

1. Field Activity Summary Report

CERTIFICATION

Westchester Garden Center / Labriola Landfill, Armonk, NY

I, Sara M. Weishaupt, certify that all activities detailed in this Field Activity Summary Report were conducted as described and in full accordance with the approved workplan and any DEC approved modifications, unless otherwise noted herein.

Sara M. Weishaupt

Regional Coordinator

08/06/2020

Date

Sara M. Weishaupt

Signature

Reviewed/Accepted By:

Ella Cattabiani

Division of Materials Management

08/24/2020

Date

Ella Cattabiani

Signature

New York State Department of Environmental Remediation
 Division of Materials Management
 Inactive Landfill Initiative
 Field Activities Summary

Landfill Name: Westchester Garden Center / Labriola

Region: 3

SWID: 3373

Date of Field Activities: 5/30/19

Summary of Field Activities

One existing groundwater monitoring well was sampled at the Westchester Garden Center / Labriola site in accordance with the Field Activities Plan (FAP) with no deviations. Sampling was attempted at three existing monitoring wells; however, sampling was not possible at two of these wells. Locations of monitoring wells are shown on Figure 1. Groundwater flow direction and emergent contaminant concentrations are shown on Figure 2.

Monitoring Wells Sampled

Monitoring Well ID	Date	Sample Collected (yes/no)	Comments
MW-01	5/29/19	No	Insufficient water volume present in well.
MW-02	5/29/19	No	Equipment present inside of well at unknown depth. No sample taken due to concerns over equipment construction and potential to cross-contaminate samples.
MW-03	5/30/19	Yes	Sampled with bladder pump @ 200 mL/min. GW parameters stabilized. Field sample ID: 3-WES-003-001-04

Other Samples

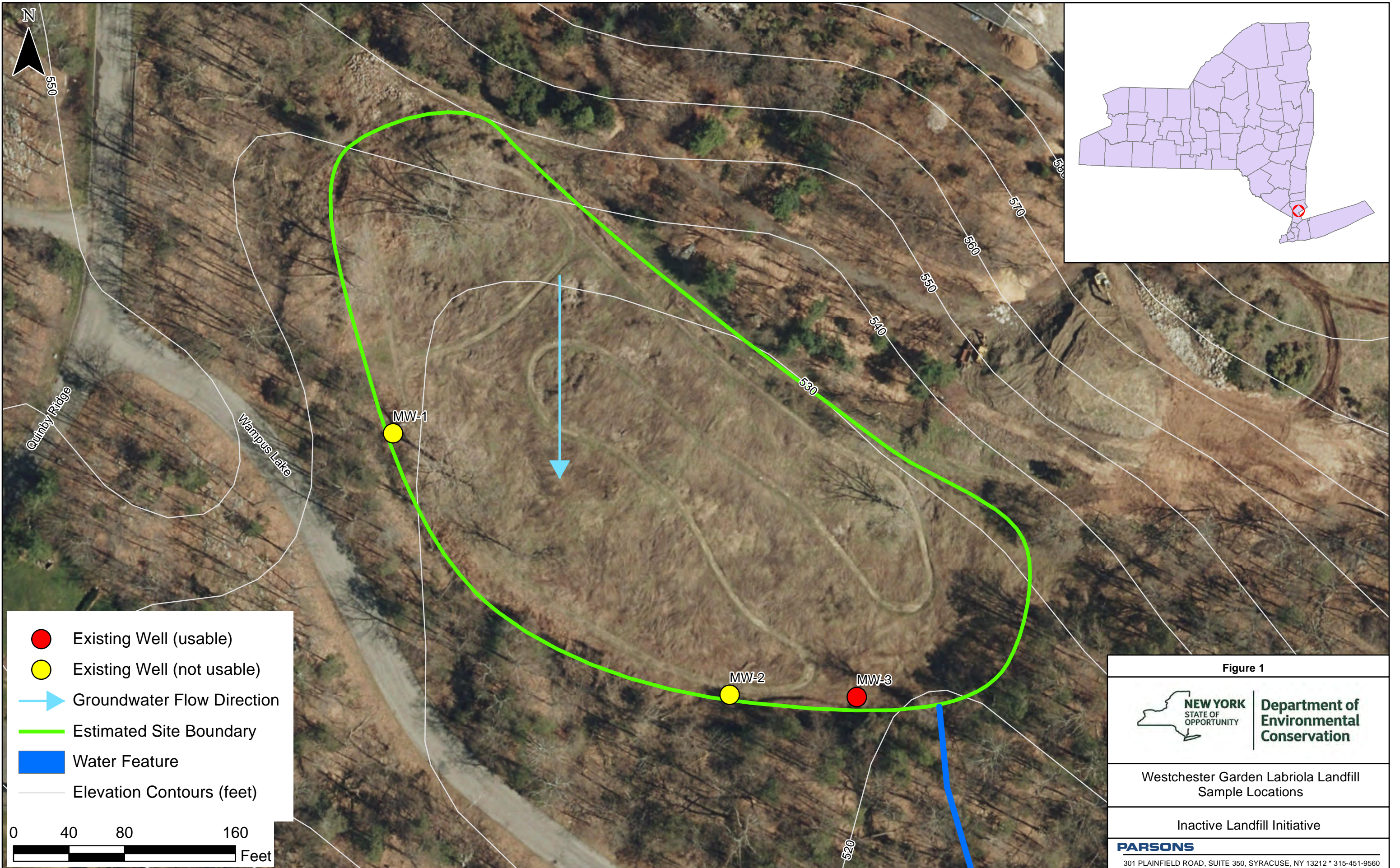
Sample Location	Sample Type	Date	Comments
N/A	Equipment Blank	5/30/19	Field QC Samples
N/A	Field Blank	5/30/19	Field QC Samples

Figures

Figure 1	Sample Locations
Figure 2	Groundwater Flow Direction and Emergent Contaminant Results

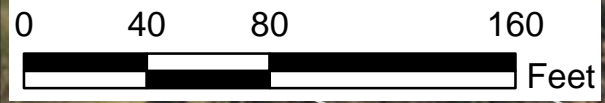
Attachments

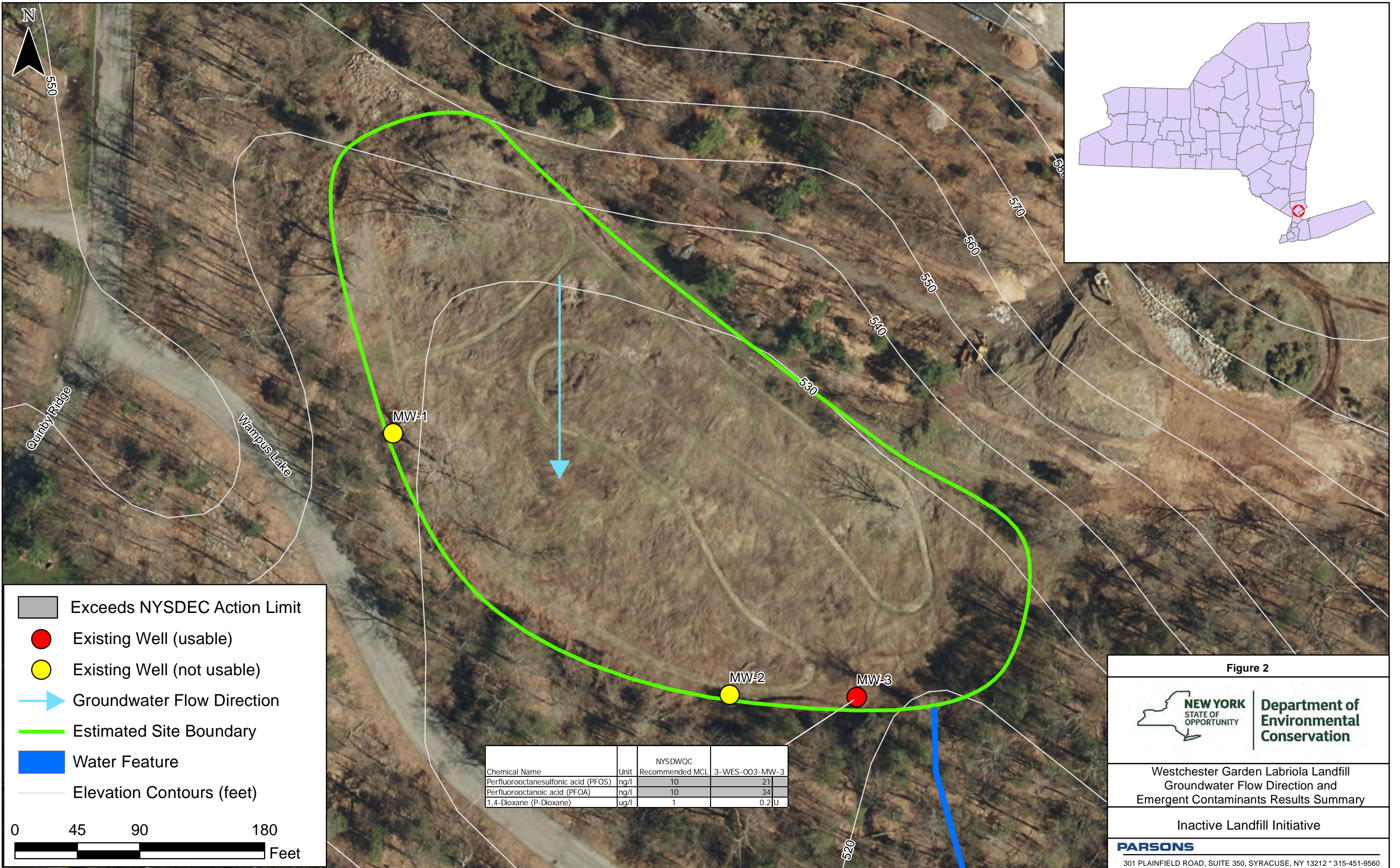
Attachment 1	Work Plan [N/A]
Attachment 2	Boring and Well Construction Logs [N/A]
Attachment 3	Groundwater Sample Logs
Attachment 4	Analytical Laboratory Level II Data Deliverable



Plotted By: CS
 Plot Date: 8/20/2020

- Existing Well (usable)
- Existing Well (not usable)
- ➔ Groundwater Flow Direction
- Estimated Site Boundary
- Water Feature
- Elevation Contours (feet)





