

# ITHACA AREA WASTEWATER TREATMENT FACILITY

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TOWN OF ITHACA

CITY OF ITHACA

TOWN OF DRYDEN, OWNERS

525 THIRD STREET  
ITHACA, NEW YORK 14850  
(607) 273-8381  
FAX (607) 273-8433

Special Joint Committee  
Wednesday, December 18, 2019 1:00pm

- 1) Welcome
- 2) Agenda Review and Approval of Minutes
- 3) Financial Report – *Steve Thayer City Controller*
- 4) Operations and Engineering Report – *CJ Kilgore Chief Operator*
  - a) Possible vote to approve amended capital project funding
- 5) Presentation/Discussion Items
- 6) Announcements / Other Business
- 7) Adjournment

*Upcoming Meeting Dates: January 15, February 19*

Out of consideration for the health of other individuals, please refrain from using perfume/cologne and other scented personal care products at City of Ithaca meetings.  
Thank you for your cooperation and understanding.

IAWWTF  
 Approved Budget and Actual Activity  
 As of November 30, 2019  
 12/12/2019

<b>Revenues:</b>							
<b>J8150</b>							
Account #	Description	Budget	Actual	Excess or (Deficiency)	% Rec'd		
2373	Septage Service Other	\$ 420,000	\$ 350,733	\$ (69,267)	83.51%		
2374	Sewer Service Other Govt's	\$ 2,824,544	\$ 2,824,544	\$ -	100.00%		
2392	Debt Service Other Govt's	\$ 896,696	\$ -	\$ (896,696)	0.00%		
2401	Interest & Earnings	\$ 3,000	\$ -	\$ (3,000)	0.00%		
2665	Sale of Equipment	\$ 3,000	\$ 607	\$ (2,393)	20.23%		
2680	Insurance Recoveries	\$ -	\$ -	\$ -			
2701	Refund of Prior Year Expense	\$ -	\$ -	\$ -			
2705	Gifts and Donations	\$ -	\$ -	\$ -			
2770	Unclassified Revenue	\$ 1,500	\$ -	\$ (1,500)	0.00%		
<b>Total Revenues as of 11/30/19</b>		<b>\$ 4,148,740</b>	<b>\$ 3,175,884</b>	<b>\$ (922,856)</b>	<b>76.55%</b>		

IAWWTF  
Approved Budget and Actual Activity  
As of November 30, 2019  
12/12/2019

