



VIA ELECTRONIC MAIL

February 5, 2026

Karen A. Cahill
Environmental Engineer
Spill Response, Division of Environmental Remediation
New York State Department of Environmental Conservation R7
5786 Widewaters Parkway
Syracuse, NY 13214-1867

**Subject: January 2026 SPDES PEq Sampling Results
Emerson Electric Co. Site in Ithaca, New York (DER Site No. 7-55-010)**

Dear Ms. Cahill:

On behalf of Emerson Electric Co. (Emerson), WSP USA Inc. (WSP) collected a water discharge sample on January 21, 2026, from Outfall 01A at the former Emerson Power Transmission site at 620 South Aurora Street in Ithaca, New York (Figure 1). The sample was collected in accordance with Emerson's Project Site Remediation Wastewater Discharge State Pollutant Discharge Elimination System (SPDES) Permit Equivalent (PEq), effective on August 1, 2022,¹ and modified on October 11, 2024. The discharge from Outfall 01A is treated groundwater from the site's groundwater remediation system.

Outfall 001, which was also required to be sampled as specified in the SPDES PEq, was not sampled because the weir box, where the outfall was located, was removed on August 26, 2025, in accordance with the approved *Remedial Action Work Plan Addendum 1, Revision 1*, dated March 3, 2025. The former discharge from Outfall 001 consisted of stormwater, groundwater seepages, and treated groundwater from Outfall 01A (see former Outfall 001 location on figure in Enclosure A).

In lieu of sampling Outfall 001, WSP collected a discharge sample on January 21, 2026, from an alternative outfall location, designated Outfall 001MOD on Figure 1. Outfall 001MOD is located downgradient of the former location of Outfall 001 and upgradient of Outfall 011. Sampling at the modified outfall location was conducted to comply with the New York State Department of Environmental Conservation's comment letter,² dated August 23, 2024, which pertained to WSP's August 5, 2024, *Remedial Action Work Plan Addendum*. The sources contributing to the sampled discharge to Outfall

¹ Emerson began complying with SPDES PEq on September 7, 2022, which is the date when the existing SPDES permit for the site (NY 0002933) was terminated by the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Permits.

² The NYSDEC stated in their comment letter, "...the flow from the Weir Box Seeps, Open Ditch 2, former Outfall 004, and former Outfall 005 will be temporarily rerouted and bypassed around the work area to the Open Ditch 1 bypass or the lower wooden sluice throughout the work activities. Given that the work is expected to take several months, the diversion discharge must be sampled in accordance with the analytes and discharge limits specified for Outfall 001 per the SPDES Permit Equivalent."

001MOD were flows from Open Ditch 2, Weir Box Seeps, Outfalls 004 and 005, retaining wall sump, and Outfall 01A (Figure 1; Enclosure A).

Please find enclosed the following information pertaining to this sampling event.

- Discharge results for Outfalls 01A and 001MOD are summarized in enclosed Tables 1 and 2. All samples were analyzed by methods approved under Title 40 Code of Federal Regulations Part 136. On January 21, 2026, WSP measured in the field the pH, temperature, and flow of outfall discharges. The remaining parameters were analyzed by the following laboratories accredited under the New York State's Environmental Laboratory Approval Program (ELAP):
 - SGS North America Inc. in Dayton, New Jersey (ELAP identification number [ID] 10983)
 - Hoffman Analytic Service Inc. DBA Alloway in Marion, Ohio (ELAP ID 11071)
- Documentation of pH, temperature, and flow measurements collected in the field on January 21, 2026, pH meter calibration records, and the flow calculation for Outfall 001MOD are in Enclosure B.
- Laboratory analytical data for the January 2026 sampling event are in Enclosure C.
- Tables summarizing the sampling results for Outfall 01A collected from September 2022 to January 2026 and Outfall 001MOD collected in September through January 2026 are in Enclosure D.

None of the parameters detected in the January 2026 samples collected from Outfalls 01A and 001MOD exceeded the SPDES PEq discharge limits (Tables 1 and 2).

If you have any questions regarding the enclosed information, please contact me at (315) 374-1175 or amy.romano@wsp.com.

Sincerely yours,



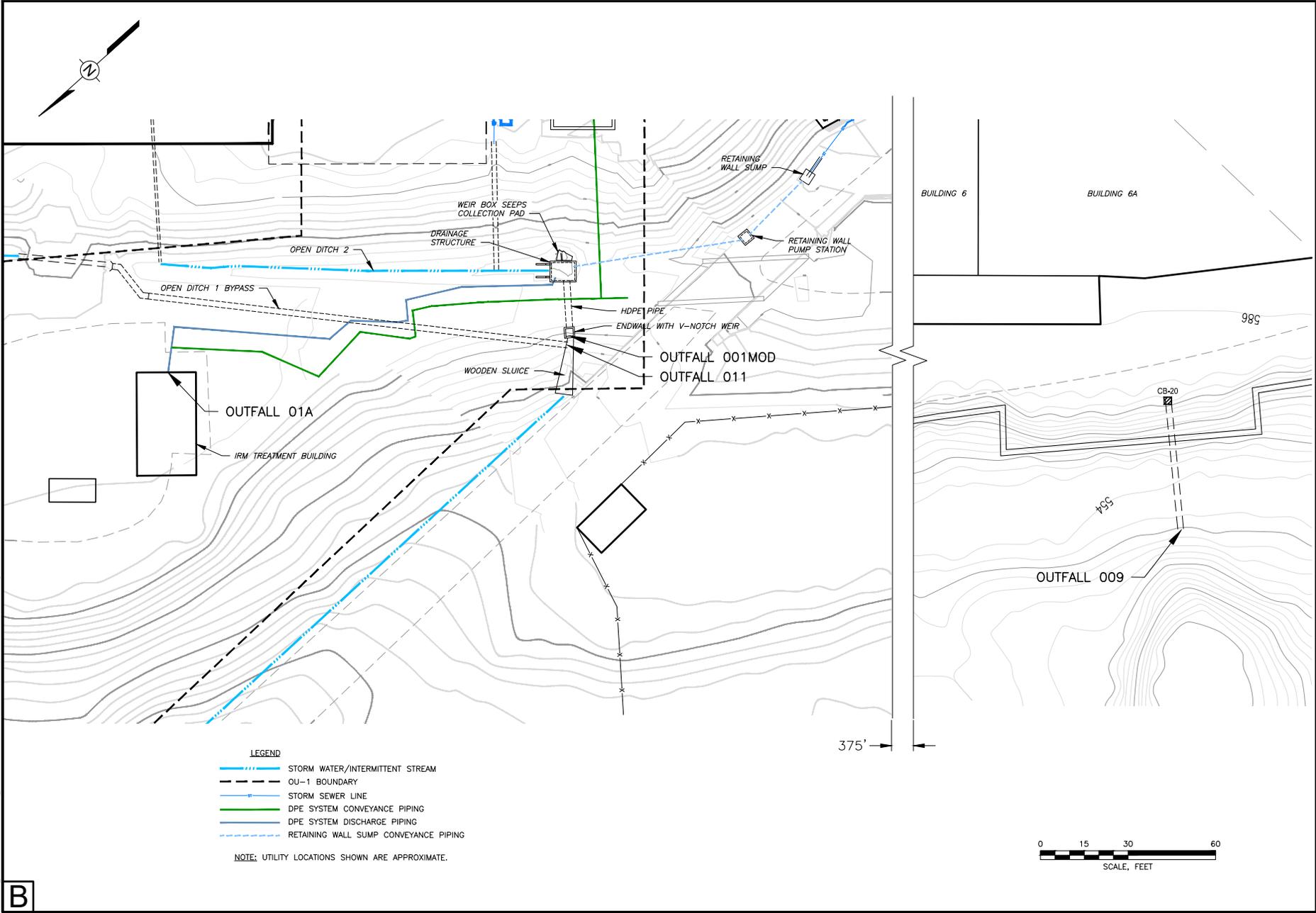
Amy M. Romano
Senior Technical Manager, Environmental Science

