FOI #16533

Olivencia, Mildred

From: fmcfadden@impactenvironmental.com
Sent: Tuesday, December 08, 2015 8:30 AM
To: Olivencia, Mildred
Cc: Torres-Rojas, Genara; Van Duyne, Sheree; Ng, Danny; Shalewitz, William
Subject: Freedom of Information Online Request Form

Information:

First Name: Frank
Last Name: McFadden
Company: Impact Environmental
Mailing Address 1: 1000 Page Avenue
Mailing Address 2:
City: Lyndhurst
State: NJ
Zip Code: 07071
Email Address: fmcfadden@impactenvironmental.com
Phone: 2012685686
Required copies of the records: No

List of specific record(s):
We are completing Phase I and Phase II work at the Fort Lee Parking Authority property located at 2030 Guntzer Street Block 4751 lot 2. There are two 2 monitoring wells located on the Parking Authority property registered to the adjacent Port Authority of NY NJ property Block 4751, lot 3. It has come to our attention that you are the consultant for the Port Authority. Please provide any ground water analytical data for these two 2 monitoring wells. Thank you.

THE PORT AUTHORITY OF NY & NJ

FOI Administrator

February 25, 2016

Mr. Frank McFadden
Impact Environmental
1000 Page Avenue
Lyndhurst, NJ 07071

Re: Freedom of Information Reference No. 16533

Dear Mr. McFadden:

This is in response to your December 8, 2015 request, which has been processed under the Port Authority's Freedom of Information Code, copy enclosed, for any ground water analytical data related to two monitoring wells on the Parking Authority property located at 2030 Guntzer Street Block 4751 lot 2 registered to the adjacent Port Authority of NY NJ property Block 4751, lot 3.

Material responsive to your request can be found on the Port Authority's website at http://corpinfo.panynj.gov/documents/16533-o/. Paper copies of the available records are available upon request.

Please refer to the above FOI reference number in any future correspondence relating to your request.

Very truly yours,

Danny Ng
FOI Administrator

Enclosure

4 World Trade Center, 18th Floor
150 Greenwich Street
New York, NY 10007
T: 212 435 3642 F: 212 435 7555

HAMPTONCLARKE·VERITECH

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FAX 973-244-9787

WWW.HCVLAB.COM

Project: GWB-Admin. Bldg.

Client PO: (448) B04-951.090

Report To: PORT AUTHORITY OF NY & NJ
MATERIALS ENGINEERING DIV.
241 ERIE ST.
ROOM 234
JERSEY CITY, NJ 07310-1397

Attn: D.Bailey/A.Zafirelis

Received Date: 8/22/2011

Report Date: 9/15/2011

Deliverables: NJDEP-R

Lab ID: AC61273

Lab Project No: 1082202

REVISED
10/28/11

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory

In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Jeri Rossi - Quality Assurance Director OR Stanley Gilewicz - Laboratory Director

NJ	(07071 and 07069)	NY	(ELAP11408 and 11939)	CT	(PH-0671)	USACE
PA	(68-00463 and 68-04409)	KY	(90124)	WV	(353)	

HC·V
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Subcontracted Data is numbered as attached	

Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HCV Project #: 1082202

Project: GWB-Admin. Bldg.

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC61273-007	MW-08_201108221113 U	Aqueous	8/22/2011	8/22/2011
AC61273-008	MW-08_201108221113 F	Aqueous	8/22/2011	8/22/2011
[redacted]				

HCV Case Narrative/Conformance Summary

Client: Port Authority of NY&NJ
Project: *GWB-Administration Building*

HCV Project: 1082202

Volatile Organic Analysis:

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 18041 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample (MBS).

Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

The recovery of Sulfate is outside QC limits in the Matrix Spike and Matrix Spike Duplicate in batch 1065. All QC criteria were met in the Laboratory Control Sample (LCS).

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report.

Samples AC61273-[redacted] 007, [redacted] were submitted to Microseeps for Methane, Carbon Dioxide and Nitrogen analysis.