<b>Expenditures:</b>							
<b>J8150</b>							
Account #	Description	Budget	Actual	Available Balance	% Used		
<i>Operations:</i>							
1920	Municipal Association Dues	\$ 1,119	\$ -	\$ 1,119	0.00%		
1990	Contingency Account	\$ 20,000	\$ -	\$ 20,000	0.00%		
5105	Administration Salaries	\$ 69,255	\$ 60,667	\$ 8,588	87.60%		
5110	Staff Salaries	\$ 813,202	\$ 613,276	\$ 199,926	75.41%		
5115	Hourly F/T	\$ 38,197	\$ 34,166	\$ 4,031	89.45%		
5120	Hourly P/T	\$ 25,000	\$ 53,603	\$ (28,603)	214.41%		
5125	Overtime	\$ 22,000	\$ 15,120	\$ 6,880	68.73%		
5210	Office Equipment	\$ -	\$ -	\$ -	0.00%		
5215	Motor Vehicles	\$ 30,000	\$ -	\$ 30,000	0.00%		
5225	Other Equipment	\$ 30,000	\$ -	\$ 30,000	0.00%		
5405	Telephone	\$ 6,200	\$ 4,684	\$ 1,516	75.55%		
5410	Utilities	\$ 283,000	\$ 173,356	\$ 109,644	61.26%		
5415	Clothing	\$ 6,500	\$ 6,795	\$ (295)	104.54%		
5420	Gas & Oil	\$ 10,000	\$ 3,380	\$ 6,620	33.80%		
5425	Office Expense	\$ 2,000	\$ 1,267	\$ 733	63.35%		
5430	Fees	\$ 115,000	\$ 63,303	\$ 51,697	55.05%		
5435	Contracts	\$ 185,000	\$ 162,253	\$ 22,747	87.70%		
5436	Overhead Charge City General Fund	\$ 189,790	\$ 94,895	\$ 94,895	50.00%		
5440	Staff Development	\$ 18,000	\$ 14,474	\$ 3,526	80.41%		
5450	Advertising	\$ 200	\$ 9	\$ 191	4.50%		
5455	Insurance	\$ 128,000	\$ 137,444	\$ (9,444)	107.38%		
5475	Property Maintenance	\$ -	\$ -	\$ -	0.00%		
5476	Equipment Maintenance	\$ -	\$ -	\$ -	0.00%		
5477	Equipment Parts	\$ 100,000	\$ 162,023	\$ (62,023)	162.02%		
5479	Vehicle Maintenance	\$ 2,000	\$ -	\$ 2,000	0.00%		
5480	Building Maintenance Supplies	\$ 22,000	\$ 6,052	\$ 15,948	27.51%		
5494	Safety Materials & Supplies	\$ 6,000	\$ 5,113	\$ 887	85.22%		
5495	Treatment Supplies	\$ 402,000	\$ 376,121	\$ 25,879	93.56%		
5496	Lab Supplies	\$ 84,000	\$ 76,452	\$ 7,548	91.01%		
5499	Sludge Disposal Fees	\$ 320,000	\$ 340,738	\$ (20,738)	106.48%		
5700	Prior Year Encumbrances	\$ 93,514	\$ 93,514	\$ -	0.00%		
5720	Prior Year Equipment	\$ 30,000	\$ 30,000	\$ -	0.00%		
	Sub-Totals	\$ 3,051,977	\$ 2,528,705	\$ 523,272	82.85%		
<i>Benefits:</i>							
9010	State Retirement	\$ 110,925	\$ -	\$ 110,925	0.00%		
9030	Social Security	\$ 74,026	\$ 59,460	\$ 14,566	80.32%		
9040	Workers Compensation	\$ 29,160	\$ 11,753	\$ 17,407	40.31%		
9050	Unemployment Insurance	\$ -	\$ -	\$ -	0.00%		
9060	Health Insurance	\$ 354,620	\$ 410,261	\$ (55,641)	115.69%		
9070	Dental Insurance	\$ 3,200	\$ 3,499	\$ (299)	109.34%		
9080	Day Care Assistance	\$ 250	\$ -	\$ 250	0.00%		
9089	Employee Tuition	\$ 1,400	\$ -	\$ 1,400	0.00%		
	Sub-Totals	\$ 573,581	\$ 484,973	\$ 88,608	84.55%		
<i>Debt Service</i>							
9710	Serial Bonds	\$ 428,702	\$ 428,702	\$ -	100.00%		
9711	Interest on Serial Bonds	\$ 357,057	\$ 353,629	\$ 3,428	99.04%		
9730	BANS	\$ 35,556	\$ 35,556	\$ -	100.00%		
9731	Interest on BANS	\$ 75,381	\$ 75,381	\$ -	100.00%		
	Sub-Totals	\$ 896,696	\$ 893,268	\$ 3,428	99.62%		
<i>Interfund Transfers</i>							
9951	Transfer to Capital Reserves	\$ -	\$ -	\$ -	0.00%		
	Sub-Totals	\$ -	\$ -	\$ -	0.00%		
	<b>Total All Expenditures as of 11/30/19</b>	<b>\$ 4,522,254</b>	<b>\$ 3,906,946</b>	<b>\$ 615,308</b>	<b>86.39%</b>		

IAWWTF  
 Approved Budget and Actual Activity  
 As of November 30, 2019  
 12/12/2019

	<b>Surplus(deficit) as of 11/30/19</b>		\$ (373,514)	\$ (731,062)		\$ (357,548)	
	*\$250,000 was appropriated from Fund Balance surplus for 2019						

IAWWTP Joint Activity Capital Projects/Reserve and Fund Balance Summary 2019 as of 11/30/19