Plotted By: CS
Plot Date: 8/20/2020

Exceeds NYSDEC Action Limit
 Existing Well (usable)
 Existing Well (not usable)
 Groundwater Flow Direction
 Estimated Site Boundary
 Water Feature
 Elevation Contours (feet)

0 45 90 180 Feet

Chemical Name	Unit	NYSDEC Recommended MCL	
		3-WES-003-MW-3	3-WES-003-MW-3
Perfluorooctanesulfonic acid (PFOS)	ng/l	10	21
Perfluorooctanoic acid (PFOA)	ng/l	10	34
1,4-Dioxane (P-Dioxane)	ug/l	1	0.2 U

Figure 2

NEW YORK
STATE OF OPPORTUNITY

Department of Environmental Conservation

Westchester Garden Labriola Landfill
Groundwater Flow Direction and
Emergent Contaminants Results Summary

Inactive Landfill Initiative

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NY 13212 * 315-451-9560

ATTACHMENT 1

WORK PLAN

(NOT APPLICABLE)

ATTACHMENT 2

**SOIL BORING/WELL INSTALLATION LOGS
(NOT APPLICABLE)**

ATTACHMENT 3

SAMPLING LOGS

Low Flow Ground Water Sampling Log

Date	05/29/19	Personnel	CF, JM	Weather	70 degrees, overcast, humid/rain
Site Name	Weschester Garden / Labriola	Evacuation Method	N/A	Well #	MW-02
Site Location	Armonk, NY	Sampling Method	N/A	Project #	450619

Well information:

Depth of Well	56.36 ft.	*Measurements taken from:	<input checked="checked" type="checkbox"/>	Top of Well Casing
Depth to Water	5.81 ft.		<input type="checkbox"/>	Top of Protective Casing
H _{wc}	50.55 ft.		<input type="checkbox"/>	(Other, Specify)
Depth to Intake	N/A ft.		<input type="checkbox"/>	

Start Purge Time: N/A

Elapsed Time (min)	Depth to Water (ft)	10%	0.1	3%	10 mV	10%	10%	Flow Rate (mL/min)
		Temperature (celsius)	pH	Conductivity (ms/cm)	Oxidation Reduction Potential	Dissolved Oxygen (mg/L)	Turbidity (NTU)	
Equipment present inside of well at unknown depth - could not physically removed. No sample taken due to concerns over equipment construction and potentially to cross-contaminate samples.								

End Purge Time: N/A

Water Sample

Time Collected: _____	Total volume of purged water removed: _____ (gallons)
Physical appearance at start:	Physical appearance at stop:
Color _____	Color _____
Odor _____	Odor _____
Sheen/Free Product _____	Sheen/Free Product _____

Low Flow Ground Water Sampling Log

Date	5/29/2019 - 5/30/2019	Personnel	CF, JM	Weather	70 degrees, overcast, humid/rain
Site Name	Weschester Garden / Labriola	Evacuation Method	Peri Pump / Bladder Pump	Well #	MW-03
Site Location	Armonk, NY	Sampling Method	Low Flow	Project #	450619

Well information:

Depth of Well	10.50 ft.	*Measurements taken from:
Depth to Water	4.06 ft.	
H _{wc}	6.44 ft.	
Depth to Intake	9.5 ft.	
		<input checked="" type="checkbox"/> Top of Well Casing
		<input type="checkbox"/> Top of Protective Casing
		<input type="checkbox"/> (Other, Specify)

Start Purge Time: 1400 (5/29/19)

Elapsed Time (min)	Depth to Water (ft)	10% Temperature (celsius)	0.1 pH	3% Conductivity (ms/cm)	10 mV Oxidation Reduction Potential	10% Dissolved Oxygen (mg/L)	10% Turbidity (NTU)	100 - 500 mL/min Flow Rate (mL/min)
0	Begin purging w/ peri pump - attempt to purge 3 well volumes before completing low-flow							
55	Temporarily stopped purging to switch pumps. Purged ~5 gallons.							
70	Resume purging using QED bladder pump							
150	Stopped purging on 5/29/19 due to inclement weather (thunder). Purged 12 gallons.							
0	Resumed purging on 5/30/19 at 0645 with bladder pump. Initial DTW = 5.08 ft.							
20	6.09	12.94	6.95	0.775	-183	2.40	26.8	250
25	6.34	12.59	6.95	0.775	-191	1.77	25.9	200
30	6.49	12.41	6.94	0.781	-189	1.67	26.2	200
35	6.56	12.23	6.93	0.778	-184	1.65	25.7	200
40	Fixed flow cell (leaking)							
45	7.03	10.42	6.92	0.825	-173	1.90	26.3	200
50	7.32	10.34	6.94	0.829	-174	1.96	26.5	200
55	7.45	10.31	6.94	0.830	-171	2.05	27.4	200

End Purge Time: 0740 (5/30/19)

Water Sample

Time Collected:	750	Total volume of purged water removed:	15 (gallons)
Physical appearance at start:		Physical appearance at stop:	
Color	brown	Color	Clear
Odor	garbage-like	Odor	garbage-like
Sheen/Free Product	None observed	Sheen/Free Product	None observed

ATTACHMENT 4

ANALYTICAL LABORATORY LEVEL II DATA DELIVERABLE

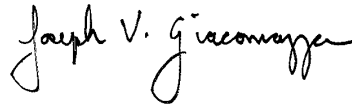
ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-154248-1
Client Project/Site: Westchester Garden Labriola

For:
Parsons Corporation
301 Plainfield Road
Suite 350
Syracuse, New York 13212

Attn: Sara Weishaupt



Authorized for release by:
7/1/2019 12:26:38 PM

Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	13
Isotope Dilution Summary	14
QC Sample Results	16
QC Association Summary	30
Lab Chronicle	33
Certification Summary	34
Method Summary	35
Sample Summary	36
Chain of Custody	37
Receipt Checklists	40

Definitions/Glossary

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Job ID: 480-154248-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-154248-1

Comments

No additional comments.

Receipt

The samples were received on 5/31/2019 5:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone, and 2-Chloro-1,3-butadiene with Vinyl acetate in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and/or laboratory control sample duplicate (LCSD) associated with batch 480-476003. The following samples were affected : 3-WES-003-001-03 (480-154248-3) and 3-WES-003-001-04 (480-154248-4).

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

GC/MS Semi VOA

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

HPLC/IC

Method(s) 300.0: The following sample was reported with elevated reporting limits for all analytes: 3-WES-003-001-04 (480-154248-4). The sample was analyzed at a dilution based on screening results.

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

Metals

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

LCMS

Method(s) 537 (modified): Results for sample 3-WES-003-001-04 (480-154248-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits

Method(s) 537 (modified): The following sample was diluted due to the abundance of non-target analytes: 3-WES-003-001-04 (480-154248-4). Elevated reporting limits (RLs) are provided.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-01

Lab Sample ID: 480-154248-1

No Detections.

Client Sample ID: 3-WES-003-001-02

Lab Sample ID: 480-154248-2

No Detections.

Client Sample ID: 3-WES-003-001-03

Lab Sample ID: 480-154248-3

No Detections.

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	11		10	3.0	ug/L	1			8260C	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.5		9.2	2.3	ng/L	5			537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	10		9.2	4.6	ng/L	5			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.6		9.2	4.2	ng/L	5			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.7	J	9.2	3.7	ng/L	5			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	10		9.2	3.5	ng/L	5			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		9.2	2.8	ng/L	5			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	34		9.2	2.9	ng/L	5			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	13		9.2	2.9	ng/L	5			537 (modified)	Total/NA
Barium	0.10		0.0020	0.00070	mg/L	1			6010C	Total/NA
Boron	0.12		0.020	0.0040	mg/L	1			6010C	Total/NA
Calcium	96.4		0.50	0.10	mg/L	1			6010C	Total/NA
Iron	31.2		0.050	0.019	mg/L	1			6010C	Total/NA
Magnesium	31.9		0.20	0.043	mg/L	1			6010C	Total/NA
Manganese	0.17		0.0030	0.00040	mg/L	1			6010C	Total/NA
Potassium	13.9		0.50	0.10	mg/L	1			6010C	Total/NA
Sodium	12.1		1.0	0.32	mg/L	1			6010C	Total/NA
Chloride	21.1		2.5	1.4	mg/L	5			300.0	Total/NA
Sulfate	52.5		10.0	1.7	mg/L	5			300.0	Total/NA
Ammonia	5.6		0.10	0.045	mg/L	5			350.1	Total/NA
Chemical Oxygen Demand	39.3		10.0	5.0	mg/L	1			410.4	Total/NA
Total Organic Carbon	12.5		1.0	0.43	mg/L	1			9060A	Total/NA
Alkalinity, Total	320		5.0	0.79	mg/L	1			SM 2320B	Total/NA
Total hardness as CaCO3	340		4.0	1.1	mg/L	1			SM 2340C	Total/NA
Total Dissolved Solids	550		10.0	4.0	mg/L	1			SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-01

Lab Sample ID: 480-154248-1

Date Collected: 05/30/19 07:15

Matrix: Water

Date Received: 05/31/19 05:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		17	2.5	ng/L		06/05/19 11:26	06/17/19 04:11	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		17	3.9	ng/L		06/05/19 11:26	06/17/19 04:11	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		17	1.3	ng/L		06/05/19 11:26	06/17/19 04:11	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorobutanoic acid (PFBA)	ND		1.7	0.86	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.55	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.54	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		06/05/19 11:26	06/17/19 04:11	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.45	ng/L		06/05/19 11:26	06/17/19 04:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	85		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C2 PFDoA	68		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C2 PFHxA	85		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C2 PFUnA	83		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C2 PFTeDA	65		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C3 PFBS	90		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C4 PFBA	80		25 - 150				06/05/19 11:26	06/17/19 04:11	1
13C4 PFOA	91		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C4 PFOS	80		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C4 PFHpA	84		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C5 PFNA	85		50 - 150				06/05/19 11:26	06/17/19 04:11	1
13C5 PFPeA	98		25 - 150				06/05/19 11:26	06/17/19 04:11	1
13C8 FOSA	50		25 - 150				06/05/19 11:26	06/17/19 04:11	1
18O2 PFHxS	94		50 - 150				06/05/19 11:26	06/17/19 04:11	1
d3-NMeFOSAA	71		50 - 150				06/05/19 11:26	06/17/19 04:11	1
d5-NEtFOSAA	80		50 - 150				06/05/19 11:26	06/17/19 04:11	1
M2-6:2 FTS	113		25 - 150				06/05/19 11:26	06/17/19 04:11	1
M2-8:2 FTS	89		25 - 150				06/05/19 11:26	06/17/19 04:11	1