Jeri Rossi
Quality Assurance Director

Or

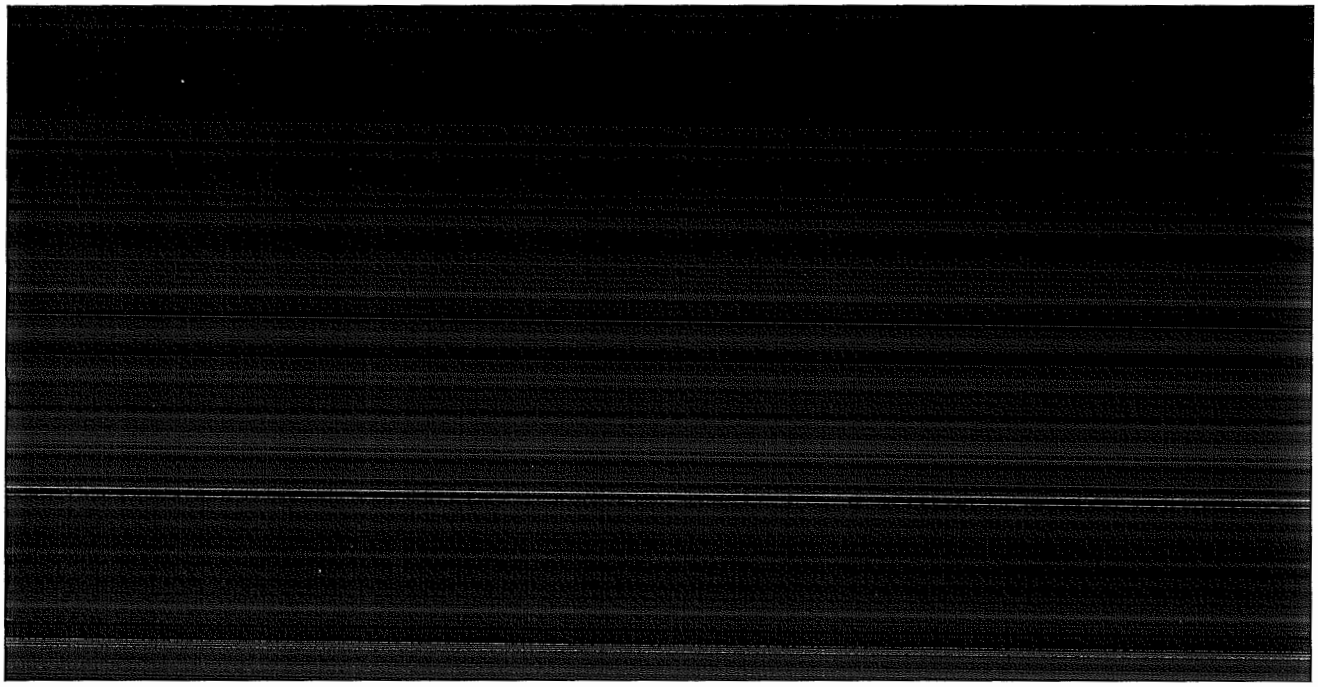
Stanley Gilewicz
Laboratory Director

9/15/11
Date

HCV Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HCV Project #:** 1082202

Project: GWB-Admin. Bldg.



Lab#: AC61273-007 Sample ID: MW-08_201108221113 U

Analyte	Units	RL	Result	Analytical Method
Aluminum	ug/l	100	100	200.7/200.8
Iron	ug/l	150	20000	200.7/200.8
Manganese	ug/l	25	1800	200.7/200.8
Sodium	ug/l	50000	2900000	200.7/200.8
Sulfate	mg/l	50	280	300.0 rev2.1
Arsenic	ug/l	1.0	5.1	EPA 200.8
Methyl-t-butyl ether	ug/l	0.50	1.6	EPA 624
t-Butyl Alcohol	ug/l	5.0	20	EPA 624
Alkalinity	mg caco3/l	10	560	SM2320B-97
Carbon Dioxide	mg/l	5.0	190	Subcontract
Methane	ug/l	0.10	810	Subcontract
Nitrogen	mg/l	0.50	14	Subcontract

Lab#: AC61273-008 Sample ID: MW-08_201108221113 F

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	150	13000	200.7/200.8
Manganese	ug/l	25	1300	200.7/200.8

Sample ID: MW-08_201108221113 U
Lab#: AC61273-007
Matrix: Aqueous

Collection Date: 8/22/2011
Receipt Date: 8/22/2011

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	560

BTEX (624)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	1.6
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	20
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Methane/Ethane/Ethene)

Analyte	DF	Units	RL	Result
Carbon Dioxide	1	mg/l	5.0	190
Methane	1	ug/l	0.10	810
Nitrogen	1	mg/l	0.50	14

Metals-Four 200.7/8

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	100	100
Iron	1	ug/l	150	20000
Manganese	1	ug/l	25	1800
Sodium	20	ug/l	50000	2900000

