



Tom D. Antonoff
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VIA ELECTRONIC MAIL

September 13, 2019

Mr. Aaron Fischer
Remedial Bureau B
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway – 12th Floor
Albany, New York 12233-7016

**Subject: Monthly Progress Report
GE Main Plant (Site No. 4-47-004)
Schenectady, New York**

Dear Aaron:

Pursuant to Section III of the Order on Consent and Administrative Settlement (Index No. A4-0562-0806) regarding General Electric Company's (GE's) Main Plant in Schenectady, New York, please find attached the Monthly Progress Report covering August 2019. As always, please call me if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Tom D. Antonoff'.

Tom D. Antonoff
Senior Project Manager

Attachment

cc: Stephanie Selmer, NYSDOH (via email)
Ben Conlon, Esq., NYSDEC (via email)
Damian Foti, GE (via email)
Eric Merrifield, GE (via email)
Angelica Todd, GE (via email)
Matt Sausville, OBG (via email)
Paul Hare, OBG (via email)

MONTHLY PROGRESS REPORT

Order on Consent and Administrative Settlement (Index No. A4-0562-0806) GE Main Plant (Site No. 4-47-004) Schenectady, New York

Month Covered: August 2019

I. Actions Taken During Month:

- The Monthly Progress Report (MPR) was submitted to the New York State Departments of Environmental Conservation and Health (NYSDEC and NYSDOH, respectively) on or before August 15, 2019 (or the next business day if on a weekend or holiday).
- O'Brien & Gere Engineers, Inc. (OBG, a Ramboll company) continued operation, maintenance and monitoring (OM&M) of the Seep Collection and Treatment System (SCTS) throughout the month. OBG performed weekly sampling events on August 1, 8, 15, 22, and 29, 2019. System information was collected and recorded during each site visit on Operations Log Sheets, which are attached.
- OBG completed the third quarter monitoring event for the SGTS on August 1, 2019.
- OBG continued preparation of (a) the Annual Groundwater and Surface Water Monitoring Report and (b) the Annual Operation, Maintenance and Monitoring Report.
- OBG completed the inspection of the historic (ie, prior to 2014) Agronomic Cover System (ACS) as well as the ACS installed in the fall of 2017 using an Unmanned Aerial Vehicle (UAV, aka drone) on August 19, 2019.
- GE continued working with NYSDEC's real estate group to draft the site's environmental covenant.

II. Analytical and Other Results Obtained During Month:

- Analytical results are attached for the samples collected from the SCTS on August 1, 8, 15, 22, and 29, 2019.
- Analytical results are attached from the third quarter SGTS monitoring event.

III. Deliverables Submitted or Approved During Month:

- None in August 2019.

IV. Actions Scheduled for Following Month:

- GE will submit this MPR to NYSDEC and NYSDOH on or before September 15, 2019 (or the following business day if on a weekend or holiday).

- OBG will continue OM&M of the SCTS, including weekly effluent sampling. The third quarter sampling event under the Polychlorinated Biphenyl (PCB) Minimization Work Plan will also be performed.
- OBG will continue evaluating and planning SGTS injections at the Zone 2 and Zone 3 “B” wells. Additional injections are scheduled in October 2019.
- OBG will complete the quarterly Light Non-Aqueous Phase Liquid (LNAPL) gauging and recovery activities.
- In anticipation of the annual groundwater sampling event, OBG will complete construction of passive diffusion bag (PDB) holders so they are ready for deployment in September 2019 in the monitoring wells that are only sampled for volatile organics.
- OBG will complete and submit the Annual Groundwater and Surface Water Monitoring Report to NYSDEC and NYSDOH.
- OBG will continue preparation of the Annual OM&M Report.

V. Anticipated Delays and Mitigative Measures:

- None in August 2019.

VI. Proposed or Approved Modifications:

- None in August 2019.

VII. Citizen Participation Activities:

- None in August 2019.

Attachments

Operations Logs for Seep Collection & Treatment System

**OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK**

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/1/19	8/2/19	8/5/19	8/6/19
				TIME:	1400	1400	1400	1400
				INITIALS:	SS	SS	SS	SS
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y	Y	Y	Y
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y	Y	Y	Y
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N	N	N	N
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		29.36	27.79	25.44	26.36
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		24.64	24.18	22.07	20.08
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		—	—	—	—
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		48.79 46.06	58.97	31.84	36.04
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,222.20	12,250.100	12,331.80	12,358.900
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		417.150	439.100	500.300	520.200
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640.040	640.040	640.040	640.040
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		1,038,475	1,090,600	1,235,300	1,282,200
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y	Y	Y	Y
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		3	4	3	
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50.03	49.98	50.04	50.05
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.54	7.46	7.62	7.45
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		45.41	49.71	50.23	86.00
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y	Y	Y	Y
VFD RATE	Hz	P-102	IN TK RECIRC VFD		24.94	55.00	29.96	29.92
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y	Y	Y	Y
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		59 gal/31"	49 gal/26"	43 gal/23"	42 gal/22"
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		8	10 gal	42 gal	1 gal.
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		—	36 gal	—	—
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y	Y	Y	Y
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y	Y	Y	Y
COAGULANT LEVEL	% Full	T-202	COAG TANK		39 gal/31"	36 gal 20"	30 gal/16"	29 gal/15"
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16	16	16	16
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y	Y	Y	Y
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y	Y	Y	Y
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		23 gal 15"	7 1/2 gal 14"	6 1/2 gal/12"	6 1/2 gal/12"
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	1.00	1.00	1.00
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y	Y	Y	Y
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y	Y	Y	Y
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y	Y	Y	Y

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/1/19	8/2/19	8/5/19	8/6/19
				TIME:	1400	1400	1400	1400
				INITIALS:	SS	SS	SS	SS
					114	—	—	—
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		114	—	—	—
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		38"	—	31"	37"
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		N	N	N	N
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		35	—	—	—
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		27	—	—	—
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		Y	Y	Y	Y
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		35	34.99	35	35.00
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		27	29"	28"	27
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		10%	10%	15%	10%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		50%	60%	50%	55%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N	Y	N	N
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		—	—	—	—
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y	Y	Y	Y
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		0.43	0.453	0.412	0.412
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		9"	12"	15"	9"
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y	Y	Y	Y
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		N	Y	N	Y
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		21	20	23	22
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		17	16	18	19
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		4	4	5	3
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y	Y	Y	Y
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		N	Y	Y	N
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		—	—	—	15
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		18	18	—	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		—	—	—	5
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

**OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK**

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/1/19	8/2/19	8/5/19	8/6/19
				TIME:	1400	1400	1400	1400
				INITIALS:	SS	SS	SS	SS
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		N	Y	N	Y
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		7	7	7	8
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		12	12	12	12
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		5	5	5	4
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		N	Y	Y	N
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		12	12	13	12
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		24	14	14	14
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		12	2	1	2
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		N	EN	N	N
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		—	—	—	—
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		N	Y	Y	Y
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE		—	66	69	65
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)								
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		—	58.66	49.23	
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW		244,465	288,215	408,360	447,580
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		98.81	77.96	72.49	99.66
pH METER	SU	AIT-107	EFF. pH		7.59	7.52	7.84	7.75
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING		—	—	—	—
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		0.38	0.38	0.39	0.39
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL		39"	35"	15"	12"
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		N	N	N	N
VFD RATE	Hz	P-401	IRRIGATION SYSTEM		N	N	N	N
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		N	N	N	N
BUILDING SYSTEM COMPONENTS								
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		Y	Y	Y	Y
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		Y	Y	Y	Y
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		N	N	N	N
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		77	77	77	77
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		Y	Y	Y	Y
GENERAL COMMENTS					Aug 3-5 - Corrosion pumped 42 gal over weekend. pH - 8.2-3 in effluent tank 8/5			

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/7/19	8/8/19	8/9/19	8/12/19
				TIME:	1400	1430	1400	1400
				INITIALS:	JS	JS	JS	JS
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y	Y	Y	Y
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y	Y	Y	Y
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N	N	N	N
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		27.45	27.48	27.68	25.24
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		19.92	21.45	22.64	21.18
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		—	—	—	—
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		57.88	30.10	33.36	30.27
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,384,300	12,401,100	12,435,400	12,509,250
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		538,800	557,100	576,100	627,900
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640,040	640,040	640,040	640,040
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		1,327,400	1,368,900	1,413,800	1,536,100
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y	Y	Y	Y
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		4	4	5	4
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50	50	50	50
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.45	7.50	7.49	7.81
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		N	N	Y	Y
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		49.7	58.09	86.98	64.45
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y	Y	Y	Y
VFD RATE	Hz	P-102	IN TK RECIRC VFD		30	24.92	24.92	24.93
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y	Y	Y	Y
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		21"	20"	17	38"
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		40	38	32	3873
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		2 gal	2 gal	6	12
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y	Y	Y	Y
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y	Y	Y	Y
COAGULANT LEVEL	% Full	T-202	COAG TANK		26 gal/15"	25 gal/14"	25 gal/13"	25 gal/41"
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16 mg/l	16	16	16
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y	Y	Y	Y
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y	Y	Y	Y
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		12 gal/6 gal	6 gal/12"	6 gal/11"	5 gal/9 1/2"
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	1.00	1.00	1.00
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y	Y	Y	Y
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y	Y	Y	Y
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y	Y	Y	Y

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/3/19	8/8/19	8/9/19	8/12/19
				TIME:	1400	1400	1400	1400
				INITIALS:	SS	DS	DS	SS
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		-	-	-	-
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		24"	2, 8"	20"	
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		N	N	N	N
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		-	-	-	-
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		-	-	-	-
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		Y	Y	Y	Y
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		35	35	35	35
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		28	28	30	28
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		10%	10%	10%	10%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		60%	60%	60%	50%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N	N	N	N
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		-	-	-	-
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y	Y	Y	Y
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		0.412	0.412	0.422	0.422
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		9"	8"	16"	
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y	Y	Y	Y
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		N	N	Y	N
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		22	22	24	23
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		19	19	20	28/19
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		3	3	4	14/9.5
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y	Y	Y	Y
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		Y	N	N	Y
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		13	9	15	12
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		20	20	20	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		7	11	5	8
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

**OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK**

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/7/19	8/8/19	8/9/19	8/12/19
				TIME:	1400	1400	1400	1400
				INITIALS:	DS	DS	DS	DS
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		N	N	Y	N
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		8	7	7	7
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		13	12	12	12
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		5	5	5	5
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		Y	N	N	Y
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		12	11	12	12
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		15	14	14	14
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		3	3	2	2
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		N	N	N	N
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		-	-	-	-
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		Y	N	N	N
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE		65	-	65	75
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)								
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		55.5	56.61	32.67	25.39
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW		485,100	519,500	255,700 658,700	
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		99.91	92.65	103.53	71.78
pH METER	SU	AIT-107	EFF. pH		7.74	7.80	7.89	8.03
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING		-	-	-	-
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		0.39	0.39	0.39	0.39
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL		37"	12"	34"	12"
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		N	N	N	N
VFD RATE	Hz	P-401	IRRIGATION SYSTEM		N	N	N	N
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		N	N	N	N
BUILDING SYSTEM COMPONENTS								
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		Y	Y	Y	Y
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		Y	Y	Y	Y
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		N	N	N	N
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		75	75	77	75
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		Y	Y	Y	Y
GENERAL COMMENTS					1. 557,600			