Client Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-02

Lab Sample ID: 480-154248-2

Date Collected: 05/30/19 07:20

Matrix: Water

Date Received: 05/31/19 05:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		19	2.8	ng/L		06/05/19 11:26	06/17/19 04:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		19	4.5	ng/L		06/05/19 11:26	06/17/19 04:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		19	1.5	ng/L		06/05/19 11:26	06/17/19 04:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		19	1.6	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.48	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorobutanoic acid (PFBA)	ND		1.9	0.97	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.87	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.75	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.57	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.92	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.88	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.78	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.74	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.9	0.62	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.59	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.61	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.61	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.89	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.58	ng/L		06/05/19 11:26	06/17/19 04:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.51	ng/L		06/05/19 11:26	06/17/19 04:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFDA	83		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C2 PFDoA	78		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C2 PFHxA	88		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C2 PFUnA	85		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C2 PFTeDA	72		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C3 PFBS	79		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C4 PFBA	86		25 - 150				06/05/19 11:26	06/17/19 04:27	1
13C4 PFOA	89		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C4 PFOS	72		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C4 PFHpA	87		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C5 PFNA	85		50 - 150				06/05/19 11:26	06/17/19 04:27	1
13C5 PFPeA	84		25 - 150				06/05/19 11:26	06/17/19 04:27	1
13C8 FOSA	66		25 - 150				06/05/19 11:26	06/17/19 04:27	1
18O2 PFHxS	82		50 - 150				06/05/19 11:26	06/17/19 04:27	1
d3-NMeFOSAA	71		50 - 150				06/05/19 11:26	06/17/19 04:27	1
d5-NEtFOSAA	79		50 - 150				06/05/19 11:26	06/17/19 04:27	1
M2-6:2 FTS	122		25 - 150				06/05/19 11:26	06/17/19 04:27	1
M2-8:2 FTS	90		25 - 150				06/05/19 11:26	06/17/19 04:27	1

Client Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-03

Lab Sample ID: 480-154248-3

Date Collected: 05/30/19 07:25

Matrix: Water

Date Received: 05/31/19 05:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/04/19 14:30	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/19 14:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/19 14:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/19 14:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/19 14:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/19 14:30	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/04/19 14:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/19 14:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/19 14:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/19 14:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/19 14:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/19 14:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/19 14:30	1
2-Butanone (MEK)	ND	*	10	1.3	ug/L			06/04/19 14:30	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/19 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/19 14:30	1
Acetone	ND		10	3.0	ug/L			06/04/19 14:30	1
Acrylonitrile	ND		5.0	0.83	ug/L			06/04/19 14:30	1
Benzene	ND		1.0	0.41	ug/L			06/04/19 14:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/19 14:30	1
Bromoform	ND		1.0	0.26	ug/L			06/04/19 14:30	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/19 14:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/19 14:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/19 14:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/19 14:30	1
Chlorobromomethane	ND		1.0	0.87	ug/L			06/04/19 14:30	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/19 14:30	1
Chloroform	ND		1.0	0.34	ug/L			06/04/19 14:30	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/19 14:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/19 14:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/19 14:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/19 14:30	1
Dibromomethane	ND		1.0	0.41	ug/L			06/04/19 14:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/19 14:30	1
Iodomethane	ND		1.0	0.30	ug/L			06/04/19 14:30	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/04/19 14:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/19 14:30	1
o-Xylene	ND		1.0	0.76	ug/L			06/04/19 14:30	1
Styrene	ND		1.0	0.73	ug/L			06/04/19 14:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/19 14:30	1
Toluene	ND		1.0	0.51	ug/L			06/04/19 14:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/19 14:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/19 14:30	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			06/04/19 14:30	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/19 14:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/19 14:30	1
Vinyl acetate	ND	*	5.0	0.85	ug/L			06/04/19 14:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/19 14:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/19 14:30	1

Client Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-03

Lab Sample ID: 480-154248-3

Date Collected: 05/30/19 07:25

Matrix: Water

Date Received: 05/31/19 05:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		06/04/19 14:30	1
4-Bromofluorobenzene (Surr)	91		73 - 120		06/04/19 14:30	1
Dibromofluoromethane (Surr)	96		75 - 123		06/04/19 14:30	1
Toluene-d8 (Surr)	94		80 - 120		06/04/19 14:30	1

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Date Collected: 05/30/19 07:50

Matrix: Water

Date Received: 05/31/19 05:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/04/19 14:55	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/19 14:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/19 14:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/19 14:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/19 14:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/19 14:55	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/04/19 14:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/19 14:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/19 14:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/19 14:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/19 14:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/19 14:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/19 14:55	1
2-Butanone (MEK)	ND *		10	1.3	ug/L			06/04/19 14:55	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/19 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/19 14:55	1
Acetone	11		10	3.0	ug/L			06/04/19 14:55	1
Acrylonitrile	ND		5.0	0.83	ug/L			06/04/19 14:55	1
Benzene	ND		1.0	0.41	ug/L			06/04/19 14:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/19 14:55	1
Bromoform	ND		1.0	0.26	ug/L			06/04/19 14:55	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/19 14:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/19 14:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/19 14:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/19 14:55	1
Chlorobromomethane	ND		1.0	0.87	ug/L			06/04/19 14:55	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/19 14:55	1
Chloroform	ND		1.0	0.34	ug/L			06/04/19 14:55	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/19 14:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/19 14:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/19 14:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/19 14:55	1
Dibromomethane	ND		1.0	0.41	ug/L			06/04/19 14:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/19 14:55	1
Iodomethane	ND		1.0	0.30	ug/L			06/04/19 14:55	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/04/19 14:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/19 14:55	1
o-Xylene	ND		1.0	0.76	ug/L			06/04/19 14:55	1
Styrene	ND		1.0	0.73	ug/L			06/04/19 14:55	1

Client Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Date Collected: 05/30/19 07:50

Matrix: Water

Date Received: 05/31/19 05:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/19 14:55	1
Toluene	ND		1.0	0.51	ug/L			06/04/19 14:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/19 14:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/19 14:55	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			06/04/19 14:55	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/19 14:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/19 14:55	1
Vinyl acetate	ND	*	5.0	0.85	ug/L			06/04/19 14:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/19 14:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/19 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/04/19 14:55	1
4-Bromofluorobenzene (Surr)	92		73 - 120		06/04/19 14:55	1
Dibromofluoromethane (Surr)	96		75 - 123		06/04/19 14:55	1
Toluene-d8 (Surr)	93		80 - 120		06/04/19 14:55	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		05/31/19 15:16	06/03/19 20:41	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	05/31/19 15:16	06/03/19 20:41	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		06/03/19 15:38	06/08/19 18:22	1
Acenaphthylene	ND		0.50	0.34	ug/L		06/03/19 15:38	06/08/19 18:22	1
Anthracene	ND		0.50	0.39	ug/L		06/03/19 15:38	06/08/19 18:22	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		06/03/19 15:38	06/08/19 18:22	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		06/03/19 15:38	06/08/19 18:22	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		06/03/19 15:38	06/08/19 18:22	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		06/03/19 15:38	06/08/19 18:22	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		06/03/19 15:38	06/08/19 18:22	1
Chrysene	ND		0.50	0.32	ug/L		06/03/19 15:38	06/08/19 18:22	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		06/03/19 15:38	06/08/19 18:22	1
Fluoranthene	ND		0.50	0.36	ug/L		06/03/19 15:38	06/08/19 18:22	1
Fluorene	ND		0.50	0.37	ug/L		06/03/19 15:38	06/08/19 18:22	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		06/03/19 15:38	06/08/19 18:22	1
Naphthalene	ND		0.50	0.42	ug/L		06/03/19 15:38	06/08/19 18:22	1
Phenanthrene	ND		0.50	0.38	ug/L		06/03/19 15:38	06/08/19 18:22	1
Pyrene	ND		0.50	0.36	ug/L		06/03/19 15:38	06/08/19 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	85		48 - 120	06/03/19 15:38	06/08/19 18:22	1
Nitrobenzene-d5	78		46 - 120	06/03/19 15:38	06/08/19 18:22	1
p-Terphenyl-d14	47		24 - 136	06/03/19 15:38	06/08/19 18:22	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		92	13	ng/L		06/05/19 11:26	06/17/19 04:43	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Date Collected: 05/30/19 07:50

Matrix: Water

Date Received: 05/31/19 05:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		92	21	ng/L		06/05/19 11:26	06/17/19 04:43	5
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		92	6.9	ng/L		06/05/19 11:26	06/17/19 04:43	5
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		92	7.8	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorobutanesulfonic acid (PFBS)	9.5		9.2	2.3	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorobutanoic acid (PFBA)	10		9.2	4.6	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorodecanesulfonic acid (PFDS)	ND		9.2	4.1	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorodecanoic acid (PFDA)	ND		9.2	3.5	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorododecanoic acid (PFDoA)	ND		9.2	2.7	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluoroheptanesulfonic Acid (PFHpS)	ND		9.2	4.4	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluoroheptanoic acid (PFHpA)	9.6		9.2	4.2	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorohexanesulfonic acid (PFHxS)	4.7 J		9.2	3.7	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorohexanoic acid (PFHxA)	10		9.2	3.5	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorononanoic acid (PFNA)	ND		9.2	1.2	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorooctanesulfonamide (PFOSA)	ND		9.2	2.9	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorooctanesulfonic acid (PFOS)	21		9.2	2.8	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorooctanoic acid (PFOA)	34		9.2	2.9	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluoropentanoic acid (PFPeA)	13		9.2	2.9	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorotetradecanoic acid (PFTeA)	ND		9.2	4.2	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluorotridecanoic acid (PFTriA)	ND		9.2	2.8	ng/L		06/05/19 11:26	06/17/19 04:43	5
Perfluoroundecanoic acid (PFUnA)	ND		9.2	2.4	ng/L		06/05/19 11:26	06/17/19 04:43	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	79		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C2 PFDoA	90		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C2 PFHxA	70		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C2 PFUnA	97		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C2 PFTeDA	82		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C3 PFBS	41 *		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C4 PFBA	54		25 - 150	06/05/19 11:26	06/17/19 04:43	5
13C4 PFOA	96		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C4 PFOS	71		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C4 PFHpA	87		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C5 PFNA	91		50 - 150	06/05/19 11:26	06/17/19 04:43	5
13C5 PFPeA	71		25 - 150	06/05/19 11:26	06/17/19 04:43	5
13C8 FOSA	56		25 - 150	06/05/19 11:26	06/17/19 04:43	5
18O2 PFHxS	147		50 - 150	06/05/19 11:26	06/17/19 04:43	5
d3-NMeFOSAA	83		50 - 150	06/05/19 11:26	06/17/19 04:43	5
d5-NEtFOSAA	88		50 - 150	06/05/19 11:26	06/17/19 04:43	5
M2-6:2 FTS	156 *		25 - 150	06/05/19 11:26	06/17/19 04:43	5
M2-8:2 FTS	100		25 - 150	06/05/19 11:26	06/17/19 04:43	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		06/03/19 07:40	06/03/19 17:29	1
Antimony	ND		0.020	0.0068	mg/L		06/03/19 07:40	06/03/19 17:29	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Date Collected: 05/30/19 07:50

