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		10 - 114			01/18/17 09:52	01/20/17 07:18	1
Tetrachloro-m-xylene	76		15 - 131			01/18/17 09:52	01/20/17 07:18	1

Lab Sample ID: LCS 240-263275/14-A

Matrix: Water

Analysis Batch: 263583

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 263275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor-1016	2.50	2.10		ug/L	-	84	50 - 114
Aroclor-1260	2.50	2.16		ug/L	-	86	8 - 127

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 240-263275/14-A

Matrix: Water

Analysis Batch: 263583

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 263275

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		10 - 114
Tetrachloro-m-xylene	70		15 - 131

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 240-263301/1-A

Matrix: Water

Analysis Batch: 263508

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 263301

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	2.0	U	2.0	ug/L		01/18/17 14:00	01/19/17 11:28	1
Chromium	5.0	U	5.0	ug/L		01/18/17 14:00	01/19/17 11:28	1
Copper	20	U	20	ug/L		01/18/17 14:00	01/19/17 11:28	1
Iron	100	U	100	ug/L		01/18/17 14:00	01/19/17 11:28	1
Nickel	20	U	20	ug/L		01/18/17 14:00	01/19/17 11:28	1
Lead	3.0	U	3.0	ug/L		01/18/17 14:00	01/19/17 11:28	1

Lab Sample ID: LCS 240-263301/2-A

Matrix: Water

Analysis Batch: 263508

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 263301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	47.3		ug/L		95	85 - 115
Chromium	200	187		ug/L		93	85 - 115
Copper	250	236		ug/L		94	85 - 115
Iron	1000	946		ug/L		95	85 - 115
Nickel	500	465		ug/L		93	85 - 115
Lead	500	456		ug/L		91	85 - 115

Lab Sample ID: MB 240-263505/1-A

Matrix: Water

Analysis Batch: 263653

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 263505

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	5.0	U	5.0	ug/L		01/19/17 14:00	01/20/17 09:03	1
Cadmium	2.0	U	2.0	ug/L		01/19/17 14:00	01/20/17 09:03	1
Chromium	5.0	U	5.0	ug/L		01/19/17 14:00	01/20/17 09:03	1
Copper	20	U	20	ug/L		01/19/17 14:00	01/20/17 09:03	1
Iron	100	U	100	ug/L		01/19/17 14:00	01/20/17 09:03	1
Nickel	20	U	20	ug/L		01/19/17 14:00	01/20/17 09:03	1
Lead	3.0	U	3.0	ug/L		01/19/17 14:00	01/20/17 09:03	1

Lab Sample ID: LCS 240-263505/2-A

Matrix: Water

Analysis Batch: 263653

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 263505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	50.0	48.5		ug/L		97	85 - 115

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-263505/2-A
Matrix: Water
Analysis Batch: 263653

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 263505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	50.0	49.4		ug/L		99	85 - 115
Chromium	200	191		ug/L		96	85 - 115
Copper	250	240		ug/L		96	85 - 115
Iron	1000	998		ug/L		100	85 - 115
Nickel	500	480		ug/L		96	85 - 115
Lead	500	472		ug/L		94	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 240-263302/1-A
Matrix: Water
Analysis Batch: 263556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263302

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	ug/L		01/18/17 14:00	01/19/17 11:04	1

Lab Sample ID: LCS 240-263302/2-A
Matrix: Water
Analysis Batch: 263556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 263302

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	5.12		ug/L		102	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 240-263240/1
Matrix: Water
Analysis Batch: 263240

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	5.0	U	5.0	mg/L			01/18/17 08:13	1

Lab Sample ID: LCS 240-263240/2
Matrix: Water
Analysis Batch: 263240

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM	40.0	39.40		mg/L		98	78 - 114

Method: 350.2 - Nitrogen, Ammonia, Distillation

Lab Sample ID: MB 240-263327/1-A
Matrix: Water
Analysis Batch: 263350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 263327

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.0	U	2.0	mg/L		01/18/17 12:10	01/18/17 14:10	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 350.2 - Nitrogen, Ammonia, Distillation (Continued)