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/13/19	8/14/19	8/15/19	8/16/19
				TIME:	1400	1400	1400	1400
				INITIALS:	DS	DS	DS	DS
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y	Y	Y	Y
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y	Y	Y	Y
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N	N	N	N
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		24.88	24.42	24.24	23.41
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		20.17	19.77	18.64	17.95
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		—	—	—	—
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		28.44	31.47	26.33	26.14
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,534,000	12,557,600	12,580,600	12,605,900
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		644,800	661,000	676,300	694,100
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		—	—	—	—
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		15,778,500	1,617,000	16,54,800	1,695,300
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y	Y	Y	Y
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		4	4	3	3
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50	50	50	50.00
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.55	7.83	7.52	7.50
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Y	N	N	Y
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		44.71	58.12	26.75	34.01
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y	Y	Y	Y
VFD RATE	Hz	P-102	IN TK RECIRC VFD		25.00	25.00	25.00	24.94
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y	Y	Y	Y
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		69 gal/36"	65 gal/34"	61 gal/32"	58 gal/31"
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		4	4	4	3
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		—	—	—	—
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y	Y	Y	Y
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y	Y	Y	Y
COAGULANT LEVEL	% Full	T-202	COAG TANK		75 gal/40"	73 gal/39"	71 gal/39"	70 gal/37"
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16	16	16	16
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y	Y	Y	Y
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y	Y	Y	Y
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		5 gal/9"	4 1/2. 9"	4 gal/8"	4 gal/8"
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	1.00	1.00	1.00
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y	Y	Y	Y
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y	Y	Y	Y
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y	Y	Y	Y

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/13/19	8/14/19	8/15/19	
				TIME:	1400	1400	1400	
				INITIALS:	SS	SS	SS	
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		-	-	-	-
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		22"	39"	39"	33"
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		N	N	N	N
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		-	-	-	-
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		-	-	-	-
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		Y	Y	Y	Y
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		35	35	35	35
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		27	27	30	30
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		10%	10%	10%	10%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		50%	60%	60%	60%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N	N	N	N
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		-	-	-	-
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y	Y	Y	Y
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		0.422	0.422	0.422	0.422
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK			10"	9"	11
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y	Y	Y	Y
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		Y	N	N	N
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		22	22	24	24
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		18	19	20	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		4	3	4	4
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y	Y	Y	Y
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		N	Y	N	N
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		-	-	14	16
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		20	20	20	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		-	-	4	4
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
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PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	TIME:	INITIALS:
				8/13/19	1400	SS
				8/14/19	1400	SS
				8/15/19	1400	SS
				8/16/19	1400	SS
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER			Y
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER			N
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF			7
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK			12.
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL			5
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER			Y
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER			N
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF			12
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK			14
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL			2
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.			N
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE			-
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.			Y
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE			65
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)						
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS			51.41
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW			693,300
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL			89.39
pH METER	SU	AIT-107	EFF. pH			7.87
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING			-
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY			0.39
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL			34
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM			N
VFD RATE	Hz	P-401	IRRIGATION SYSTEM			-
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL			N
BUILDING SYSTEM COMPONENTS						
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS			Y
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS			Y
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS			N
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP			77
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR			Y
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR			Y
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR			Y
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS			Y
GENERAL COMMENTS						

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/19/19	8/20/19	8/21/19	8/22/19
				TIME:	1400	1400	1400	1400
				INITIALS:	DS	DS	DS	DS
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y	Y	Y	Y
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y	Y	Y	Y
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N	N	N	N
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		25.41	26.52	25.42	26.20
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		15.80	18.19	18.06	19.16
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		-	-	-	-
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		28.28	25.07	31.21	27.17
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,680,580	12,703,000	12,728,300	12,753,500
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		743,600	758,500	775,300	791,500
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640,040	640,040	640,040	640,040
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		1,813,000	1,850,000	1,887,800	1,928,200
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y	Y	Y	Y
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		4	3	5	4
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50	50.00	50.00	50.00
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.49	7.81	7.47	7.92
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Y	N	N	N
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		49.35	23.48	73.14	41.47
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y	Y	Y	Y
VFD RATE	Hz	P-102	IN TK RECIRC VFD		25	25.00	24.96	25.00
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y	Y	Y	Y
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		45 gal/24"	44 gal/23"	43 gal/23"	42 gal/22"
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		13 gal	1 gal	1 gal	1 gal
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		-	-	-	-
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y	Y	Y	Y
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y	Y	Y	Y
COAGULANT LEVEL	% Full	T-202	COAG TANK		66 gal/35"	65 gal/25"	64 gal/34"	62 gal/33"
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16	16	16	16
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y	Y	Y	Y
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y	Y	Y	Y
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		3 1/2 gal/7"	3 gal/6"	8 gal/15"	7 1/2 gal/14"
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	1.00	1.00	1.00
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y	Y	Y	Y
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y	Y	Y	Y
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y	Y	Y	Y

OPERATIONS LOG SHEET
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				TIME:	1400	1400	1400	1400
				INITIALS:	DS	DS	DS	DS
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		-	-	-	-
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		30"	36"	35"	33"
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		XN	N	N	N
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		-	-	-	-
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		-	-	-	-
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		Y	Y	Y	Y
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		35.00	3500	35.00	35
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		30	31	31	37
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		10%	10%	10%	10%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		60%	60%	70%	70%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N	N	N	N
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		-	-	-	-
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y	Y	Y	Y
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		0.575	0.575	0.575	0.575
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		16"	11"	12"	11"
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y	Y	Y	Y
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		25	25	25	31
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		20	21	21	19
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		5	4	4	12
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y	Y	Y	Y
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		25	25	25	31
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		20	21	21	20
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		5	4	4	11
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER					
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

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SCHENECTADY, NEW YORK

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				TIME:	1400	1400	1400	1400
				INITIALS:	SS	SS	SS	SS
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		7-10	(20) (2)	7 (20)	19 (6)
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		14	14	12.	11
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		- 7	6.	8	8
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		Y	Y	Y	Y
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		11	(20)	11 (20)	(10) 20
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		14	12.	14.	13
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		- 3	8	6	7
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		N	N	N	N
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		-	-	-	-
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		N	N	N	N
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE		-	-	-	-
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)								
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		55.18	54.68	54.45	50.50
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW		887,300	916,400	947,300	980,200
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		102.25	105.31	83.81	71.73
pH METER	SU	AIT-107	EFF. pH		7.64	7.55	7.50	7.57
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING		-	-	-	-
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		0.40	0.40	0.40	0.40
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL		38"	25"	15"	14"
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		N	N	N	N
VFD RATE	Hz	P-401	IRRIGATION SYSTEM		-	-	-	-
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		N	N	N	N
BUILDING SYSTEM COMPONENTS								
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		Y	Y	Y	Y
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		Y	Y	Y	Y
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		N	N	N	N
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		77	77	77	77
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Y	Y	Y	Y
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		Y	Y	Y	Y
GENERAL COMMENTS					① carbon filter gauges not working - jammed w/ carbon. ② Assuming inlet on carbon = 1/2 SAND FILTER OUTLET			

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:				
				TIME:	8/30/19			
				INITIALS:	SS			
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y			
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y			
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N			
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		22.90			
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		23.81			
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		-			
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		27.99			
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,939,400			
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		910,000			
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640,040			
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		2,226,700			
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y			
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		349.98			
VFD RATE	Hz	B-101	INF TK BLOWER VFD		49.98			
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.49			
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y			
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Y			
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		48.42			
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y			
VFD RATE	Hz	P-102	IN TK RECIRC VFD		24.92			
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y			
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		51 gal 27"			
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		2			
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		-			
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y			
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y			
COAGULANT LEVEL	% Full	T-202	COAG TANK		51 gal 27 1/2"			
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK					
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y			
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y			
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		6.7 gal 12.75"			
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00			
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y			
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y			
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y			

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:				
				TIME:				
				INITIALS:				
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		8/29/19			
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		1400			
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		SS			
VFD RATE	HZ	P-104A	PUMP RATE TO FILTRATION		-			
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		25"			
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		N			
VFD RATE	HZ	P-104B	PUMP RATE TO FILTRATION		-			
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		-			
					Y			
					50.01			
					30			
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		20%			
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		70%			
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N			
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		-			
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y			
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		0.417			
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		14"			
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y			
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		Y			
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		22			
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		14			
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		8			
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y			
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		Y			
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		22			
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		14			
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		8			
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N			
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		N			
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:			
				TIME:			
				INITIALS:			
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER		8/29/19		
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER		1400		
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF		SS		
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK		Y		
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		N		
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER		14		
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER		13		
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF		1		
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK		Y		
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL		N		
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.		14		
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE		14		
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.		-		
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE		N		
BACKWASH PUMP C RUN	Y/N	P-305C	BACKWASH PUMP TO FILT.		-		
BACKWASH PRESSURE	PSI	PI-305C	BACKWASH PRESSURE		Y		
BACKWASH PUMP D RUN	Y/N	P-305D	BACKWASH PUMP TO FILT.		93		
BACKWASH PRESSURE	PSI	PI-305D	BACKWASH PRESSURE				
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)							
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS		49.49		
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW		1,223.500		
EFFLUENT TANK LEVEL	inwc	T-107	TANK LEVEL		100.89		
pH METER	SU	AIT-107	EFF. pH		7.70		
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING		-		
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY		0.40		
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL		17"		
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM		N		
VFD RATE	Hz	P-401	IRRIGATION SYSTEM		-		
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL		Y		
BUILDING SYSTEM COMPONENTS							
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS		Y/N		
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS		N		
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS		Y		
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP		Y		
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR		Y		
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR		Y		
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR		Y		
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS		Y		
GENERAL COMMENTS							