Matrix: Water

Date Received: 05/31/19 05:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		06/03/19 07:40	06/03/19 17:29	1
Barium	0.10		0.0020	0.00070	mg/L		06/03/19 07:40	06/03/19 17:29	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/19 07:40	06/03/19 17:29	1
Boron	0.12		0.020	0.0040	mg/L		06/03/19 07:40	06/03/19 17:29	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/19 07:40	06/03/19 17:29	1
Calcium	96.4		0.50	0.10	mg/L		06/03/19 07:40	06/03/19 17:29	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/19 07:40	06/03/19 17:29	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/19 07:40	06/03/19 17:29	1
Copper	ND		0.010	0.0016	mg/L		06/03/19 07:40	06/03/19 17:29	1
Iron	31.2		0.050	0.019	mg/L		06/03/19 07:40	06/03/19 17:29	1
Lead	ND		0.010	0.0030	mg/L		06/03/19 07:40	06/03/19 17:29	1
Magnesium	31.9		0.20	0.043	mg/L		06/03/19 07:40	06/03/19 17:29	1
Manganese	0.17		0.0030	0.00040	mg/L		06/03/19 07:40	06/03/19 17:29	1
Nickel	ND		0.010	0.0013	mg/L		06/03/19 07:40	06/03/19 17:29	1
Potassium	13.9		0.50	0.10	mg/L		06/03/19 07:40	06/03/19 17:29	1
Selenium	ND		0.025	0.0087	mg/L		06/03/19 07:40	06/03/19 17:29	1
Silver	ND		0.0060	0.0017	mg/L		06/03/19 07:40	06/03/19 17:29	1
Sodium	12.1		1.0	0.32	mg/L		06/03/19 07:40	06/03/19 17:29	1
Thallium	ND		0.020	0.010	mg/L		06/03/19 07:40	06/03/19 17:29	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/19 07:40	06/03/19 17:29	1
Zinc	ND		0.010	0.0015	mg/L		06/03/19 07:40	06/03/19 17:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		06/04/19 11:31	06/04/19 14:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	ND		1.0	0.37	mg/L			06/11/19 05:28	5
Chloride	21.1		2.5	1.4	mg/L			06/11/19 05:28	5
Sulfate	52.5		10.0	1.7	mg/L			06/11/19 05:28	5
Ammonia	5.6		0.10	0.045	mg/L			06/12/19 11:03	5
Chemical Oxygen Demand	39.3		10.0	5.0	mg/L			06/15/19 10:07	1
Total Organic Carbon	12.5		1.0	0.43	mg/L			06/27/19 08:21	1
Alkalinity, Total	320		5.0	0.79	mg/L			06/03/19 20:53	1
Total hardness as CaCO3	340		4.0	1.1	mg/L			06/17/19 18:21	1
Total Dissolved Solids	550		10.0	4.0	mg/L			06/06/19 08:46	1

Surrogate Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-154248-3	3-WES-003-001-03	105	91	96	94
480-154248-4	3-WES-003-001-04	102	92	96	93
LCS 480-476003/5	Lab Control Sample	102	94	96	94
LCS 480-476003/6	Lab Control Sample Dup	102	94	97	93
MB 480-476003/8	Method Blank	102	92	93	91

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane (Surr)
 TOL = Toluene-d8 (Surr)

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (24-136)
480-154248-4	3-WES-003-001-04	85	78	47
LCS 480-475915/2-A	Lab Control Sample	91	82	83
MB 480-475915/1-A	Method Blank	91	82	75

Surrogate Legend

FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5
 TPHd14 = p-Terphenyl-d14

Isotope Dilution Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-154248-4	3-WES-003-001-04	26
LCS 480-475648/2-A	Lab Control Sample	29
LCSD 480-475648/3-A	Lab Control Sample Dup	26
MB 480-475648/1-A	Method Blank	30

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFDA (50-150)	PFDoA (50-150)	PFHxA (50-150)	PFUnA (50-150)	PFTDA (50-150)	13C3-PFBS (50-150)	PFBA (25-150)	PFOA (50-150)
480-154248-1	3-WES-003-001-01	85	68	85	83	65	90	80	91
480-154248-2	3-WES-003-001-02	83	78	88	85	72	79	86	89
480-154248-4	3-WES-003-001-04	79	90	70	97	82	41 *	54	96
LCS 200-143772/2-A	Lab Control Sample	84	86	89	89	80	91	80	86
LCSD 200-143772/3-A	Lab Control Sample Dup	92	89	99	95	85	105	82	87
MB 200-143772/1-A	Method Blank	90	86	98	93	78	60	78	92

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOS (50-150)	PFHpA (50-150)	PFNA (50-150)	PFPeA (25-150)	PFOSA (25-150)	PFHxS (50-150)	i-NMeFOSA (50-150)	5-NEtFOSA (50-150)
480-154248-1	3-WES-003-001-01	80	84	85	98	50	94	71	80
480-154248-2	3-WES-003-001-02	72	87	85	84	66	82	71	79
480-154248-4	3-WES-003-001-04	71	87	91	71	56	147	83	88
LCS 200-143772/2-A	Lab Control Sample	80	88	84	108	66	92	77	87
LCSD 200-143772/3-A	Lab Control Sample Dup	92	94	90	106	77	87	79	90
MB 200-143772/1-A	Method Blank	80	88	89	104	71	113	82	94

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-154248-1	3-WES-003-001-01	113	89
480-154248-2	3-WES-003-001-02	122	90
480-154248-4	3-WES-003-001-04	156 *	100
LCS 200-143772/2-A	Lab Control Sample	111	97
LCSD 200-143772/3-A	Lab Control Sample Dup	127	104
MB 200-143772/1-A	Method Blank	116	107

Surrogate Legend

PFDA = 13C2 PFDA
 PFDoA = 13C2 PFDoA
 PFHxA = 13C2 PFHxA
 PFUnA = 13C2 PFUnA
 PFTDA = 13C2 PFTeDA
 13C3-PFBS = 13C3 PFBS
 PFBA = 13C4 PFBA
 PFOA = 13C4 PFOA
 PFOS = 13C4 PFOS
 PFHpA = 13C4 PFHpA

Isotope Dilution Summary

Client: Parsons Corporation

Project/Site: Westchester Garden Labriola

PFNA = 13C5 PFNA

PFPeA = 13C5 PFPeA

PFOSA = 13C8 FOSA

PFHxS = 18O2 PFHxS

d3-NMeFOSAA = d3-NMeFOSAA

d5-NEtFOSAA = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

Job ID: 480-154248-1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-476003/8

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			06/04/19 12:22	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/04/19 12:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/04/19 12:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/04/19 12:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/04/19 12:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/04/19 12:22	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			06/04/19 12:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/04/19 12:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/04/19 12:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/04/19 12:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/04/19 12:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/04/19 12:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/04/19 12:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/04/19 12:22	1
2-Hexanone	ND		5.0	1.2	ug/L			06/04/19 12:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/04/19 12:22	1
Acetone	ND		10	3.0	ug/L			06/04/19 12:22	1
Acrylonitrile	ND		5.0	0.83	ug/L			06/04/19 12:22	1
Benzene	ND		1.0	0.41	ug/L			06/04/19 12:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/04/19 12:22	1
Bromoform	ND		1.0	0.26	ug/L			06/04/19 12:22	1
Bromomethane	ND		1.0	0.69	ug/L			06/04/19 12:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/04/19 12:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/04/19 12:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/04/19 12:22	1
Chlorobromomethane	ND		1.0	0.87	ug/L			06/04/19 12:22	1
Chloroethane	ND		1.0	0.32	ug/L			06/04/19 12:22	1
Chloroform	ND		1.0	0.34	ug/L			06/04/19 12:22	1
Chloromethane	ND		1.0	0.35	ug/L			06/04/19 12:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/04/19 12:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/04/19 12:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/04/19 12:22	1
Dibromomethane	ND		1.0	0.41	ug/L			06/04/19 12:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/04/19 12:22	1
Iodomethane	ND		1.0	0.30	ug/L			06/04/19 12:22	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/04/19 12:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/04/19 12:22	1
o-Xylene	ND		1.0	0.76	ug/L			06/04/19 12:22	1
Styrene	ND		1.0	0.73	ug/L			06/04/19 12:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/04/19 12:22	1
Toluene	ND		1.0	0.51	ug/L			06/04/19 12:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/04/19 12:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/04/19 12:22	1
trans-1,4-Dichloro-2-butene	ND		1.0	0.22	ug/L			06/04/19 12:22	1
Trichloroethene	ND		1.0	0.46	ug/L			06/04/19 12:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/04/19 12:22	1
Vinyl acetate	ND		5.0	0.85	ug/L			06/04/19 12:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/04/19 12:22	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-476003/8

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			06/04/19 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/04/19 12:22	1
4-Bromofluorobenzene (Surr)	92		73 - 120		06/04/19 12:22	1
Dibromofluoromethane (Surr)	93		75 - 123		06/04/19 12:22	1
Toluene-d8 (Surr)	91		80 - 120		06/04/19 12:22	1