<b>Capital Activity:</b>		Status	Current Cash Balance	Current Auth Balance	Original Authorization	Expended To date	Expended This Period	Funded Amount	Comment
Account #	Capital Reserves:								
J1	Capital Reserve Balance		\$ 250,623.00						
<b>Capital Projects:</b>									
409J	Phosphorus Removal Improvements	To close	\$ 191,657.79	\$ (3,271.80)	\$ 4,975,000	\$ 4,978,271.80	\$ -	\$ 4,975,000.00	Authorized, funded by each entity
410J	Primary Settling Tanks Rehab I & II	Closed	\$ -	\$ 13,423.83	\$ 360,000	\$ 346,576.17	\$ -	\$ 150,000.00	Project complete, funding needed phase II
411J	Admin Building & Thickner Roof Addition Design	Closed	\$ -	\$ 10,000.00	\$ 10,000	\$ -	\$ -	\$ -	Authorized, funding from each entity
412J	Energy Reduction Upgrades	Closed	\$ -	\$ 31,369.44	\$ 60,000	\$ 28,630.56	\$ -	\$ -	Authorized, funding from each entity
413J	Boiler Replacement	Closed	\$ -	\$ 100,000.00	\$ 100,000	\$ -	\$ -	\$ -	Authorized, funding from each entity
414J	Flow Meter Stations Rehabilitation	Active	\$ (319.92)	\$ (319.92)	\$ 102,927	\$ 103,246.92	\$ -	\$ 102,927.00	Authorized, funding from each entity
415J	Facility Concrete Restoration	Closed	\$ -	\$ 118,279.28	\$ 135,000	\$ 16,720.72	\$ -	\$ -	Authorized, funding from each entity
416J	Misc Plant Improvements	Active	\$ (4,859.19)	\$ (4,859.19)	\$ 1,504,950	\$ 1,509,809.19	\$ -	\$ 1,430,950.00	Authorized, funding from each entity
417J	IAWWTF Energy Improvements	Active	\$ 202,567.15	\$ 202,567.39	\$ 8,026,398	\$ 8,247,921.61	\$ -	\$ 8,026,398.00	Authorized, funding from each entity, NYSERDA Grant \$406,179
418J	Septage Receiving Facility Improvements	Active	\$ 143,282.38	\$ 143,282.38	\$ 3,077,475	\$ 2,934,192.62	\$ -	\$ 3,077,475.00	Authorized, funding from each entity
419J	Influent Building & Dewatering System Imp	Active	\$ 23,675.24	\$ 72,675.24	\$ 3,953,563	\$ 3,880,887.76	\$ -	\$ 3,879,563.00	Authorized, funding from each entity
420J	Enhanced Primary Treatment Feasibility Study	Active	\$ 39,227.84	\$ 39,227.84	\$ 287,650	\$ 248,422.16	\$ -	\$ 287,650.00	Authorized, capital reserve funding
421J	IAWWTF Microgrid Electric Power Feasibility	To close	\$ -	\$ -	\$ 148,960	\$ 148,960.00	\$ -	\$ 148,960.00	Authorized, funded from NYSERDA Grant
422J	IAWWTF Design for Various Improvements to Plant	Active	\$ 7,193,225.35	\$ 7,193,225.35	\$ 7,624,175	\$ 430,949.65	\$ -	\$ 7,624,175.00	Authorized, capital reserve funding/Bonds
<b>Total Capital Projects</b>			<b>\$ 7,788,456.64</b>	<b>\$ 7,915,599.84</b>	<b>\$ 30,366,098.00</b>	<b>\$ 22,874,589.16</b>	<b>\$ -</b>	<b>\$ 29,703,098.00</b>	
<b>Fund Balance:</b>									
			Amount						
12/31/2015	Capital Reserves		\$ 714,520						
	Assigned		\$ 160,665						
	Unassigned		\$ 1,234,482						
	<b>Total Fund Balance</b>		<b>\$ 2,109,667</b>						
12/31/2016	Restricted for Capital		\$ 427,684	Capital reserves					
	Nonspendable		\$ 27,231	Prepaid expenses					
	Assigned		\$ 276,960	Encumbrances, next year budget					
	Unassigned		\$ 1,276,218						
	<b>Total Fund Balance</b>		<b>\$ 2,008,093</b>						
12/31/2017	Restricted for Capital		\$ 253,257	Capital reserves					
	Nonspendable		\$ 27,317	Prepaid expenses					
	Assigned		\$ 406,847	Encumbrances, next year budget					
	Unassigned		\$ 1,227,808						
	<b>Total Fund Balance</b>		<b>\$ 1,915,229</b>						
12/31/2018	Restricted for Capital		\$ 253,549	Capital reserves					
	Nonspendable		\$ 26,450	Prepaid expenses					
	Assigned		\$ 461,887	Encumbrances, next year budget					
	Unassigned		\$ 1,117,258						
	<b>Total Fund Balance</b>		<b>\$ 1,859,144</b>						