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/23/19	8/27/19	8/28/19	8/29/19
				TIME:	1400	1400	1400	1800
				INITIALS:	SS	SS	SS	SS
SEEP COLLECTION PUMP STATIONS (SEEP 1 - 4, SEEP 5 AND SEEP 6)								
SEEP 1 - 4 PUMP RUN	Y/N	P-100A	SEEP 1-4 P-STATION PUMP		Y	Y	Y	Y
SEEP 5 PUMP RUN	Y/N	P-100B	SEEP 5 P-STATION PUMP		Y	Y	Y	Y
SEEP 6 PUMP RUN	Y/N	P-100C	SEEP 6 P-STATION PUMP		N	N	N	N
INFLUENT TANK (T-101)								
FLOW METER - 100A (FM-A)	GPM	FQIT-100A	S1-4 IN-FLOW		24.71	21.66	21.48	22.57
FLOW METER - 100B (FM-B)	GPM	FQIT-100B	S5 IN-FLOW		20.10	23.76	25.36	24.71
FLOW METER - 100C (FM-C)	GPM	FQIT-100C	S6 IN-FLOW		—	—	—	—
FLOW METER - 101	GPM	FQIT-101	INF TK OUT-FLOW		26.75	31.71	24.96	26.05
FLOW METER - 100A	TOTAL	FQIT-100A	S1-4 IN-FLOW		12,777,500	12,873,500	12,894,700	12,917,300
FLOW METER - 100B	TOTAL	FQIT-100B	S5 IN-FLOW		640,040	868,900	882,200	896,100
FLOW METER - 100C	TOTAL	FQIT-100C	S6 IN-FLOW		640,040	—	—	—
FLOW METER - 101	TOTAL	FQIT-101	INF TK OUT-FLOW		1,965,900	2,120,900	2,155,000	2,190,700
BLOWER RUNNING	Y/N	B-101	INF TK BLOWER		Y	Y	Y	Y
BLOWER PRESSURE	PSI	PI-101	INF TK BLOWER PRESS.		4	4	3	3
VFD RATE	Hz	B-101	INF TK BLOWER VFD		50.03	50	50.00	50.00
INF Ph	SU	AIT-101	pH FOR INF. WATER		7.65	7.62	7.66	7.67
pH Probe checked	Y/N	AIT-101	pH Probe at influent tank		Y	Y	Y	Y
pH Probe clean (1X/week min)	Y/N	AIT-101	pH Probe at influent tank		Y	Y	N	Y
INF TANK LEVEL	inwc	T-101	LEVEL TRANSMIT.		37.55	44.61	24.94	19.82
RECIRC PUMP RUNNING	Y/N	P-102	IN TK RECIRC PUMP		Y	Y	Y	Y
VFD RATE	Hz	P-102	IN TK RECIRC VFD		25	25	25	25
CAUSTIC PUMP RUNNING	Y/N	P-201	IN TK CAUSTIC ADD		Y	Y	Y	Y
CAUSTIC TANK LEVEL	L	T-201	IN TK CAUSTIC ADD		41 gal/22"	55 gal/29"	54 gal/28"	53 gal/28"
CAUSTIC USAGE	GAL	T-201	CAUSTIC USAGE		1	16	1	1
CAUSTIC USAGE	TOT	T-201	CAUSTIC USAGE		—	—	—	—
CLARIFIER SYSTEM (T-103B)								
FLASH MIX TANK MIXER RUN.	Y/N	M-102	COAG MIXER		Y	Y	Y	Y
COAGULANT PUMP RUNNING	Y/N	P-202	COAG PUMP		Y	Y	Y	Y
COAGULANT LEVEL	% Full	T-202	COAG TANK		60 gal/32"	55 gal/30"	54 gal/29"	53 gal/28"
COAGULANT DOSE RATE	mg/l	FE-202	COAG FLOW TO TANK		16	16	16	16
FLOC TANK MIXER RUNNING	Y/N	M-103A	FLOC MIXER		Y	Y	Y	Y
FLOCCULANT PUMP RUNNING	Y/N	P-203	FLOC PUMP		Y	Y	Y	Y
FLOC LEVEL	% Full	T-203	FLOC TANK LEVEL		7.5/15"	7.0/14"	6.9 gal/14"	6.8 gal/13"
FLOCCULANT DOSE RATE	GPM	FE-203	DILUTED FLOC TO FLOC MIX TK		1.00	1.00	1.00	1.00
CLARIFIER RAKE MIXER RUN.	Y/N	M-103B	CLARIFIER MIXER		Y	Y	Y	Y
CLARIFIER SLUDGE PUMP RUN.	Y/N	P-103	SLUDGE PUMP TO GEOTUBE		Y	Y	Y	Y
AIR COMPRESSOR RUNNING	Y/N	C-302	SLUDGE PUMP POWER		Y	Y	Y	Y

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	8/23/19	8/24/19	8/28/19	8/29/19
				TIME:	1200	1400	1200	1400
				INITIALS:	DS	SS	SS	SS
AIR COMPRESSOR PRESSURE	PSI	PI-302	AIR COMP. PRESSURE		—	—	—	—
CLARIFIER EFF TANK LEVEL	FEET	T-104	GRAVITY TANK POST CLAR.		23"	28"	41"	30"
CLARIFIER EFF PUMP A RUN	Y/N	P-104A	PUMP TO FILTRATION		N	N	N	N
VFD RATE	Hz	P-104A	PUMP RATE TO FILTRATION		—	—	—	—
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104A	PUMP PRESSURE TO FILT.		—	—	—	—
CLARIFIER EFF PUMP B RUN	Y/N	P-104B	PUMP TO FILTRATION		Y	Y	Y	Y
VFD RATE	Hz	P-104B	PUMP RATE TO FILTRATION		50.00	50.00	50.00	50.00
CLARIFIER EFF. PUMP PRESSURE	PSI	PI-104B	PUMP PRESSURE TO FILT.		36	30	32	36
GEOTUBE SYSTEM								
GEOTUBE CONTAINER 1 LEVEL	EST.	G-101	GEOTUBE DEWATERING BOX		10%	10%	10%	10%
GEOTUBE CONTAINER 2 LEVEL	EST.	G-102	GEOTUBE DEWATERING BOX		70%	80%	80%	75%
GEOTUBE DISPOSAL	Y/N	G-101/G-102	GEOTUBE DEWATERING BOX		N	N	N	N
GEOTUBE DISPOSAL QTY	TON	G-101/G-102	WEIGHT OF MATERIAL DISPOSED		—	—	—	—
POLYMER PUMP RUNNING	Y/N	P-205	POLY ADD TO SLUDGE		Y	Y	Y	Y
POLYMER DOSE	GPM	FE-205	POLY FLOW TO SLUDGE		100	1.00	0.50	0.50
POLYMER TANK LEVEL	% Full	T-205	POLYMER LEVEL IN TANK		10"	8"	16"	13"
FILTRATION SYSTEM								
SAND FILTER A IN-USE	Y/N	TA-105A	SAND FILTER		Y	Y	Y	Y
SAND FILTER A BACKWASH	Y/N	TA-105A	SAND FILTER		N	Y	N	N
INLET PRESSURE	PSI	PI-105A/PI-703	INLET PRESSURE TO SAND		31	21	25	29
OUTLET PRESSURE	PSI	PDSH-105A	OUTLET PRESS. TO BAG FIL.		13	13	14	13
PRESSURE DIFFERENTIAL	PSI	PDSH-105A	PRESSURE DIFFERENTIAL		18	8	11	16
SAND FILTER B IN-USE	Y/N	TA-105B	SAND FILTER		Y	Y	Y	Y
SAND FILTER B BACKWASH	Y/N	TA-105B	SAND FILTER		Y	Y	N	N
INLET PRESSURE	PSI	PI-105B/PI-703	INLET PRESSURE TO SAND		30	22	26	30
OUTLET PRESSURE	PSI	PDSH-105B	OUTLET PRESS. TO BAG FIL.		12	14	14	14
PRESSURE DIFFERENTIAL	PSI	PDSH-105B	PRESSURE DIFFERENTIAL		18	8	12	16
BAG FILTER 701 IN-USE	Y/N	F-701A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-701A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-701A	PRESSURE DIFFERENTIAL					
BAG CHANGES	Y/N	F-701A	BAG FILTER					
BAG FILTER 702 IN-USE	Y/N	F-702A	10, 5 and 1 MICRON BAG FILTER		N	N	N	N
INLET PRESSURE	PSI	PI-702A	INLET PRESSURE IN BF					
OUTLET PRESSURE	PSI	PI-704	OUTLET PRESSURE IN BF					
PRESSURE DIFFERENTIAL	PSI	PDSH-702A	PRESSURE DIFFERENTIAL					
BAG CHANGE	Y/N	F-702A	BAG FILTER					

OPERATIONS LOG SHEET
ENHANCED SEEP COLLECTION SYSTEM
GENERAL ELECTRIC MAIN PLANT
SCHENECTADY, NEW YORK

PARAMETER	UNITS	EQUIPMENT TAG	DESCRIPTION	DATE:	TIME:	INITIALS:
				8/23/19	1400	SS
				8/27/19	1400	SS
				8/28/19	1400	SS
				8/29/19	1400	SS
CARBON FILTER 1 IN-USE	Y/N	TA-106A	CARBON FILTER			Y
CARBON FILTER 1 BACKWASH	Y/N	TA-106A	CARBON FILTER			N
INLET PRESSURE	PSI	PI-106A	INLET PRESSURE FROM BF			14 (14)
OUTLET PRESSURE	PSI	PI-106B	OUTLET PRESS. TO EFF-TK			12
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL			2
CARBON FILTER 2 IN-USE	Y/N	TA-106B	CARBON FILTER			Y
CARBON FILTER 2 BACKWASH	Y/N	TA-106B	CARBON FILTER			N
INLET PRESSURE	PSI	PI-106B	INLET PRESSURE FROM BF			14 (4)
OUTLET PRESSURE	PSI		OUTLET PRESS. TO EFF-TK			13
PRESSURE DIFFERENTIAL	PSI		PRESSURE DIFFERENTIAL			1
BACKWASH PUMP A RUN	Y/N	P-305A	BACKWASH PUMP TO FILT.			N
BACKWASH PRESSURE	PSI	PI-305A	BACKWASH PRESSURE			-
BACKWASH PUMP B RUN	Y/N	P-305B	BACKWASH PUMP TO FILT.			N
BACKWASH PRESSURE	PSI	PI-305B	BACKWASH PRESSURE			-
EFFLUENT AND FINAL HOLDING TANK (T-107 AND T-401)						
EFFLUENT FLOW METER	GPM	FQIT-107	FLOW RATE FROM FILTERS			51.59
EFF. FLOW METER TOTAL	TOT.	FQIT-107	TOTAL FLOW			1,011,700
EFFLUENT TANK LEVEL	Inwc	T-107	TANK LEVEL			106.47
pH METER	SU	AIT-107	EFF. pH			7.49
DISSOLVED OXYGEN (DOM-107)	DO	AIT-107A	EFF. DO READING			-
TURBIDITY (TBM-107)	NTU	AIT-107B	EFF. TURBIDITY			0.40
FINAL HOLDING TANK LEVEL	FEET	T-401	FH TK LEVEL			39"
IRRIG. PUMP RUNNING	Y/N	P-401	IRRIGATION SYSTEM			N
VFD RATE	Hz	P-401	IRRIGATION SYSTEM			-
GRAVITY OUTFALL IN-USE	Y/N	OF-101	OUTFALL TO POENTIC KILL			Y
BUILDING SYSTEM COMPONENTS						
EXHAUST FAN NW IN-USE	Y/N	EF-1	EXHAUST FANS			Y
EXHAUST FAN NE IN-USE	Y/N	EF-2	EXHAUST FANS			Y
BUILDING HEATERS IN-USE	Y/N	UH-1-8	HEATERS			N
BUILDING TEMPERATURE	DEG. F		BLDG. TEMP			77
OVERHEAD DOOR SW OPER.	Y/N		OVERHEAD DOOR			Y
OVERHEAD DOOR NE OPER.	Y/N		OVERHEAD DOOR			Y
OVERHEAD DOOR SE OPER.	Y/N		OVERHEAD DOOR			Y
BLDG CONT SYS OPERATIONAL	Y/N		REMOTE TELEMETRY SYS			Y
GENERAL COMMENTS						