Lab Sample ID: LCS 480-476003/5

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	80 - 120
1,1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	21.8		ug/L		87	76 - 120
1,1,1,2-Trichloroethane	25.0	24.8		ug/L		99	76 - 122
1,1-Dichloroethane	25.0	27.2		ug/L		109	77 - 120
1,1-Dichloroethene	25.0	23.4		ug/L		94	66 - 127
1,2,3-Trichloropropane	25.0	20.7		ug/L		83	68 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.1		ug/L		84	56 - 134
1,2-Dibromoethane	25.0	23.9		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	23.9		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	27.6		ug/L		110	76 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	194 *		ug/L		155	57 - 140
2-Hexanone	125	119		ug/L		95	65 - 127
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125
Acetone	125	109		ug/L		87	56 - 142
Acrylonitrile	250	234		ug/L		94	63 - 125
Benzene	25.0	24.8		ug/L		99	71 - 124
Bromodichloromethane	25.0	25.9		ug/L		104	80 - 122
Bromoform	25.0	25.9		ug/L		103	61 - 132
Bromomethane	25.0	23.4		ug/L		94	55 - 144
Carbon disulfide	25.0	23.5		ug/L		94	59 - 134
Carbon tetrachloride	25.0	28.9		ug/L		116	72 - 134
Chlorobenzene	25.0	25.4		ug/L		101	80 - 120
Chlorobromomethane	25.0	22.8		ug/L		91	72 - 130
Chloroethane	25.0	25.9		ug/L		104	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	26.2		ug/L		105	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	74 - 124
Dibromochloromethane	25.0	28.7		ug/L		115	75 - 125
Dibromomethane	25.0	24.3		ug/L		97	76 - 127
Ethylbenzene	25.0	25.4		ug/L		101	77 - 123
Iodomethane	25.0	24.0		ug/L		96	78 - 123

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-476003/5

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m,p-Xylene	25.0	24.3		ug/L		97	76 - 122
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
o-Xylene	25.0	25.1		ug/L		100	76 - 122
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	27.1		ug/L		108	74 - 122
Toluene	25.0	25.2		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	24.5		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	25.0	23.8		ug/L		95	41 - 131
Trichloroethene	25.0	25.7		ug/L		103	74 - 123
Trichlorofluoromethane	25.0	26.0		ug/L		104	62 - 150
Vinyl acetate	50.0	64.9		ug/L		130	50 - 144
Vinyl chloride	25.0	27.4		ug/L		110	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: LCSD 480-476003/6

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/L		104	80 - 120	5	20
1,1,1-Trichloroethane	25.0	26.8		ug/L		107	73 - 126	0	15
1,1,2,2-Tetrachloroethane	25.0	21.9		ug/L		88	76 - 120	1	15
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	76 - 122	8	15
1,1-Dichloroethane	25.0	27.7		ug/L		111	77 - 120	2	20
1,1-Dichloroethene	25.0	22.7		ug/L		91	66 - 127	3	16
1,2,3-Trichloropropane	25.0	21.7		ug/L		87	68 - 122	5	14
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	56 - 134	1	15
1,2-Dibromoethane	25.0	24.0		ug/L		96	77 - 120	0	15
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 124	0	20
1,2-Dichloroethane	25.0	26.1		ug/L		104	75 - 120	3	20
1,2-Dichloropropane	25.0	27.7		ug/L		111	76 - 120	0	20
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120	2	20
2-Butanone (MEK)	125	197 *		ug/L		158	57 - 140	2	20
2-Hexanone	125	120		ug/L		96	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	71 - 125	0	35
Acetone	125	108		ug/L		86	56 - 142	1	15
Acrylonitrile	250	232		ug/L		93	63 - 125	1	20
Benzene	25.0	25.4		ug/L		101	71 - 124	2	13
Bromodichloromethane	25.0	26.3		ug/L		105	80 - 122	2	15
Bromoform	25.0	25.6		ug/L		102	61 - 132	1	15
Bromomethane	25.0	23.0		ug/L		92	55 - 144	2	15
Carbon disulfide	25.0	23.4		ug/L		93	59 - 134	0	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 480-476003/6

Matrix: Water

Analysis Batch: 476003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
		Result	Qualifier				Limits		Limit
Carbon tetrachloride	25.0	27.9		ug/L		111	72 - 134	4	15
Chlorobenzene	25.0	24.4		ug/L		97	80 - 120	4	25
Chlorobromomethane	25.0	22.6		ug/L		90	72 - 130	1	15
Chloroethane	25.0	25.7		ug/L		103	69 - 136	1	15
Chloroform	25.0	24.3		ug/L		97	73 - 127	0	20
Chloromethane	25.0	26.3		ug/L		105	68 - 124	0	15
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	74 - 124	2	15
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	74 - 124	0	15
Dibromochloromethane	25.0	27.5		ug/L		110	75 - 125	4	15
Dibromomethane	25.0	24.7		ug/L		99	76 - 127	2	15
Ethylbenzene	25.0	24.5		ug/L		98	77 - 123	4	15
Iodomethane	25.0	23.6		ug/L		94	78 - 123	2	20
m,p-Xylene	25.0	23.7		ug/L		95	76 - 122	2	16
Methylene Chloride	25.0	22.3		ug/L		89	75 - 124	1	15
o-Xylene	25.0	24.2		ug/L		97	76 - 122	4	16
Styrene	25.0	24.4		ug/L		98	80 - 120	1	20
Tetrachloroethene	25.0	26.1		ug/L		104	74 - 122	4	20
Toluene	25.0	24.3		ug/L		97	80 - 122	4	15
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	73 - 127	2	20
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	80 - 120	1	15
trans-1,4-Dichloro-2-butene	25.0	23.1		ug/L		92	41 - 131	3	20
Trichloroethene	25.0	25.4		ug/L		102	74 - 123	1	16
Trichlorofluoromethane	25.0	26.2		ug/L		105	62 - 150	1	20
Vinyl acetate	50.0	79.6 *		ug/L		159	50 - 144	20	23
Vinyl chloride	25.0	27.9		ug/L		112	65 - 133	2	15

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	94		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	93		80 - 120

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-475648/1-A

Matrix: Water

Analysis Batch: 475910

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 475648

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		0.20	0.10	ug/L		05/31/19 15:16	06/03/19 19:02	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,4-Dioxane-d8	30		15 - 110	05/31/19 15:16	06/03/19 19:02	1

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: LCS 480-475648/2-A
Matrix: Water
Analysis Batch: 475910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.14		ug/L		114	40 - 140
		LCS	LCS				
Isotope Dilution	%Recovery	Qualifier	Limits				
1,4-Dioxane-d8	29		15 - 110				

Lab Sample ID: LCSD 480-475648/3-A
Matrix: Water
Analysis Batch: 475910

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 475648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dioxane	1.00	1.14		ug/L		114	40 - 140	0	20
		LCSD	LCSD						
Isotope Dilution	%Recovery	Qualifier	Limits						
1,4-Dioxane-d8	26		15 - 110						

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 480-475915/1-A
Matrix: Water
Analysis Batch: 476874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.30	ug/L		06/03/19 15:38	06/08/19 16:04	1
Acenaphthylene	ND		0.50	0.34	ug/L		06/03/19 15:38	06/08/19 16:04	1
Anthracene	ND		0.50	0.39	ug/L		06/03/19 15:38	06/08/19 16:04	1
Benzo[a]anthracene	ND		0.50	0.40	ug/L		06/03/19 15:38	06/08/19 16:04	1
Benzo[a]pyrene	ND		0.50	0.33	ug/L		06/03/19 15:38	06/08/19 16:04	1
Benzo[b]fluoranthene	ND		0.50	0.30	ug/L		06/03/19 15:38	06/08/19 16:04	1
Benzo[g,h,i]perylene	ND		0.50	0.37	ug/L		06/03/19 15:38	06/08/19 16:04	1
Benzo[k]fluoranthene	ND		0.50	0.085	ug/L		06/03/19 15:38	06/08/19 16:04	1
Chrysene	ND		0.50	0.32	ug/L		06/03/19 15:38	06/08/19 16:04	1
Dibenz(a,h)anthracene	ND		0.50	0.33	ug/L		06/03/19 15:38	06/08/19 16:04	1
Fluoranthene	ND		0.50	0.36	ug/L		06/03/19 15:38	06/08/19 16:04	1
Fluorene	ND		0.50	0.37	ug/L		06/03/19 15:38	06/08/19 16:04	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.44	ug/L		06/03/19 15:38	06/08/19 16:04	1
Naphthalene	0.446	J	0.50	0.42	ug/L		06/03/19 15:38	06/08/19 16:04	1
Phenanthrene	0.498	J	0.50	0.38	ug/L		06/03/19 15:38	06/08/19 16:04	1
Pyrene	ND		0.50	0.36	ug/L		06/03/19 15:38	06/08/19 16:04	1
		MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
2-Fluorobiphenyl	91		48 - 120			06/03/19 15:38	06/08/19 16:04	1	
Nitrobenzene-d5	82		46 - 120			06/03/19 15:38	06/08/19 16:04	1	
p-Terphenyl-d14	75		24 - 136			06/03/19 15:38	06/08/19 16:04	1	

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 480-475915/2-A

Matrix: Water

Analysis Batch: 476874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 475915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	32.0	29.8		ug/L		93	60 - 120
Acenaphthylene	32.0	30.9		ug/L		97	63 - 120
Anthracene	32.0	31.7		ug/L		99	69 - 131
Benzo[a]anthracene	32.0	29.4		ug/L		92	62 - 142
Benzo[a]pyrene	32.0	27.5		ug/L		86	46 - 156
Benzo[b]fluoranthene	32.0	28.8		ug/L		90	50 - 149
Benzo[g,h,i]perylene	32.0	29.5		ug/L		92	34 - 189
Benzo[k]fluoranthene	32.0	29.6		ug/L		93	47 - 147
Chrysene	32.0	31.6		ug/L		99	69 - 140
Dibenz(a,h)anthracene	32.0	29.4		ug/L		92	35 - 176
Fluoranthene	32.0	31.8		ug/L		99	67 - 133
Fluorene	32.0	30.8		ug/L		96	66 - 129
Indeno[1,2,3-cd]pyrene	32.0	29.1		ug/L		91	57 - 161
Naphthalene	32.0	29.0		ug/L		91	48 - 120
Phenanthrene	32.0	31.4		ug/L		98	67 - 130
Pyrene	32.0	31.5		ug/L		98	58 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	91		48 - 120
Nitrobenzene-d5	82		46 - 120
p-Terphenyl-d14	83		24 - 136

