Keith Vanstrom
Water Resource Manager
Jamestown Board of Public Utilities
PO Box 700
Jamestown, NY 14702-0700

Arcadis of New York, Inc.
201 Fuller Road
Suite 201
Albany
New York 12203
Tel 518 250 7352
www.arcadis.com

Subject:
October 2023 Reporting Period - Industrial Wastewater Discharge Monitoring Report, Industrial Wastewater Discharge Permit No. 037
Former D.C. Rollforms Site, 583 Allen Street, Jamestown, NY

ENVIRONMENT

Date:
November 27, 2023

Contact:
Todd Carignan

Phone:
518.250.7352

Email:
Todd.carignan@arcadis.com

Our ref:
30174313

Dear Mr. Vanstrom:

Pursuant to the Industrial Wastewater Discharge Permit for the former D.C. Rollforms Site (Permit No. 037), Arcadis, on behalf of Trane Technologies, is submitting this report summarizing the discharge monitoring activities related to the operation of the groundwater collection and treatment system at the former D.C. Rollforms Site located at 583 Allen Street in Jamestown, New York.

Groundwater Treatment System Summary

The groundwater collection and treatment system is currently operating to remediate groundwater at the former D.C. Rollforms Site. System analytical results and flows that were recorded during reporting period are summarized below.

Sample Collection and Analysis

Routine system effluent samples collected during the reporting period are summarized below. On October 3, 2023, a sample collection event was performed, as required by the discharge permit. Sampling consisted of the collection of four (4) grab samples during a typical production day for analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 624, oil and grease (O&G) using USEPA Method 1664A, total suspended solids (TSS) using USEPA Method 2540D, and polychlorinated biphenyls (PCBs) using USEPA Method 608. The system effluent samples were collected from sample port SP-702, located post the air stripper unit liquid discharge point.

The VOCs, PCB, O&G, and TSS analysis was performed by SGS North America, Inc. laboratory located in Dayton, New Jersey. The sample collection field log (Attachment A) and laboratory analysis with the chain-of-custody (Attachment B) are attached.

Analytical Data Summary

All analytes were either non-detect or below the local discharge limits as set forth by the Permit. The laboratory analytical results are summarized in the table below.

Analysis	Local Discharge Limit	Sample ID			
		Effluent 1	Effluent 2	Effluent 3	Effluent 4
		Results			
pH (S.U.)	5.5-10.0	7.9	8.7	8.8	8.9
Oil & Grease (mg/L)	100	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)
TSS (mg/L)	350	14.4			
Total VOC (mg/L)	2.13	ND (<0.0010)			
PCB (mg/L)	ND	ND (<0.000050)			

Table Definitions:
Units – mg/L, milligram per liter unless otherwise noted.
B – Concentration detected in the laboratory method blank.
J – Estimated concentration.
NA – Sample lost/broken during shipping or by laboratory, and/or insufficient volume, therefore not analyzed.
ND – Non-detect, less than the laboratory method detection limits.
< - Less than the laboratory reporting limits.
TSS, Total VOC, and PCB samples are composited by the laboratory.

System Flow Measurements

The flow for the reporting period was 11,848 gallons, which corresponds to an approximate average flowrate of approximately 0.3 gallons per minute. As of October 3, 2023, the system has treated a total cumulative flow of 23,649,676 gallons.

Certification

On behalf of Trane Technologies, Arcadis certifies under penalty of law that this document and all attachments were prepared under Arcadis' direction of supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on Arcadis' 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 Arcadis' knowledge and belief, true, accurate, and complete. Arcadis is aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Should there be any unanticipated delay in receiving the analytical results, we will advise your office accordingly. If you have any questions, please contact me at (518) 250-7352.

Sincerely,

Arcadis of New York, Inc.