Analytical Data for Seep Collection & Treatment System

ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY

Pace Project No.: 7099748

Sample: EFFLUENT		Lab ID: 7099748001	Collected: 08/01/19 14:00		Received: 08/02/19 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 GCSV PCB LOW		Analytical Method: EPA 608.3 Preparation Method: EPA 608.3						
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	08/07/19 12:14	08/07/19 16:43	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	29	%	10-149	1	08/07/19 12:14	08/07/19 16:43	877-09-8	
Decachlorobiphenyl (S)	53	%	10-149	1	08/07/19 12:14	08/07/19 16:43	2051-24-3	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	08/05/19 09:00	08/07/19 13:41	7429-90-5	
Iron	133	ug/L	100	1	08/05/19 09:00	08/07/19 13:41	7439-89-6	
Lead	<5.0	ug/L	5.0	1	08/05/19 09:00	08/07/19 13:41	7439-92-1	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<2.0	mg/L	2.0	1	08/02/19 16:16	08/07/19 11:35		
5210B cBOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	08/02/19 16:16	08/07/19 11:33		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	1.8	mg/L	0.10	1	08/06/19 06:00	08/06/19 12:42	7727-37-9	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY

Pace Project No.: 7099748

Sample: EFFLUENT	Lab ID: 7099748002	Collected: 08/01/19 14:00	Received: 08/02/19 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/02/19 19:08	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		08/02/19 19:08	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		08/02/19 19:08	100-41-4	
Toluene	<1.0	ug/L	1.0	1		08/02/19 19:08	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		08/02/19 19:08	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		08/02/19 19:08	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	79-124	1		08/02/19 19:08	460-00-4	
Toluene-d8 (S)	100	%	69-127	1		08/02/19 19:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	68-153	1		08/02/19 19:08	17060-07-0	
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	714	mg/L	20.0	1		08/07/19 10:28		
2540D Total Suspended Solids	Analytical Method: SM22 2540D							
Total Suspended Solids	4.8	mg/L	2.0	1		08/05/19 14:03		

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY

Pace Project No.: 7099748

Sample: TRIP BLANK		Lab ID: 7099748003		Collected: 08/01/19 14:00		Received: 08/02/19 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/02/19 18:50	71-43-2		
Chlorobenzene	<1.0	ug/L	1.0	1		08/02/19 18:50	108-90-7		
Ethylbenzene	<1.0	ug/L	1.0	1		08/02/19 18:50	100-41-4		
Toluene	<1.0	ug/L	1.0	1		08/02/19 18:50	108-88-3		
m&p-Xylene	<1.0	ug/L	1.0	1		08/02/19 18:50	179601-23-1		
o-Xylene	<1.0	ug/L	1.0	1		08/02/19 18:50	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-124	1		08/02/19 18:50	460-00-4		
Toluene-d8 (S)	102	%	69-127	1		08/02/19 18:50	2037-26-5		
1,2-Dichloroethane-d4 (S)	95	%	68-153	1		08/02/19 18:50	17060-07-0		

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ANALYTICAL RESULTS

Project: GE MAIN PLT FACILITY WKLY 8/8

Pace Project No.: 70100611

Sample: EFFLUENT		Lab ID: 70100611001	Collected: 08/08/19 14:00	Received: 08/09/19 10:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 GCSV PCB LOW		Analytical Method: EPA 608.3 Preparation Method: EPA 608.3						
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	08/16/19 14:47	08/16/19 19:26	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	45	%	10-149	1	08/16/19 14:47	08/16/19 19:26	877-09-8	
Decachlorobiphenyl (S)	52	%	10-149	1	08/16/19 14:47	08/16/19 19:26	2051-24-3	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	08/12/19 10:24	08/13/19 11:22	7429-90-5	
Iron	110	ug/L	100	1	08/12/19 10:24	08/13/19 11:22	7439-89-6	
Lead	<5.0	ug/L	5.0	1	08/12/19 10:24	08/13/19 11:22	7439-92-1	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<2.0	mg/L	2.0	1	08/09/19 16:28	08/14/19 11:29		
5210B cBOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	08/09/19 16:27	08/14/19 11:26		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	1.6	mg/L	0.10	1	08/12/19 09:23	08/13/19 08:43	7727-37-9	

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ANALYTICAL RESULTS

Project: GE MAIN PLT FACILITY WKLY 8/8

Pace Project No.: 70100611

Sample: EFFLUENT	Lab ID: 70100611002		Collected: 08/08/19 14:00		Received: 08/09/19 10:25		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/09/19 18:53	71-43-2	
Chlorobenzene	1.4	ug/L	1.0	1		08/09/19 18:53	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		08/09/19 18:53	100-41-4	
Toluene	<1.0	ug/L	1.0	1		08/09/19 18:53	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		08/09/19 18:53	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		08/09/19 18:53	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	79-124	1		08/09/19 18:53	460-00-4	
Toluene-d8 (S)	96	%	69-127	1		08/09/19 18:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	118	%	68-153	1		08/09/19 18:53	17060-07-0	
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	640	mg/L	20.0	1		08/14/19 10:23		
2540D Total Suspended Solids	Analytical Method: SM22 2540D							
Total Suspended Solids	<2.0	mg/L	2.0	1		08/14/19 14:55		

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ANALYTICAL RESULTS

Project: GE MAIN PLT FACILITY WKLY 8/8

Pace Project No.: 70100611

Sample: TRIP BLANK		Lab ID: 70100611003		Collected: 08/08/19 14:00		Received: 08/09/19 10:25		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1			08/09/19 18:35	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1			08/09/19 18:35	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1			08/09/19 18:35	100-41-4	
Toluene	<1.0	ug/L	1.0	1			08/09/19 18:35	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1			08/09/19 18:35	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1			08/09/19 18:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	79-124	1			08/09/19 18:35	460-00-4	
Toluene-d8 (S)	95	%	69-127	1			08/09/19 18:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	116	%	68-153	1			08/09/19 18:35	17060-07-0	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70101615

Sample: EFFLUENT		Lab ID: 70101615001	Collected: 08/15/19 14:00	Received: 08/16/19 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 GCSV PCB LOW		Analytical Method: EPA 608.3 Preparation Method: EPA 608.3						
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	08/20/19 09:33	08/20/19 18:58	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	65	%	10-149	1	08/20/19 09:33	08/20/19 18:58	877-09-8	
Decachlorobiphenyl (S)	84	%	10-149	1	08/20/19 09:33	08/20/19 18:58	2051-24-3	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	08/19/19 11:30	08/22/19 09:59	7429-90-5	
Iron	113	ug/L	100	1	08/19/19 11:30	08/22/19 09:59	7439-89-6	
Lead	<5.0	ug/L	5.0	1	08/19/19 11:30	08/22/19 09:59	7439-92-1	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<2.0	mg/L	2.0	1	08/17/19 11:11	08/22/19 10:26		
5210B cBOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	08/17/19 11:11	08/22/19 10:24		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	1.6	mg/L	0.10	1	08/22/19 06:00	08/22/19 13:26	7727-37-9	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70101615

Sample: EFFLUENT	Lab ID: 70101615002		Collected: 08/15/19 14:00		Received: 08/16/19 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics	Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/16/19 19:26	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1		08/16/19 19:26	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1		08/16/19 19:26	100-41-4	
Toluene	<1.0	ug/L	1.0	1		08/16/19 19:26	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1		08/16/19 19:26	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1		08/16/19 19:26	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	94	%	79-124	1		08/16/19 19:26	460-00-4	
Toluene-d8 (S)	95	%	69-127	1		08/16/19 19:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	68-153	1		08/16/19 19:26	17060-07-0	
2540C Total Dissolved Solids	Analytical Method: SM22 2540C							
Total Dissolved Solids	626	mg/L	20.0	1		08/21/19 10:12		
2540D Total Suspended Solids	Analytical Method: SM22 2540D							
Total Suspended Solids	2.0	mg/L	2.0	1		08/21/19 13:37		

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY

Pace Project No.: 70101615

Sample: TRIP BLANK		Lab ID: 70101615003		Collected: 08/15/19 14:00		Received: 08/16/19 10:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1			08/16/19 19:06	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1			08/16/19 19:06	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1			08/16/19 19:06	100-41-4	
Toluene	<1.0	ug/L	1.0	1			08/16/19 19:06	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1			08/16/19 19:06	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1			08/16/19 19:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	79-124	1			08/16/19 19:06	460-00-4	
Toluene-d8 (S)	96	%	69-127	1			08/16/19 19:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	68-153	1			08/16/19 19:06	17060-07-0	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY 8

Pace Project No.: 70102532

Sample: EFFLEUNT		Lab ID: 70102532001	Collected: 08/22/19 14:00	Received: 08/23/19 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 GCSV PCB LOW		Analytical Method: EPA 608.3 Preparation Method: EPA 608.3						
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	08/23/19 11:32	08/26/19 13:53	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	64	%	10-149	1	08/23/19 11:32	08/26/19 13:53	877-09-8	
Decachlorobiphenyl (S)	91	%	10-149	1	08/23/19 11:32	08/26/19 13:53	2051-24-3	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	08/27/19 10:07	08/30/19 11:14	7429-90-5	
Iron	176	ug/L	100	1	08/27/19 10:07	08/30/19 11:14	7439-89-6	
Lead	<5.0	ug/L	5.0	1	08/27/19 10:07	08/30/19 11:14	7439-92-1	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<2.0	mg/L	2.0	1	08/23/19 16:30	08/28/19 12:46		
5210B cBOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	08/23/19 16:30	08/28/19 12:43		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	1.4	mg/L	0.10	1	08/30/19 05:22	08/30/19 12:23	7727-37-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY 8