Metals-One 200.8

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	1.0	5.1

Metals-Six 200.7

Analyte	DF	Units	RL	Result
Cadmium	1	ug/l	2.0	ND
Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Lead	1	ug/l	5.0	ND
Nickel	1	ug/l	10	ND
Zinc	1	ug/l	25	ND

Metals-Two 200.8

Analyte	DF	Units	RL	Result
Beryllium	1	ug/l	0.75	ND
Thallium	1	ug/l	1.5	ND

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	25	mg/l	50	280

Sample ID: MW-08_201108221113 F
Lab#: AC61273-008
Matrix: Aqueous

Collection Date: 8/22/2011
Receipt Date: 8/22/2011

Metals Pair 200.7/8

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	13000
Manganese	1	ug/l	25	1300

Hampton-Clarke
Analytical & Field Services

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FAX: 973-244-9787
WWW.HCVLAB.COM

Project: GWB Admin. Bldg

Client PO: (448) B04-951.090

Report To: PORT AUTHORITY OF NY & NJ
MATERIALS ENGINEERING DIV.
241 ERIE ST.
ROOM 234
JERSEY CITY, NJ 07310-1397

Attn: D.Bailey/A.Zafirelis

Received Date: 10/7/2015

Report Date: 11/2/2015

Deliverables: NJDEP-R

Lab ID: AC87443

Lab Project No: 5100806

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR Jean Revolus - Laboratory Director

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Hampton-Clarke
WBE/DBE/SDB 800-426-9992

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Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 5100806

Project: GWB Admin. Bldg

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC87443-009	MF-MW-7---100715WG01 U	Aqueous	10/7/2015	10/7/2015
AC87443-010	MF-MW-7---100715WG01 F	Aqueous	10/7/2015	10/7/2015
AC87443-011	MF-MW-8---100715WG01 U	Aqueous	10/7/2015	10/7/2015
AC87443-012	MF-MW-8---100715WG01 F	Aqueous	10/7/2015	10/7/2015
[redacted]				

HC Case Narrative

Client: PORT AUTHORITY OF NY & NJ
Project: GWB Admin. Bldg

HC Project: 5100806

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Sample AC87443-015 was analyzed at a dilution due to high concentration of target analytes.

The Method Blank Spike for batches 47672 and 47682 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 47672 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Gases Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch 34936 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Metals Analysis:

Samples AC87443-007 and –013: Mg reported from dilutions due to concentrations exceeding the Linear Range.

The serial dilution for batch 47268 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Samples AC87443-[redacted] -010, -012, [redacted] were filtered and preserved in the laboratory per client's request.

Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for batch W-1721 recovered outside QC limits. Please refer to the QC section for the recoveries.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AC87443-[redacted] -009, -011, [redacted] were submitted to IAL for Total Kjeldahl Nitrogen analysis.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

11/2/2015
Date

HC Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HC Project #:** 5100806

Project: GWB Admin. Bldg

Lab#: AC87443-009 **Sample ID: MF-MW-7---100715WG01 U**

Analyte	Units	RL	Result	Analytical Method
Sulfate	mg/l	20	360	300.0 rev2.1
Total Kjeldahl Nitrogen	ug/l	500	5250	EPA 351
Iron	ug/l	300	1400	EPA 6010C
Magnesium	ug/l	5000	52000	EPA 6010C
Manganese	ug/l	40	910	EPA 6010C
Methyl-t-butyl ether	ug/l	0.50	3.7	EPA 8260C
t-Butyl Alcohol	ug/l	5.0	110	EPA 8260C
Carbon Dioxide	ug/l	50000	470000	GASES
Methane	ug/l	100	350	GASES
Alkalinity	mg caco3/l	10	860	SM2320B-97
Total Organic Carbon	mg/l	5.0	11	SM5310B-00

Lab#: AC87443-010 **Sample ID: MF-MW-7---100715WG01 F**

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	300	1200	EPA 6010C
Manganese	ug/l	40	870	EPA 6010C

Lab#: AC87443-011 **Sample ID: MF-MW-8---100715WG01 U**

Analyte	Units	RL	Result	Analytical Method
Sulfate	mg/l	20	230	300.0 rev2.1
Total Kjeldahl Nitrogen	ug/l	500	4880	EPA 351
Iron	ug/l	300	5300	EPA 6010C
Magnesium	ug/l	5000	19000	EPA 6010C
Manganese	ug/l	40	1100	EPA 6010C
Methyl-t-butyl ether	ug/l	0.50	1.1	EPA 8260C
t-Butyl Alcohol	ug/l	5.0	13	EPA 8260C
Carbon Dioxide	ug/l	50000	450000	GASES
Methane	ug/l	100	750	GASES
Alkalinity	mg caco3/l	10	550	SM2320B-97
Total Organic Carbon	mg/l	5.0	14	SM5310B-00