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-143772/1-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		20	2.9	ng/L		06/05/19 11:26	06/17/19 02:04	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		20	4.6	ng/L		06/05/19 11:26	06/17/19 02:04	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		06/05/19 11:26	06/17/19 02:04	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.64	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		06/05/19 11:26	06/17/19 02:04	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-143772/1-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143772

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorooctanoic acid (PFOA)	ND		2.0	0.63	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		06/05/19 11:26	06/17/19 02:04	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.53	ng/L		06/05/19 11:26	06/17/19 02:04	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFDA	90		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C2 PFDoA	86		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C2 PFHxA	98		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C2 PFUnA	93		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C2 PFTeDA	78		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C3 PFBS	60		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C4 PFBA	78		25 - 150	06/05/19 11:26	06/17/19 02:04	1
13C4 PFOA	92		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C4 PFOS	80		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C4 PFHpA	88		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C5 PFNA	89		50 - 150	06/05/19 11:26	06/17/19 02:04	1
13C5 PFPeA	104		25 - 150	06/05/19 11:26	06/17/19 02:04	1
13C8 FOSA	71		25 - 150	06/05/19 11:26	06/17/19 02:04	1
18O2 PFHxS	113		50 - 150	06/05/19 11:26	06/17/19 02:04	1
d3-NMeFOSAA	82		50 - 150	06/05/19 11:26	06/17/19 02:04	1
d5-NEtFOSAA	94		50 - 150	06/05/19 11:26	06/17/19 02:04	1
M2-6:2 FTS	116		25 - 150	06/05/19 11:26	06/17/19 02:04	1
M2-8:2 FTS	107		25 - 150	06/05/19 11:26	06/17/19 02:04	1

Lab Sample ID: LCS 200-143772/2-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143772

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	40.5		ng/L		106	50 - 150
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	48.0		ng/L		126	50 - 150
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.1		ng/L		103	70 - 130
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	35.1		ng/L		88	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	32.5		ng/L		92	70 - 130
Perfluorobutanoic acid (PFBA)	40.0	38.1		ng/L		95	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	36.9		ng/L		96	50 - 150
Perfluorodecanoic acid (PFDA)	40.0	42.9		ng/L		107	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	39.6		ng/L		99	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.4		ng/L		111	50 - 150
Perfluoroheptanoic acid (PFHpA)	40.0	40.4		ng/L		101	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-143772/2-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.3		ng/L		97	70 - 130
Perfluorohexanoic acid (PFHxA)	40.0	40.1		ng/L		100	70 - 130
Perfluorononanoic acid (PFNA)	40.0	41.5		ng/L		104	70 - 130
Perfluorooctanesulfonamide (PFOSA)	40.0	42.7		ng/L		107	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	39.7		ng/L		107	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	43.8		ng/L		109	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	32.4		ng/L		81	50 - 150
Perfluorotetradecanoic acid (PFTeA)	40.0	41.1		ng/L		103	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	39.0		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	40.3		ng/L		101	70 - 130

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C2 PFDA	84		50 - 150
13C2 PFDoA	86		50 - 150
13C2 PFHxA	89		50 - 150
13C2 PFUnA	89		50 - 150
13C2 PFTeDA	80		50 - 150
13C3 PFBS	91		50 - 150
13C4 PFBA	80		25 - 150
13C4 PFOA	86		50 - 150
13C4 PFOS	80		50 - 150
13C4 PFHpA	88		50 - 150
13C5 PFNA	84		50 - 150
13C5 PFPeA	108		25 - 150
13C8 FOSA	66		25 - 150
18O2 PFHxS	92		50 - 150
d3-NMeFOSAA	77		50 - 150
d5-NEtFOSAA	87		50 - 150
M2-6:2 FTS	111		25 - 150
M2-8:2 FTS	97		25 - 150

Lab Sample ID: LCSD 200-143772/3-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143772

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	34.0		ng/L		89	50 - 150	17	30
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	37.9		ng/L		100	50 - 150	23	30
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	40.0	40.8		ng/L		102	70 - 130	1	20
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	40.0	38.2		ng/L		95	70 - 130	8	20
Perfluorobutanesulfonic acid (PFBS)	35.4	36.2		ng/L		102	70 - 130	11	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 200-143772/3-A

Matrix: Water

Analysis Batch: 144109

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143772

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	40.0	38.8		ng/L		97	50 - 150	2	30
Perfluorodecanesulfonic acid (PFDS)	38.6	33.9		ng/L		88	50 - 150	9	30
Perfluorodecanoic acid (PFDA)	40.0	40.1		ng/L		100	70 - 130	7	20
Perfluorododecanoic acid (PFDoA)	40.0	41.2		ng/L		103	70 - 130	4	20
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.2		ng/L		100	50 - 150	10	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.5		ng/L		101	70 - 130	0	20
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.5		ng/L		95	70 - 130	2	20
Perfluorohexanoic acid (PFHxA)	40.0	38.5		ng/L		96	70 - 130	4	20
Perfluorononanoic acid (PFNA)	40.0	41.0		ng/L		103	70 - 130	1	20
Perfluorooctanesulfonamide (PFOSA)	40.0	41.6		ng/L		104	50 - 150	3	30
Perfluorooctanesulfonic acid (PFOS)	37.1	35.3		ng/L		95	70 - 130	12	20
Perfluorooctanoic acid (PFOA)	40.0	43.9		ng/L		110	70 - 130	0	20
Perfluoropentanoic acid (PFPeA)	40.0	39.9		ng/L		100	50 - 150	21	30
Perfluorotetradecanoic acid (PFTeA)	40.0	40.9		ng/L		102	70 - 130	0	20
Perfluorotridecanoic acid (PFTriA)	40.0	39.6		ng/L		99	70 - 130	1	20
Perfluoroundecanoic acid (PFUnA)	40.0	41.9		ng/L		105	70 - 130	4	20

Isotope Dilution	LCSD	LCSD	Limits
	%Recovery	Qualifier	
13C2 PFDA	92		50 - 150
13C2 PFDoA	89		50 - 150
13C2 PFHxA	99		50 - 150
13C2 PFUnA	95		50 - 150
13C2 PFTeDA	85		50 - 150
13C3 PFBS	105		50 - 150
13C4 PFBA	82		25 - 150
13C4 PFOA	87		50 - 150
13C4 PFOS	92		50 - 150
13C4 PFHpA	94		50 - 150
13C5 PFNA	90		50 - 150
13C5 PFPeA	106		25 - 150
13C8 FOSA	77		25 - 150
18O2 PFHxS	87		50 - 150
d3-NMeFOSAA	79		50 - 150
d5-NEtFOSAA	90		50 - 150
M2-6:2 FTS	127		25 - 150
M2-8:2 FTS	104		25 - 150

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-475614/1-A
Matrix: Water
Analysis Batch: 476033

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 475614

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	ND		0.20	0.060	mg/L		06/03/19 07:40	06/03/19 16:12	1
Antimony	ND		0.020	0.0068	mg/L		06/03/19 07:40	06/03/19 16:12	1
Arsenic	ND		0.015	0.0056	mg/L		06/03/19 07:40	06/03/19 16:12	1
Barium	ND		0.0020	0.00070	mg/L		06/03/19 07:40	06/03/19 16:12	1
Beryllium	ND		0.0020	0.00030	mg/L		06/03/19 07:40	06/03/19 16:12	1
Boron	ND		0.020	0.0040	mg/L		06/03/19 07:40	06/03/19 16:12	1
Cadmium	ND		0.0020	0.00050	mg/L		06/03/19 07:40	06/03/19 16:12	1
Calcium	ND		0.50	0.10	mg/L		06/03/19 07:40	06/03/19 16:12	1
Chromium	ND		0.0040	0.0010	mg/L		06/03/19 07:40	06/03/19 16:12	1
Cobalt	ND		0.0040	0.00063	mg/L		06/03/19 07:40	06/03/19 16:12	1
Copper	ND		0.010	0.0016	mg/L		06/03/19 07:40	06/03/19 16:12	1
Iron	ND		0.050	0.019	mg/L		06/03/19 07:40	06/03/19 16:12	1
Lead	ND		0.010	0.0030	mg/L		06/03/19 07:40	06/03/19 16:12	1
Magnesium	ND		0.20	0.043	mg/L		06/03/19 07:40	06/03/19 16:12	1
Manganese	ND		0.0030	0.00040	mg/L		06/03/19 07:40	06/03/19 16:12	1
Nickel	ND		0.010	0.0013	mg/L		06/03/19 07:40	06/03/19 16:12	1
Potassium	ND		0.50	0.10	mg/L		06/03/19 07:40	06/03/19 16:12	1
Selenium	ND		0.025	0.0087	mg/L		06/03/19 07:40	06/03/19 16:12	1
Silver	ND		0.0060	0.0017	mg/L		06/03/19 07:40	06/03/19 16:12	1
Sodium	ND		1.0	0.32	mg/L		06/03/19 07:40	06/03/19 16:12	1
Thallium	ND		0.020	0.010	mg/L		06/03/19 07:40	06/03/19 16:12	1
Vanadium	ND		0.0050	0.0015	mg/L		06/03/19 07:40	06/03/19 16:12	1
Zinc	ND		0.010	0.0015	mg/L		06/03/19 07:40	06/03/19 16:12	1

