



Groundwater & Environmental Services, Inc.  
415 Lawrence Bell Drive, Suite 6  
Williamsville, NY 14221  
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December 7, 2021

Mr. Paul Morrow  
Town of Tonawanda Water Resources Division – Pretreatment Division  
Wastewater Treatment Division  
779 Two Mile Creek Road  
Tonawanda, New York 14150  
Submitted US Mail and via email to: [pmorrow@tonawanda.ny.us](mailto:pmorrow@tonawanda.ny.us)

**Re: Cherry Farm/River Road Groundwater Treatment Facility  
Industrial Sewer Connection Permit #613  
November 2021 Self-Monitoring Report**

Dear Mr. Morrow:

Please find the self-monitoring report for the Subject timeframe. The total plant flow during November 2021, including all potable water consumption other than the hand usage, was approximately 332,559 gallons. Water consumption by the hand sink is estimated at less than 300-gallons per month. Total plant flow is measured by an ISCO Ultrasonic Flow Meter, using the 22.5-degree V-notch weir in the equalization tank as the primary flow element. The effluent pH during the same period was recorded nine (9) times with an average value of 7.34.

Enclosed, please see the analytical report from Eurofins for the November monthly and semi-annual sampling results. The routine monthly analysis collected on November 4, 2021 included PCBs and Oil & Grease from Influent and PCBs, pH, and total petroleum hydrocarbons (TPH) from ML-2. The semi-annual analyses include biological oxygen demand (BOD), total suspended solids (TSS), total phosphorus, total arsenic, and total cyanide from ML-2. Analytical results indicate that the system is operating/discharging within permitted limits.

If you should have any questions or require additional information, please contact the undersigned. *I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violation.*

Signed and submitted: \_\_\_\_\_, Thomas D Palmer, Sr. Project Manager, on this date.

Enclosure: (1) Analytical Report 480-191957-1



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## ANALYTICAL REPORT

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Amherst, NY 14228-2298  
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Laboratory Job ID: 480-191957-1

Client Project/Site: Cherry Farms Semi-Annual Treatment

For:

Groundwater & Environmental Services Inc  
415 Lawrence Bell Drive  
Suite 6  
Williamsville, New York 14221

Attn: Thomas Palmer



Authorized for release by:  
11/19/2021 3:09:28 PM

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### LINKS

Review your project  
results through  
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Have a Question?



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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.*



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# Definitions/Glossary

Client: Groundwater & Environmental Services Inc  
Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## Qualifiers

### GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

### General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Case Narrative

Client: Groundwater & Environmental Services Inc  
Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

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## Job ID: 480-191957-1

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Laboratory: Eurofins TestAmerica, Buffalo

### Narrative

#### Job Narrative 480-191957-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/4/2021 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.6° C and 7.1° C.

#### GC Semi VOA

Method 608.3: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-191957-2). 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.

#### Metals

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

#### General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: ML-2 (480-191957-1).

Method SM 2540D: The following sample was analyzed outside of analytical holding time due to lab error ML-2 (480-191957-1).

No additional analytical or quality issues were noted, other than those described above or 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: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## Client Sample ID: ML-2

## Lab Sample ID: 480-191957-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Petroleum Hydrocarbons (1664A)	2.4	J	5.6	2.2	mg/L	1		1664B	Total/NA
Cyanide, Total	0.041		0.010	0.0040	mg/L	1		335.4	Total/NA
pH	6.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Temperature	17.7	HF	0.001	0.001	Degrees C	1		SM 4500 H+ B	Total/NA
Phosphorus	0.037		0.010	0.0050	mg/L	1		SM 4500 P E	Total/NA

## Client Sample ID: INFLUENT

## Lab Sample ID: 480-191957-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1232	4.1		0.31	0.20	ug/L	5		608.3	Total/NA
Oil & Grease	2.1	J B	5.1	1.4	mg/L	1		1664B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo



# Client Sample Results

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

**Client Sample ID: ML-2**

**Lab Sample ID: 480-191957-1**

Date Collected: 11/04/21 12:50

Matrix: Water

Date Received: 11/04/21 16:00

**Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.057	0.036	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1221	ND		0.057	0.036	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1232	ND		0.057	0.036	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1242	ND		0.057	0.036	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1248	ND		0.057	0.036	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1254	ND		0.057	0.030	ug/L		11/11/21 09:41	11/11/21 19:55	1
PCB-1260	ND		0.057	0.030	ug/L		11/11/21 09:41	11/11/21 19:55	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	69		36 - 121				11/11/21 09:41	11/11/21 19:55	1
Tetrachloro-m-xylene	86		42 - 135				11/11/21 09:41	11/11/21 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015	0.0056	mg/L		11/10/21 09:19	11/13/21 21:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Petroleum Hydrocarbons (1664A)</b>	<b>2.4</b>	<b>J</b>	5.6	2.2	mg/L		11/18/21 09:21	11/18/21 10:38	1
<b>Cyanide, Total</b>	<b>0.041</b>		0.010	0.0040	mg/L		11/18/21 12:46	11/18/21 16:15	1
<b>Phosphorus</b>	<b>0.037</b>		0.010	0.0050	mg/L			11/11/21 14:10	1
Biochemical Oxygen Demand	ND		6.0	6.0	mg/L			11/05/21 18:54	1
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>RL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Total Suspended Solids	ND	H	4.0	4.0	mg/L			11/13/21 20:10	1
<b>pH</b>	<b>6.5</b>	<b>HF</b>	0.1	0.1	SU			11/09/21 11:35	1
<b>Temperature</b>	<b>17.7</b>	<b>HF</b>	0.001	0.001	Degrees C			11/09/21 11:35	1

**Client Sample ID: INFLUENT**

**Lab Sample ID: 480-191957-2**

Date Collected: 11/04/21 13:10

Matrix: Water

Date Received: 11/04/21 16:00

**Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.31	0.20	ug/L		11/11/21 09:41	11/14/21 19:28	5
PCB-1221	ND		0.31	0.20	ug/L		11/11/21 09:41	11/14/21 19:28	5
<b>PCB-1232</b>	<b>4.1</b>		0.31	0.20	ug/L		11/11/21 09:41	11/14/21 19:28	5
PCB-1242	ND		0.31	0.20	ug/L		11/11/21 09:41	11/14/21 19:28	5
PCB-1248	ND		0.31	0.20	ug/L		11/11/21 09:41	11/14/21 19:28	5
PCB-1254	ND		0.31	0.16	ug/L		11/11/21 09:41	11/14/21 19:28	5
PCB-1260	ND		0.31	0.16	ug/L		11/11/21 09:41	11/14/21 19:28	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	44	p	36 - 121				11/11/21 09:41	11/14/21 19:28	5
Tetrachloro-m-xylene	65		42 - 135				11/11/21 09:41	11/14/21 19:28	5

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Oil &amp; Grease</b>	<b>2.1</b>	<b>J B</b>	5.1	1.4	mg/L		11/18/21 09:21	11/18/21 10:38	1

# Surrogate Summary

Client: Groundwater & Environmental Services Inc  
Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (36-121)	TCX1 (42-135)
480-191957-1	ML-2	69	86
480-191957-2	INFLUENT	44 p	65
LCS 480-604413/2-A	Lab Control Sample	57	70
MB 480-604413/1-A	Method Blank	60	81

#### Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

# QC Sample Results

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-604413/1-A  
 Matrix: Water  
 Analysis Batch: 604529

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 604413

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.060	0.038	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1221	ND		0.060	0.038	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1232	ND		0.060	0.038	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1242	ND		0.060	0.038	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1248	ND		0.060	0.038	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1254	ND		0.060	0.031	ug/L		11/11/21 09:41	11/11/21 17:09	1
PCB-1260	ND		0.060	0.031	ug/L		11/11/21 09:41	11/11/21 17:09	1

  

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	60		36 - 121	11/11/21 09:41	11/11/21 17:09	1
Tetrachloro-m-xylene	81		42 - 135	11/11/21 09:41	11/11/21 17:09	1

Lab Sample ID: LCS 480-604413/2-A  
 Matrix: Water  
 Analysis Batch: 604529

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 604413

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	1.00	0.948		ug/L		95	69 - 123
PCB-1260	1.00	0.942		ug/L		94	69 - 120

  

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	57		36 - 121
Tetrachloro-m-xylene	70		42 - 135