Enclosures

cc: Stephen L. Clarke, Emerson
Lisa Douglas, PE PMP®, Emerson
Lisa Kelly, WSP

FIGURE

R:\Shared_GIS\CAD\Shared\CAD\Acad1_CLIENT\EMERSON\IN\Ithaca\31405608.001\314P5608.001-B58.dwg 12/22/2025 11:40 AM USR201665



Drawn By: *RAE* 12/22/2025
 Checked: *DAR* 12/22/2025
 Approved:
 Dwg Name: 314P5608.001-B58

FORMER EMERSON POWER TRANSMISSION
 ITHACA, NEW YORK
 PREPARED FOR
 EMERSON
 ST. LOUIS, MISSOURI

FIGURE 1
 OUFALL LOCATIONS

wsp
 WSP USA, Inc.
 1000 BANK STREET
 SUITE 800
 PITTSBURGH, PA 15222
 TEL: +1 412.604.1040

B

TABLES

Table 1

SPDES Permit Equivalent Discharge Results - Outfall 01A
Emerson Electric Co.
Ithaca, New York (a)

Parameter	CAS No.	Units	Discharge Limit (b)	Result (c)
				01/21/26
Flow	NA	GPD	Monitor	622 (d); 20,448 (e)
pH (range)	NA	SU	6.5 - 8.5	7.9
Temperature	NA	deg F	Monitor	63.0
Tetrachloroethene	127-18-4	µg/l	1	ND (0.41)
Trichloroethene	79-01-6	µg/l	10	ND (0.43)
Sum of Dichlorobenzenes	95-50-1; 541-73-1; 106-46-7	µg/l	10	ND (1.91)
Bromoform	75-25-2	µg/l	10	ND (0.60)
Chlorobenzene	108-90-7	µg/l	5	ND (0.87)
Chlorodibromomethane	124-48-1	µg/l	10	ND (0.98)
Chloroform	67-66-3	µg/l	10	ND (0.50)
Free Cyanide	NA	µg/l	5.2 (Monthly Average); 22 (Daily Maximum)	ND (3)
Dichlorobromomethane	75-27-4	µg/l	10	ND (0.94)
1,1-Dichloroethane	75-34-3	µg/l	10	ND (0.42)
1,1-Dichloroethene	75-35-4	µg/l	10	ND (0.45)
Methylene chloride	75-09-2	µg/l	10	ND (0.80)
1,1,2,2-Tetrachloroethane	79-34-5	µg/l	10	ND (0.73)
Toluene	108-88-3	µg/l	50	ND (0.77)
trans-1,2-Dichloroethene	156-60-5	µg/l	10	ND (0.46)
cis-1,2-Dichloroethene	156-59-2	µg/l	10	ND (0.51)
1,1,1-Trichloroethene	71-55-6	µg/l	10	ND (0.43)
Xylenes, total	1330-20-7	µg/l	10	ND (0.76)
Vinyl chloride	75-01-4	µg/l	10	ND (0.79)
Benzene	71-43-2	µg/l	1	ND (0.71)

Bold value is a detected concentration or measurement.

- a/ SPDES = State Pollutant Discharge Elimination System; CAS No. = Chemical Abstracts Service registry number; GPD = gallons per day; SU = standard units; deg F = degrees Fahrenheit; µg/l = micrograms per liter; NA = not applicable.
- b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent, modified on October 11, 2024.
- c/ ND = not detected above reporting limit provided in parentheses.
- d/ Estimated monthly average flow rate based on totalizer readings of 2,022,403 gallons on December 10, 2025, and 2,048,545 gallons on January 21, 2026.
- e/ Estimated maximum daily flow rate during a batch discharge of the groundwater treatment system.

Table 2

Outfall 001MOD Discharge Results
Emerson Electric Co.
Ithaca, New York (a)

Parameter	CAS No.	Units	Discharge Limit (b)	Result (c)
				01/21/26
Flow	NA	GPD	Monitor	7,963 (d)
pH (range)	NA	SU	6.5 - 8.5	8.0
Total Lead	7439-92-1	µg/l	7.4	5.7
Tetrachloroethene	127-18-4	µg/l	1	ND (0.41)
Trichloroethene	79-01-6	µg/l	10	ND (0.43)

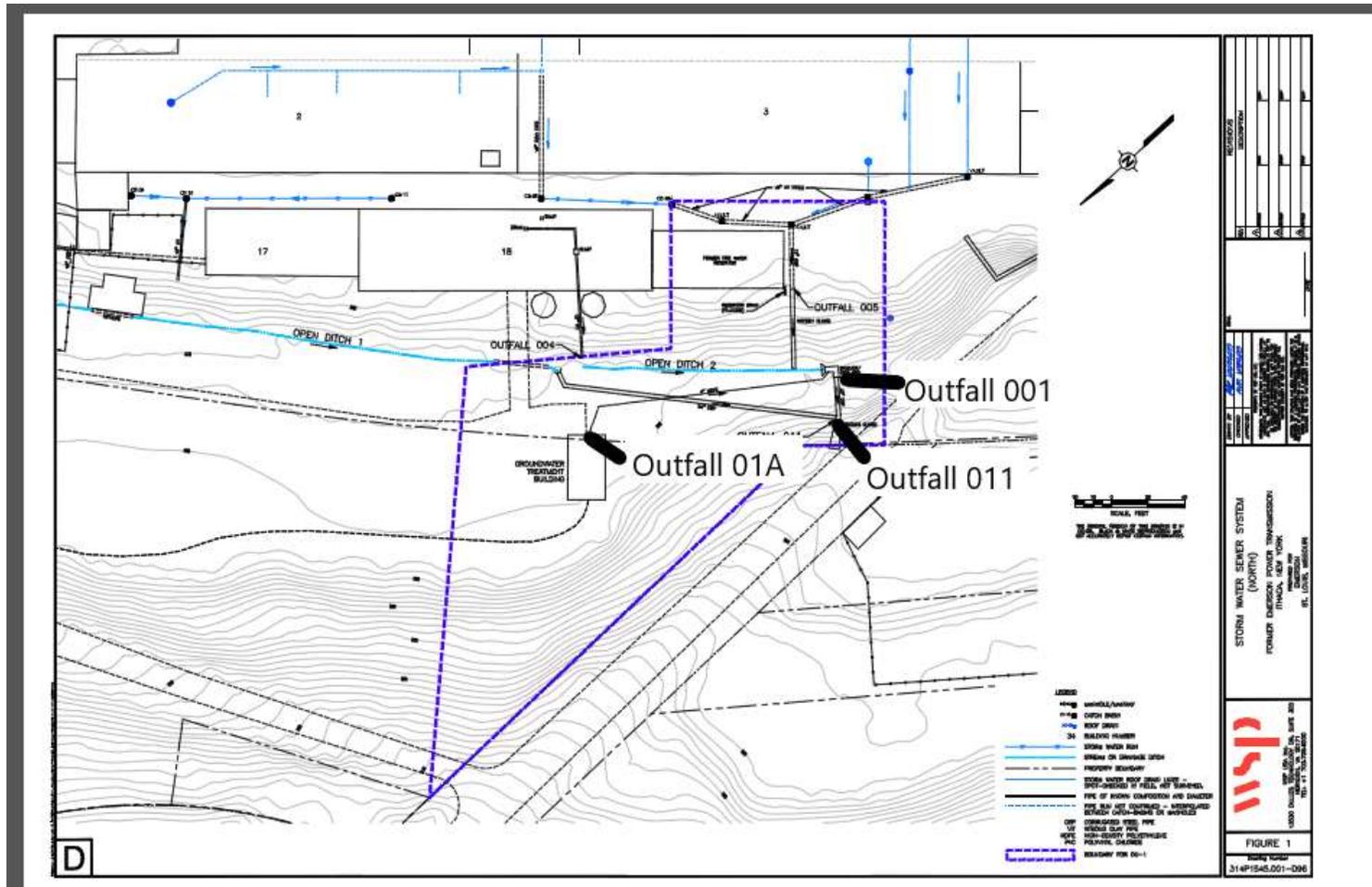
Bold value is a detected concentration or measurement.