DIVISION OF WATER

**WASTEWATER FACILITY OPERATION REPORT FOR THE MONTH OF October, 2019**

SPDES PERMIT NO. <b>NY</b> 0026638		FACILITY NAME Ithaca Area Wastewater Treatment Facility				FACILITY OWNER Ithaca (C) Ithaca (T) Dryden (T)						FACILITY IAWWTF							
Day	Date	Daily Precip In/day	VOLUME OF SEWAGE TREATED			TEMPERATURE (F)		pH (s.u.)				SETTLABLE SOLIDS (ml/l)		B.O.D.5 (mg/l)		SUSPENDED SOLIDS (mg/l)			
			Inst.Max. MGD	Daily Average MGD	Inst.Min. MGD	Influent (2)	Effluent (2)	Influent Minimum	Influent Maximum	Effluent Minimum	Effluent Maximum	Influent Maximum	Effluent Maximum	Influent Type	Effluent Type	Influent Type	Effluent Type		
Tue	01	0.04	8.00	5.45	2.50	72	72	7.6	7.6	7.9	7.9	14.7	<0.10	247	34	183	13		
Wed	02	0.26	9.00	5.757	2.60	72	73	7.4	7.7	7.7	7.9	12.2	<0.10						
Thu	03	0.21	10.60	6.66	3.40	69	71	6.2	7.6	7.5	7.8	10.8	<0.10						
Fri	04	0.78	8.50	5.69	2.90	69	69	7.6	7.9	7.7	7.9	9.7	<0.10						
Sat	05	0.00	8.10	5.36	3.60	68	69	7.7	7.8	7.7	8.0	9.3	<0.10						
Sun	06	0.00	9.50	5.98	4.00	69	70	7.7	7.8	7.8	7.8	9.0	<0.13						
Mon	07	0.66	11.30	7.624	4.00	68	70	7.7	7.8	7.6	7.7	10.0	<1.90						
Tue	08	0.37	9.30	6.545	3.30	69	69	7.5	7.7	7.5	7.6	10.1	<0.10	186	30	164	5		
Wed	09	0.00	9.40	6.019	3.00	68	69	7.5	7.7	7.5	7.8	11.3	<0.10	178	20	165	7		
Thu	10	0.00	10.00	5.950	2.00	69	69	7.6	7.6	7.5	7.7	10.7	<0.10						
Fri	11	0.00	9.00	5.698	2.00	70	69	7.6	7.7	7.4	7.5	12.7	<0.10						
Sat	12	0.00	8.30	4.764	1.90	66	69	7.6	7.7	7.5	7.6	7.3	<0.10						
Sun	13	0.10	7.50	4.821	2.00	67	68	7.7	7.7	7.6	7.8	7.7	<0.10						
Mon	14	0.00	8.00	5.012	1.80	68	68	7.6	7.7	7.5	7.7	8.0	<0.10						
Tue	15	0.00	8.50	5.213	2.00	69	68	7.5	7.6	7.6	7.6	10.3	<0.10	234	43	208	24		
Wed	16	0.00	14.60	7.993	4.40	68	68	7.5	8.0	7.6	7.7	12.8	<0.10	151	15	160	15		
Thu	17	1.09	10.50	8.116	5.50	66	66	7.5	7.8	7.4	7.5	8.2	<0.10						
Fri	18	0.60	10.50	6.708	2.40	65	66	7.6	7.8	7.2	7.5	8.2	<0.10						
Sat	19	0.02	9.30	5.853	2.60	67	66	7.6	7.6	7.2	7.5	7.8	<0.10						
Sun	20	0.00	9.50	5.782	3.00	66	66	7.6	7.7	7.4	7.7	7.8	<0.10						
Mon	21		8.50	6.037	2.20	66	66	7.7	7.8	7.6	7.7	12.5	<0.10						
Tue	22	0.00	11.40	7.556	3.80	67	67	7.6	7.7	7.4	7.7	11.7	<0.10	175	21	153	11		
Wed	23	0.59	11.30	6.737	3.00	68	65	7.6	7.7	7.2	7.7	10.0	<0.10	165	20	136	16		
Thu	24	0.00	9.90	6.33	2.70	67	66	7.6	7.8	7.5	7.8	11.7	<0.10						
Fri	25	0.00	9.50	6.132	2.40	68	66	7.7	7.8	7.1	7.5	11.0	<0.10						
Sat	26	0.03	8.90	5.908	2.80	66	67	7.6	7.7	7.2	7.8	8.0	<0.10						
Sun	27	0.13	11.40	7.113	3.30	65	66	7.7	7.8	7.3	7.5	9.5	<0.10						
Mon	28	0.30	10.30	6.620	2.80	67	66	8.0	8.1	7.8	7.8	11.0	<0.10	150		158			
Tue	29	0.00	10.20	6.268	1.70	66	66	7.7	8.0	7.4	7.5	9.7	<0.10	218	22	178	12		
Wed	30	0.00	8.60	6.162	2.90	66	67	7.6	7.7	7.2	7.6	12.2	<0.10	165	15		7		
Thu	31	0.17	29.00	11.464	6.00	66	67	7.6	7.7	7.4	7.5	11.3	<0.10						
		Total Precip 5.35	Monthly 6.365			Monthly Influent 68	Average Effluent 68	Monthly Minimum Maximum Minimum Maximum 6.2 8.1 7.1 8.0				Monthly Maximum 14.7	Monthly Maximum <1.90	30 day arithmetic mean (1) Inf.(mg/l) Eff.(mg/l) 187 24		30 day arithmetic mean (1) Inf.(mg/l) Eff.(mg/l) 167 12			
		Monthly Total 197.309										30 Day Avg Quantity Loading (1)		9,901 lbs/day	1,269 lbs/day	8,952 lbs/day	649 lbs/day		

(1) Refer to January 1994 edition of *Dmr Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES)* for procedures to calculate loadings, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.  
 (2) If temperature is measured more than once a day, report the average for the day.  
 NOTE: Refer to current SPDES permit for specific monitoring requirements. Sample type for temperature, pH and settleable solids is grab