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

Lab Sample ID: MB 480-604115/1-A  
 Matrix: Water  
 Analysis Batch: 604952

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 604115

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.015	0.0056	mg/L		11/10/21 09:19	11/13/21 20:53	1

Lab Sample ID: LCS 480-604115/2-A  
 Matrix: Water  
 Analysis Batch: 604952

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 604115

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	0.200	0.205		mg/L		103	85 - 115

Lab Sample ID: 480-191957-1 MS  
 Matrix: Water  
 Analysis Batch: 604952

Client Sample ID: ML-2  
 Prep Type: Total/NA  
 Prep Batch: 604115

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	ND		0.200	0.222		mg/L		111	70 - 130

# QC Sample Results

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

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

Lab Sample ID: 480-191957-1 MSD  
 Matrix: Water  
 Analysis Batch: 604952

Client Sample ID: ML-2  
 Prep Type: Total/NA  
 Prep Batch: 604115

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.216		mg/L		108	70 - 130	3	20

## Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 480-605531/1-A  
 Matrix: Water  
 Analysis Batch: 605582

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 605531

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	2.30	J	5.0	1.4	mg/L		11/18/21 09:21	11/18/21 10:38	1
Total Petroleum Hydrocarbons (1664A)	ND		5.0	1.9	mg/L		11/18/21 09:21	11/18/21 10:38	1

Lab Sample ID: LCS 480-605531/2-A  
 Matrix: Water  
 Analysis Batch: 605582

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 605531

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	35.10		mg/L		88	78 - 114
Total Petroleum Hydrocarbons (1664A)	20.0	14.70		mg/L		74	64 - 132

## Method: 335.4 - Cyanide, Total

Lab Sample ID: MRL 460-813982/1-A  
 Matrix: Water  
 Analysis Batch: 814088

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 813982

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.0100	0.0120		mg/L		120	50 - 150

Lab Sample ID: MB 460-814068/1-A  
 Matrix: Water  
 Analysis Batch: 814088

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 814068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0040	mg/L		11/18/21 12:46	11/18/21 16:00	1

Lab Sample ID: LCS 460-814068/2-A  
 Matrix: Water  
 Analysis Batch: 814088

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 814068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.100	0.103		mg/L		103	90 - 110

# QC Sample Results

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

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

Lab Sample ID: MB 480-604834/1  
 Matrix: Water  
 Analysis Batch: 604834

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		1.0	1.0	mg/L			11/13/21 20:10	1

Lab Sample ID: LCS 480-604834/2  
 Matrix: Water  
 Analysis Batch: 604834

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	2750	2742		mg/L		100	88 - 110

## Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-604125/45  
 Matrix: Water  
 Analysis Batch: 604125

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		101	99 - 101

## Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-604579/3  
 Matrix: Water  
 Analysis Batch: 604579

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	ND		0.010	0.0050	mg/L			11/11/21 14:10	1

Lab Sample ID: LCS 480-604579/4  
 Matrix: Water  
 Analysis Batch: 604579

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.200	0.189		mg/L		94	90 - 110

## Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 480-603698/1  
 Matrix: Water  
 Analysis Batch: 603698

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

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			11/05/21 18:54	1

Lab Sample ID: LCS 480-603698/2  
 Matrix: Water  
 Analysis Batch: 603698

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	170.5		mg/L		86	85 - 115

# QC Association Summary

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## GC Semi VOA

### Prep Batch: 604413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	3510C	
480-191957-2	INFLUENT	Total/NA	Water	3510C	
MB 480-604413/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-604413/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 604529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	608.3	604413
MB 480-604413/1-A	Method Blank	Total/NA	Water	608.3	604413
LCS 480-604413/2-A	Lab Control Sample	Total/NA	Water	608.3	604413

### Analysis Batch: 604875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-2	INFLUENT	Total/NA	Water	608.3	604413

## Metals

### Prep Batch: 604115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	200.7	
MB 480-604115/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-604115/2-A	Lab Control Sample	Total/NA	Water	200.7	
480-191957-1 MS	ML-2	Total/NA	Water	200.7	
480-191957-1 MSD	ML-2	Total/NA	Water	200.7	