- a/ CAS No. = Chemical Abstracts Service registry number; GPD = gallons per day; SU = standard units; µg/l = micrograms per liter; NA = not applicable.
- b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge State Pollutant Discharge Elimination System Permit Equivalent, modified on October 11, 2024.
- c/ ND = not detected above reporting limit provided in parentheses.
- d/ Estimated based on field measurement and V-notch (triangular) weir calculator (<https://www.lmnoeng.com/Weirs/vweir.php>).

ENCLOSURE A – FORMER OUTFALL 001 LOCATION FROM SPDES PEQ

MONITORING LOCATIONS:

Outfall 001 and 01A



ENCLOSURE B – FIELD MEASUREMENTS, PH METER CALIBRATION RECORD,
AND FLOW CALCULATION

**Emerson Electric Co.
620 South Aurora Street
Ithaca, NY (a)**

Date	Sample Location	Sampler's Name	Time of Sample Collection	pH Testing Method (b)	pH Meter Calibration Date	pH Result (S.U.)	Temperature Testing Method (b)	Temperature (degrees C)	Temperature (degrees F)	Flow Estimate		
										Average (GPD) (c)	Maximum (GPM) (d)	Maximum (GPD)
01/21/26	Outfall 01A	Kevin Griswold	11:30	SM 4500-H+ B	01/21/26	7.9	2500 B	17.2	63.0	622	14.2	20,448
01/21/26	Outfall 001	Kevin Griswold	<i>Not sampled because weir box (i.e., Outfall 001) was removed on August 26, 2025.</i>									
01/21/26	Outfall 001MOD (e)	Kevin Griswold	12:00	SM 4500-H+ B	01/21/26	8.0	2500 B	8.7	47.7	-	1.75 inches (f)	7,963 (g)

a/ S.U. = standard units; C = Celsius; F = Fahrenheit; GPD = gallons per day; GPM = gallons per minute.

b/ No sample preservation required per 40 CFR 136.3, Table II.

c/ Based on totalizer readings of 2,022,403 gallons on December 10, 2025, and 2,048,545 gallons on January 21, 2026.

d/ Estimated in the field on the day of sampling.

e/ Discharges to Outfall 001MOD consisted of water in Open Ditch 2, Weir Box Seeps, Outfalls 004 and 005, Retaining Wall Sump, and Outfall 01A.

f/ Measured in the field at V-notch weir.

g/ Estimated using V-notch weir calculator (<https://www.lmnoeng.com/Weirs/vweir.php>).

pH Calibration Log
Emerson Electric Co.
620 South Aurora Street, Ithaca, NY

HACH PHC101 pH Meter

Serial No. 172862567034

Date	Time	Calibrated By (Initials)	Buffer Temperature (°C)	pH 4.00 Standard	pH 7.0 Standard	pH 10.00 Standard	Slope	Comments about meter and calibration equipment
				Result	Result	Result		
1/21/2026	10:15	KGG	19.8	4.00	7.02	10.04	98%	Mix at 400 RPM, Cal. Passed; Calibration Solution Expiration Dates: pH 4.00 - 10/17/27; pH 7.00 - 09/01/27; pH 10.01 - 09/02/27.

LMNO Engineering, Research, and Software, Ltd.

V Notch Weir Calculator

Discharge and Head for Various Triangular Notch Angles

LMNO Engineering

[Consulting](#)

[Related calculators](#)

Free newsletters:

LMNO@LMNOeng.com

Phone (USA): (740) 707-2614

Solve for:

Discharge ▼

www.LMNOeng.com

Discharge, Q:

gal/day (gpd) ▼

Head, h:

inch ▼

Notch Angle, θ :

degrees ▼

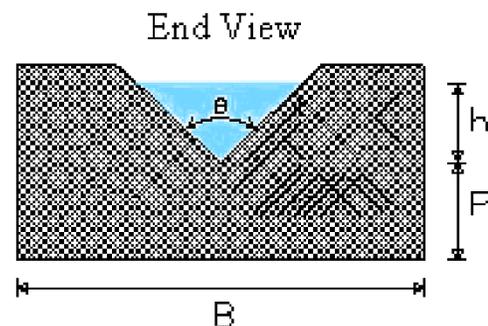
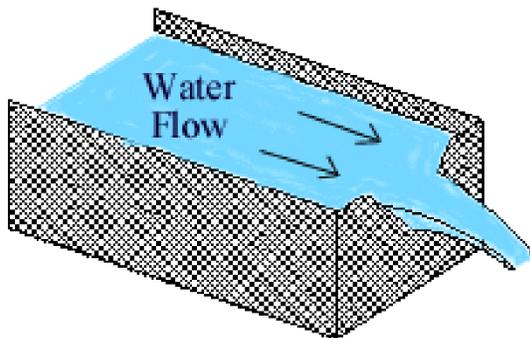
Discharge Coefficient, C:

Head Correction Factor, k:

inch

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Units: ft³=cubic foot, gal=US gallons, m³=cubic meter, mm=millimeter, s=second



Introduction

Weirs are typically installed in open channels such as streams to determine discharge (flowrate). The basic principle is that discharge is directly related to the water depth above the crotch (bottom) of the V; this distance is called head (h). The V-notch design causes small changes in discharge to have a large change in depth allowing more accurate head measurement than with a rectangular weir.