FACILITY MAILING ADDRESS (Street, City, State, Zip Code)					TELEPHONE NUMBER		CHIEF OPERATOR'S NAME		CERTIFICATION GRADE
525 Third Street, Ithaca N.Y. 14850					(607) 273-8381		CJ Kilgore		4 - A
Day	Date	TOTAL PHOSPHORUS(mg/l)		PHOS	CHLORINE RESIDUAL		FECAL COLIFORM		REMARKS
		Influent Type	Effluent Type	TMRA Eff	Pre-SO2	Post SO2	MF or MPN/100ml		
Tue	01	4.42	2.21		0.36	0.030	196		
Wed	02				0.22	0.020			
Thu	03				0.32	0.020			
Fri	04				0.27	0.010			
Sat	05				0.55	0.010			
Sun	06				0.27	0.030			
Mon	07				0.26	0.030			
Tue	08	3.48	1.40		0.32	0.030	75		
Wed	09	3.98	1.92		0.68	0.050	31		
Thu	10				0.53	0.050			
Fri	11				0.63	0.050			
Sat	12				0.97	0.020			
Sun	13				0.89	0.030			
Mon	14				0.83	0.020			
Tue	15	4.84	0.92		0.76	0.040	50		
Wed	16	3.74	0.33		0.70	0.070	50		
Thu	17				0.49	0.020			
Fri	18				0.41	0.020			
Sat	19				0.47	0.000			
Sun	20				0.55	0.020			
Mon	21				0.74	0.040	27		
Tue	22	3.77	0.28		0.54	0.020	13		
Wed	23	3.62	0.19		0.35	0.010			
Thu	24				0.74	0.020			
Fri	25				0.52	0.040			
Sat	26				0.62	0.020			
Sun	27				0.54	0.040			
Mon	28	3.76			0.50	0.020	15		
Tue	29	4.35	0.16		0.55	0.040	3		
Wed	30		0.14		0.46	0.050			
Thu	31				0.39	0.030			
		30 day arithmetic mean (1)		TMRA	Monthly		30 Day Geo. Mean (1)		
		Influent(mg/l)	Effluent(mg/l)	Eff	Minimum(1)	Maximum(1)			
		4.00	0.84		0.22	0.070	30		
		214.03	42.12	21.05					
		lbs/day	lbs/day	lbs/day					

(1) Refer to January 1994 edition of Dmr Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES) for procedures to calculate loadings, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.

NOTE: Refer to current SPDES permit for specific monitoring requirements. Sample type for chlorine residual and fecal coliform is grab.

		NON-CONVENTIONAL POLLUTANTS NY0026638																		
		SEMI-VOLATILE ORGANICS										METALS								
		TKN mg/l Sample	TKN mg/l Type	AMM mg/l Sample	AMM mg/l Type	TRI ug/l Sample	TETRA ug/l Sample	CHLORO ug/l Sample	1,2 TRANS ug/l Sample	METH ug/l Sample	PHTHAL ug/l Sample	Ca mg/l Sample	Ca mg/l Sample	Cu mg/l Sample	Cu mg/l Sample	Pb mg/l Sample	Ni mg/l Sample	Ag mg/l Sample	Zn mg/l Sample	
Day	Date	Influent	Effluent	Influent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Influent	Effluent	Influent	Effluent	Effluent	Effluent	Effluent	Effluent	
Tue	01																			
Wed	02																			
Thu	03																			
Fri	04																			
Sat	05																			
Sun	06																			
Mon	07																			
Tue	08																			
Wed	09																			
Thu	10																			
Fri	11																			
Sat	12																			
Sun	13																			
Mon	14																			
Tue	15																			
Wed	16	29.7	19.7	18.9	19.2	<1.0	<1.0	1.5	<1.0	<5.0	<5.3	<0.020	<0.020	0.101	0.052	<0.020	<0.020	<0.020	<0.020	
Thu	17																			
Fri	18																			
Sat	19																			
Sun	20																			
Mon	21																			
Tue	22																			
Wed	23																			
Thu	24																			
Fri	25																			
Sat	26																			
Sun	27																			
Mon	28																			
Tue	29																			
Wed	30																			
Thu	31																			
30 day arithmetic mean (1)		29.70 mg/l	19.70 mg/l	18.90 mg/l	19.20 mg/l	<1.0 ug/l	<1.0 ug/l	1.5 ug/l	<1.0 ug/l	<5.0 ug/l	<5.3 ug/l	<0.020 mg/l	<0.020 mg/l	0.101 mg/l	0.052 mg/l	<0.020 mg/l	<0.020 mg/l	<0.020 mg/l	<0.020 mg/l	
30 Day Aver. Quantity Loading (1)		1,979.9 lbs/day	1,313.2 lbs/day	1,259.9 lbs/day	1,279.9 lbs/day	<0.067 lbs/day	<0.067 lbs/day	0.100 lbs/day	<0.067 lbs/day	<0.333 lbs/day	<0.35 lbs/day	<1.33 lbs/day	<1.33 lbs/day	6.73 lbs/day	3.47 lbs/day	<1.33 lbs/day	<1.33 lbs/day	<1.33 lbs/day	<1.33 lbs/day	

(1) Refer to January 1994 edition of DMR Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES) for procedures to calculate loading, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.