Lab Sample ID: LCS 240-263327/2-A

Matrix: Water

Analysis Batch: 263350

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 263327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	3.84	4.20		mg/L		109	82 - 116

Method: 410.4 - COD

Lab Sample ID: MB 240-263224/9

Matrix: Water

Analysis Batch: 263224

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	10	U	10	mg/L			01/18/17 09:50	1

Lab Sample ID: LCS 240-263224/10

Matrix: Water

Analysis Batch: 263224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	117	110		mg/L		94	90 - 110

Lab Sample ID: 240-74459-1 MS

Matrix: Water

Analysis Batch: 263224

Client Sample ID: W-12610-011617-SSH-1701

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	24		50.0	75.7		mg/L		102	90 - 110

Method: 4500 H+ B-2000 - pH

Lab Sample ID: LCS 240-263152/21

Matrix: Water

Analysis Batch: 263152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	9.14	9.1		SU		100	97 - 103

Method: 5210B-2001 - BOD, 5-Day

Lab Sample ID: SCB 240-263371/2

Matrix: Water

Analysis Batch: 263371

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U s	2.0	mg/L			01/18/17 12:24	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 5210B-2001 - BOD, 5-Day (Continued)

Lab Sample ID: USB 240-263371/1

Matrix: Water

Analysis Batch: 263371

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	2.0	U	2.0	mg/L	-		01/18/17 12:32	1

Lab Sample ID: LCS 240-263371/3

Matrix: Water

Analysis Batch: 263371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	202		mg/L	-	102	85 - 115

Lab Sample ID: 240-74459-1 DU

Matrix: Water

Analysis Batch: 263371

Client Sample ID: W-12610-011617-SSH-1701

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	2.0	U	2.0	U	mg/L	-	NC	15

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 240-263479/1

Matrix: Water

Analysis Batch: 263479

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	4.0	U	4.0	mg/L	-		01/19/17 09:58	1

Lab Sample ID: LCS 240-263479/2

Matrix: Water

Analysis Batch: 263479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	56.8	50.0		mg/L	-	88	64 - 120

Lab Sample ID: 240-74459-1 DU

Matrix: Water

Analysis Batch: 263479

Client Sample ID: W-12610-011617-SSH-1701

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.0	U	4.0	U	mg/L	-	NC	10

Method: SM4500 P E-1999 - Phosphorus

Lab Sample ID: MB 240-263439/3

Matrix: Water

Analysis Batch: 263439

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	0.10	U	0.10	mg/L	-		01/19/17 08:20	1

TestAmerica Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: SM4500 P E-1999 - Phosphorus (Continued)

Lab Sample ID: LCS 240-263439/4

Matrix: Water

Analysis Batch: 263439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Phosphorus as P	0.665	0.694		mg/L	—	104	77 - 120

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (73-120)	12DCE (63-132)	TOL (73-124)
240-74459-1	W-12610-011617-SSH-1701	94	95	95
240-74459-2	TB-12610-011617-SSH-1702	95	92	95
LCS 240-263429/5	Lab Control Sample	97	86	96
MB 240-263429/8	Method Blank	92	89	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (10-114)	TCX2 (15-131)
240-74459-1	W-12610-011617-SSH-1701	65	70
LCS 240-263275/14-A	Lab Control Sample	76	70
MB 240-263275/13-A	Method Blank	78	76

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Client Sample ID: W-12610-011617-SSH-1701