V-Notch Weir (Triangular Weir) Equations

V-notch weir equations have become somewhat standardized. ISO (1980), ASTM (1993), and USBR (1997) all suggest using the Kindsvater-Shen equation, which is presented below from USBR (1997) for Q in cfs and heights in ft units. All of the references show similar curves for C and k vs. angle, but none of them provide equations for the curves. To produce automated calculations, LMNO Engineering used a curve fitting program to obtain the equations which best fit the C and k curves. Our equations are shown below. The graph shown is from our fits. If you compare it to the graphs shown in the references, it looks nearly identical which implies that our fits are very good.

$$Q = 4.28 C \tan\left(\frac{\theta}{2}\right) (h + k)^{5/2}$$

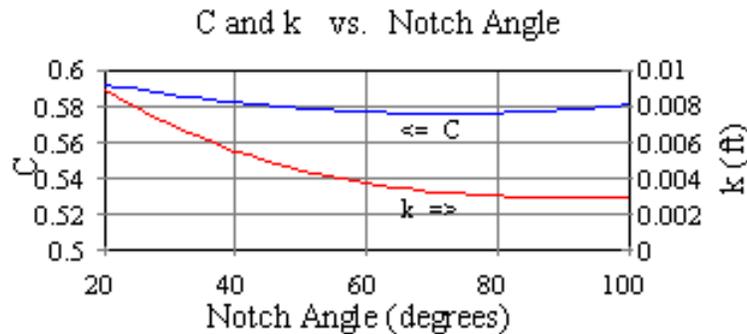
where Q = Discharge (cfs)

C = Discharge Coefficient

θ = Notch Angle

h = Head (ft)

k = Head Correction
Factor (ft)



$$C = 0.607165052 - 0.000874466963 \theta + 6.10393334 \times 10^{-6} \theta^2$$

$$k \text{ (ft.)} = 0.0144902648 - 0.00033955535 \theta + 3.29819003 \times 10^{-6} \theta^2 - 1.06215442 \times 10^{-8} \theta^3$$

where θ is the notch angle in degrees

Installation Guidelines and Equation Applicability

USBR (1997) suggests using the V-notch weir equations for the following conditions:

Head (h) should be measured at a distance of at least 4h upstream of the weir.

It doesn't matter how thick the weir is except where water flows over the weir through the "V." The weir should be between 0.03 and 0.08 inches (0.8 to 2 mm) thick in the V. If the bulk of the weir is thicker than 0.08 inch, the downstream edge of the V can be chamfered at an angle greater than 45° (60° is recommended) to achieve the desired thickness of the edges. You want to avoid having water cling to the downstream face of the weir.

Water surface downstream of the weir should be at least 0.2 ft. (6 cm) below the bottom of the V to allow a free flowing waterfall.

Measured head (h) should be greater than 0.2 ft. (6 cm) due to potential measurement error at such small heads and the fact that the nappe (waterfall) may cling to the weir.

The equations have been developed for $h < 1.25$ ft. (38 cm) and $h/P < 2.4$.

The equations have been developed for fully contracted V-notch weirs which means h/B should be ≤ 0.2 .

The average width of the approach channel (B) should be > 3 ft. (91 cm).

The bottom of the "V" should be at least 1.5 ft. (45 cm) above the bottom of the upstream channel.

If your weir does not achieve some of the above criteria, you may have a "partially contracted V-notch weir" where h/B needs only to be ≤ 0.4 , the bottom of the "V" only needs to be 4 inch (10 cm) above the bottom of the upstream channel, the approach channel only needs to be 2 ft. (61 cm) wide, and h can be up to 2 ft. (61 cm) instead of 1.25 ft. (38 cm). Partially contracted weirs use a different graph for C which is a function of h/P and P/B and is only valid for a notch angle of 90° . In the graph (not shown - see USBR, 1997), C varies from 0.576 to 0.6; whereas, for a fully contracted 90° notch, C is 0.578 from our graph shown above. Our calculation does not account for partially contracted weirs, but for most practical purposes the difference in C is inconsequential.

Error Messages

"All inputs must be positive". This is an initial check of user input.

"Angle out of range". The notch angle must be between 20° and 100° (0.35 and 1.75 radians) for the equations to be valid.

"Infeasible input". Input results in a negative head due to the compiler's machine precision. Occurs if head is being computed and a very low Q is entered (e.g. $1.0e-20$).

References

ASTM. (1993). American Society for Testing and Materials. ASTM D5242. Standard method for open-channel flow measurement of water with thin-plate weirs. 1993.

ISO. (1980). International Organization of Standards. ISO 1438/1-1980(E). Water flow measurement in open channels using weirs and venturi flumes - Part 1: Thin plate weirs. 1980.

USBR. (1997). U.S. Department of the Interior, Bureau of Reclamation. Water Measurement Manual. 3ed. Available from <http://www.usbr.gov/tsc/techreferences/mands/wmm/index.htm> .

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7860 Angel Ridge Rd. Athens, Ohio 45701 USA Phone: (740) 707-2614
LMNO@LMNOeng.com <https://www.LMNOeng.com>

ENCLOSURE C – LABORATORY ANALYTICAL DATA

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

WSP USA Environment & Infrastructure Inc

EPT, Ithaca, NY

31405608.001/Task 02; PO#P142342US001

SGS Job Number: JE27420

Sampling Date: 01/21/26



Report to:

**WSP
13530 DULLES TECHNOLOGY DRIVE Suite 300
Herndon, VA 20171
jeffrey.baker@wsp.com; Kevin.Griswold@wsp.com;
Amy.Romano@wsp.com
ATTN: Jeffrey Baker**

Total number of pages in report: 13



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV,AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

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Test results relate only to samples analyzed.

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Sample Summary

WSP USA Environment & Infrastructure Inc

Job No: JE27420

EPT, Ithaca, NY

Project No: 31405608.001/Task 02; PO#P142342US001

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID
---------------	----------------	---------	-----------------	-----------	------------------

This report contains results reported as ND = Not detected. The following applies:
 Organics ND = Not detected above the MDL

JE27420-1	01/21/26	11:30	KG	01/22/26	AQ	Water	OUTFALL 01A
JE27420-2	01/21/26	12:00	KG	01/22/26	AQ	Water	OUTFALL 001_MOD

Summary of Hits

Job Number: JE27420
Account: WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Collected: 01/21/26

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JE27420-1 OUTFALL 01A

No hits reported in this sample.

JE27420-2 OUTFALL 001_MOD

Lead	5.7	3.0	ug/l	EPA 200.7
------	-----	-----	------	-----------

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: OUTFALL 01A	
Lab Sample ID: JE27420-1	Date Sampled: 01/21/26
Matrix: AQ - Water	Date Received: 01/22/26
Method: EPA 624.1	Percent Solids: n/a
Project: EPT, Ithaca, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U84841.D	1	01/23/26 17:15	NW	n/a	n/a	V2U2897
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.71	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.94	ug/l	
75-25-2	Bromoform	ND	1.0	0.60	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.98	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.91	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.45	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.46	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.80	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.73	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
108-88-3	Toluene	ND	1.0	0.77	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.43	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	106%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	101%		79-117%
1868-53-7	Dibromofluoromethane (S)	97%		84-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: OUTFALL 001_MOD Lab Sample ID: JE27420-2 Matrix: AQ - Water Method: EPA 624.1 Project: EPT, Ithaca, NY	Date Sampled: 01/21/26 Date Received: 01/22/26 Percent Solids: n/a
---	---

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2U84842.D	1	01/23/26 17:40	NW	n/a	n/a	V2U2897
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
127-18-4	Tetrachloroethene	ND	1.0	0.41	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	107%		80-128%
2037-26-5	Toluene-D8 (SUR)	101%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	98%		79-117%
1868-53-7	Dibromofluoromethane (S)	97%		84-121%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: OUTFALL 001_MOD	
Lab Sample ID: JE27420-2	Date Sampled: 01/21/26
Matrix: AQ - Water	Date Received: 01/22/26
	Percent Solids: n/a
Project: EPT, Ithaca, NY	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.7	3.0	ug/l	1	01/23/26	01/23/26 MM	EPA 200.7 ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA60166

(2) Prep QC Batch: MP59936

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/5480
www.sgs.com/ehusa

FEDEX Tracking #
EPA Order Control #
SGS Order #
SGS Job #

Client/Reporting Information
Project Information
Billing Information
Company Name: WSPUSA INC.
Project Name: EMERSON (Rhaca, NY)
Street Address: 250 W 34th St, 4th Fl
City: New York, NY 10119
State: NY
City: Rhaca, NY
Company Name: WSPUSA Inc.
Project #: 31408608.001/Task 02
Street Address: 13530 Dulles Technology Drive
City: Herndon, VA 20171
Client Purchase Order #: P142342US001
Project Manager: Amy Romano
Attention: amy.romano@wsp.com

Table with columns: Field ID / Point of Collection, MECH/DI View #, Date, Time, Sampled by, Matrix, Number of Bottles, pH Check (Lab Use Only), LAB USE ONLY. Includes handwritten entries for 'OUTFALL 01A' and 'OUTFALL 001_MOD'.