Pace Project No.: 70102532

Sample: EFFLEUNT		Lab ID: 70102532002		Collected: 08/22/19 14:15		Received: 08/23/19 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/23/19 18:54	71-43-2		
Chlorobenzene	<1.0	ug/L	1.0	1		08/23/19 18:54	108-90-7		
Ethylbenzene	<1.0	ug/L	1.0	1		08/23/19 18:54	100-41-4		
Toluene	<1.0	ug/L	1.0	1		08/23/19 18:54	108-88-3		
m&p-Xylene	<1.0	ug/L	1.0	1		08/23/19 18:54	179601-23-1		
o-Xylene	<1.0	ug/L	1.0	1		08/23/19 18:54	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	94	%	79-124	1		08/23/19 18:54	460-00-4		
Toluene-d8 (S)	99	%	69-127	1		08/23/19 18:54	2037-26-5		
1,2-Dichloroethane-d4 (S)	120	%	68-153	1		08/23/19 18:54	17060-07-0		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	612	mg/L	20.0	1		08/27/19 10:49			
2540D Total Suspended Solids		Analytical Method: SM22 2540D							
Total Suspended Solids	3.2	mg/L	2.0	1		08/28/19 11:38			

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY WEEKLY 8

Pace Project No.: 70102532

Sample: TRIP BLANK		Lab ID: 70102532003		Collected: 08/22/19 14:15		Received: 08/23/19 10:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1			08/23/19 19:13	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1			08/23/19 19:13	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1			08/23/19 19:13	100-41-4	
Toluene	<1.0	ug/L	1.0	1			08/23/19 19:13	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1			08/23/19 19:13	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1			08/23/19 19:13	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	79-124	1			08/23/19 19:13	460-00-4	
Toluene-d8 (S)	100	%	69-127	1			08/23/19 19:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	122	%	68-153	1			08/23/19 19:13	17060-07-0	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY 8/29

Pace Project No.: 70103299

Sample: EFFLUENT		Lab ID: 70103299001	Collected: 08/29/19 14:00	Received: 08/30/19 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
608.3 GCSV PCB LOW		Analytical Method: EPA 608.3 Preparation Method: EPA 608.3						
PCB-1016 (Aroclor 1016)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	11096-82-5	
PCB, Total	<0.065	ug/L	0.065	1	08/30/19 20:05	09/03/19 12:19	1336-36-3	
Surrogates								
Tetrachloro-m-xylene (S)	47	%	10-149	1	08/30/19 20:05	09/03/19 12:19	877-09-8	
Decachlorobiphenyl (S)	56	%	10-149	1	08/30/19 20:05	09/03/19 12:19	2051-24-3	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	<200	ug/L	200	1	09/03/19 11:00	09/05/19 15:36	7429-90-5	
Iron	<100	ug/L	100	1	09/03/19 11:00	09/05/19 15:36	7439-89-6	
Lead	<5.0	ug/L	5.0	1	09/03/19 11:00	09/05/19 15:36	7439-92-1	
5210B BOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
BOD, 5 day	<2.0	mg/L	2.0	1	08/30/19 15:10	09/04/19 11:15		
5210B cBOD, 5 day		Analytical Method: SM22 5210B Preparation Method: SM22 5210B						
Carbonaceous BOD, 5 day	<2.0	mg/L	2.0	1	08/30/19 15:10	09/04/19 11:13		
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	1.9	mg/L	0.10	1	09/06/19 05:55	09/06/19 14:20	7727-37-9	

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY 8/29

Pace Project No.: 70103299

Sample: EFFLUENT		Lab ID: 70103299002		Collected: 08/29/19 14:05		Received: 08/30/19 10:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1		08/30/19 16:29	71-43-2		
Chlorobenzene	<1.0	ug/L	1.0	1		08/30/19 16:29	108-90-7		
Ethylbenzene	<1.0	ug/L	1.0	1		08/30/19 16:29	100-41-4		
Toluene	<1.0	ug/L	1.0	1		08/30/19 16:29	108-88-3		
m&p-Xylene	<1.0	ug/L	1.0	1		08/30/19 16:29	179601-23-1		
o-Xylene	<1.0	ug/L	1.0	1		08/30/19 16:29	95-47-6		
Surrogates									
4-Bromofluorobenzene (S)	85	%	79-124	1		08/30/19 16:29	460-00-4		
Toluene-d8 (S)	99	%	69-127	1		08/30/19 16:29	2037-26-5		
1,2-Dichloroethane-d4 (S)	132	%	68-153	1		08/30/19 16:29	17060-07-0		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C							
Total Dissolved Solids	558	mg/L	20.0	1		09/05/19 09:25			
2540D Total Suspended Solids		Analytical Method: SM22 2540D							
Total Suspended Solids	<5.0	mg/L	5.0	1		09/05/19 11:50			

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ANALYTICAL RESULTS

Project: GE MAIN PLANT FACILITY 8/29

Pace Project No.: 70103299

Sample: TRIP BLANK		Lab ID: 70103299003		Collected: 08/29/19 13:50		Received: 08/30/19 10:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1							
Benzene	<1.0	ug/L	1.0	1			08/30/19 16:10	71-43-2	
Chlorobenzene	<1.0	ug/L	1.0	1			08/30/19 16:10	108-90-7	
Ethylbenzene	<1.0	ug/L	1.0	1			08/30/19 16:10	100-41-4	
Toluene	<1.0	ug/L	1.0	1			08/30/19 16:10	108-88-3	
m&p-Xylene	<1.0	ug/L	1.0	1			08/30/19 16:10	179601-23-1	
o-Xylene	<1.0	ug/L	1.0	1			08/30/19 16:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	79-124	1			08/30/19 16:10	460-00-4	
Toluene-d8 (S)	97	%	69-127	1			08/30/19 16:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	133	%	68-153	1			08/30/19 16:10	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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Shallow Groundwater Treatment System Analytical Data

Sample Description: P-37R-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113758
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01BKG

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	3.0 J	5.0	0.9	1
11996	Benzene	71-43-2	9.5	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	2.5	0.5	0.06	1
11996	Chloroethane	75-00-3	0.2 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	5.2	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	0.5 J	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	0.2 J	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	0.9	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.2 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	0.05 J	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	4.4	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	0.06 J	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	4.5	0.5	0.06	1
11996	Ethylbenzene	100-41-4	92	5.0	0.6	10
11996	Isopropylbenzene	98-82-8	5.7	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	3.0	0.5	0.05	1
11996	Methylene Chloride	75-09-2	0.1 J	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	20	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	0.7	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	340	5.0	1.0	10
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.4 J	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	12,000	250	150	50
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	83.3	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	5.2	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	6.5	2.0	1.0	2

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113758
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submission Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01BKG

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	486	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	486	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 23:38	Miranda Campbell	1
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 00:42	Miranda Campbell	10
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 23:37	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192202AA	08/09/2019 00:41	Miranda Campbell	10
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 09:48	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/05/2019 15:59	Connor Lent	50
00224	Chloride	EPA 300.0	1	19213987113B	08/01/2019 16:04	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213987113B	08/01/2019 15:47	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19213987113B	08/01/2019 15:47	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	3	19218304501A	08/07/2019 15:02	Bethany Sandone	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006203A	08/07/2019 02:15	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006203A	08/07/2019 02:15	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-MS Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113759
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01MS

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
	purge					
11996	Acetone	67-64-1	30	5.0	0.9	1
11996	Benzene	71-43-2	14	0.5	0.05	1
11996	2-Butanone	78-93-3	43	5.0	0.6	1
11996	Chlorobenzene	108-90-7	7.9	0.5	0.06	1
11996	Chloroethane	75-00-3	4.9	0.5	0.07	1
11996	Cyclohexane	110-82-7	9.1	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	6.0	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	5.8	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	6.3	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	5.7	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	5.4	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	5.9	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	9.9	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	5.6	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	16	0.5	0.06	1
11996	Ethylbenzene	100-41-4	65 E	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	11	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	30	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	8.0	0.5	0.05	1
11996	Methylene Chloride	75-09-2	5.1	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	5.9	0.5	0.06	1
11996	Toluene	108-88-3	26 E	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	5.7	0.5	0.06	1
11996	Trichloroethene	79-01-6	5.7	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	5.6	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	230 E	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	46	5.0	1.0	1
07105	Ethene	74-85-1	56	5.0	1.0	1
07105	Methane	74-82-8	8,300 E	5.0	3.0	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	120	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	2.6	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	31.9	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	25.6	2.0	1.0	2

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-MS Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113759
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submission Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01MS

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry						
	SM 2320 B-2011		mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	645	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 23:59	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 23:58	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 10:05	Connor Lent	1
00224	Chloride	EPA 300.0	2	19213987113B	08/03/2019 13:57	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	2	19213987113B	08/03/2019 13:40	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	2	19213987113B	08/03/2019 13:40	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	3	19218304501A	08/07/2019 15:17	Bethany Sandone	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006203A	08/07/2019 02:24	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Analysis Report

Sample Description: P-37R-073019-MSD Grab Groundwater
General Electric Schenectady Main Plant**GE-O'Brien & Gere, Inc.**
ELLE Sample #: GW 1113760
ELLE Group #: 2056307
Matrix: Groundwater**Project Name:** GE Schenectady Main Plant**Submission Date/Time:** 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01MSD

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	47	5.0	0.9	1
11996	Benzene	71-43-2	14	0.5	0.05	1
11996	2-Butanone	78-93-3	51	5.0	0.6	1
11996	Chlorobenzene	108-90-7	8.0	0.5	0.06	1
11996	Chloroethane	75-00-3	4.9	0.5	0.07	1
11996	Cyclohexane	110-82-7	9.1	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	6.0	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	5.6	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	6.3	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	5.6	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	5.2	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	5.9	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	10	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	5.6	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	16	0.5	0.06	1
11996	Ethylbenzene	100-41-4	66 E	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	11	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	35	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	8.3	0.5	0.05	1
11996	Methylene Chloride	75-09-2	5.0	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	5.8	0.5	0.06	1
11996	Toluene	108-88-3	26 E	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	5.6	0.5	0.06	1
11996	Trichloroethene	79-01-6	5.7	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	5.6	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	230 E	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	50	5.0	1.0	1
07105	Ethene	74-85-1	61	5.0	1.0	1
07105	Methane	74-82-8	8,900 E	5.0	3.0	1
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	481	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

* = This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-MSD Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113760
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01MSD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 00:20	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 00:19	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 10:22	Connor Lent	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006203A	08/07/2019 02:31	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-DUP Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113761
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-01DUP

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	82.4	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	4.6 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	6.5	2.0	1.0	2
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	469	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00224	Chloride	EPA 300.0	1	19213987113B	08/01/2019 16:38	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213987113B	08/01/2019 16:21	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19213987113B	08/01/2019 16:21	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	3	19218304501A	08/07/2019 15:32	Bethany Sandone	2
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006203A	08/07/2019 02:39	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-06-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113762
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:30
SDG#: SMP14-02