Date Collected: 01/16/17 13:30

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	263429	01/20/17 00:20	TJL1	TAL CAN
Total/NA	Prep	608			263275	01/18/17 09:52	KEH	TAL CAN
Total/NA	Analysis	608		1	263583	01/20/17 08:11	KMG	TAL CAN
Total Recoverable	Prep	200.7			263301	01/18/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	200.7 Rev 4.4		1	263508	01/19/17 18:39	KLC	TAL CAN
Total Recoverable	Prep	200.7			263505	01/19/17 14:00	AJC	TAL CAN
Total Recoverable	Analysis	200.7 Rev 4.4		1	263653	01/20/17 14:32	KLC	TAL CAN
Total/NA	Prep	245.1			263302	01/18/17 14:00	AJC	TAL CAN
Total/NA	Analysis	245.1		1	263556	01/19/17 11:50	WKD	TAL CAN
Total/NA	Analysis	1664A		1	263240	01/18/17 08:13	BLW	TAL CAN
Total/NA	Prep	Distill/Ammonia			263327	01/18/17 12:10	JAS	TAL CAN
Total/NA	Analysis	350.2		1	263350	01/18/17 15:00	JAS	TAL CAN
Total/NA	Analysis	410.4		1	263224	01/18/17 09:52	TPH	TAL CAN
Total/NA	Analysis	4500 H+ B-2000		1	263152	01/17/17 16:34	LCN	TAL CAN
Total/NA	Analysis	5210B-2001		1	263371	01/18/17 12:42	JESW	TAL CAN
Total/NA	Analysis	SM 2540D		1	263479	01/19/17 09:58	CL	TAL CAN
Total/NA	Analysis	SM4500 P E-1999		1	263439	01/19/17 08:51	TPH	TAL CAN

Client Sample ID: TB-12610-011617-SSH-1702

Date Collected: 01/16/17 13:35

Date Received: 01/17/17 09:30

Lab Sample ID: 240-74459-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	263429	01/20/17 00:45	TJL1	TAL CAN

Laboratory References:

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

Certification Summary

Client: GHD Services Inc.
Project/Site: 12610-T03, RACER Bay City

TestAmerica Job ID: 240-74459-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2927	04-30-17 *
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17 *
Kentucky (UST)	State Program	4	58	02-23-17 *
Kentucky (VW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-17
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17 *
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17 *
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-17
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-17
Washington	State Program	10	C971	01-12-18
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

TestAmerica Canton

Login # : 74459

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

TestAmerica Cooler # _____ Foam Box ☒ Client ~~Cooler~~ Box ☒ Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

IR GUN# IR-8 (CF +0 °C) Observed Cooler Temp. 4.4 °C Corrected Cooler Temp. 4.4 °C

IR GUN #36 (CF +1.1°C) Observed Cooler Temp. _____°C Corrected Cooler Temp. _____°C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes X No

-Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No

3 Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels be reconciled with the COC? ☒ Yes ☐ No

9. Were correct bottle(s) used for the test(s) indicated? Yes No

10. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐

11. Are these work share samples? Yes No

11. Are these work share samples? ☐ Yes ☒ No

If yes, Questions 11-15 have been checked at the originating laboratory.

11. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐ pH Strip Lot# **HC682547**

12. Were VOCs on the GOC? Yes ☒ No ☐

12. Were VOAs on the COC? ☒ Yes ☐ No ☐ NA

14. Were VOA (or blank) present in the cooler(s)? Trip Blank Lot # ☒ Yes ☐ No

14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes ☒ No ☐

15. Was a LL Hg or Me Hg trip blank present? _____ Yes ☒ No ☐

Comment: PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Etc.

Concerning _____

Samples processed by:

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)

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</u> <u>pH</u>	<u>Preservative</u> <u>Added (mls)</u>	<u>Lot #</u>
W-12610-011617-SSH-1701	240-74459-E-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
W-12610-011617-SSH-1701	240-74459-F-1	Plastic 500ml - with Nitric Acid	<2	_____	_____
W-12610-011617-SSH-1701	240-74459-J-1	Amber Glass 1 liter - Sulfuric Acid	_____	_____	_____
W-12610-011617-SSH-1701	240-74459-K-1	Amber Glass 1 liter - Sulfuric Acid	_____	_____	_____

Attachment 2

Certification Statement

"I, David Favero, certify under penalty of law that this document (January 31, 2017 GHD Semi-Annual Compliance Report (July 1 to December 31, 2016)), and all attachments were prepared under by direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."



RACER, Deputy Cleanup Manager – Michigan



(Date)