Todd Carignan
Project Engineer

Copies:
Michael Goldstein, Trane Technologies
Megan Kuczka, NYSDEC

Enclosures:

Attachments

A. Sample Collection Field Log

B. Laboratory Analytical Report

ATTACHMENT A

Sampling Collection Field Log

JAMESTOWN BPU POTW
MONTHLY SELF MONITORING REPORT SAMPLE COLLECTION FIELD LOG

Permit Number: 037

Company: Trane Technologies
Address: 583 Allen Street
Jamestown, New York 14701

SIC: Groundwater Remediation

Sample Location: System Effluent

Type of Sample: Grab

Flow Measuring Method: Signet 2537 Paddlewheel Flowmeter

Sampler(s): AJS

Date: 10/3/2023

COLLECTION DATA

Sample Interval: Approx. 0.3 hour

Sample ID	Grab Sample Date/Time	Sample Interval (hr:m)	Totalizer (gallons)[2]	Total Flow (gallons)[2]	Average Flowrate (gpm)[2]	pH[1]
Effluent 1	10/3/23 11:15 AM	-	23,649,180	-	-	7.9
Effluent 2	10/3/23 11:30 AM	0:15	23,649,315	135	9.0	8.7
Effluent 3	10/3/23 11:45 AM	0:15	23,649,459	144	9.6	8.8
Effluent 4	10/3/23 12:00 PM	0:15	23,649,676	217	14.5	8.9

Observations

Water Discharge Appearance: Clear, pale yellow tint

Notes:

1. pH Meter Make/Model - Hanna Model # 98103

2. Flowmeter malfunction during the sampling event due to power supply failure. The flowmeter was functional upon departure.

ATTACHMENT B

Laboratory Analytical Report

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

e-Hardcopy 2.0
Automated Report

Technical Report for

Arcadis

DC Rollforms, 583 Allen Street, Jamestown, NY

30174313

SGS Job Number: JD74083

Sampling Date: 10/03/23

Report to:

Arcadis U.S., Inc.
855 Route 146 Suite 210
Clifton Park, NY 12065
Todd.Carignan@arcadis.com; Ben.Girard@Arcadis.com;
Kenneth.Varley@Arcadis.com; marie.meidhof@sgs.com;
ATTN: Todd Carignan

Total number of pages in report: 21

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.

David Chastain
General Manager

Client Service contact: Marie Meidhof 732-329-0200
Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

Sections: 1 2 3 4

Table of Contents

SGS North America Inc.

Sample Summary

Arcadis

Job No: JD74083

DC Rollforms, 583 Allen Street, Jamestown, NY
Project No: 30174313

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies: Organics ND = Not detected above the MDL							
JD74083-1	10/03/23	11:15	AJS	10/04/23	AQ	Effluent	EFFLUENT #1
JD74083-2	10/03/23	11:30	AJS	10/04/23	AQ	Effluent	EFFLUENT #2
JD74083-3	10/03/23	11:45	AJS	10/04/23	AQ	Effluent	EFFLUENT #3
JD74083-4	10/03/23	12:00	AJS	10/04/23	AQ	Effluent	EFFLUENT #4
JD74083-5	10/03/23	12:00	AJS	10/04/23	AQ	Effluent	EFFLUENT #1-4 COMPOSITE
JD74083-6	10/03/23	12:00		10/04/23	AQ	Trip Blank Water	TRIP BLANK

Summary of Hits

Job Number: JD74083
Account: Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Collected: 10/03/23

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD74083-1	**EFFLUENT #1**					
No hits reported in this sample.						
JD74083-2	**EFFLUENT #2**					
No hits reported in this sample.						
JD74083-3	**EFFLUENT #3**					
No hits reported in this sample.						
JD74083-4	**EFFLUENT #4**					
No hits reported in this sample.						
JD74083-5	**EFFLUENT #1-4 COMPOSITE**					
Solids, Total Suspended		14.4	4.0		mg/l	SM2540 D-11/15
JD74083-6	**TRIP BLANK**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	EFFLUENT #1		
Lab Sample ID:	JD74083-1	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	10/06/23 18:30	SS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #2		
Lab Sample ID:	JD74083-2	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	10/06/23 18:30	SS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #3		
Lab Sample ID:	JD74083-3	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	10/06/23 18:30	SS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #4		
Lab Sample ID:	JD74083-4	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
HEM Oil and Grease	< 5.0	5.0	mg/l	1	10/06/23 18:30	SS	EPA 1664A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD74083-5	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5A1566.D	1	10/05/23 20:46	NW	n/a	n/a	V5A48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
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	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	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	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	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	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	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	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD74083-5	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	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)	96%		80-128%
2037-26-5	Toluene-D8 (SUR)	99%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	93%		79-117%
1868-53-7	Dibromofluoromethane (S)	95%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