Lab Sample ID: LCS 480-475614/2-A
Matrix: Water
Analysis Batch: 476033

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 475614

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Aluminum	10.0	9.71		mg/L		97	80 - 120
Antimony	0.200	0.216		mg/L		108	80 - 120
Arsenic	0.200	0.196		mg/L		98	80 - 120
Barium	0.200	0.201		mg/L		100	80 - 120
Beryllium	0.200	0.202		mg/L		101	80 - 120
Boron	0.200	0.205		mg/L		103	80 - 120
Cadmium	0.200	0.199		mg/L		100	80 - 120
Calcium	10.0	9.61		mg/L		96	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.200	0.187		mg/L		93	80 - 120
Copper	0.200	0.190		mg/L		95	80 - 120
Iron	10.0	9.60		mg/L		96	80 - 120
Lead	0.200	0.190		mg/L		95	80 - 120
Magnesium	10.0	9.63		mg/L		96	80 - 120
Manganese	0.200	0.193		mg/L		97	80 - 120
Nickel	0.200	0.193		mg/L		96	80 - 120
Potassium	10.0	9.39		mg/L		94	80 - 120
Selenium	0.200	0.186		mg/L		93	80 - 120
Silver	0.0500	0.0475		mg/L		95	80 - 120
Sodium	10.0	9.29		mg/L		93	80 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-475614/2-A

Matrix: Water

Analysis Batch: 476033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 475614

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Thallium	0.200	0.193		mg/L		96	80 - 120
Vanadium	0.200	0.192		mg/L		96	80 - 120
Zinc	0.200	0.194		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-476061/1-A

Matrix: Water

Analysis Batch: 476143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 476061

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	ND		0.00020	0.00012	mg/L		06/04/19 11:31	06/04/19 14:14	1

Lab Sample ID: LCS 480-476061/2-A

Matrix: Water

Analysis Batch: 476143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 476061

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	0.00667	0.00707		mg/L		106	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-477064/4

Matrix: Water

Analysis Batch: 477064

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromide	ND		0.20	0.073	mg/L			06/11/19 00:51	1
Chloride	ND		0.50	0.28	mg/L			06/11/19 00:51	1
Sulfate	ND		2.0	0.35	mg/L			06/11/19 00:51	1

Lab Sample ID: LCS 480-477064/3

Matrix: Water

Analysis Batch: 477064

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Bromide	5.00	5.16		mg/L		103	90 - 110
Chloride	50.0	52.50		mg/L		105	90 - 110
Sulfate	50.0	48.54		mg/L		97	90 - 110

Lab Sample ID: 480-154248-4 MS

Matrix: Water

Analysis Batch: 477064

Client Sample ID: 3-WES-003-001-04

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Bromide	ND		25.0	26.93		mg/L		108	80 - 120
Chloride	21.1		250	302.8		mg/L		113	81 - 120
Sulfate	52.5		250	315.4		mg/L		105	80 - 120

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-477411/123
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/12/19 10:32	1

Lab Sample ID: MB 480-477411/147
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/12/19 10:52	1

Lab Sample ID: MB 480-477411/75
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.020	0.0090	mg/L			06/12/19 09:51	1

Lab Sample ID: LCS 480-477411/124
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: LCS 480-477411/148
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: LCS 480-477411/76
 Matrix: Water
 Analysis Batch: 477411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.02		mg/L		102	90 - 110

Method: 410.4 - COD

Lab Sample ID: MB 480-477981/51
 Matrix: Water
 Analysis Batch: 477981

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		10.0	5.0	mg/L			06/15/19 10:07	1

QC Sample Results

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: 410.4 - COD (Continued)

Lab Sample ID: LCS 480-477981/52
Matrix: Water
Analysis Batch: 477981

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	25.0	27.43		mg/L		110	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-480118/30
Matrix: Water
Analysis Batch: 480118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			06/27/19 04:45	1

Lab Sample ID: LCS 480-480118/31
Matrix: Water
Analysis Batch: 480118

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	60.63		mg/L		101	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-476078/54
Matrix: Water
Analysis Batch: 476078

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			06/03/19 17:28	1

Lab Sample ID: MB 480-476078/78
Matrix: Water
Analysis Batch: 476078

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			06/03/19 20:19	1

Lab Sample ID: LCS 480-476078/55
Matrix: Water
Analysis Batch: 476078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	96.17		mg/L		96	90 - 110

Lab Sample ID: LCS 480-476078/79
Matrix: Water
Analysis Batch: 476078

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	96.28		mg/L		96	90 - 110

QC Sample Results

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method: SM 2340C - Hardness, Total (mg/l as CaCO3)

Lab Sample ID: MB 480-478208/3
 Matrix: Water
 Analysis Batch: 478208

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total hardness as CaCO3	ND		2.0	0.53	mg/L			06/17/19 18:21	1

Lab Sample ID: LCS 480-478208/4
 Matrix: Water
 Analysis Batch: 478208

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total hardness as CaCO3	272	268.0		mg/L		99	90 - 110

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 480-476467/1
 Matrix: Water
 Analysis Batch: 476467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			06/06/19 08:46	1

Lab Sample ID: LCS 480-476467/2
 Matrix: Water
 Analysis Batch: 476467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	505.0		mg/L		101	85 - 115

QC Association Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

GC/MS VOA

Analysis Batch: 476003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-3	3-WES-003-001-03	Total/NA	Water	8260C	
480-154248-4	3-WES-003-001-04	Total/NA	Water	8260C	
MB 480-476003/8	Method Blank	Total/NA	Water	8260C	
LCS 480-476003/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-476003/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 475648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	3510C	
MB 480-475648/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-475648/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-475648/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 475910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	8270D SIM ID	475648
MB 480-475648/1-A	Method Blank	Total/NA	Water	8270D SIM ID	475648
LCS 480-475648/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	475648
LCSD 480-475648/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	475648

Prep Batch: 475915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	3510C	
MB 480-475915/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-475915/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 476874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	8270D_LL_PAH	475915
MB 480-475915/1-A	Method Blank	Total/NA	Water	8270D_LL_PAH	475915
LCS 480-475915/2-A	Lab Control Sample	Total/NA	Water	8270D_LL_PAH	475915

LCMS

Prep Batch: 143772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-1	3-WES-003-001-01	Total/NA	Water	3535	
480-154248-2	3-WES-003-001-02	Total/NA	Water	3535	
480-154248-4	3-WES-003-001-04	Total/NA	Water	3535	
MB 200-143772/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-143772/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-143772/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 144109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-1	3-WES-003-001-01	Total/NA	Water	537 (modified)	143772
480-154248-2	3-WES-003-001-02	Total/NA	Water	537 (modified)	143772
480-154248-4	3-WES-003-001-04	Total/NA	Water	537 (modified)	143772
MB 200-143772/1-A	Method Blank	Total/NA	Water	537 (modified)	143772
LCS 200-143772/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	143772

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

LCMS (Continued)

Analysis Batch: 144109 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 200-143772/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	143772

Metals

Prep Batch: 475614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	3005A	
MB 480-475614/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-475614/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 476033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	6010C	475614
MB 480-475614/1-A	Method Blank	Total/NA	Water	6010C	475614
LCS 480-475614/2-A	Lab Control Sample	Total/NA	Water	6010C	475614

Prep Batch: 476061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	7470A	
MB 480-476061/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-476061/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 476143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	7470A	476061
MB 480-476061/1-A	Method Blank	Total/NA	Water	7470A	476061
LCS 480-476061/2-A	Lab Control Sample	Total/NA	Water	7470A	476061

General Chemistry

Analysis Batch: 476078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	SM 2320B	
MB 480-476078/54	Method Blank	Total/NA	Water	SM 2320B	
MB 480-476078/78	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-476078/55	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-476078/79	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 476467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	SM 2540C	
MB 480-476467/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-476467/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 477064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	300.0	
MB 480-477064/4	Method Blank	Total/NA	Water	300.0	
LCS 480-477064/3	Lab Control Sample	Total/NA	Water	300.0	
480-154248-4 MS	3-WES-003-001-04	Total/NA	Water	300.0	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

General Chemistry

Analysis Batch: 477411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	350.1	
MB 480-477411/123	Method Blank	Total/NA	Water	350.1	
MB 480-477411/147	Method Blank	Total/NA	Water	350.1	
MB 480-477411/75	Method Blank	Total/NA	Water	350.1	
LCS 480-477411/124	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477411/148	Lab Control Sample	Total/NA	Water	350.1	
LCS 480-477411/76	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 477981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	410.4	
MB 480-477981/51	Method Blank	Total/NA	Water	410.4	
LCS 480-477981/52	Lab Control Sample	Total/NA	Water	410.4	

Analysis Batch: 478208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	SM 2340C	
MB 480-478208/3	Method Blank	Total/NA	Water	SM 2340C	
LCS 480-478208/4	Lab Control Sample	Total/NA	Water	SM 2340C	

Analysis Batch: 480118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-154248-4	3-WES-003-001-04	Total/NA	Water	9060A	
MB 480-480118/30	Method Blank	Total/NA	Water	9060A	
LCS 480-480118/31	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Client Sample ID: 3-WES-003-001-01

Lab Sample ID: 480-154248-1

Date Collected: 05/30/19 07:15

Matrix: Water

Date Received: 05/31/19 05:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			143772	06/05/19 11:26	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	144109	06/17/19 04:11	BWC	TAL BUR

Client Sample ID: 3-WES-003-001-02

Lab Sample ID: 480-154248-2

Date Collected: 05/30/19 07:20

Matrix: Water

Date Received: 05/31/19 05:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			143772	06/05/19 11:26	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	144109	06/17/19 04:27	BWC	TAL BUR

Client Sample ID: 3-WES-003-001-03

Lab Sample ID: 480-154248-3

Date Collected: 05/30/19 07:25

Matrix: Water

Date Received: 05/31/19 05:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476003	06/04/19 14:30	KMN	TAL BUF

Client Sample ID: 3-WES-003-001-04

Lab Sample ID: 480-154248-4

Date Collected: 05/30/19 07:50

Matrix: Water

Date Received: 05/31/19 05:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	476003	06/04/19 14:55	KMN	TAL BUF
Total/NA	Prep	3510C			475648	05/31/19 15:16	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	475910	06/03/19 20:41	RJS	TAL BUF
Total/NA	Prep	3510C			475915	06/03/19 15:38	ATG	TAL BUF
Total/NA	Analysis	8270D_LL_PAH		1	476874	06/08/19 18:22	RJS	TAL BUF
Total/NA	Prep	3535			143772	06/05/19 11:26	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		5	144109	06/17/19 04:43	BWC	TAL BUR
Total/NA	Prep	3005A			475614	06/03/19 07:40	EMB	TAL BUF
Total/NA	Analysis	6010C		1	476033	06/03/19 17:29	LMH	TAL BUF
Total/NA	Prep	7470A			476061	06/04/19 11:31	BMB	TAL BUF
Total/NA	Analysis	7470A		1	476143	06/04/19 14:36	BMB	TAL BUF
Total/NA	Analysis	300.0		5	477064	06/11/19 05:28	RJS	TAL BUF
Total/NA	Analysis	350.1		5	477411	06/12/19 11:03	CLT	TAL BUF
Total/NA	Analysis	410.4		1	477981	06/15/19 10:07	EAG	TAL BUF
Total/NA	Analysis	9060A		1	480118	06/27/19 08:21	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	476078	06/03/19 20:53	KMF	TAL BUF
Total/NA	Analysis	SM 2340C		1	478208	06/17/19 18:21	AJL	TAL BUF
Total/NA	Analysis	SM 2540C		1	476467	06/06/19 08:46	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Eurofins TestAmerica, Buffalo