Lab#: AC87443-012 **Sample ID: MF-MW-8---100715WG01 F**

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	300	830	EPA 6010C
Manganese	ug/l	40	1000	EPA 6010C

Sample ID: MF-MW-7---100715WG01 U
Lab#: AC87443-009
Matrix: Aqueous

Collection Date: 10/7/2015
Receipt Date: 10/7/2015

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	860

BTEX & Extra Compunds (8260)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	3.7
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	110
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Carbon Dioxide)

Analyte	DF	Units	RL	Result
Carbon Dioxide	50	ug/l	50000	470000

Gases (Methane/Ethane/Ethene/CO2)

Analyte	DF	Units	RL	Result
Methane	50	ug/l	100	350

Metals-Three 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	1400
Magnesium	1	ug/l	5000	52000
Manganese	1	ug/l	40	910

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	360

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	ug/l	500	5250

Total Organic Carbon (SM5310B-00)

Analyte	DF	Units	RL	Result
Total Organic Carbon	1	mg/l	5.0	11

Sample ID: MF-MW-7---100715WG01 F
Lab#: AC87443-010
Matrix: Aqueous

Collection Date: 10/7/2015
Receipt Date: 10/7/2015

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	1200
Manganese	1	ug/l	40	870

Sample ID: MF-MW-8---100715WG01 U
Lab#: AC87443-011
Matrix: Aqueous

Collection Date: 10/7/2015
Receipt Date: 10/7/2015

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	550

BTEX & Extra Compunds (8260)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	1.1
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	13
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Carbon Dioxide)

Analyte	DF	Units	RL	Result
Carbon Dioxide	50	ug/l	50000	450000

Gases (Methane/Ethane/Ethene/CO2)

Analyte	DF	Units	RL	Result
Methane	50	ug/l	100	750

Metals-Three 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	5300
Magnesium	1	ug/l	5000	19000
Manganese	1	ug/l	40	1100

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	230

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	ug/l	500	4860

Total Organic Carbon (SM5310B-00)

Analyte	DF	Units	RL	Result
Total Organic Carbon	1	mg/l	5.0	14

Sample ID: MF-MW-8---100715WG01 F
Lab#: AC87443-012
Matrix: Aqueous

Collection Date: 10/7/2015
Receipt Date: 10/7/2015

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	830
Manganese	1	ug/l	40	1000

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FAX: 973-244-9787

WWW.HCVLAB.COM

Project: GWB-Admin. Bldg.

Client PO: (448) B04-951.090

Report To: PORT AUTHORITY OF NY & NJ
MATERIALS ENGINEERING DIV.
241 ERIE ST.
ROOM 234
JERSEY CITY, NJ 07310-1397

Attn: D.Bailey/A.Zafirelis

Received Date: 5/25/2011

Report Date: 8/25/2011

Deliverables: NJDEP-R

Lab ID: AC59319

Lab Project No: 1052515

REVISED

This report is a true report of results obtained from our tests of this material. All results meet the requirements of the NELAC Institute standards. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.

Jeri Rossi - Quality Assurance Director OR Stanley Gilewicz - Laboratory Director

NJ	(07071 and 07069)	NY	(ELAP11408 and 11939)	CT	(PH-0671)	USACE
PA	(68-00463 and 68-04409)	KY	(90124)	WV	(353)	

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(Subcontracted data is numbered as attached)

Sample Summary

Client: PORT AUTHORITY OF NY & NJ

Project: GWB-Admin. Bldg.

HCV Project #: 1052515

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC59319-007	MW-08_201105251024 U	Aqueous	5/25/2011	5/25/2011
AC59319-008	MW-08_201105251024 F	Aqueous	5/25/2011	5/25/2011
[redacted]				

HCV Case Narrative/Conformance Summary

Client: Port Authority of NY and NJ
Project: GWB-Admin. Bldg.

HCV Project: 1052515

Volatile Organic Analysis:

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 9749 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample (MBS). Also, he MS/MSD RPDs of few compounds are outside QC limits.