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

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD74083-5	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
Method:	EPA 608.3 EPA 608	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2507312.D	1	10/07/23 16:07	TP	10/06/23 10:00	OP49604A	GXX8328
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.050	0.034	ug/l	
11104-28-2	Aroclor 1221	ND	0.050	0.029	ug/l	
11141-16-5	Aroclor 1232	ND	0.050	0.020	ug/l	
53469-21-9	Aroclor 1242	ND	0.050	0.027	ug/l	
12672-29-6	Aroclor 1248	ND	0.050	0.025	ug/l	
11097-69-1	Aroclor 1254	ND	0.050	0.034	ug/l	
11096-82-5	Aroclor 1260	ND	0.050	0.027	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		10-156%
877-09-8	Tetrachloro-m-xylene	62%		10-156%
2051-24-3	Decachlorobiphenyl	22%		10-143%
2051-24-3	Decachlorobiphenyl	23%		10-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EFFLUENT #1-4 COMPOSITE		
Lab Sample ID:	JD74083-5	**Date Sampled:**	10/03/23
Matrix:	AQ - Effluent	**Date Received:**	10/04/23
		Percent Solids:	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Total Suspended	14.4	4.0	mg/l	1	10/05/23 14:45	AS	SM2540 D-11/15

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD74083-6	**Date Sampled:**	10/03/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	5A1559.D	1	10/05/23 17:49	NW	n/a	n/a	V5A48
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
107-02-8	Acrolein	ND	10	3.7	ug/l	
107-13-1	Acrylonitrile	ND	10	2.5	ug/l	
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	
74-83-9	Bromomethane	ND	1.0	0.87	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.87	ug/l	
75-00-3	Chloroethane	ND	1.0	0.54	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.78	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	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.69	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.42	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.96	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	
78-87-5	1,2-Dichloropropane	ND	1.0	0.96	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.47	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.93	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.84	ug/l	
75-09-2	Methylene chloride	ND	1.0	0.41	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	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.41	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD74083-6	**Date Sampled:**	10/03/23
Matrix:	AQ - Trip Blank Water	**Date Received:**	10/04/23
Method:	EPA 624.1	**Percent Solids:**	n/a
Project:	DC Rollforms, 583 Allen Street, Jamestown, NY		

VOA PPL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.43	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.33	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)	99%		80-128%
2037-26-5	Toluene-D8 (SUR)	99%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	92%		79-117%
1868-53-7	Dibromofluoromethane (S)	94%		84-121%

(a) Results reported from the HCl preserved sample. The reported result for acrolein is for screening only and cannot be used for compliance purposes.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

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

GW
TB

Comp

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

FED-EX Tracking # 7003 7830 8808
Bottle Order Control # MM-081723-51
SGS Quote #
SGS Job # JD74083

Client / Reporting Information

Company Name: ARCADIS
Street Address: 855 Route 146, Suite 210
City / State / Zip: Clifton Park, NY
Project Contact: Todd Carignan
E-mail:
Phone #: 646-248-4208
Sampler(s) Name(s): A. Svensson
Phone #: 716-909-9063

Project Information

Project Name: IR DC ROLLFORMS
Street: 583 Allen St
City / State: Jamestown, NY
Project #: 30174313
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	HEM OIL & GREASE 1664A	VOCs USEPA 624.1	PCBs USEPA 608	TSS USEPA 160.2	LAB USE ONLY
1	EFFLUENT #1		10/3/23	1115	AJS	G	N	GW	9	5				4				2	3	2	2	L19
2	EFFLUENT #2		10/3/23	1130	AJS	G	N	GW	9	5				4				2	3	2	2	G5
3	EFFLUENT #3		10/3/23	1145	AJS	G	N	GW	9	5				4				2	3	2	2	VL028
4	EFFLUENT #4		10/3/23	1200	AJS	G	N	GW	9	5				4				2	3	2	2	
5	EFFLUENT #1-4 composite		10/3/23	—	AJS	C	N	GW	9	-				-				0	X	X	X	
6	TRIP BLANK		8/30/23	0700	—	G	N	TB	2	2				0				0	2	0	0	

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank

pH Check

Ref: MM-081723-50 & 5 Date: 30Aug23
Dep: Wgt: 20.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7830 8493
TRCK: 7003 7830 8520

Ref: MM-081723-50 & 5 Date: 30Aug23
Dep: Wgt: 20.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7830 8493
TRCK: 7003 7830 8509

Ref: MM-081723-50 & 5 Date: 30Aug23
Dep: Wgt: 20.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7830 8493
TRCK: 7003 7830 8403