Turn Around Time (Business Days)
Approved By (SGS PM) Date:
Deliverable
Comments / Special Instructions

Relinquished by: [Signature] Date/Time: 1/21/2009 Received By: FedEx
Relinquished by: [Signature] Date/Time: 1/22/2009 Received By: [Signature]
Therm ID: 20 CIPR

4.1
4



SGS Sample Receipt Summary

Job Number: JE27420

Client: WSP

Project: EPT, ITHACA, NY

Date / Time Received: 1/22/2026 10:15:00 AM

Delivery Method: FEDEX

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.0);

Cooler Temps (Corrected) °C: Cooler 1: (2.1);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|------------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smp'l Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | <u>IR-50</u> | |
| 3. Cooler media: | <u>Ice (Bag)</u> | |
| 4. No. Coolers: | <u>1</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|-------------------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | |

Sample Integrity - Instructions

Y or N

N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments

SM089-03
Rev. Date 12/7/17

JE27420: Chain of Custody

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4.1
4

Internal Sample Tracking Chronicle

WSP USA Environment & Infrastructure Inc

Job No: JE27420

EPT, Ithaca, NY

Project No: 31405608.001/Task 02; PO#P142342US001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE27420-1 Collected: 21-JAN-26 11:30 By: KG Received: 22-JAN-26 By: JR OUTFALL 01A						
JE27420-1	EPA 624.1	23-JAN-26 17:15	NW			V624SL3
JE27420-2 Collected: 21-JAN-26 12:00 By: KG Received: 22-JAN-26 By: JR OUTFALL 001_MOD						
JE27420-2	EPA 624.1	23-JAN-26 17:40	NW			V624SL2
JE27420-2	EPA 200.7	23-JAN-26 18:40	MM	23-JAN-26	MG	PB

SGS Internal Chain of Custody

Job Number: JE27420
Account: ESCVAR WSP USA Environment & Infrastructure Inc
Project: EPT, Ithaca, NY
Received: 01/22/26

4.3
4

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JE27420-1.1	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-1.1	Nicholas Weigand	GCMS1U	01/23/26 12:47	Load on Instrument
Analyst chain of custody update error.				
JE27420-1.2	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-1.3	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-1.4	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-2.1	Secured Storage	Marissa Guzik	01/23/26 11:31	Retrieve from Storage
JE27420-2.1	Marissa Guzik	Secured Storage	01/23/26 17:24	Return to Storage
JE27420-2.2	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-2.3	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-2.4	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage
JE27420-2.4	Nicholas Weigand	GCMS1U	01/23/26 12:47	Load on Instrument
Analyst chain of custody update error.				
JE27420-2.5	Nis Patel	Secured Storage	01/22/26 22:34	Return to Storage


CERTIFICATE OF ANALYSIS
Reported by Alloway - Marion

Chain of Custody attached

 WSP
 Attn: Amy Romano
 7000 East Genesee St BD.D 2nd Floor
 Fayetteville, NY 13066

Lab Project # 2602612
Received: 1/23/2026
Reported: 2/5/2026
Date/Time Sampled: 01/21/2026 11:30
Sampled By: KG
Sampled Matrix: Wastewater
Containers: 1

Project Name: EMERSON (Ithaca, NY)
Sample ID: OUTFALL 01A
Lab Sample # 2602612-01

NY 11071

Analyte	Results	Units	PQL	MDL	Method	Analyst	Extraction Date	Analysis Date/Time
Cyanide, Free (pH 6)	<0.003	mg/L	0.003		ASTM D7237-15A	DJC		01/27/2026 10:23

The matrix spike and matrix spike duplicate recoveries are biased above method limits.

Analysis Certified By:



Rhonda C Morris

This report shall not be reproduced, except in its entirety, without the written approval of the laboratory.
The results presented on this Certificate of Analysis only reflect those parameters that were requested by the client on the chain of custody or other documentation received with the sample(s). The analytical results relate only to the items tested.



Chain of Custody Record

This is a legal document that authorizes Alloway to perform testing on samples submitted under this agreement.

- 1101 North Cole Street, Lima, OH 45805
(P) 419-223-1362 (F) 419-227-3792
- 1776 Marion-Waldo Road, Marion OH 43302
(P) 740-389-5991 (F) 740-389-1481
- 1502 W. Fourth Street, Mansfield, OH 44906
(P) 419-525-1644 (F) 419-524-5575

1/2

Report To: Amy Romano Name: WSP USA INC. Company: 250 W 34th St., 4th Fl Address: New York, NY 10119	Invoice To (If Different): Name: amy.romano@wsp.com Company: WSP USA Inc. Address: 13530 Dulles Technology Drive Herndon, VA 20171	Notes/Comments: Please include in analytical report the method detection limit for each sample result. <div style="text-align: center; font-size: 24px; font-weight: bold;">Project: 2602612</div>
---	---	---

Phone #: 315-374-1175	Fax #:	
E-mail: amy.romano@wsp.com	PO#: P142341US001	

Project Name: EMERSON (Ithaca, NY)		N: <input type="checkbox"/> 2 Working Days <input type="checkbox"/> 5 Working Days
Sampler: Kevin Griswold <small>(Print)</small>	<i>Kevin Griswold</i> <small>(Signature)</small>	

	Customer Sample ID / Sample Location	Sample Date	Sample Time	Composite	Grab	Matrix Code	Number of Containers	Preservation Code #	Analysis Required	Alloway LIMS # For Lab Use Only
1	OUTFALL 01A	1/21/26	1130		X	WW	1	5	Free Cyanide by ASTM D7237-15A	01
2										
3										
4										
5										
6										
7										
8										