Metals Analysis:

The recoveries of Manganese and Iron are biased low, outside QC limits in the Matrix Spike in batch 6849. All QC criteria were met in the LCS and LCS MR. Also, the serial dilutions for Manganese and Iron are outside QC limits, suggesting matrix interference.

Wet Chemistry Analysis:

Data conforms to method requirements.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report.

Samples AC59319-[redacted] 007, [redacted] were submitted to Microseeps for Carbon Dioxide, Methane, and Nitrogen analysies.

Jeri Rossi
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

8/25/11
Date

HCV Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HCV Project #:** 1052515

Project: GWB-Admin. Bldg.

[redacted]

Lab#: AC59319-007 Sample ID: MW-08_201105251024 U

Analyte	Units	RL	Result	Analytical Method
Aluminum	ug/l	100	580	200.7/200.8
Iron	ug/l	150	12000	200.7/200.8
Manganese	ug/l	25	1800	200.7/200.8
Sodium	ug/l	50000	4400000	200.7/200.8
Sulfate	mg/l	10	360	300.0 rev2.1
Methyl-t-butyl ether	ug/l	0.50	1.1	EPA 624
t-Butyl Alcohol	ug/l	5.0	22	EPA 624
Alkalinity	mg caco3/l	10	480	SM2320B-97
Carbon Dioxide	mg/l	5.0	44	Subcontract
Methane	ug/l	0.10	120	Subcontract
Nitrogen	mg/l	0.50	15	Subcontract

Lab#: AC59319-008 Sample ID: MW-08_201105251024 F

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	150	7600	200.7/200.8
Manganese	ug/l	25	1800	200.7/200.8

[redacted]

Sample ID: MW-08_201105251024 U
Lab#: AC59319-007
Matrix: Aqueous

Collection Date: 5/25/2011
Receipt Date: 5/25/2011

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	480

BTEX (624)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	1.1
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	22
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Methane/Ethane/Ethene)

Analyte	DF	Units	RL	Result
Carbon Dioxide	1	mg/l	5.0	44
Methane	1	ug/l	0.10	120
Nitrogen	1	mg/l	0.50	15

Metals (single) 200.7/8

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	12000

Metals-Three 200.7/8

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	100	580
Manganese	1	ug/l	25	1800
Sodium	20	ug/l	50000	4400000

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	10	360

Sample ID: MW-08_201105251024 F
Lab#: AC59319-008
Matrix: Aqueous

Collection Date: 5/25/2011
Receipt Date: 5/25/2011

Fe-Dissolved (200.7/8)

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	7600

Metals (single) 200.7/8

Analyte	DF	Units	RL	Result
Manganese	1	ug/l	25	1800

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JERSEY CITY, NJ 07310-1397

Attn: D.Bailey/A.Zafirelis

Received Date: 8/23/2011

Report Date: 9/20/2011

Deliverables: NJDEP-R

Lab ID: AC61303

Lab Project No: 1082322

REVISED
10/28/11 nd

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Jeri Rossi - Quality Assurance Director OR Stanley Gilewicz - Laboratory Director

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PA	(68-00463 and 68-04409)	KY	(90124)	WV	(353)	

HC·V
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Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HCV Project #: 1082322

Project: GWB-Admin. Bldg.

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC61303-008	MW-07_201108231207 U	Aqueous	8/23/2011	8/23/2011
AC61303-009	MW-07_201108231207 F	Aqueous	8/23/2011	8/23/2011
[redacted]				

HCV Case Narrative/Conformance Summary

Client: Port Authority of NY&NJ
Project: GWB-Administration Building

HCV Project: 1082322

Volatile Organic Analysis:

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 18041 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample (MBS).

Metals Analysis:

The serial dilution for Copper is outside QC limits in batch 10197, suggesting matrix interference.

Wet Chemistry Analysis:

Data conforms to method requirements.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report.

Samples AC61303 [redacted] 008 [redacted] were submitted to Microseeps for Methane, Carbon Dioxide and Nitrogen analysis.

Jeri Rossi
Jeri Rossi
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

10/28/11
Date

HCV Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HCV Project #:** 1082322

Project: GWB-Admin. Bldg.