Ref: MM-081723-50 & 5 Date: 30Aug23
Dep: Wgt: 20.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
PRIORITY OVERNIGHT Master 7003 7830 8493
TRCK: 7003 7830 8510

Turnaround Time (Business days) / Date:
- ☐ 10 Business Days
- ☐ 5 Business Days
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☒ Other Standard

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Initial Assessment 3AHK
Label Verification

Data Deliverable Information
- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☒ NYASP Category A
- ☐ NYASP Category B
- ☐ MA MCP Criteria
- ☐ CT RCP Criteria
- ☐ State Forms
- ☒ EDD Format NYSDEC EQUIS

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions
EFFLUENT #1-4 composite sample to be made from EFFLUENT #1, #2, #3 and #4 samples
October 2023 monthly
4-coolers
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 Adam Svensson	10/3/23 1400	1 FEDEX	2 FEDEX	10/4/23 1004	2 Jame [illegible]
3		3	4		4
5		5	Custody Seal # ☐ Intact ☐ Not intact ☐ Absent	Therm ID: See Sample Receipt Summary	On Ice Cooler Temp. °C X 0.1, 0.1, 2.3, 0.4 cf IR40

EHSA-QAC-0023-05 Rev.Date:8/5/22

JD74083: Chain of Custody
Page 1 of 2

4.1
4

SGS Sample Receipt Summary

Job Number: JD74083 **Client:** ARCADIS U.S., INC. **Project:** DC ROLLFORMS, JAMESTOWN, NY, OR

Date / Time Received: 10/4/2023 10:05:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7003 7830 8508

Cooler Temps (Raw Measured) °C: Cooler 1: (0.1); Cooler 2: (0.1); Cooler 3: (2.3); Cooler 4: (0.4);

Cooler Temps (Corrected) °C: Cooler 1: (-0.2); Cooler 2: (-0.2); Cooler 3: (2.0); Cooler 4: (0.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun 40		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	4		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

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

Comments

SM089-03
Rev. Date 12/7/17

JD74083: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Arcadis

Job No: JD74083

DC Rollforms, 583 Allen Street, Jamestown, NY
Project No: 30174313

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD74083-1	Collected: 03-OCT-23 11:15 By: AJS		Received: 04-OCT-23		By: JK	
EFFLUENT #1						
JD74083-1	EPA 1664A	06-OCT-23 18:30	SS	06-OCT-23	SS	OG1664
JD74083-2	Collected: 03-OCT-23 11:30 By: AJS		Received: 04-OCT-23		By: JK	
EFFLUENT #2						
JD74083-2	EPA 1664A	06-OCT-23 18:30	SS	06-OCT-23	SS	OG1664
JD74083-3	Collected: 03-OCT-23 11:45 By: AJS		Received: 04-OCT-23		By: JK	
EFFLUENT #3						
JD74083-3	EPA 1664A	06-OCT-23 18:30	SS	06-OCT-23	SS	OG1664
JD74083-4	Collected: 03-OCT-23 12:00 By: AJS		Received: 04-OCT-23		By: JK	
EFFLUENT #4						
JD74083-4	EPA 1664A	06-OCT-23 18:30	SS	06-OCT-23	SS	OG1664
JD74083-5	Collected: 03-OCT-23 12:00 By: AJS		Received: 04-OCT-23		By: JK	
EFFLUENT #1-4 COMPOSITE						
JD74083-5	SM2540 D-11/15	05-OCT-23 14:45	AS			TSS
JD74083-5	EPA 624.1	05-OCT-23 20:46	NW			V624PPL
JD74083-5	EPA 608.3	07-OCT-23 16:07	TP	06-OCT-23	KB	P608PCBLL
JD74083-6	Collected: 03-OCT-23 12:00 By:		Received: 04-OCT-23		By: JK	
TRIP BLANK						
JD74083-6	EPA 624.1	05-OCT-23 17:49	NW			V624PPL