Relinquished by:	Received by:	Date	Time	Method of Delivery	Matrix Codes:	Preservation Codes:	Sample Receiving <small>(For Lab Use Only)</small>
1 <i>Kevin Griswold</i>	UPS	1/21/26	1730	UPS <input checked="" type="checkbox"/>	ww - wastewater gw - groundwater	1 - None 7 - Sodium Thiosulfate 13 - Zinc Acetate	Ice Present? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Proper Preservation? <input type="checkbox"/> Y <input type="checkbox"/> N <i>Met 111</i> Container Temperature: <u>1.3°C</u>
2				Fed Ex <input checked="" type="checkbox"/> <i>KEG</i>	dw - drinking water sw - surface water	2 - HNO ₃ 8 - Ascorbic Acid 14 - Sodium Sulfite	
3				Client <input type="checkbox"/>	w - water oil - oil	3 - H ₂ SO ₄ 9 - Maleic Acid 15 - Potassium Dihydrogen Citrate	
4				Alloway Pick Up <input type="checkbox"/>	s - solid sg - sludge	4 - HCl 10 - EDA 16 - Sodium Sulfite/Sodium Bisulfate	
5				Alloway Sampling <input type="checkbox"/>	l - leachate a - acid	5 - NaOH 11 - Ammonium Chloride	
6				Other <input type="checkbox"/>	p - product o - other	6 - NaOH & Zinc Acetate 12 - (NH ₄) ₂ SO ₄ & NH ₄ OH	
Received for Laboratory By: (circle one) Mansfield Lima Marion			1/23/26 830				

(Signature) *Johnny Adams*

Transported to: Lima Marion	By: _____	Received By: _____	Date: _____	Time: _____
Transported to: Lima Marion	By: _____	Received By: _____	Date: _____	Time: _____

ENCLOSURE D – PREVIOUS RESULTS FOR OUTFALLS 01A AND 001MOD

Table D-1

SPDES Permit Equivalent Discharge Results - Outfall 01A
Emerson Electric Co.
Ithaca, New York (a)

Parameter	Units	Discharge Limit (b)	Outfall 01A (c)												
			09/27/22	10/14/22	11/14/22	12/19/22	01/31/23	02/24/23	03/29/23	04/21/23	05/25/23	06/12/23	07/24/23	08/16/23	09/28/23
Flow	GPD	Monitor	20,880 (d)	11,520 (d)	11,520 (d); 468 (e)	10,800 (d); 633 (e)	11520 (d); 767 (e)	11,520 (d); 696 (e)	11,520 (d); 986 (e)	11,520 (d); 604 (e)	11,520 (d); 162 (e)	11,520 (d); 69 (e)	10,080 (d); 433 (e)	11,520 (d); 369 (e)	12,672 (d); 267 (e)
pH (range)	SU	6.5 - 8.5	7.4	8.1	8.1	7.9	8.0	7.9	7.9	7.6	7.6	7.7	7.7	7.8	7.8
Temperature	deg F	Monitor	72.7	64.8	64.4	64.9	59.2	59	57	70	65.8	69.4	73.0	75.9	71.8
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Sum of Dichlorobenzenes	µg/l	10	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.3)	ND (1.91)	ND (1.91)	ND (1.91)
Bromoform	µg/l	10	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Chlorobenzene	µg/l	5	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.33)	ND (0.87)	ND (0.87)	ND (0.87)
Chlorodibromomethane	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.98)	ND (0.98)	ND (0.98)
Chloroform	µg/l	10	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	0.54 J	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Free Cyanide	µg/l	Monitor (f)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	27	ND (3)	ND (3)	ND (3) (g)	ND (3)
Dichlorobromomethane	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.94)	ND (0.94)	ND (0.94)
1,1-Dichloroethane	µg/l	10	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloroethene	µg/l	10	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
Methylene chloride	µg/l	10	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.32)	ND (0.73)	ND (0.73)	ND (0.73)
Toluene	µg/l	50	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.36)	ND (0.77)	ND (0.77)	ND (0.77)
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
cis-1,2-Dichloroethene	µg/l	10	2.9	2.9	2.7	3.2	2.7	ND (0.51)	3.8	ND (0.51)	1.3	ND (0.51)	ND (0.51)	4.8	3.4
1,1,1-Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Xylenes, total	µg/l	10	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.35)	ND (0.76)	ND (0.76)	ND (0.76)
Vinyl chloride	µg/l	10	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
Benzene	µg/l	1	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.34)	ND (0.71)	ND (0.71)	ND (0.71)

Bold value is a detected concentration or measurement.

Table D-1

SPDES Permit Equivalent Discharge Results - Outfall 01A

Emerson Electric Co.
Ithaca, New York (a)

Parameter	Units (a)	Discharge Limit (b)	Outfall 01A (c)														
			10/4/23 (h)	10/23/23	11/16/23	12/19/23	01/24/24	1/25/24 (h)	02/12/24	03/07/24	04/15/24	05/16/24	6/3/24 (h)	06/17/24	07/09/24	7/25/24 (h)	
Flow	GPD	Monitor	-	12,528 (d); 524 (e)	12,240 (d); 524 (e)	12,960 (d); 789 (e)	13,104 (d); 855 (e)	-	-	15,696 (d); 948 (e)	12,816 (d); 469 (e)	14,112 (d); 761 (e)	13,824 (d); 637 (e)	-	12,528 (d); 494 (e)	12,384 (d); 465 (e)	-
pH (range)	SU	6.5 - 8.5	-	8.1	8.3	8.2	8.0	-	-	7.8	7.9	7.9	7.7	-	7.8	7.7	-
Temperature	deg F	Monitor	-	70.2	65.3 - 67.3	62.4	59.4	-	-	61.7	68.0	70.2	78.8	-	76.3	81.0	-
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Sum of Dichlorobenzenes	µg/l	10	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)
Bromoform	µg/l	10	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Chlorobenzene	µg/l	5	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Chlorodibromomethane	µg/l	10	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)
Chloroform	µg/l	10	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Free Cyanide	µg/l	Monitor (f)	-	4 (i)	ND (3)	ND (3)	ND (3)	-	-	ND (3)	ND (3)	ND (3)	ND (3)	-	ND (3)	ND (3)	-
Dichlorobromomethane	µg/l	10	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)
1,1-Dichloroethane	µg/l	10	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloroethene	µg/l	10	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
Methylene chloride	µg/l	10	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Toluene	µg/l	50	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
cis-1,2-Dichloroethene	µg/l	10	4.6	3.4	3.5	2.4	2.4	2.8	3.1	3.1	4.1	5.3	5.4	3.5	4.7	3.6	
1,1,1-Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Xylenes, total	µg/l	10	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)
Vinyl chloride	µg/l	10	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
Benzene	µg/l	1	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)
Acetone	µg/l	NA	4.1 J	-	-	-	-	ND (3.0)	-	-	-	-	ND (3.0)	-	-	-	ND (3.0)
Bromomethane	µg/l	NA	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	ND (0.87)
2-Butanone (MEK)	µg/l	NA	ND (2.0)	-	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	-	-	-	ND (2.0)
Carbon disulfide	µg/l	NA	ND (0.52)	-	-	-	-	ND (0.52)	-	-	-	-	ND (0.52)	-	-	-	ND (0.52)
Carbon tetrachloride	µg/l	NA	ND (0.55)	-	-	-	-	ND (0.55)	-	-	-	-	ND (0.55)	-	-	-	ND (0.55)
Chloroethane	µg/l	NA	ND (0.54)	-	-	-	-	ND (0.54)	-	-	-	-	ND (0.54)	-	-	-	ND (0.54)
Chloromethane	µg/l	NA	ND (0.78)	-	-	-	-	ND (0.78)	-	-	-	-	ND (0.78)	-	-	-	ND (0.78)
Cumene	µg/l	NA	ND (0.77)	-	-	-	-	ND (0.77)	-	-	-	-	ND (0.77)	-	-	-	ND (0.77)
Cyclohexane	µg/l	NA	ND (0.66)	-	-	-	-	ND (0.66)	-	-	-	-	ND (0.66)	-	-	-	ND (0.66)
1,2-Dibromoethane	µg/l	NA	ND (0.28)	-	-	-	-	ND (0.28)	-	-	-	-	ND (0.28)	-	-	-	ND (0.28)
1,2-Dibromo-3-chloropropane	µg/l	NA	ND (1.1)	-	-	-	-	ND (1.1)	-	-	-	-	ND (1.1)	-	-	-	ND (1.1)
Dichlorodifluoromethane	µg/l	NA	ND (0.69)	-	-	-	-	ND (0.69)	-	-	-	-	ND (0.69)	-	-	-	ND (0.69)
1,2-Dichloroethane	µg/l	NA	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	ND (0.96)
1,2-Dichloropropane	µg/l	NA	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	ND (0.96)
cis-1,3-Dichloropropene	µg/l	NA	ND (0.47)	-	-	-	-	ND (0.47)	-	-	-	-	ND (0.47)	-	-	-	ND (0.47)
trans-1,3-Dichloropropene	µg/l	NA	ND (0.93)	-	-	-	-	ND (0.93)	-	-	-	-	ND (0.93)	-	-	-	ND (0.93)
Ethylbenzene	µg/l	NA	ND (0.84)	-	-	-	-	ND (0.84)	-	-	-	-	ND (0.84)	-	-	-	ND (0.84)
Freon 113	µg/l	NA	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	ND (0.87)
2-Hexanone	µg/l	NA	ND (1.8)	-	-	-	-	ND (1.8)	-	-	-	-	ND (1.8)	-	-	-	ND (1.8)
Methyl Tert Butyl Ether	µg/l	NA	ND (0.94)	-	-	-	-	ND (0.94)	-	-	-	-	ND (0.94)	-	-	-	ND (0.94)
4-Methyl-2-pentanone(MIBK)	µg/l	NA	ND (3.2)	-	-	-	-	ND (3.2)	-	-	-	-	ND (3.2)	-	-	-	ND (3.2)
Methyl Acetate	µg/l	NA	ND (0.64)	-	-	-	-	ND (0.64)	-	-	-	-	ND (0.64)	-	-	-	ND (0.64)
Methylcyclohexane	µg/l	NA	ND (1.4)	-	-	-	-	ND (1.4)	-	-	-	-	ND (1.4)	-	-	-	ND (1.4)
Styrene	µg/l	NA	ND (0.98)	-	-	-	-	ND (0.98)	-	-	-	-	ND (0.98)	-	-	-	ND (0.98)
1,2,4-Trichlorobenzene	µg/l	NA	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	ND (1.0)
1,1,2-Trichloroethane	µg/l	NA	ND (0.41)	-	-	-	-	ND (0.41)	-	-	-	-	ND (0.41)	-	-	-	ND (0.41)
Trichlorofluoromethane	µg/l	NA	ND (0.33)	-	-	-	-	ND (0.33)	-	-	-	-	ND (0.33)	-	-	-	ND (0.33)