[redacted]

Lab#: AC61303-008 **Sample ID:** MW-07_201108231207 U

Analyte	Units	RL	Result	Analytical Method
Lead	ug/l	5.0	21	200.7
Zinc	ug/l	25	71	200.7
Aluminum	ug/l	100	720	200.7/200.8
Iron	ug/l	150	9700	200.7/200.8
Manganese	ug/l	25	1900	200.7/200.8
Sodium	ug/l	25000	3900000	200.7/200.8
Sulfate	mg/l	100	450	300.0 rev2.1
Arsenic	ug/l	1.0	2.5	EPA 200.8
Methyl-t-butyl ether	ug/l	0.50	2.6	EPA 624
t-Butyl Alcohol	ug/l	5.0	180	EPA 624
Alkalinity	mg caco3/l	10	640	SM2320B-97
Carbon Dioxide	mg/l	5.0	110	Subcontract
Methane	ug/l	0.10	1200	Subcontract
Nitrogen	mg/l	0.50	15	Subcontract

Lab#: AC61303-009 **Sample ID:** MW-07_201108231207 F

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	150	5400	200.7/200.8
Manganese	ug/l	25	1600	200.7/200.8

Sample ID: MW-07_201108231207 U
Lab#: AC61303-008
Matrix: Aqueous

Collection Date: 8/23/2011
Receipt Date: 8/23/2011

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	640

BTEX (624)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	2.6
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	180
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Methane/Ethane/Ethene)

Analyte	DF	Units	RL	Result
Carbon Dioxide	1	mg/l	5.0	110
Methane	1	ug/l	0.10	1200
Nitrogen	1	mg/l	0.50	15

Metals-Four 200.7/8

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	100	720
Iron	1	ug/l	150	9700
Manganese	1	ug/l	25	1900
Sodium	10	ug/l	25000	3900000

Metals-One 200.8

Analyte	DF	Units	RL	Result
Arsenic	1	ug/l	1.0	2.5

Metals-Six 200.7

Analyte	DF	Units	RL	Result
Cadmium	1	ug/l	2.0	ND
Chromium	1	ug/l	25	ND
Copper	1	ug/l	25	ND
Lead	1	ug/l	5.0	21
Nickel	1	ug/l	10	ND
Zinc	1	ug/l	25	71

Metals-Two 200.8

Analyte	DF	Units	RL	Result
Beryllium	1	ug/l	0.75	ND
Thallium	1	ug/l	1.5	ND

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	ND

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	50	mg/l	100	450

Sample ID: MW-07_201108231207 F
Lab#: AC61303-009
Matrix: Aqueous

Collection Date: 8/23/2011
Receipt Date: 8/23/2011

Metals Pair 200.7/8

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	5400
Manganese	1	ug/l	25	1600

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Attn: D.Bailey/A.Zafirelis

Received Date: 10/27/2015

Report Date: 11/13/2015

Deliverables: NJDEP-R

Lab ID: AC87838

Lab Project No: 5102720

REVISED
11-20-15

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Robin Cousineau - Quality Assurance Director OR Jean Revolus - Laboratory Director

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Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 5102720

Project: GWB Admin. Bldg

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC87838-006	MF-MW--7-102715WG01	Aqueous	10/27/2015	10/27/2015
AC87838-007	MF-MW--8-102715WG01	Aqueous	10/27/2015	10/27/2015
[redacted]				

HC Case Narrative

Client: PORT AUTHORITY OF NY & NJ
Project: GWB Admin. Bldg

HC Project: 5102720

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Samples AC87838-002 and 008 were analyzed at a dilution due to high concentration of target analytes.

The Method Blank Spike for batches MBS47852, MBS47854, MBS47867, MBS47870, and MBS47884 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch MBS47870 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch MBS47870 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

The Matrix Spike and/or Matrix Spike Duplicate for Sulfate batch W-1733 recovered outside QC limits. Please refer to the QC section for the recoveries.

Samples AC87838-001 -009 were analyzed outside the 15 minute hold time for Ferrous Iron.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AC87838-001 - 009 were submitted to Integrated Analytical Laboratories LLC for Total Kjeldahl Nitrogen analysis.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

11/20/2015
Date

HC Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HC Project #:** 5102720

Project: GWB Admin. Bldg

[redacted]

Lab#: AC87838-006 **Sample ID: MF-MW--7-102715WG01**

Analyte	Units	RL	Result	Analytical Method
Sulfate	mg/l	20	360	300.0 rev2.1
Total Kjeldahl Nitrogen	ug/l	1000	4840	EPA 351
Iron	ug/l	300	2100	EPA 6010C
Manganese	ug/l	40	1000	EPA 6010C
Methyl-t-butyl ether	ug/l	0.50	2.1	EPA 8260C
t-Butyl Alcohol	ug/l	5.0	64	EPA 8260C
Ferrous Iron	mg/l	0.25	0.95	SM 3500-Fe B
Alkalinity	mg caco3/l	10	880	SM2320B-97
Total Organic Carbon	mg/l	5.0	10	SM5310B-00