**WASTEWATER FACILITY OPERATION REPORT FOR THE MONTH OF November, 2019**

SPDES PERMIT NO. <b>NY 0026638</b>			FACILITY NAME Ithaca Area Wastewater Treatment Facility					FACILITY OWNER Ithaca (C) Ithaca (T) Dryden (T)				FACILITY IAWWTF					
Day	Date	Daily Precip in/day	VOLUME OF SEWAGE TREATED			TEMPERATURE (F)		pH (s.u.)				SETTLABLE SOLIDS (ml/l)		B.O.D.5 (mg/l)		SUSPENDED SOLIDS (mg/l)	
			Inst.Max. MGD	Daily Average MGD	Inst.Min. MGD	Influent (2)	Effluent (2)	Influent Minimum	Influent Maximum	Effluent Minimum	Effluent Maximum	Influent Maximum	Effluent Maximum	Influent Type	Effluent Type	Influent Type	Effluent Type
Fri	01	1.52	14.50	10.02	11.00	63	62	7.6	7.8	7.1	7.4	11.0	<0.10				
Sat	02	0.00	12.90	8.735	4.70	62	63	7.6	7.6	7.3	7.5	16.2	<0.10				
Sun	03	0.00	10.00	7.27	3.90	64	63	7.6	7.7	7.3	7.5	8.2	<0.10				
Mon	04	0.02	10.20	7.08	3.50	64	63	7.6	7.7	7.4	7.5	10.6	<0.10	219	13	181	4
Tue	05		10.40	6.66	2.80	65	64	7.0	7.7	6.9	7.1	9.7	<0.10	221	12	152	3
Wed	06	0.09	10.80	6.93	3.10	65	64	7.0	7.2	6.8	7.0	12.0	<0.10				
Thu	07	0.00	9.90	6.459	2.40	64	64	7.1	7.4	6.9	6.9	10.5	<0.10				
Fri	08	0.19	9.30	6.388	5.10	63	63	7.6	7.8	7.5	7.6	10.0	<0.10				
Sat	09	0.02	8.50	5.573	2.90	62	62	7.6	7.7	7.4	7.5	10.5	<0.10				
Sun	10	0.00	9.10	5.966	2.60	63	62	7.6	7.7	7.4	8.0	7.7	<0.10				
Mon	11	0.01	7.70	5.874	3.20	62	63	7.6	7.7	7.7	7.8	5.7	<0.10				
Tue	12	0.21	8.60	5.822	2.50	62	63	7.7	7.8	7.4	7.7	10.3	<0.10	420	10	527	3
Wed	13	0.03	8.80	5.769	2.50	61	61	7.7	7.8	7.3	7.5	10.2	<0.10	206	10	163	2
Thu	14	0.01	8.80	5.709	2.20	62	61	7.7	8.0	7.3	7.5	13.0	<0.10				
Fri	15	0.00	9.00	5.718	2.50	62	61	7.7	8.0	7.3	7.7	10.5	<0.10				
Sat	16	0.00	8.50	5.220	2.30	62	61	7.8	8.0	7.5	7.6	11.8	<0.10				
Sun	17	0.00	9.40	5.888	2.50	61	60	7.6	7.8	7.4	7.5	23.0	<0.10				
Mon	18	0.00	9.40	6.181	2.60	62	60	7.6	7.8	7.3	7.6	10.0	<0.10	204	13	190	5
Tue	19	0.00	8.40	5.996	2.70	63	61	7.7	7.9	7.4	7.6	12.5	<0.10	221	9	161	5
Wed	20	0.00	9.40	5.994	2.40	62	61	7.6	7.7	7.4	7.7	11.3	<0.10				
Thu	21		8.40	5.881	2.50	64	62	7.6	7.8	7.5	7.7	10.5	<0.10				
Fri	22		8.30	5.399	2.50	64	62	7.6	7.8	7.4	7.7	10.7	<0.10				
Sat	23	0.03	8.00	5.241	2.60	61	61	7.7	7.8	7.5	7.5	11.2	<0.10				
Sun	24	0.16	7.60	5.17	2.40	61	60	7.6	7.7	7.5	7.6	7.5	<0.10				
Mon	25	0.00	8.90	5.294	2.30	62	60	7.6	8.0	7.3	7.6	10.3	<0.10	186	10	180	4
Tue	26	0.00	7.80	4.485	2.10	65	60	7.7	7.8	7.4	7.7	11.3	<0.10	229	7	212	3
Wed	27	0.00	7.00	4.514	2.30	64	61	7.6	7.7	7.5	7.7	8.7	<0.10				
Thu	28	0.16	6.40	4.087	2.20	60	60	7.6	7.7	7.5	7.7	4.2	<0.10				
Fri	29	0.08	5.60	3.845	2.30	58	58	7.6	7.7	7.5	7.5	5.2	<0.10				
Sat	30		6.50	4.299	2.20	59	58	7.6	7.7	7.2	7.5	5.8	<0.10				
		Total Precip 2.53	Monthly 5.916		Monthly Average 62 61		Monthly 7.0 8.0 6.8 8.0				Monthly Maximum 23.0	Monthly Maximum <0.10	30 day arithmetic mean (1) Inf.(mg/l) Eff.(mg/l) 238 11		30 day arithmetic mean (1) Inf.(mg/l) Eff.(mg/l) 221 4		
		Monthly Total 177.471										30 Day Avg Quantity Loading (1)		11,732 lbs/day	528 lbs/day	10,785 lbs/day	180 lbs/day

(1) Refer to January 1994 edition of *Dmr Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES)* for procedures to calculate loadings, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.