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	19 J	100	18	20
11996	Benzene	71-43-2	N.D.	10	1.0	20
11996	2-Butanone	78-93-3	N.D.	100	12	20
11996	Chlorobenzene	108-90-7	3.2 J	10	1.2	20
11996	Chloroethane	75-00-3	N.D.	10	1.4	20
11996	Cyclohexane	110-82-7	58	10	1.0	20
11996	1,2-Dichlorobenzene	95-50-1	8.6 J	10	1.2	20
11996	1,3-Dichlorobenzene	541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene	106-46-7	5.4 J	10	1.4	20
11996	1,1-Dichloroethane	75-34-3	N.D.	10	1.4	20
11996	1,2-Dichloroethane	107-06-2	N.D.	10	1.0	20
11996	1,1-Dichloroethene	75-35-4	N.D.	10	1.2	20
11996	cis-1,2-Dichloroethene	156-59-2	1.1 J	10	1.0	20
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total)*	540-59-0	N.D.	10	1.2	20
11996	Ethylbenzene	100-41-4	3,300	500	60	1000
11996	Isopropylbenzene	98-82-8	45	10	1.0	20
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	100	14	20
11996	Methylcyclohexane	108-87-2	6.4 J	10	1.0	20
11996	Methylene Chloride	75-09-2	N.D.	10	1.4	20
11996	Tetrachloroethene	127-18-4	N.D.	10	1.2	20
11996	Toluene	108-88-3	75	10	1.4	20
11996	1,1,1-Trichloroethane	71-55-6	N.D.	10	1.2	20
11996	Trichloroethene	79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride	75-01-4	N.D.	10	2.0	20
11996	Xylene (Total)	1330-20-7	19,000	1,000	150	1000
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	1.0 J	5.0	1.0	1
07105	Methane	74-82-8	13,000	250	150	50
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	65.0	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	24.4	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	13.2	5.0	2.5	5

*=This limit was used in the evaluation of the final result

Sample Description: PZ-06-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113762
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:30
SDG#: SMP14-02

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	420	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	420	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 02:29	Miranda Campbell	20
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192241AA	08/12/2019 19:21	Jennifer K Howe	1000
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 02:28	Miranda Campbell	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192241AA	08/12/2019 19:20	Jennifer K Howe	1000
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 11:29	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/05/2019 16:17	Connor Lent	50
00224	Chloride	EPA 300.0	1	19213987113B	08/01/2019 17:46	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213987113B	08/01/2019 17:29	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19213987113B	08/01/2019 17:29	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	3	19218304501A	08/07/2019 15:47	Bethany Sandone	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:03	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:03	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-05-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113763
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 15:40
SDG#: SMP14-03

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	1,000	180	200
11996	Benzene	71-43-2	N.D.	100	10	200
11996	2-Butanone	78-93-3	N.D.	1,000	120	200
11996	Chlorobenzene	108-90-7	N.D.	100	12	200
11996	Chloroethane	75-00-3	N.D.	100	14	200
11996	Cyclohexane	110-82-7	97 J	100	10	200
11996	1,2-Dichlorobenzene	95-50-1	N.D.	100	12	200
11996	1,3-Dichlorobenzene	541-73-1	N.D.	100	12	200
11996	1,4-Dichlorobenzene	106-46-7	N.D.	100	14	200
11996	1,1-Dichloroethane	75-34-3	N.D.	100	14	200
11996	1,2-Dichloroethane	107-06-2	N.D.	100	10	200
11996	1,1-Dichloroethene	75-35-4	N.D.	100	12	200
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	100	10	200
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	100	12	200
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	100	12	200
11996	Ethylbenzene	100-41-4	5,000	100	12	200
11996	Isopropylbenzene	98-82-8	73 J	100	10	200
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	1,000	140	200
11996	Methylcyclohexane	108-87-2	N.D.	100	10	200
11996	Methylene Chloride	75-09-2	N.D.	100	14	200
11996	Tetrachloroethene	127-18-4	N.D.	100	12	200
11996	Toluene	108-88-3	45,000	1,000	140	2000
11996	1,1,1-Trichloroethane	71-55-6	N.D.	100	12	200
11996	Trichloroethene	79-01-6	N.D.	100	12	200
11996	Vinyl Chloride	75-01-4	N.D.	100	20	200
11996	Xylene (Total)	1330-20-7	29,000	1,000	200	2000
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	18,000	500	300	100
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	73.0	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	32.7	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	21.6	5.0	2.5	5

*=This limit was used in the evaluation of the final result

Sample Description: PZ-05-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113763
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 15:40
SDG#: SMP14-03

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	508	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	508	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 03:12	Miranda Campbell	200
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 03:33	Miranda Campbell	2000
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 03:11	Miranda Campbell	200
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192202AA	08/09/2019 03:32	Miranda Campbell	2000
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 12:43	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/05/2019 16:53	Connor Lent	100
00224	Chloride	EPA 300.0	1	19213987113B	08/01/2019 18:54	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213987113B	08/01/2019 18:37	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19213987113B	08/01/2019 18:37	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304501A	08/06/2019 17:26	Bethany Sandone	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/06/2019 23:48	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/06/2019 23:48	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: X-01-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113764
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019
SDG#: SMP14-04FD

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	100	18	20
11996	Benzene	71-43-2	N.D.	10	1.0	20
11996	2-Butanone	78-93-3	N.D.	100	12	20
11996	Chlorobenzene	108-90-7	3.0 J	10	1.2	20
11996	Chloroethane	75-00-3	N.D.	10	1.4	20
11996	Cyclohexane	110-82-7	58	10	1.0	20
11996	1,2-Dichlorobenzene	95-50-1	8.5 J	10	1.2	20
11996	1,3-Dichlorobenzene	541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene	106-46-7	5.5 J	10	1.4	20
11996	1,1-Dichloroethane	75-34-3	N.D.	10	1.4	20
11996	1,2-Dichloroethane	107-06-2	N.D.	10	1.0	20
11996	1,1-Dichloroethene	75-35-4	N.D.	10	1.2	20
11996	cis-1,2-Dichloroethene	156-59-2	1.2 J	10	1.0	20
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total)*	540-59-0	1.2 J	10	1.2	20
11996	Ethylbenzene	100-41-4	3,200	500	60	1000
11996	Isopropylbenzene	98-82-8	44	10	1.0	20
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	100	14	20
11996	Methylcyclohexane	108-87-2	6.7 J	10	1.0	20
11996	Methylene Chloride	75-09-2	1.4 J	10	1.4	20
11996	Tetrachloroethene	127-18-4	N.D.	10	1.2	20
11996	Toluene	108-88-3	75	10	1.4	20
11996	1,1,1-Trichloroethane	71-55-6	N.D.	10	1.2	20
11996	Trichloroethene	79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride	75-01-4	N.D.	10	2.0	20
11996	Xylene (Total)	1330-20-7	19,000	1,000	150	1000
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	12,000	250	150	50
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	65.9	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
	The holding time was not met.					
00228	Sulfate	14808-79-8	21.2	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	12.8	5.0	2.5	5

*=This limit was used in the evaluation of the final result

Sample Description: X-01-073019 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113764
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019
SDG#: SMP14-04FD

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	412	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	412	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 03:55	Miranda Campbell	20
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192241AA	08/12/2019 19:42	Jennifer K Howe	1000
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 03:54	Miranda Campbell	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192241AA	08/12/2019 19:41	Jennifer K Howe	1000
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/01/2019 12:59	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192130003A	08/05/2019 17:11	Connor Lent	50
00224	Chloride	EPA 300.0	1	19213987113B	08/01/2019 19:28	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213987113B	08/01/2019 19:11	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19213987113B	08/01/2019 19:11	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	3	19218304501A	08/07/2019 16:02	Bethany Sandone	5
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/06/2019 23:56	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/06/2019 23:56	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-01-073019 Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1113765
ELLE Group #: 2056307
Matrix: Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019
SDG#: SMP14-05TB

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 21:29	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 21:28	Miranda Campbell	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114949
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-06BKG

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved						
01754	Iron	SW-846 6010C 7439-89-6	mg/l 32.8	mg/l 0.200	mg/l 0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:19	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-MS Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114950
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-06MS

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	33.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:27	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-MSD Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114951
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-06MSD

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	32.2	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:30	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: P-37R-073019-DUP Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114952
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:20
SDG#: SMP14-06DUP

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	33.0	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:24	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-06-073019 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114953
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 11:30
SDG#: SMP14-07

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	44.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:45	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-05-073019 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114954
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019 15:40
SDG#: SMP14-08

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	45.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:48	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: X-01-073019 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114955
ELLE Group #: 2056307
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 07/31/2019 10:15
Collection Date/Time: 07/30/2019
SDG#: SMP14-09FD

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	41.9	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404401	08/06/2019 13:51	Patrick J Engle	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404401	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-03-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114693
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 10:42
SDG#: SMP14-10

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
	purge					
11996	Acetone	67-64-1	1.0 J	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	0.08 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.3 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	0.07 J	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	1.2 J	5.0	1.0	1
07105	Methane	74-82-8	2,400	50	30	10
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	68.6	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	0.37 J	0.50	0.25	5
00228	Sulfate	14808-79-8	3.7 J	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.0	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Sample Description: PZ-03-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114693
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 10:42
SDG#: SMP14-10

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	234	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	234	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 22:34	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 22:33	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 15:34	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 18:06	Connor Lent	10
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 14:44	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 00:22	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 00:22	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 01:21	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:45	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:45	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-03-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114694
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 10:42
SDG#: SMP14-11

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	7.59	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192181404403	08/12/2019 07:18	Lisa J Cooke	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192131404405	08/02/2019 09:05	Denise L Trimby	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	2	192181404403	08/07/2019 04:42	James L Mertz	1

*=This limit was used in the evaluation of the final result

Sample Description: P-41R-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114695
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 11:00
SDG#: SMP14-12

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	1.7 J	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.09 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	0.09 J	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	0.08 J	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	0.1 J	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	0.2 J	0.5	0.1	1

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	1,700	50	30	10

Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	62.5	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5

		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	1.9	1.0	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: P-41R-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114695
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 11:00
SDG#: SMP14-12

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	232	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	232	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 22:55	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 22:54	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 15:52	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 18:24	Connor Lent	10
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 15:37	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 01:15	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 01:15	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 01:36	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:51	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:51	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: P-41R-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114696
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 11:00
SDG#: SMP14-13

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	6.07	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404402	08/07/2019 09:00	Lisa J Cooke	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404402	08/05/2019 18:00	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Analysis Report

Sample Description: PZ-01-073119 Grab Groundwater
General Electric Schenectady Main Plant**GE-O'Brien & Gere, Inc.**
ELLE Sample #: GW 1114697
ELLE Group #: 2056500
Matrix: Groundwater**Project Name:** GE Schenectady Main Plant**Submission Date/Time:** 08/01/2019 10:10**Collection Date/Time:** 07/31/2019 12:20**SDG#:** SMP14-14