Lab#: AC87838-007 **Sample ID: MF-MW--8-102715WG01**

Analyte	Units	RL	Result	Analytical Method
Sulfate	mg/l	20	210	300.0 rev2.1
Total Kjeldahl Nitrogen	ug/l	500	5410	EPA 351
Iron	ug/l	300	5100	EPA 6010C
Manganese	ug/l	40	920	EPA 6010C
Methyl-t-butyl ether	ug/l	0.50	0.51	EPA 8260C
t-Butyl Alcohol	ug/l	5.0	8.9	EPA 8260C
Ferrous Iron	mg/l	0.25	0.98	SM 3500-Fe B
Alkalinity	mg caco3/l	10	680	SM2320B-97
Total Organic Carbon	mg/l	5.0	12	SM5310B-00

Sample ID: MF-MW--7-102715WG01
Lab#: AC87838-006
Matrix: Aqueous

Collection Date: 10/27/2015
Receipt Date: 10/27/2015

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	880

BTEX & Extra Compunds (8260)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	2.1
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	64
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Ferrous Iron (SM 3500-Fe B)

Analyte	DF	Units	RL	Result
Ferrous Iron	1	mg/l	0.25	0.95

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	2100
Manganese	1	ug/l	40	1000

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	360

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	2	ug/l	1000	4840

Total Organic Carbon (SM5310B-00)

Analyte	DF	Units	RL	Result
Total Organic Carbon	1	mg/l	5.0	10

Sample ID: MF-MW--8-102715WG01
Lab#: AC87838-007
Matrix: Aqueous

Collection Date: 10/27/2015
Receipt Date: 10/27/2015

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	680

BTEX & Extra Compunds (8260)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	0.51
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	8.9
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Ferrous Iron (SM 3500-Fe B)

Analyte	DF	Units	RL	Result
Ferrous Iron	1	mg/l	0.25	0.98

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	5100
Manganese	1	ug/l	40	920

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	10	mg/l	20	210

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	1	ug/l	500	5410

Total Organic Carbon (SM5310B-00)

Analyte	DF	Units	RL	Result
Total Organic Carbon	1	mg/l	5.0	12

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Attn: D.Bailey/A.Zafirelis

Received Date: 5/26/2011

Report Date: 8/25/2011

Deliverables: NJDEP-R

Lab ID: AC59353

Lab Project No: 1052622

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(Subcontracted data is numbered as attached)

Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HCV Project #: 1052622

Project: GWB-Admin. Bldg.

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC59353-012	MW-07_201105261058 F	Aqueous	5/26/2011	5/26/2011
[redacted]				

HCV Case Narrative/Conformance Summary

Client: Port Authority of NY & NJ
Project: GWB-Admin. Bldg.

HCV Project: 1052622

Volatile Organic Analysis:

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch MBS9766 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample (MBS).

Metals Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

The recovery of Sulfate is biased high, outside QC limits in the Matrix Spike and Matrix Spike Duplicate in batch W-429. All QC criteria were met in the Laboratory Control Sample (LCS).

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report.

Samples AC59353-[redacted] and -011 were submitted to Microseeps Inc for Gas analysis.

Jeri Rossi
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

6/24/11
Date

Sample ID: MW-07_201105261058 U
Lab#: AC59353-011
Matrix: Aqueous

Collection Date: 5/26/2011
Receipt Date: 5/26/2011

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	490

BTEX (624)

Analyte	DF	Units	RL	Result
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
t-Butyl Alcohol	1	ug/l	5.0	ND
Toluene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Gases (Methane/Ethane/Ethene)

Analyte	DF	Units	RL	Result
Carbon Dioxide	1	mg/l	5.0	55
Methane	1	ug/l	0.10	7.3
Nitrogen	1	mg/l	0.50	15

Metals (single) 200.7/8

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	400

Metals-Three 200.7/8

Analyte	DF	Units	RL	Result
Aluminum	1	ug/l	100	300
Manganese	1	ug/l	25	67
Sodium	20	ug/l	50000	2600000

Nitrate-N (Water) 300.0

Analyte	DF	Units	RL	Result
Nitrate	1	mg/l	1.0	2.0

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	100	mg/l	100	610

Sample ID: MW-07_201105261058 F
Lab#: AC59353-012
Matrix: Aqueous

Collection Date: 5/26/2011
Receipt Date: 5/26/2011

Fe-Dissolved (200.7/8)