Bold value is a detected concentration or measurement.

Table D-1

SPDES Permit Equivalent Discharge Results - Outfall 01A
Emerson Electric Co.
Ithaca, New York (a)

Parameter	Units (a)	Discharge Limit (b)	Outfall 01A (c)													
			08/15/24	09/12/24	10/29/24	11/1/24 (h)	11/11/24	12/04/24	01/14/25	02/20/25	02/27/24 (h)	03/10/25	04/17/25	05/08/25	06/19/25	07/10/25
Flow	GPD	Monitor	12,614 (d); 488 (e)	12,096 (d); 391 (e)	9,792 (d); 307 (e)	-	10,656 (d); 308 (e)	10,944 (d); 474 (e)	10,368 (d); 575 (e)	10,656 (d); 1,203 (e)	-	11,232 (d); 1,543 (e)	9,792 (d); 908 (e)	11,232 (d); 1,000 (e)	11,232 (d); 801 (e)	11,808 (d); 328 (e)
pH (range)	SU	6.5 - 8.5	8.1	8.0	8.0	-	8.0	8.2	8.4	8.1	-	7.9	7.9	7.9	7.3	7.5
Temperature	deg F	Monitor	85.5	73.8	70.7	-	67.1	60.8	58.3	58.2	-	58.3	61.3	67.1	82.0	79.5
Tetrachloroethene	µg/l	1	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)	ND (0.41)
Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Sum of Dichlorobenzenes	µg/l	10	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)	ND (1.91)
Bromoform	µg/l	10	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)	ND (0.60)
Chlorobenzene	µg/l	5	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)	ND (0.87)
Chlorodibromomethane	µg/l	10	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)	ND (0.98)
Chloroform	µg/l	10	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)
Free Cyanide	µg/l	Monitor (f)	ND (3)	ND (3)	ND (3)	-	ND (0.8)	ND (0.8)	ND (3)	ND (0.8)	-	ND (0.8)	ND (0.05)	ND (0.5)	ND (0.5)	ND (3)
Dichlorobromomethane	µg/l	10	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)	ND (0.94)
1,1-Dichloroethane	µg/l	10	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
1,1-Dichloroethene	µg/l	10	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)	ND (0.45)
Methylene chloride	µg/l	10	ND (0.41)	ND (0.41)	ND (0.80)	ND (0.41)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.41)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)	ND (0.80)
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)	ND (0.73)
Toluene	µg/l	50	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)	ND (0.77)
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)	ND (0.46)
cis-1,2-Dichloroethene	µg/l	10	2.5	4.1	4.0	4.5	3.6	2.7	2.3	1.6	1.8	1.9	1.9	2.6	4.5	ND (0.51)
1,1,1-Trichloroethene	µg/l	10	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)	ND (0.43)
Xylenes, total	µg/l	10	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)	ND (0.76)
Vinyl chloride	µg/l	10	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)	ND (0.79)
Benzene	µg/l	1	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)	ND (0.71)
Acetone	µg/l	NA	-	-	-	ND (3.0)	-	-	-	-	ND (3.0)	-	-	-	-	-
Bromomethane	µg/l	NA	-	-	-	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	-	-
2-Butanone (MEK)	µg/l	NA	-	-	-	ND (2.0)	-	-	-	-	ND (2.0)	-	-	-	-	-
Carbon disulfide	µg/l	NA	-	-	-	ND (0.52)	-	-	-	-	ND (0.52)	-	-	-	-	-
Carbon tetrachloride	µg/l	NA	-	-	-	ND (0.55)	-	-	-	-	ND (0.55)	-	-	-	-	-
Chloroethane	µg/l	NA	-	-	-	ND (0.54)	-	-	-	-	ND (0.54)	-	-	-	-	-
Chloromethane	µg/l	NA	-	-	-	ND (0.78)	-	-	-	-	ND (0.78)	-	-	-	-	-
Cumene	µg/l	NA	-	-	-	ND (0.77)	-	-	-	-	ND (0.77)	-	-	-	-	-
Cyclohexane	µg/l	NA	-	-	-	ND (0.66)	-	-	-	-	ND (0.66)	-	-	-	-	-
1,2-Dibromoethane	µg/l	NA	-	-	-	ND (0.28)	-	-	-	-	ND (0.28)	-	-	-	-	-
1,2-Dibromo-3-chloropropane	µg/l	NA	-	-	-	ND (1.1)	-	-	-	-	ND (1.1)	-	-	-	-	-
Dichlorodifluoromethane	µg/l	NA	-	-	-	ND (0.69)	-	-	-	-	ND (0.69)	-	-	-	-	-
1,2-Dichloroethane	µg/l	NA	-	-	-	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	-	-
1,2-Dichloropropane	µg/l	NA	-	-	-	ND (0.96)	-	-	-	-	ND (0.96)	-	-	-	-	-
cis-1,3-Dichloropropene	µg/l	NA	-	-	-	ND (0.47)	-	-	-	-	ND (0.47)	-	-	-	-	-
trans-1,3-Dichloropropene	µg/l	NA	-	-	-	ND (0.93)	-	-	-	-	ND (0.93)	-	-	-	-	-
Ethylbenzene	µg/l	NA	-	-	-	ND (0.84)	-	-	-	-	ND (0.84)	-	-	-	-	-
Freon 113	µg/l	NA	-	-	-	ND (0.87)	-	-	-	-	ND (0.87)	-	-	-	-	-
2-Hexanone	µg/l	NA	-	-	-	ND (1.8)	-	-	-	-	ND (1.8)	-	-	-	-	-
Methyl Tert Butyl Ether	µg/l	NA	-	-	-	ND (0.94)	-	-	-	-	ND (0.94)	-	-	-	-	-
4-Methyl-2-pentanone(MIBK)	µg/l	NA	-	-	-	ND (3.2)	-	-	-	-	ND (3.2)	-	-	-	-	-
Methyl Acetate	µg/l	NA	-	-	-	ND (0.64)	-	-	-	-	ND (0.64)	-	-	-	-	-
Methylcyclohexane	µg/l	NA	-	-	-	ND (1.4)	-	-	-	-	ND (1.4)	-	-	-	-	-
Styrene	µg/l	NA	-	-	-	ND (0.98)	-	-	-	-	ND (0.98)	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/l	NA	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-	-
1,1,2-Trichloroethane	µg/l	NA	-	-	-	ND (0.41)	-	-	-	-	ND (0.41)	-	-	-	-	-
Trichlorofluoromethane	µg/l	NA	-	-	-	ND (0.33)	-	-	-	-	ND (0.33)	-	-	-	-	-