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
	purge					
11996	Acetone	67-64-1	1.2 J	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	0.1 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.09 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	3,200	100	60	20

Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	53.0	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5

		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.9	1.0	0.50	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-01-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114697
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 12:20
SDG#: SMP14-14

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	249	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	239	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 23:16	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 23:15	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 16:11	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 18:43	Connor Lent	20
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 15:54	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 01:32	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 01:32	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 01:52	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:58	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:58	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-01-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114698
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 12:20
SDG#: SMP14-15

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	9.37	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192131404403	08/08/2019 21:43	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192131404403	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-02-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114699
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 12:45
SDG#: SMP14-16

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
		purge				
11996	Acetone	67-64-1	N.D.	25	4.5	5
11996	Benzene	71-43-2	35	2.5	0.3	5
11996	2-Butanone	78-93-3	N.D.	25	3.0	5
11996	Chlorobenzene	108-90-7	280	25	3.0	50
11996	Chloroethane	75-00-3	0.4 J	2.5	0.4	5
11996	Cyclohexane	110-82-7	1.4 J	2.5	0.3	5
11996	1,2-Dichlorobenzene	95-50-1	0.5 J	2.5	0.3	5
11996	1,3-Dichlorobenzene	541-73-1	1.5 J	2.5	0.3	5
11996	1,4-Dichlorobenzene	106-46-7	5.2	2.5	0.4	5
11996	1,1-Dichloroethane	75-34-3	N.D.	2.5	0.4	5
11996	1,2-Dichloroethane	107-06-2	N.D.	2.5	0.3	5
11996	1,1-Dichloroethene	75-35-4	N.D.	2.5	0.3	5
11996	cis-1,2-Dichloroethene	156-59-2	0.3 J	2.5	0.3	5
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	2.5	0.3	5
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	2.5	0.3	5
11996	Ethylbenzene	100-41-4	1.9 J	2.5	0.3	5
11996	Isopropylbenzene	98-82-8	11	2.5	0.3	5
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	25	3.5	5
11996	Methylcyclohexane	108-87-2	0.5 J	2.5	0.3	5
11996	Methylene Chloride	75-09-2	N.D.	2.5	0.4	5
11996	Tetrachloroethene	127-18-4	N.D.	2.5	0.3	5
11996	Toluene	108-88-3	0.5 J	2.5	0.4	5
11996	1,1,1-Trichloroethane	71-55-6	N.D.	2.5	0.3	5
11996	Trichloroethene	79-01-6	N.D.	2.5	0.3	5
11996	Vinyl Chloride	75-01-4	N.D.	2.5	0.5	5
11996	Xylene (Total)	1330-20-7	4.4	2.5	0.5	5

GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.6	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	16,000	500	300	100

Preservation requirements were not met.

A preserved vial was submitted for analysis. However, the pH at the time of analysis of methane was 4.

Preservation requirements were not met.

A preserved vial was submitted for analysis. However, the pH at the time of analysis of ethane and ethene was 2.

Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	43.0	8.0	4.0	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5

*=This limit was used in the evaluation of the final result

Sample Description: PZ-02-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114699
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 12:45
SDG#: SMP14-16

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry						
00273	Total Organic Carbon	SM 5310 C-2011 n.a.	mg/l 24.3	mg/l 1.0	mg/l 0.50	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011 n.a.	mg/l as CaCO3 822	mg/l as CaCO3 8.0	mg/l as CaCO3 2.6	1
12149	Bicarbonate Alkalinity	n.a.	822	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 04:38	Miranda Campbell	5
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 04:59	Miranda Campbell	50
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 04:37	Miranda Campbell	5
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192202AA	08/09/2019 04:58	Miranda Campbell	50
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 17:25	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 19:01	Connor Lent	100
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 16:47	Clinton M Wilson	20
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 01:50	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 01:50	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 02:38	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:31	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:31	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-02-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114700
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 12:45
SDG#: SMP14-17

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	66.5	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404402	08/07/2019 09:03	Lisa J Cooke	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404402	08/05/2019 18:00	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Analysis Report

Sample Description: PZ-04-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114701
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:30
SDG#: SMP14-18

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	2,500	450	500
11996	Benzene	71-43-2	2,500	250	25	500
11996	2-Butanone	78-93-3	N.D.	2,500	300	500
11996	Chlorobenzene	108-90-7	55 J	250	30	500
11996	Chloroethane	75-00-3	170 J	250	35	500
11996	Cyclohexane	110-82-7	N.D.	250	25	500
11996	1,2-Dichlorobenzene	95-50-1	240 J	250	30	500
11996	1,3-Dichlorobenzene	541-73-1	N.D.	250	30	500
11996	1,4-Dichlorobenzene	106-46-7	N.D.	250	35	500
11996	1,1-Dichloroethane	75-34-3	940	250	35	500
11996	1,2-Dichloroethane	107-06-2	430	250	25	500
11996	1,1-Dichloroethene	75-35-4	420	250	30	500
11996	cis-1,2-Dichloroethene	156-59-2	7,300	250	25	500
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	250	30	500
11996	1,2-Dichloroethene (Total) ¹	540-59-0	7,300	250	30	500
11996	Ethylbenzene	100-41-4	4,400	250	30	500
11996	Isopropylbenzene	98-82-8	67 J	250	25	500
11996	4-Methyl-2-Pentanone	108-10-1	590 J	2,500	350	500
11996	Methylcyclohexane	108-87-2	28 J	250	25	500
11996	Methylene Chloride	75-09-2	430	250	35	500
11996	Tetrachloroethene	127-18-4	84 J	250	30	500
11996	Toluene	108-88-3	52,000	2,500	350	5000
11996	1,1,1-Trichloroethane	71-55-6	25,000	2,500	300	5000
11996	Trichloroethene	79-01-6	42 J	250	30	500
11996	Vinyl Chloride	75-01-4	N.D.	250	50	500
11996	Xylene (Total)	1330-20-7	22,000	250	50	500
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	14	5.0	1.0	1
07105	Ethene	74-85-1	2.7 J	5.0	1.0	1
07105	Methane	74-82-8	13,000	250	150	50
Preservation requirements were not met. A preserved vial was submitted for analysis. However, the pH at the time of analysis of ethane and ethene was 2.						
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	37.3	4.0	2.0	10
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	

*=This limit was used in the evaluation of the final result

Analysis Report

Sample Description: PZ-04-073119 Grab Groundwater
General Electric Schenectady Main Plant**GE-O'Brien & Gere, Inc.**
ELLE Sample #: GW 1114701
ELLE Group #: 2056500
Matrix: Groundwater**Project Name:** GE Schenectady Main Plant**Submittal Date/Time:** 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:30
SDG#: SMP14-18

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry SM 5310 C-2011						
00273	Total Organic Carbon	n.a.	149	10.0	5.0	10
Wet Chemistry SM 2320 B-2011						
12150	Total Alkalinity to pH 4.5	n.a.	793	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	793	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 05:21	Miranda Campbell	500
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 05:42	Miranda Campbell	5000
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 05:20	Miranda Campbell	500
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192202AA	08/09/2019 05:41	Miranda Campbell	5000
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 17:44	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 19:19	Connor Lent	50
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 17:05	Clinton M Wilson	10
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 02:07	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 02:07	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 02:54	Bethany Sandone	10
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:12	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:12	Jeremy L Bolf	1

* = This limit was used in the evaluation of the final result

Sample Description: PZ-04-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114702
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:30
SDG#: SMP14-19

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	68.1	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192131404403	08/08/2019 21:40	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192131404403	08/02/2019 15:20	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: P-45R-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114703
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:31
SDG#: SMP14-20

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	0.08 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	0.09 J	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.2 J	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	3,200	100	60	20
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	40.7	4.0	2.0	10
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	N.D.	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	3.5	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Sample Description: P-45R-073119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114703
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:31
SDG#: SMP14-20

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	277	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	277	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 01:03	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 01:02	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/02/2019 18:02	Connor Lent	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192140001A	08/05/2019 19:37	Connor Lent	20
00224	Chloride	EPA 300.0	3	19213963217A	08/02/2019 17:22	Clinton M Wilson	10
00368	Nitrate Nitrogen	EPA 300.0	1	19213963217A	08/02/2019 02:25	Anna Campanella	5
00228	Sulfate	EPA 300.0	1	19213963217A	08/02/2019 02:25	Anna Campanella	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19218304502A	08/07/2019 03:09	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 00:38	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 00:38	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: P-45R-073119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114704
ELLE Group #: 2056500
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019 15:31
SDG#: SMP14-21

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	9.57	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192141404402	08/07/2019 08:54	Lisa J Cooke	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192141404402	08/05/2019 18:00	Barbara A Kane	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-02 Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1114705
ELLE Group #: 2056500
Matrix: Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/01/2019 10:10
Collection Date/Time: 07/31/2019
SDG#: SMP14-22TB

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 21:50	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 21:49	Miranda Campbell	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-1-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115701
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:00
SDG#: SMP14-23

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
	purge					
11996	Acetone	67-64-1	1.1 J	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	0.7 J	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.08 J	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	21	5.0	3.0	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	145	20.0	10.0	50
00368	Nitrate Nitrogen	14797-55-8	2.2	0.50	0.25	5
00228	Sulfate	14808-79-8	36.7	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	1.7	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Sample Description: SW-1-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115701
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:00
SDG#: SMP14-23

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	226	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	226	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 01:25	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 01:24	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192170001A	08/05/2019 11:58	Johanna C Kennedy	1
00224	Chloride	EPA 300.0	1	19214987113A	08/02/2019 18:03	Clinton M Wilson	50
00368	Nitrate Nitrogen	EPA 300.0	1	19214987113A	08/02/2019 17:12	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19214987113A	08/02/2019 17:12	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19220304501A	08/08/2019 14:30	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218003102A	08/06/2019 23:19	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218003102A	08/06/2019 23:19	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-1-080119 Filtered Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115702
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:00
SDG#: SMP14-24

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.0448 J	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192171404402	08/08/2019 23:39	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192171404402	08/07/2019 14:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-4-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115703
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:40
SDG#: SMP14-25

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	1.3 J	5.0	0.9	1
11996	Benzene	71-43-2	0.05 J	0.5	0.05	1
11996	2-Butanone	78-93-3	0.7 J	5.0	0.6	1
11996	Chlorobenzene	108-90-7	0.2 J	0.5	0.06	1
11996	Chloroethane	75-00-3	0.09 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.09 J	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	0.05 J	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)*	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	0.4 J	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	1.5	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	0.07 J	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	2.0	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 J	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	79	5.0	3.0	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	146	20.0	10.0	50
00368	Nitrate Nitrogen	14797-55-8	2.1	0.50	0.25	5
00228	Sulfate	14808-79-8	33.4	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	2.1	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Sample Description: SW-4-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115703
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:40
SDG#: SMP14-25