### Analysis Batch: 604952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	200.7 Rev 4.4	604115
MB 480-604115/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	604115
LCS 480-604115/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	604115
480-191957-1 MS	ML-2	Total/NA	Water	200.7 Rev 4.4	604115
480-191957-1 MSD	ML-2	Total/NA	Water	200.7 Rev 4.4	604115

## General Chemistry

### Analysis Batch: 603698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	SM 5210B	
USB 480-603698/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 480-603698/2	Lab Control Sample	Total/NA	Water	SM 5210B	

### Analysis Batch: 604125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	SM 4500 H+ B	
LCS 480-604125/45	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 604579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	SM 4500 P E	
MB 480-604579/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-604579/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	

Eurofins TestAmerica, Buffalo

# QC Association Summary

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## General Chemistry

### Analysis Batch: 604834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	SM 2540D	
MB 480-604834/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-604834/2	Lab Control Sample	Total/NA	Water	SM 2540D	

### Prep Batch: 605531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	1664B	
480-191957-2	INFLUENT	Total/NA	Water	1664B	
MB 480-605531/1-A	Method Blank	Total/NA	Water	1664B	
LCS 480-605531/2-A	Lab Control Sample	Total/NA	Water	1664B	

### Analysis Batch: 605582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	1664B	605531
480-191957-2	INFLUENT	Total/NA	Water	1664B	605531
MB 480-605531/1-A	Method Blank	Total/NA	Water	1664B	605531
LCS 480-605531/2-A	Lab Control Sample	Total/NA	Water	1664B	605531

### Prep Batch: 813982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 460-813982/1-A	Lab Control Sample	Total/NA	Water	9012B	

### Prep Batch: 814068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	Distill/CN	
MB 460-814068/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 460-814068/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

### Analysis Batch: 814088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-191957-1	ML-2	Total/NA	Water	335.4	814068
MB 460-814068/1-A	Method Blank	Total/NA	Water	335.4	814068
LCS 460-814068/2-A	Lab Control Sample	Total/NA	Water	335.4	814068
MRL 460-813982/1-A	Lab Control Sample	Total/NA	Water	335.4	813982

# Lab Chronicle

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

**Client Sample ID: ML-2**

**Lab Sample ID: 480-191957-1**

Date Collected: 11/04/21 12:50

Matrix: Water

Date Received: 11/04/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			604413	11/11/21 09:41	JMP	TAL BUF
Total/NA	Analysis	608.3		1	604529	11/11/21 19:55	W1T	TAL BUF
Total/NA	Prep	200.7			604115	11/10/21 09:19	KMP	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	604952	11/13/21 21:00	AMH	TAL BUF
Total/NA	Prep	1664B			605531	11/18/21 09:21	MJB	TAL BUF
Total/NA	Analysis	1664B		1	605582	11/18/21 10:38	MJB	TAL BUF
Total/NA	Prep	Distill/CN			814068	11/18/21 12:46	IAA	TAL EDI
Total/NA	Analysis	335.4		1	814088	11/18/21 16:15	HTV	TAL EDI
Total/NA	Analysis	SM 2540D		1	604834	11/13/21 20:10	CSS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	604125	11/09/21 11:35	KEB	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	604579	11/11/21 14:10	KEB	TAL BUF
Total/NA	Analysis	SM 5210B		1	603698	11/05/21 18:54	SRW	TAL BUF

**Client Sample ID: INFLUENT**

**Lab Sample ID: 480-191957-2**

Date Collected: 11/04/21 13:10

Matrix: Water

Date Received: 11/04/21 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			604413	11/11/21 09:41	JMP	TAL BUF
Total/NA	Analysis	608.3		5	604875	11/14/21 19:28	DSC	TAL BUF
Total/NA	Prep	1664B			605531	11/18/21 09:21	MJB	TAL BUF
Total/NA	Analysis	1664B		1	605582	11/18/21 10:38	MJB	TAL BUF

**Laboratory References:**

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

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

Client: Groundwater & Environmental Services Inc  
Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

## Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

## Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22



# Method Summary

Client: Groundwater & Environmental Services Inc  
 Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

Method	Method Description	Protocol	Laboratory
608.3	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664B	HEM and SGT-HEM	1664B	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL EDI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
1664B	HEM and SGT-HEM (Aqueous)	1664B	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
Distill/CN	Distillation, Cyanide	None	TAL EDI

