



April 26, 2023

Town of Cheektowaga  
Engineering Department  
275 Alexander Avenue  
Cheektowaga, NY 14211

Attn: Mr. Patrick T. Bowen, P.E.  
Town Engineer

**Re: Effluent Sample Report – December 2022  
Pfohl Brothers Landfill, Town of Cheektowaga, New York**

Dear Mr. Bowen:

URS Corporation is pleased to present results of the December 2022 effluent sampling event at the Pfohl Brothers Landfill. All activities were conducted in accordance with the Town's permit with the Buffalo Sewer Authority (No. 22-07-CH016) dated effective July 1, 2022 through June 30, 2025.

Analytical results of the metals, total suspended solids, and pH for this event were compared to the discharge limitations in the Town's permit. The laboratory results showed no exceedances of the daily discharge limitations stated in the permit.

Attached please find the analytical data summary table, field notes taken during the sampling event, a sample location figure, and the laboratory report.

Please do not hesitate to call me should you have any questions regarding this submittal.

Sincerely,

**URS Corporation**

A handwritten signature in black ink that reads "Robert J. Murphy".

Robert J. Murphy, P.G.  
Project Manager

Attachments

cc File 11172700.00002 (C-1)

**DECEMBER 2022**  
**EFFLUENT MONITORING REPORT**  
**FOR**  
**PFOHL BROTHERS LANDFILL**

**PREPARED BY**  
**URS CORPORATION**  
**1 JOHN JAMES AUDUBON PARKWAY, SUITE 210**  
**AMHERST, NEW YORK 14228**

**PREPARED FOR**  
**TOWN OF CHEEKTOWAGA**  
**ENGINEERING DEPARTMENT**  
**275 ALEXANDER AVENUE**  
**CHEEKTOWAGA, NEW YORK 14211**

**APRIL 2023**

**EFFLUENT MONITORING REPORT  
DECEMBER 2022**

This effluent monitoring report presents analytical results from the December 2022 sampling event. There were no violations, exemptions or modifications to report. The report contains the following:

- Summary of analytical detections
- Sample technicians' field notes
- Sample location figure
- Laboratory report

"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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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 possibility of fine and imprisonment for knowing violations."

A BSA-approved signatory must sign this statement. An approved signatory is a corporate executive of the company or an individual designated responsible in writing by a corporate executive to the BSA.

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**ATTACHMENT 1**

**SUMMARY OF ANALYTICAL DETECTIONS**

**TABLE 1**

**PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING  
ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS  
DECEMBER 2022**

Sample ID	EFF-123022			
Matrix	Effluent Water			
Date Sampled	12/30/2022			
Parameter	Result	Mass Loading	Discharge Limitation	Violations
	(mg/L)	(lbs/day)	(lbs/day)	(Yes/No)
Total Barium	0.34	0.08	23.4	No
Total Cadmuim	< <sup>(1)</sup> 0.0005	< 0.0001	0.23	No
Total Chromium	< 0.0010	< 0.0002	1.17	No
Total Copper	0.0029 J	0.0007	3.74	No
Total Lead	0.0036 J	0.0009	1.17	No
Total Nickel	0.0015 J	0.0004	3.27	No
Total Zinc	0.0079 J	0.002	5.84	No
Total Suspended Solids	9.6	NA <sup>(2)</sup>	250 <sup>(3)</sup>	No
pH <sup>(4)</sup>	7.57	NA	5.0 - 12.0	No
Total Flow <sup>(5)</sup>	29,851		187,898	No

**Notes:**

- (1) < = Compound not detected, method detection limit shown
- (2) NA = Not Applicable
- (3) Discharge Limitation in units of mg/L
- (4) pH measurement and Discharge Limitation in Standard Units
- (5) Total Flow reported in gallons, sample was collected over a 24 hour period
- J Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

$$\text{Calculation: } \left( \frac{x \text{ mg}}{\text{L}} \right) \left( \frac{y \text{ gal}}{\text{day}} \right) \left( \frac{1 \text{ lb}}{453,600 \text{ mg}} \right) \left( \frac{3.785 \text{ L}}{\text{gal}} \right) = \frac{x \times y}{119,841} \frac{\text{lb}}{\text{day}}$$

mg = milligrams  
gal = gallons  
L = Liters  
lb(s) = pound(s)

**ATTACHMENT 2**

**SAMPLE TECHNICIANS' FIELD NOTES**

# SAMPLING FIELD SHEET



Client Name: Pfohl Brothers Landfill

Address: Aero Drive, Cheektowaga, NY

Contact: Patrick T. Bowen, P.E. Phone: 716-897-7288

**Installation:**

Sample Point: SP-001

Sample Location: Meter Chamber - ball valve on 6" HDPE forcemain

Date: 12/29/22 Crew: R. Murphy, T. Urban

Weather: 48 °F, partly cloudy

Sampling Device: NA

Time of Installation: 10:40 Type of Sample: Composite

Sample Interval: NA Sample Volume: NA

Comments and Observations: Well WW-04 running at the time of sample set-up.  
PLC display volumes: WW-01 (138,035 gals), WW-02 (40 gals), WW-03 (-121,714 gals),  
WW-04 (1,278,194 gals), WW-05 (599,155 gals), WW-06 (2,341,345 gals) & MH-25 (4,368,491 gals).