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	248	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	248	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 01:46	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 01:45	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192170001A	08/05/2019 12:16	Johanna C Kennedy	1
00224	Chloride	EPA 300.0	1	19214987113A	08/02/2019 19:11	Clinton M Wilson	50
00368	Nitrate Nitrogen	EPA 300.0	1	19214987113A	08/02/2019 18:54	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19214987113A	08/02/2019 18:54	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19220304501A	08/08/2019 14:43	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/07/2019 01:04	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/07/2019 01:04	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-4-080119 Filtered Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115704
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 09:40
SDG#: SMP14-26

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.132 J	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192171404402	08/08/2019 23:42	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192171404402	08/07/2019 14:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-3-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115705
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 10:20
SDG#: SMP14-27

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	0.07 J	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	0.1 J	0.5	0.06	1
11996	Chloroethane	75-00-3	0.1 J	0.5	0.07	1
11996	Cyclohexane	110-82-7	0.2 J	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	0.06 J	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total)*	540-59-0	0.06 J	0.5	0.06	1
11996	Ethylbenzene	100-41-4	0.6	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	2.9	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	0.09 J	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	3.6	0.5	0.1	1
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	5.0	1.0	1
07105	Ethene	74-85-1	N.D.	5.0	1.0	1
07105	Methane	74-82-8	35	5.0	3.0	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	163	20.0	10.0	50
00368	Nitrate Nitrogen	14797-55-8	1.9	0.50	0.25	5
00228	Sulfate	14808-79-8	32.7	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	1.9	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Sample Description: SW-3-080119 Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115705
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 10:20
SDG#: SMP14-27

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	238	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	238	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 02:08	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 02:07	Miranda Campbell	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192170001A	08/05/2019 12:34	Johanna C Kennedy	1
00224	Chloride	EPA 300.0	1	19214987113A	08/02/2019 19:45	Clinton M Wilson	50
00368	Nitrate Nitrogen	EPA 300.0	1	19214987113A	08/02/2019 19:28	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19214987113A	08/02/2019 19:28	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19220304501A	08/08/2019 14:56	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218003102A	08/06/2019 23:12	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218003102A	08/06/2019 23:12	Jeremy L Bolf	1

*=This limit was used in the evaluation of the final result

Sample Description: SW-3-080119 Filtered Grab Surface Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115706
ELLE Group #: 2056718
Matrix: Surface Water

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 10:20
SDG#: SMP14-28

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	0.0492 J	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192171404402	08/08/2019 23:51	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192171404402	08/07/2019 14:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: PZ-07-080119 Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1115707
ELLE Group #: 2056718
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 12:00
SDG#: SMP14-29

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL purge	ug/l	ug/l	ug/l	
11996	Acetone	67-64-1	N.D.	100	18	20
11996	Benzene	71-43-2	190	10	1.0	20
11996	2-Butanone	78-93-3	N.D.	100	12	20
11996	Chlorobenzene	108-90-7	27	10	1.2	20
11996	Chloroethane	75-00-3	40	10	1.4	20
11996	Cyclohexane	110-82-7	2.7 J	10	1.0	20
11996	1,2-Dichlorobenzene	95-50-1	7.1 J	10	1.2	20
11996	1,3-Dichlorobenzene	541-73-1	N.D.	10	1.2	20
11996	1,4-Dichlorobenzene	106-46-7	3.5 J	10	1.4	20
11996	1,1-Dichloroethane	75-34-3	330	10	1.4	20
11996	1,2-Dichloroethane	107-06-2	1.4 J	10	1.0	20
11996	1,1-Dichloroethene	75-35-4	16	10	1.2	20
11996	cis-1,2-Dichloroethene	156-59-2	500	10	1.0	20
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	10	1.2	20
11996	1,2-Dichloroethene (Total)*	540-59-0	500	10	1.2	20
11996	Ethylbenzene	100-41-4	570	100	12	200
11996	Isopropylbenzene	98-82-8	40	10	1.0	20
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	100	14	20
11996	Methylcyclohexane	108-87-2	12	10	1.0	20
11996	Methylene Chloride	75-09-2	3.9 J	10	1.4	20
11996	Tetrachloroethene	127-18-4	1.8 J	10	1.2	20
11996	Toluene	108-88-3	3,600	100	14	200
11996	1,1,1-Trichloroethane	71-55-6	270	10	1.2	20
11996	Trichloroethene	79-01-6	N.D.	10	1.2	20
11996	Vinyl Chloride	75-01-4	49	10	2.0	20
11996	Xylene (Total)	1330-20-7	3,000	100	20	200
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	21	5.0	1.0	1
07105	Ethene	74-85-1	20	5.0	1.0	1
07105	Methane	74-82-8	16,000	250	150	50
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
00224	Chloride	16887-00-6	44.0	20.0	10.0	50
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.50	0.25	5
00228	Sulfate	14808-79-8	60.6	5.0	1.5	5
		SM 5310 C-2011	mg/l	mg/l	mg/l	
00273	Total Organic Carbon	n.a.	17.3	1.0	0.50	1
		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	

*=This limit was used in the evaluation of the final result

Analysis Report

Sample Description: PZ-07-080119 Grab Groundwater
General Electric Schenectady Main Plant**GE-O'Brien & Gere, Inc.**
ELLE Sample #: GW 1115707
ELLE Group #: 2056718
Matrix: Groundwater**Project Name:** GE Schenectady Main Plant**Submission Date/Time:** 08/02/2019 10:10
Collection Date/Time: 08/01/2019 12:00
SDG#: SMP14-29

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Wet Chemistry		SM 2320 B-2011	mg/l as CaCO3	mg/l as CaCO3	mg/l as CaCO3	
12150	Total Alkalinity to pH 4.5	n.a.	553	8.0	2.6	1
12149	Bicarbonate Alkalinity	n.a.	553	8.0	2.6	1

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 06:04	Miranda Campbell	20
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/09/2019 06:25	Miranda Campbell	200
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/09/2019 06:03	Miranda Campbell	20
01163	GC/MS VOA Water Prep	SW-846 5030C	2	H192202AA	08/09/2019 06:24	Miranda Campbell	200
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192170001A	08/05/2019 12:52	Johanna C Kennedy	1
07105	Methane, Ethane, Ethene	RSKSOP-175 modified	1	192170001A	08/06/2019 18:43	Johanna C Kennedy	50
00224	Chloride	EPA 300.0	1	19214987113A	08/02/2019 20:53	Clinton M Wilson	50
00368	Nitrate Nitrogen	EPA 300.0	1	19214987113A	08/02/2019 20:36	Clinton M Wilson	5
00228	Sulfate	EPA 300.0	1	19214987113A	08/02/2019 20:36	Clinton M Wilson	5
00273	Total Organic Carbon	SM 5310 C-2011	1	19220304501A	08/08/2019 15:10	Bethany Sandone	1
12150	Total Alkalinity to pH 4.5	SM 2320 B-2011	1	19218006202A	08/06/2019 23:41	Jeremy L Bolf	1
12149	Bicarbonate Alkalinity	SM 2320 B-2011	1	19218006202A	08/06/2019 23:41	Jeremy L Bolf	1

* = This limit was used in the evaluation of the final result

Sample Description: PZ-07-080119 Filtered Grab Groundwater
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: GW 1115708
ELLE Group #: 2056718
Matrix: Groundwater

Project Name: GE Schenectady Main Plant

Submittal Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019 12:00
SDG#: SMP14-30

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
Metals Dissolved		SW-846 6010C	mg/l	mg/l	mg/l	
01754	Iron	7439-89-6	81.4	0.200	0.0400	1

Sample Comments

State of New York Certification No. 10670
This sample was field filtered for dissolved metals.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010C	1	192171404402	08/08/2019 23:54	Elaine F Stoltzfus	1
14044	ICP-WW, 3005A (tot rec) - U345	SW-846 3005A	1	192171404402	08/07/2019 14:30	JoElla L Rice	1

*=This limit was used in the evaluation of the final result

Sample Description: TB-03-080119 Water
General Electric Schenectady Main Plant

GE-O'Brien & Gere, Inc.
ELLE Sample #: WW 1115709
ELLE Group #: 2056718
Matrix: Water

Project Name: GE Schenectady Main Plant

Submission Date/Time: 08/02/2019 10:10
Collection Date/Time: 08/01/2019
SDG#: SMP14-31TB

CAT No.	Analysis Name	CAS Number	Result	Limit of Quantitation*	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260C 25mL	ug/l	ug/l	ug/l	
	purge					
11996	Acetone	67-64-1	N.D.	5.0	0.9	1
11996	Benzene	71-43-2	N.D.	0.5	0.05	1
11996	2-Butanone	78-93-3	N.D.	5.0	0.6	1
11996	Chlorobenzene	108-90-7	N.D.	0.5	0.06	1
11996	Chloroethane	75-00-3	N.D.	0.5	0.07	1
11996	Cyclohexane	110-82-7	N.D.	0.5	0.05	1
11996	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	0.06	1
11996	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	0.06	1
11996	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	0.07	1
11996	1,1-Dichloroethane	75-34-3	N.D.	0.5	0.07	1
11996	1,2-Dichloroethane	107-06-2	N.D.	0.5	0.05	1
11996	1,1-Dichloroethene	75-35-4	N.D.	0.5	0.06	1
11996	cis-1,2-Dichloroethene	156-59-2	N.D.	0.5	0.05	1
11996	trans-1,2-Dichloroethene	156-60-5	N.D.	0.5	0.06	1
11996	1,2-Dichloroethene (Total) ¹	540-59-0	N.D.	0.5	0.06	1
11996	Ethylbenzene	100-41-4	N.D.	0.5	0.06	1
11996	Isopropylbenzene	98-82-8	N.D.	0.5	0.05	1
11996	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	0.7	1
11996	Methylcyclohexane	108-87-2	N.D.	0.5	0.05	1
11996	Methylene Chloride	75-09-2	N.D.	0.5	0.07	1
11996	Tetrachloroethene	127-18-4	N.D.	0.5	0.06	1
11996	Toluene	108-88-3	N.D.	0.5	0.07	1
11996	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	0.06	1
11996	Trichloroethene	79-01-6	N.D.	0.5	0.06	1
11996	Vinyl Chloride	75-01-4	N.D.	0.5	0.1	1
11996	Xylene (Total)	1330-20-7	N.D.	0.5	0.1	1

The requirement for no headspace at the time of analysis was not met. The container used for the testing had headspace at the time of analysis.

Sample Comments

State of New York Certification No. 10670

¹ = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11996	VOCs 8260C	SW-846 8260C 25mL purge	1	H192202AA	08/08/2019 22:12	Miranda Campbell	1
01163	GC/MS VOA Water Prep	SW-846 5030C	1	H192202AA	08/08/2019 22:11	Miranda Campbell	1

*=This limit was used in the evaluation of the final result