**Protocol References:**

1664B = EPA-821-98-002

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

EPA = US Environmental Protection Agency

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

None = None

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 EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Sample Summary

Client: Groundwater & Environmental Services Inc  
Project/Site: Cherry Farms Semi-Annual Treatment

Job ID: 480-191957-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-191957-1	ML-2	Water	11/04/21 12:50	11/04/21 16:00
480-191957-2	INFLUENT	Water	11/04/21 13:10	11/04/21 16:00

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**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Johnson, Oriette S	Carrier Tracking No(s): 480-67789.1																																									
Client Contact: Shipping/Receiving		E-Mail: Oriette.Johnson@Eurofins.com	Page: 1 of 1																																									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-191957-1																																									
Address: 777 New Durham Road, Edison, NJ, 08817		<b>Analysis Requested</b>																																										
Due Date Requested: 11/18/2021		<table border="1"> <tr> <td colspan="2">Total Number of Containers</td> <td rowspan="10">           M - Hexane            N - None            O - AsNaO2            P - Na2OAS            Q - NaZSO3            R - NaZSO3            S - H2SO4            T - TSP Dodecahydrate            U - Acetone            V - MCAA            W - pH 4.5            L - EDTA            Z - other (specify)            Other:         </td> </tr> <tr> <td colspan="2">TAT Requested (days):</td> </tr> <tr> <td>PO #:</td> <td></td> </tr> <tr> <td>WO #:</td> <td></td> </tr> <tr> <td>Project #:</td> <td></td> </tr> <tr> <td>48002777</td> <td></td> </tr> <tr> <td>SSOW#:</td> <td></td> </tr> <tr> <td colspan="2">Sample Date</td> </tr> <tr> <td>11/4/21</td> <td></td> </tr> <tr> <td colspan="2">Sample Time</td> </tr> <tr> <td>12:50 Eastern</td> <td></td> </tr> <tr> <td colspan="2">Sample Type (C=Comp, G=grab)</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td colspan="2">Matrix (W=water, S=solid, O=wast/woil, BT=Tissue, A=Air)</td> </tr> <tr> <td></td> <td>Water</td> </tr> <tr> <td colspan="2">Field Filled Sample (Yes or No)</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td colspan="2">Perform MS/MSD (Yes or No)</td> </tr> <tr> <td>X</td> <td></td> </tr> <tr> <td colspan="2">335.4/Diskill_CN</td> </tr> </table>		Total Number of Containers		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - NaZSO3 R - NaZSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 L - EDTA Z - other (specify) Other:	TAT Requested (days):		PO #:		WO #:		Project #:		48002777		SSOW#:		Sample Date		11/4/21		Sample Time		12:50 Eastern		Sample Type (C=Comp, G=grab)				Matrix (W=water, S=solid, O=wast/woil, BT=Tissue, A=Air)			Water	Field Filled Sample (Yes or No)		X		Perform MS/MSD (Yes or No)		X		335.4/Diskill_CN	
Total Number of Containers				M - Hexane N - None O - AsNaO2 P - Na2OAS Q - NaZSO3 R - NaZSO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 L - EDTA Z - other (specify) Other:																																								
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335.4/Diskill_CN																																												

**Sample Identification - Client ID (Lab ID)**  
 ML-2 (480-191957-1)

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix, being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Matthew C. ...* Date: 11/12/21 17:00  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Custody Seals Intact:  Yes  No  
 Cooler Temperature(s) °C and Other Remarks: 6.0/5.5 249 *MS R 17902*  
*feder*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Method of Shipment: \_\_\_\_\_  
 Received by: *Call* Date: 11/13/21 12:25 Company: *MS*  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

## Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 480-191957-1

**Login Number: 191957**

**List Source: Eurofins TestAmerica, Buffalo**

**List Number: 1**

**Creator: Wallace, Cameron**

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	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

## Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 480-191957-1

**Login Number: 191957**

**List Number: 2**

**Creator: Armbruster, Chris**

**List Source: Eurofins TestAmerica, Edison**

**List Creation: 11/15/21 05:51 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	179001
Sample custody seals, if present, are intact.	N/A	
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	5.5°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (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	
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	