Date: 12/30/22 Crew: R. Murphy, S. Connelly

Weather: 54 °F, cloudy

Time of Collection: 10:40

Field Measurements:

10:40/RJM pH Calibration: Buffer 7- 7 Buffer 4- 4 Buffer 10- 10  
(time/initial)

pH Measurement: 7.57 Oakton pH Tester30, s/n T311487089

Temperature: 7.1 °C

Identification: EFF-062322 for TSS and Metals

Physical Observations: Light orange/red tint

Laboratory: Eurofins Buffalo, Amherst, NY

Comments: No wells running at the time of sample collection.  
PLC display volumes: WW-01 (138,035 gals), WW-02 (40 gals), WW-03 (-125,705 gals),  
WW-04 (1,298,081 gals), WW-05 (599,155 gals), WW-06 (2,351,505 gals) & MH-25 (4,398,342 gals).

Reviewed By: Robert J. Murphy Date: 12/30/22  
(Supervisor)

**ATTACHMENT 3**

**SAMPLE LOCATION FIGURE**



**URS**

PFOHL BROTHERS LANDFILL  
EFFLUENT SAMPLE POINT

FIGURE 1

**ATTACHMENT 4**

**LABORATORY REPORT**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Rob Murphy  
AECOM  
One John James Audubon Parkway  
Suite 210  
Amherst, New York 14228

Generated 1/9/2023 4:55:50 PM

## JOB DESCRIPTION

Quarterly Effluent

## JOB NUMBER

480-205093-1

# Eurofins Buffalo

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization



Generated  
1/9/2023 4:55:50 PM

Authorized for release by  
Judy Stone, Senior Project Manager  
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# Definitions/Glossary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

## Qualifiers

### Metals

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.

## 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
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: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

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**Job ID: 480-205093-1**

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**Laboratory: Eurofins Buffalo**

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**Narrative**

**Job Narrative  
480-205093-1**

**Receipt**

The sample was received on 12/30/2022 12:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

**Metals**

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

**General Chemistry**

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

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# Detection Summary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

Client Sample ID: EFF-123022

Lab Sample ID: 480-205093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.34		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0029	J	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Lead	0.0036	J	0.010	0.0030	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0015	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0079	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Total Suspended Solids	9.6		4.0	4.0	mg/L	1		SM 2540D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

# Client Sample Results

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

**Client Sample ID: EFF-123022**

**Lab Sample ID: 480-205093-1**

Date Collected: 12/30/22 10:40

Matrix: Water

Date Received: 12/30/22 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.34		0.0020	0.00070	mg/L		01/03/23 08:59	01/03/23 18:31	1
Cadmium	ND		0.0020	0.00050	mg/L		01/03/23 08:59	01/03/23 18:31	1
Chromium	ND		0.0040	0.0010	mg/L		01/03/23 08:59	01/03/23 18:31	1
Copper	0.0029	J	0.010	0.0016	mg/L		01/03/23 08:59	01/03/23 18:31	1
Lead	0.0036	J	0.010	0.0030	mg/L		01/03/23 08:59	01/03/23 18:31	1
Nickel	0.0015	J	0.010	0.0013	mg/L		01/03/23 08:59	01/03/23 18:31	1
Zinc	0.0079	J	0.010	0.0015	mg/L		01/03/23 08:59	01/03/23 18:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D)	9.6		4.0	4.0	mg/L			01/03/23 15:15	1

# QC Sample Results

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

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

**Lab Sample ID: MB 480-654801/1-A**  
**Matrix: Water**  
**Analysis Batch: 655010**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 654801**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	ND		0.0020	0.00070	mg/L		01/03/23 08:59	01/03/23 16:58	1
Cadmium	ND		0.0020	0.00050	mg/L		01/03/23 08:59	01/03/23 16:58	1
Chromium	ND		0.0040	0.0010	mg/L		01/03/23 08:59	01/03/23 16:58	1
Copper	ND		0.010	0.0016	mg/L		01/03/23 08:59	01/03/23 16:58	1
Lead	ND		0.010	0.0030	mg/L		01/03/23 08:59	01/03/23 16:58	1
Nickel	ND		0.010	0.0013	mg/L		01/03/23 08:59	01/03/23 16:58	1
Zinc	ND		0.010	0.0015	mg/L		01/03/23 08:59	01/03/23 16:58	1