(2) If temperature is measured more than once a day, report the average for the day.

NOTE: Refer to current SPDES permit for specific monitoring requirements. Sample type for temperature, pH and settleable solids is grab

FACILITY MAILING ADDRESS (Street, City, State, Zip Code)					TELEPHONE NUMBER		CHIEF OPERATOR'S NAME		CERTIFICATION GRADE
525 Third Street, Ithaca N.Y. 14850					(607) 273-8381		CJ Kilgore		4 - A
Day	Date	TOTAL PHOSPHORUS(mg/l)		PHOS	CHLORINE RESIDUAL		FECAL COLIFORM	REMARKS Enter any other comments, observations, operating problems, equipment failure, etc.	
		Influent Type	Effluent Type	TMRA Eff	Effluent mg/l	Pre-SO2	Post SO2		
Fri	01				0.29	0.020			
Sat	02				0.40	0.030			
Sun	03				0.49	0.030			
Mon	04				0.44	0.040	21		
Tue	05	4.31	0.10		0.29	0.020	24		
Wed	06	3.93	0.13		0.41	0.020			
Thu	07				0.33	0.030			
Fri	08				0.45	0.030			
Sat	09				0.50	0.030			
Sun	10				0.55	0.020			
Mon	11				0.56	0.020	20		
Tue	12	10.41	0.10		0.29	0.020	6		
Wed	13	4.25	0.09		0.45	0.010			
Thu	14				0.46	0.030			
Fri	15				0.56	0.020			
Sat	16				0.54	0.090			
Sun	17				0.43	0.050			
Mon	18	4.50	0.17		0.46	0.020	51		
Tue	19	4.43	0.16		0.35	0.050	41		
Wed	20				0.48	0.040			
Thu	21				0.64	0.070			
Fri	22				0.72	0.050			
Sat	23				0.75	0.030			
Sun	24				1.02	0.060			
Mon	25	3.93	0.13		0.54	0.040	15		
Tue	26	4.75	0.11		0.35	0.030	29		
Wed	27				0.33	0.080			
Thu	28				0.63	0.020			
Fri	29				0.68	0.020			
Sat	30				0.76	0.050			
		30 day arithmetic mean (1) Influent(mg/l) Effluent(mg/l)		TMRA Eff	Monthly Minimum(1) Maximum(1)		30 Day Geo. Mean (1)		
		5.06	0.12		0.29	0.090	22		
		247.88	6.11	20.58					
		lbs/day	lbs/day	lbs/day					

(1) Refer to January 1994 edition of Dmr Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES) for procedures to calculate loadings, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.

NOTE: Refer to current SPDES permit for specific monitoring requirements. Sample type for chlorine residual and fecal coliform is grab

		NON-CONVENTIONAL POLLUTANTS NY0026638																		
		SEMI-VOLATILE ORGANICS										METALS								
		TKN mg/l	TKN mg/l	AMM mg/l	AMM mg/l	TRI ug/l	TETRA ug/l	CHLORO ug/l	1,2 TRANS ug/l	METH ug/l	PTHAL ug/l	Ca mg/l	Ca mg/l	Cu mg/l	Cu mg/l	Pb mg/l	Ni mg/l	Ag mg/l	Zn mg/l	
Day	Date	Influent Sample	Effluent Type	Influent Sample	Effluent Type	Effluent Sample	Effluent Sample	Effluent Sample	Effluent Sample	Effluent Sample	Effluent Sample	Influent Sample	Effluent Sample	Influent Sample	Effluent Sample	Effluent Sample	Effluent Sample	Effluent Sample	Effluent Sample	
Fri	01																			
Sat	02																			
Sun	03																			
Mon	04																			
Tue	05																			
Wed	06																			
Thu	07																			
Fri	08																			
Sat	09																			
Sun	10																			
Mon	11																			
Tue	12																			
Wed	13	32.1	16.1	22.3	16.9	<1.0	<1.0	<1.0	<1.0	<2.0		<0.020	<0.020	0.143	0.029					
Thu	14																			
Fri	15																			
Sat	16																			
Sun	17																			
Mon	18																			
Tue	19																			
Wed	20																			
Thu	21																			
Fri	22																			
Sat	23																			
Sun	24																			
Mon	25																			
Tue	26																			
Wed	27																			
Thu	28																			
Fri	29																			
Sat	30																			
30 day arithmetic mean (1)		32.10 mg/l	16.10 mg/l	22.30 mg/l	16.90 mg/l	<1.0 ug/l	<1.0 ug/l	<1.0 ug/l	<1.0 ug/l	<2.0 ug/l	ug/l	<0.020 mg/l	<0.020 mg/l	0.143 mg/l	0.029 mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
30 Day Aver. Quantity Loading (1)		1,544.4 lbs/day	774.6 lbs/day	1,072.9 lbs/day	813.1 lbs/day	<0.048 lbs/day	<0.048 lbs/day	<0.048 lbs/day	<0.048 lbs/day	<0.096 lbs/day	lbs/day	<0.96 lbs/day	<0.96 lbs/day	6.88 lbs/day	1.40 lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day

(1) Refer to January 1994 edition of DMR Manual for Completing the Discharge Monitoring Report for the National Pollutant Discharge Elimination System (NPDES) for procedures to calculate loading, arithmetic mean, geometric mean, maximum, minimum, percent removal, etc.