Analyte	DF	Units	RL	Result
Iron	1	ug/l	150	ND

Metals (single) 200.7/8

Analyte	DF	Units	RL	Result
Manganese	1	ug/l	25	53

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Attn: D.Bailey/A.Zafirelis

Received Date: 9/18/2015

Report Date: 10/6/2015

Deliverables: NJDEP-R

Lab ID: AC87116

Lab Project No: 5092101

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Sample Summary

Client: PORT AUTHORITY OF NY & NJ

HC Project #: 5092101

Project: GWB Admin. Bldg

Lab#	SampleID	Matrix	Collection Date	Receipt Date
[redacted]				
AC87116-011	MF-MW-7-091815WG01 U	Aqueous	9/18/2015	9/18/2015
AC87116-012	MF-MW-7-091815WG01 F	Aqueous	9/18/2015	9/18/2015
[redacted]				

HC Case Narrative

Client: Port Authority of NY & Nj
Project: GWB Admin. Bldg

HC Project: 5092101

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

RSK-175 Gases Analysis:

Samples AC87116-001, 003, 005, 007, 009, 011, 013, 015 and 017 were analyzed at a dilution due to high concentration of target analytes.

The Matrix Spike and/or Matrix Spike Duplicate for batch 34935 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Metals Analysis:

Samples AC87116-009 and 013 were analyzed at a dilution due to high concentration of target analytes.

Samples AC87116-002, 004, 006, 008, 010, 012, 014, 016 and 018 were filtered and preserved in the laboratory per client's request.

Wet Chemistry Analysis:

Data conforms to method requirements.

Subcontracted Analysis:

Please refer to attached subcontracted laboratory report. Samples AC87116-[redacted]011,[redacted] were submitted to IAL for TKN (Total Kjeldal Nitrogen) analysis.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

10/10/2015
Date

HC Executive Summary

Client: PORT AUTHORITY OF NY & NJ **HC Project #:** 5092101

Project: GWB Admin. Bldg

Lab#: AC87116-011 **Sample ID: MF-MW-7-091815WG01 U**

Analyte	Units	RL	Result	Analytical Method
Sulfate	mg/l	40	430	300.0 rev2.1
Total Kjeldahl Nitrogen	ug/l	1000	4320	EPA 351
Iron	ug/l	300	1800	EPA 6010C
Magnesium	ug/l	5000	52000	EPA 6010C
Manganese	ug/l	40	970	EPA 6010C
Carbon Dioxide	ug/l	50000	470000	GASES
Methane	ug/l	100	320	GASES
Alkalinity	mg caco3/l	10	770	SM2320B-97
Total Organic Carbon	mg/l	5.0	11	SM5310B-00

Lab#: AC87116-012 **Sample ID: MF-MW-7-091815WG01 F**

Analyte	Units	RL	Result	Analytical Method
Iron	ug/l	300	590	EPA 6010C
Manganese	ug/l	40	960	EPA 6010C

Sample ID: MF-MW-7-091815WG01 U
Lab#: AC87116-011
Matrix: Aqueous

Collection Date: 9/18/2015
Receipt Date: 9/18/2015

Alkalinity-Total (SM2320B-97)

Analyte	DF	Units	RL	Result
Alkalinity	1	mg caco3/l	10	770

Gases (Carbon Dioxide)

Analyte	DF	Units	RL	Result
Carbon Dioxide	50	ug/l	50000	470000

Gases (Methane/Ethane/Ethene/CO2)

Analyte	DF	Units	RL	Result
Methane	50	ug/l	100	320

Metals-Three 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	1800
Magnesium	1	ug/l	5000	62000
Manganese	1	ug/l	40	970

Sulfate (Water) 300.0

Analyte	DF	Units	RL	Result
Sulfate	20	mg/l	40	430

Total Kjeldahl Nitrogen EPA 351

Analyte	DF	Units	RL	Result
Total Kjeldahl Nitrogen	2	ug/l	1000	4320

Total Organic Carbon (SM5310B-00)

Analyte	DF	Units	RL	Result
Total Organic Carbon	1	mg/l	5.0	11

Sample ID: MF-MW-7-091815WG01 F
Lab#: AC87116-012
Matrix: Aqueous

Collection Date: 9/18/2015
Receipt Date: 9/18/2015

Metals Pair 6010

Analyte	DF	Units	RL	Result
Iron	1	ug/l	300	590
Manganese	1	ug/l	40	960