Bold value is a detected concentration or measurement.

Table D-1

SPDES Permit Equivalent Discharge Results - Outfall 01A
Emerson Electric Co.
Ithaca, New York (a)

Parameter	Units (a)	Discharge Limit (b)	Outfall 01A (c)				
			08/05/25	10/16/25	11/13/25	12/10/25	01/21/26
Flow	GPD	Monitor	11,520 (d); 497 (e)	17,712 (d); 463 (e)	17,424 (d); 217 (e)	20,880 (d); 528 (e)	20,448 (d); 622 (e)
pH (range)	SU	6.5 - 8.5	8.3	8.5	8.5	8.1	7.9
Temperature	deg F	Monitor	76.5	63.7	62.1	62.8	63.0
Tetrachloroethene	µg/l	1	ND (0.41)				
Trichloroethene	µg/l	10	ND (0.43)				
Sum of Dichlorobenzenes	µg/l	10	ND (1.91)				
Bromoform	µg/l	10	ND (0.60)				
Chlorobenzene	µg/l	5	ND (0.87)				
Chlorodibromomethane	µg/l	10	ND (0.98)				
Chloroform	µg/l	10	ND (0.50)				
Free Cyanide	µg/l	5.2 (Monthly Average); 22 (Daily Maximum) (f)	ND (3)	ND (0.5)	ND (3)	ND (3)	ND (3)
Dichlorobromomethane	µg/l	10	ND (0.94)				
1,1-Dichloroethane	µg/l	10	ND (0.42)				
1,1-Dichloroethene	µg/l	10	ND (0.45)				
Methylene chloride	µg/l	10	ND (0.80)				
1,1,2,2-Tetrachloroethane	µg/l	10	ND (0.73)				
Toluene	µg/l	50	ND (0.77)				
trans-1,2-Dichloroethene	µg/l	10	ND (0.46)				
cis-1,2-Dichloroethene	µg/l	10	ND (0.51)				
1,1,1-Trichloroethene	µg/l	10	ND (0.43)				
Xylenes, total	µg/l	10	ND (0.76)				
Vinyl chloride	µg/l	10	ND (0.79)				
Benzene	µg/l	1	ND (0.71)				

Bold value is a detected concentration or measurement.

a/ SPDES = State Pollutant Discharge Elimination System; GPD = gallons per day; SU = standard units; deg F = degrees Fahrenheit; µg/l= micrograms per liter.

b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge SPDES Permit Equivalent (PEq), modified on October 11, 2024; NA = not applicable.

c/ ND = not detected above reporting limit provided in parentheses; J = estimated concentration; - = not analyzed for this parameter.

d/ Estimated maximum flow rate during a batch discharge of the groundwater treatment system.

e/ Estimated average flow based on totalizer readings.

f/ Per Footnote 1 of SPDES PEq, an interim limit of Monitor Only shall apply for free cyanide from August 1, 2022, until July 31, 2025. The water quality-based effluent limit of 5.2 µg/l Monthly Average and 22 µg/l Daily Maximum for free cyanide will become effective on August 1, 2025.

g/ Sample for free cyanide was collected on August 18, 2023.

h/ Sample collected as part of routine operation and maintenance of groundwater treatment system.

i/ Result is considered estimated because sample was analyzed outside of hold time requirements due to instrument failure.

Table D-2

Outfall 001MOD Discharge Results
Emerson Electric Co.
Ithaca, New York (a)

Parameter	Units	Discharge Limit (b)	Outfall 001MOD (c)						
			09/30/25	09/30/25	10/16/25	11/13/25	11/25/25	12/10/25	01/21/26
Flow	GPD	Monitor	593 (d)	-	14,722 (e)	11,033 (e)	-	19,066 (e)	7,963 (d)
pH (range)	SU	6.5 - 8.5	8.7	8.2	8.4	8.4	-	8.1	8.0
Total Barium	µg/l	Monitor	ND (200)	-	-	-	-	ND (200)	-
Total Lead	µg/l	7.4	ND (3.0)	-	2.6 J	ND (3.0)	-	ND (3.0)	5.7
Mercury	ng/l	Monitor	ND (0.50)	-	-	-	-	ND (0.50)	-
Tetrachloroethene	µg/l	1	10.7	-	0.82 J	1.2	1.0	1.1	ND (0.41)
Trichloroethene	µg/l	10	9.0	-	ND (0.43)	ND (0.43)	-	ND (0.43)	ND (0.43)
Free Cyanide	µg/l	5.2 (Monthly Average); 22 (Daily Maximum)	1	-	-	-	-	ND (3)	-

Bold value is a detected concentration or measurement.

Orange highlighted value exceeds discharge limit.

- a/ GPD = gallons per day; SU = standard units;
µg/l = micrograms per liter; ng/l = nanograms per liter.
- b/ Discharge limit specified in Emerson Electric Co. Project Site Remediation Wastewater Discharge State Pollutant Discharge Elimination System Permit Equivalent, modified on October 11, 2024.
- c/ ND = not detected above reporting limit provided in parentheses; J = estimated concentration; - = not analyzed for this parameter.
(If a duplicate sample was collected, the higher of the two concentrations is reported.)
- d/ Estimated based on field measurement.
- e/ Estimated based on field measurement and V-notch (triangular) weir calculator (<https://www.lmnoeng.com/Weirs/vweir.php>).