**Operator and Engineer's Report  
SJC Meeting  
18 DECEMBER, 2019**

**1. Plant Maintenance & Operations**

a. Nothing new significant to report.

**2. Facilities Maintenance & Operations**

a. Grit Removal and Misc. Improvements (GHD) – Bid over approved amount by nearly 4 million dollars. Would like to get approval for additional funds, all work included in package is essential for plants continued proper operation and compliance going forward. Contractors that would have been successful low bidders willing to hold bid price past required time frame if we can move forward expeditiously.

**3. Staff Management**

**4. Reporting**

**5. Business, Long Term Development**

<b>Equipment</b>	<b>Usage(ft<sup>2</sup>) November</b>	<b>Usage(ft<sup>2</sup>) October</b>	<b>Usage(ft<sup>2</sup>) September</b>	<b>Usage(ft<sup>2</sup>) August</b>	<b>Usage(ft<sup>2</sup>) July</b>	<b>Usage(ft<sup>2</sup>) June</b>	<b>Usage(ft<sup>2</sup>) May</b>	<b>Usage(ft<sup>2</sup>) April</b>
<b>Micro-turbines</b>	3,248,000	3,322,000	3,143,000	2,298,000	2,452,000	2,628,000	3,621,000	3,204,000
<b>Boilers</b>	595,000	77,000	70,000	157,000	111,000	111,000	139,000	343,000
<b>Waste Flare</b>	142,000	9,000	80,000	150,000	31,000	68,000	86,000	146,000
<b>Total Biogas Produced</b>	3,985,000	3,408,000	3,293,000	2,605,000	2,594,000	2,807,000	3,846,000	3,693,000

**Capital Project Construction Phase for Grit Removal Project, Concrete Restoration Project, Emergency Generator Replacement, and Miscellaneous Plant Improvements at the Ithaca Area Wastewater Facility**

**WHEREAS**, the Ithaca Area Wastewater Treatment Plant is in need of certain Capital Improvements, and

**WHEREAS**, on September 19, 2018, the Special Joint Committee (SJC) unanimously recommended to the Owners that this project be authorized and funded in an amount not to exceed \$7,190,000 for the costs required to construct the Grit Removal and Concrete Restoration project in its entirety, and

**WHEREAS**, bids were received for the Ithaca WWTF Grit Removal and Miscellaneous Improvements Project on November 26, 2019, and Staff, in association with the Plant’s consulting engineers, GHD, have completed the Post-Bid Project Cost Analysis, and

**WHEREAS**, Staff, in association with the Plant’s consulting engineers GHD, have concluded that GHD's "opinion of probable project costs" (Engineers Estimate) was low, and the bids received were responsive and reflective of today's reality, and

**WHEREAS**, whether the Contract is Awarded or Re-Bid the project funding authorization will need to be increased as follows:

	<b>Original Cost Authorized</b>	<b>Revised Cost Estimate</b>	<b>Change</b>
Contract 1 – General	\$4,420,000	\$7,417,175	\$2,997,175
Contract 2 - Electrical	\$1,260,000	\$2,043,600	\$783,600
Contract 3 - HVAC	\$310,000	\$521,900	\$211,900
<b>Subtotal Construction</b>	<b>\$5,990,000</b>	<b>\$9,982,675</b>	<b>\$3,992,675</b>
Contingency	\$600,000	\$325,000	(\$275,000)
<b>Total Construction</b>	<b>\$6,590,000</b>	<b>\$10,307,675</b>	<b>\$3,717,675</b>
Engineering, Testing, Legal, Administration	\$600,000	\$800,000	\$200,000
<b>Total Project Cost</b>	<b>\$7,190,000</b>	<b>\$11,107,675</b>	<b>\$3,917,675</b>

**WHEREAS**, the SJC recommends to the Owners that this project be authorized and funded in an additional amount not to exceed \$3,917,675 for the costs required to construct the Grit Removal and Concrete Restoration project in its entirety, and be it further

**RESOLVED**, That SJC hereby recommends authorization of this project contingent upon action by all wastewater partners committing their percentage of reimbursement shares to the Joint Activity Fund allocated per the Joint Sewer Agreement as follows:

<b>Municipality</b>	<b>Percentage</b>	<b>Total Project Cost</b>	<b>Increased Cost Authorization</b>
City of Ithaca	57.14	\$6,346,925	\$2,238,559
Town of Ithaca	40.88	\$4,540,818	\$1,601,546
Town of Dryden	1.98	<u>\$219,932</u>	<u>\$77,570</u>
		\$11,107,675	\$3,917,675