SGS Internal Chain of Custody

Job Number: JD74083
Account: AGMNYA Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Received: 10/04/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD74083-1.1	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-1.2	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-1.2	Secured Storage	Todd Shoemaker	10/05/23 11:50	Retrieve from Storage
JD74083-1.2	Todd Shoemaker	Secured Staging Area	10/05/23 11:51	Return to Storage
JD74083-1.2	Secured Storage	Dave Hunkele	10/06/23 09:16	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD74083-1.2	Dave Hunkele	Secured Staging Area	10/06/23 09:17	Return to Storage
JD74083-2.1	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-2.2	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-2.2	Secured Storage	Todd Shoemaker	10/05/23 11:50	Retrieve from Storage
JD74083-2.2	Todd Shoemaker	Secured Staging Area	10/05/23 11:51	Return to Storage
JD74083-2.2	Secured Storage	Dave Hunkele	10/06/23 09:16	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD74083-2.2	Dave Hunkele	Secured Staging Area	10/06/23 09:17	Return to Storage
JD74083-3.1	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-3.1	Secured Storage	Todd Shoemaker	10/05/23 11:50	Retrieve from Storage
JD74083-3.1	Todd Shoemaker	Secured Staging Area	10/05/23 11:51	Return to Storage
JD74083-3.1	Secured Storage	Dave Hunkele	10/06/23 09:16	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD74083-3.1	Dave Hunkele	Secured Staging Area	10/06/23 09:17	Return to Storage
JD74083-3.2	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-4.1	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-4.1	Secured Storage	Todd Shoemaker	10/05/23 11:50	Retrieve from Storage
JD74083-4.1	Todd Shoemaker	Secured Staging Area	10/05/23 11:51	Return to Storage
JD74083-4.1	Secured Storage	Dave Hunkele	10/06/23 09:16	Retrieve from Storage
Bottle was returned to secure storage, but inadvertently not scanned.				
JD74083-4.1	Dave Hunkele	Secured Staging Area	10/06/23 09:17	Return to Storage
JD74083-4.2	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-5.1	James Kwon	Secured Storage	10/04/23 15:19	Return to Storage
JD74083-5.1	Secured Storage	Doaa Salem	10/06/23 08:07	Retrieve from Storage
JD74083-5.1.1	Doaa Salem	Organics Prep	10/06/23 08:32	Extract from JD74083-5.1
JD74083-5.1.1	Organics Prep	Kevin Brefo	10/06/23 17:24	Extract from JD74083-5.1
JD74083-5.1.1	Kevin Brefo	Extract Storage	10/06/23 17:24	Return to Storage
JD74083-5.1.1	Tilak Patel	GC2G	10/07/23 14:23	Load on Instrument
JD74083-5.1.1	Extract Storage	Tilak Patel	10/07/23 14:23	Retrieve from Storage

SGS Internal Chain of Custody

Job Number: JD74083
Account: AGMNYA Arcadis
Project: DC Rollforms, 583 Allen Street, Jamestown, NY
Received: 10/04/23

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD74083-5.1.1	GC2G	Tilak Patel	10/07/23 14:24	Unload from Instrument
JD74083-5.1.1	Tilak Patel	GCXX	10/07/23 14:24	Load on Instrument
JD74083-5.2	James Kwon	Secured Storage	10/04/23 15:19	Return to Storage
JD74083-5.3	Dave Hunkele	Secured Storage	10/04/23 14:41	Return to Storage
JD74083-5.4	Dave Hunkele	Secured Storage	10/04/23 14:41	Return to Storage
JD74083-5.4	Secured Storage	Dave Hunkele	10/05/23 09:11	Retrieve from Storage
JD74083-5.4	Dave Hunkele	Secured Staging Area	10/05/23 09:11	Return to Storage
JD74083-5.4	Secured Staging Area	Arunna Sabapathy	10/05/23 09:46	Retrieve from Storage
JD74083-5.4	Arunna Sabapathy	Secured Storage	10/05/23 18:32	Return to Storage
JD74083-5.5	Secured Storage	Dave Hunkele	10/04/23 14:40	Retrieve from Storage
JD74083-5.5	Dave Hunkele	Secured Storage	10/04/23 14:40	Return to Storage
JD74083-5.6	Secured Storage	Dave Hunkele	10/04/23 14:40	Retrieve from Storage
JD74083-5.6	Dave Hunkele	Secured Storage	10/04/23 14:40	Return to Storage
JD74083-5.7	Nicholas Weigand	GCMS5A	10/05/23 16:11	Load on Instrument
JD74083-5.11	Joe Waddington	Secured Storage	10/04/23 15:55	Return to Storage
JD74083-6.1	James Kwon	Secured Storage	10/04/23 14:01	Return to Storage
JD74083-6.1	Nicholas Weigand	GCMS5A	10/05/23 16:11	Load on Instrument
Analyst chain of custody update error.				
JD74083-6.2	James Kwon	Secured Storage	10/04/23 14:01	Return to Storage