**Lab Sample ID: LCS 480-654801/2-A**  
**Matrix: Water**  
**Analysis Batch: 655010**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 654801**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.200	0.204		mg/L		102	85 - 115
Chromium	0.200	0.199		mg/L		99	85 - 115
Copper	0.200	0.196		mg/L		98	85 - 115
Lead	0.200	0.199		mg/L		100	85 - 115
Nickel	0.200	0.194		mg/L		97	85 - 115
Zinc	0.200	0.196		mg/L		98	85 - 115

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

**Lab Sample ID: MB 480-654922/1**  
**Matrix: Water**  
**Analysis Batch: 654922**

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

Analyte	MB MB		RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	ND		1.0	1.0	mg/L			01/03/23 15:15	1

**Lab Sample ID: LCS 480-654922/2**  
**Matrix: Water**  
**Analysis Batch: 654922**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

# QC Association Summary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

## Metals

### Prep Batch: 654801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205093-1	EFF-123022	Total/NA	Water	200.7	
MB 480-654801/1-A	Method Blank	Total/NA	Water	200.7	
LCS 480-654801/2-A	Lab Control Sample	Total/NA	Water	200.7	

### Analysis Batch: 655010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205093-1	EFF-123022	Total/NA	Water	200.7 Rev 4.4	654801
MB 480-654801/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	654801
LCS 480-654801/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	654801

## General Chemistry

### Analysis Batch: 654922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-205093-1	EFF-123022	Total/NA	Water	SM 2540D	
MB 480-654922/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 480-654922/2	Lab Control Sample	Total/NA	Water	SM 2540D	

# Lab Chronicle

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

**Client Sample ID: EFF-123022**

**Lab Sample ID: 480-205093-1**

**Date Collected: 12/30/22 10:40**

**Matrix: Water**

**Date Received: 12/30/22 12:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	200.7			654801	VAK	EET BUF	01/03/23 08:59
Total/NA	Analysis	200.7 Rev 4.4		1	655010	LMH	EET BUF	01/03/23 18:31
Total/NA	Analysis	SM 2540D		1	654922	SAK	EET BUF	01/03/23 15:15

**Laboratory References:**

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

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# Accreditation/Certification Summary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

## Laboratory: Eurofins Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

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# Method Summary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	EET BUF
200.7	Preparation, Total Metals	EPA	EET BUF

**Protocol References:**

- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"

**Laboratory References:**

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



# Sample Summary

Client: AECOM  
Project/Site: Quarterly Effluent

Job ID: 480-205093-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-205093-1	EFF-123022	Water	12/30/22 10:40	12/30/22 12:30

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# Chain of Custody Record



Environment Testing

<b>Client Information</b>		Sample: <i>LMURPHY</i>		Lab PM: Schove, John R		Carrier Tracking No(s): 480-180004-29655.1	
Client Contact: Ms. Ann Marie Kropovitch		Phone: <i>716-903-1346</i>		E-Mail: John.Schove@et.eurofins.com		State of Origin: Page 1 of 1	
Company: AECOM		PWSID:		Analysis Requested		Job #:	
Address: One John James Audubon Parkway Suite 210		Due Date Requested:		Field Filtered Sample (Yes or No)		Preservation Codes:	
City: Amherst		TAT Requested (days): <i>STANDARD</i>		Perform MS/MSD (Yes or No)		A - HCL N - None M - Hexane O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA	
State, Zip: NY, 14228		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2007 - Metals - Ba, Cd, Cr, Cu, Pb, Ni, Zn		B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water	
Phone: 144060		PO #: 144060		2540D - TSS		Special Instructions/Note:	
Email: ann.marie.kropovitch@aecom.com		WO #: 60411174.11175616.00000		D N		480-205093 Chain of Custody	
Project Name: Pfohl Brothers Landfill		Project #: 48002609		N I 1			
Site:		SSOW#: <i>EPF-123022</i>		Field Filtered Sample (Yes or No)		Special Instructions/Note:	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
		<i>12/30/22</i>		<i>1040</i>		<i>C</i>	
		Preservation Code:		Matrix (W=water, S=solid, O=waste/oil, B=trace, A=air)			
				Water			
<b>Possible Hazard Identification</b>		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant	
		<input type="checkbox"/> Poison B		<input type="checkbox"/> Unknown		<input type="checkbox"/> Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)							
<b>Empty Kit Relinquished by:</b>		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Robert J. Ray</i>		<i>12/30/22</i>		<i>1230</i>		<i>VTOP OFF</i>	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
		<i>12/30/22 1230</i>		<i>1230</i>		<i>12/30/22 1230</i>	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:	
<b>Custody Seals Intact:</b>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<i># 314</i>			

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:



## Login Sample Receipt Checklist

Client: AECOM

Job Number: 480-205093-1

**Login Number: 205093**

**List Number: 1**

**Creator: Wallace, Cameron**

**List Source: Eurofins Buffalo**

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