Accreditation/Certification Summary

Client: Parsons Corporation
 Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP		L2336	02-25-20
ANAB	DoD		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-20
Florida	NELAP	4	E87467	06-30-19 *
Minnesota	NELAP	5	050-999-436	12-31-19
New Hampshire	NELAP	1	2006	12-18-19
New Jersey	NELAP	2	VT972	06-30-19 *
New York	NELAP	2	10391	04-01-20
Pennsylvania	NELAP	3	68-00489	04-30-20
Pennsylvania	NELAP		68-00489	04-30-20
Rhode Island	State Program	1	LAO00298	12-30-19
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-19
Virginia	NELAP	3	460209	12-14-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Method Summary

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
8270D_LL_PAH	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
410.4	COD	MCAWW	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaCO ₃)	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

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"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Parsons Corporation
Project/Site: Westchester Garden Labriola

Job ID: 480-154248-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-154248-1	3-WES-003-001-01	Water	05/30/19 07:15	05/31/19 05:00	
480-154248-2	3-WES-003-001-02	Water	05/30/19 07:20	05/31/19 05:00	
480-154248-3	3-WES-003-001-03	Water	05/30/19 07:25	05/31/19 05:00	
480-154248-4	3-WES-003-001-04	Water	05/30/19 07:50	05/31/19 05:00	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

20279
 PFCS → BVT FROM SYR. - RC

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information				Section B Client Information				COC #: 3-WES-003 - 001								
Lab Name: TestAmerica				Company: Parsons				Project Name: ILI - Region 3								
Attention: Melissa Deyo				Attention: Sara Weishaupt				Project Site: Westchester Garden/Labriola								
Address: 10 Hazelwood Drive Amherst, NY 14228-2298				Address: 301 Plainfield Road, Suite 350 Syracuse, NY 13212				Project Number: 450619								
Phone: (716) 504-9874				Phone: 315-552-9681				Preservative codes (for water only):								
Email: Melissa.Deyo@testamericainc.com				Email: Sara.Weishaupt@parsons.com				0 1 0 0 2 2 3 1 0 0								
Section C Deliverable Requirements				Purchase Order No:												
Report To: Sara.Weishaupt@parsons.com				TAT - 10 Day												
Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com				Section D Additional Information												
Maryanne.Kosciwicz@parsons.com; Heather.Fettig@parsons.com																
Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD																
Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Purpose	Sample Matrix	Sample Type	# of Cont.	MS/MSD	#Bottles					
1 Field QC	-	-	3-WES-003-001-01	5/30/19	0715	WQ	QC	FB	2		1	Alkalinity SM20 2320B	1			
2 Field QC	-	-	3-WES-003-001-02	5/30/19	0720	WQ	QC	FB	2		1	TDS SM2540D	1			
3 Field QC	-	-	3-WES-003-001-03	5/30/19	0725	WQ	QC	TB	1		1	SO4/CHL/BRO 300.0	1			
4 3-WES-003-mw-3	7.03	10.50	3-WES-003-001-04	5/30/19	0750	GW	GW	N	17		1	TOC 9060A	2			
5											1	Ammonia/COD 350.1/410.4	1			
6											1	Hard-SM20 2340C	1			
7											1	Mod Bsn Met/Hg 6010/7470	1			
8											2	1, 4 - Dioxane 82705JM	2			
9											2	PAHs 82705JM	2			
10											2	Modified Baseline VOCs 8260	2			
											2	PFAS Modified 537	2			
											2	Composite (Y/N)	2			

Syracuse
 #225



Special Instructions:

Samplers Name: Casey Fetsko		Company: PARSONS		Relinquished By: Sara Weishaupt		Company: Parsons		Cooler Temp.:	
Shipment Method:		Date/Time: 5/30/19 0900		Date/Time: 5/30/19 1445		Date/Time: 5/30/19 1445		Rec'd on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Shipment Tracking No.:		Company: Parsons		Company: Parsons		Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Date/Time:		Date/Time:		Date/Time:		Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
								Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
								Custody Seals Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	
								Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>	

Relinquished: RC 2/15/19, TA 1/4, 5-30-19, 19:00. Received 05/31/19 05:00

3.0 #1

PFCS → BVT FROM SYR. - RE

CHAIN-OF-CUSTODY / Analytical Request Document

Section A Laboratory Information

Lab Name: TestAmerica
 Attention: Melissa Deyo
 Address: 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone: (716) 504-9874
 Email: Melissa.Deyo@testamericainc.com

Section B Client Information

Company: Parsons
 Attention: Sara Weishaupt
 Address: 301 Plainfield Road, Suite 350
 Syracuse, NY 13212
 Phone: 315-552-9681
 Email: Sara.Weishaupt@parsons.com

Section C Deliverable Requirements

Report To: Sara.Weishaupt@parsons.com
 Copy To: Lorraine.Weber@parsons.com; Laura.Drachenberg@parsons.com
 Maryanne.Kosciewicz@parsons.com; Heather.Fettig@parsons.com

Deliverables: Level 2, CAT B Report, NYSDEC EQUIS EDD

Section D Additional Information

Purchase Order No: TAT - 10 Day

Project Number:	450619
MS/MSD #bottles	0 1 0 0 2 2 3 1 0 0 0

Composite (Y/N)	
PFAS Modified 537	2
Modified Baseline VOCs 8260	3
PAHs 8270SIM	2
1, 4 - Dioxane 8270SIM	2
Mod Bsn Met/Hg 6010/7470	1
Hard-SM20 2340C	1
Ammonia/COD 350.1/410.4	1
TOC 9060A	2
SO4/CHL/BRO 300.0	1
TDS SM2540D	1
Alkalinity SM20 2320B	1

Location ID	Start Depth (ft)	End Depth (ft)	Field Sample ID MUST BE UNIQUE	Sample Date	Sample Time	Sample Purpose	Sample Matrix	Sample Type	# of Cont.
1 Field QC	-	-	3-WES-003-001-01	5/30/19	0715	WQ	QC	FB	2
2 Field QC	-	-	3-WES-003-001-02	5/30/19	0720	WQ	QC	FB	2
3 Field QC	-	-	3-WES-003-001-03	5/30/19	0725	WQ	QC	TB	1
4 3-WES-003-mw-3	7.03	10.50	3-WES-003-001-04	5/30/19	0750	GW	GW	N	17
5									
6									
7									
8									
9									
10									

Syracuse
#225



480-154248 Chain of Custody

Special Instructions:

Sample Name: Casey Fetsko	Company: Parsons	Relinquished By: [Signature]	Cooler Temp: Yes <input type="checkbox"/> No <input type="checkbox"/>
Shipment Method: [Signature]	Date/Time: 5/30/19 0900	Accepted By: [Signature]	Rec'd on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>
Shipment Tracking No: [Signature]	Shipment Tracking No: [Signature]	Company: [Signature]	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>
Date/Time: [Signature]	Date/Time: 5/30/19 1415	Company: [Signature]	Cooler Temp: Yes <input type="checkbox"/> No <input type="checkbox"/>
Preservatives: 0 = None; [1 = HCL]; [2 = HNO3]; [3 = H2SO4]; [4 = NaOH]; [5 = Zn Acetate]; [6 = MeOH]; [7 = MeOH]; [8 = Other (RSP04)]	Company: [Signature]	Relinquished By: [Signature]	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>
	Date/Time: 5/30/19 1415	Accepted By: [Signature]	Cooler Temp: Yes <input type="checkbox"/> No <input type="checkbox"/>
	Shipment Tracking No: [Signature]	Company: [Signature]	Rec'd on Ice: Yes <input type="checkbox"/> No <input type="checkbox"/>
	Date/Time: [Signature]	Company: [Signature]	Samples Intact: Yes <input type="checkbox"/> No <input type="checkbox"/>

Relinquish: RE 15/15h, TA 19h, 5:30-19, 19:00. Rec'd by: Taylor John TABUN 5/31/19 1020

ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
TESTAMERICA
118 BOSS RD

SHIP DATE: 30MAY19
ACTWGT: 13.00 LB MAN
CAD: 251798/CAFE3211

SYRACUSE, NY 13211
UNITED STATES US

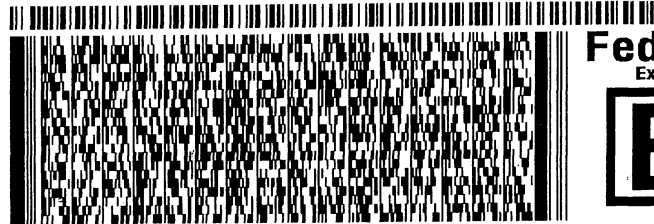
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE SUITE 11

SOUTH BURLINGTON VT 05403

(802) 680-1990

REF: PARSONS WESTCHESTER 1COOLER



FedEx
Express

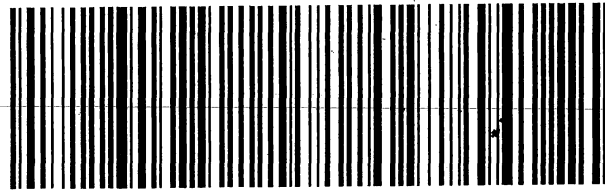


TRK# 4651 0843 8132
0201

FRI - 31 MAY 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US **BTV**



Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-154248-1

Login Number: 154248

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Velickovic, Zoran

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Parsons
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 480-154248-1

Login Number: 154248

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 06/01/19 02:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	0.4°C
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	CF
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	