

ITHACA AREA WASTEWATER TREATMENT FACILITY

TOWN OF ITHACA

CITY OF ITHACA

TOWN OF DRYDEN, OWNERS

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

Special Joint Committee
Wednesday, November 9, 2022 1:00pm

**** please note this meeting is in-person at the IAWWTF ****

- 1) Welcome
- 2) Agenda Review and Approval of Minutes
- 3) Financial Report – *Steve Thayer, City Controller*
- 4) Operations and Engineering Report – *Peter Wernsdorfer, Acting Chief Operator*
 - a) Presentation BCR Bio-Scru Dryer Demonstration -- *Michael Lannon, Siewert Equipment*
- 5) Voting Items
 - a) Sludge Drying Demonstration Resolution – *Scott Gibson, City Controller*
- 6) Discussion Items
 - a) Plant to Plant Agreement update – *Bill Goodman, Town of Ithaca*
- 7) Adjournment

Upcoming Meeting Dates: December 14, January 11

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
 October 31, 2022
 11/4/2022

Revenues:							
J8150							
Account #	Description	Budget	Actual	Excess or (Deficiency)	% Rec'd		
2373	Septage Service Other	\$ 620,000	\$ 462,570	\$ (157,430)	74.61%		
2374	Sewer Service Other Govt's	\$ 3,251,769	\$ 3,251,769	\$ -	100.00%		
2392	Debt Service Other Govt's	\$ 1,358,002	\$ -	\$ (1,358,002)	0.00%		
2401	Interest & Earnings	\$ 1,000	\$ -	\$ (1,000)	0.00%		
2665	Sale of Equipment	\$ 1,500	\$ -	\$ (1,500)	0.00%		
2680	Insurance Recoveries	\$ -	\$ -	\$ -			
2701	Refund of Prior Year Expense	\$ -	\$ -	\$ -			
2705	Gifts and Donations	\$ -	\$ -	\$ -			
2770	Unclassified Revenue	\$ 1,000	\$ 5,760	\$ 4,760	576.00%		
Total Revenues as of 10/31/22		\$ 5,233,271	\$ 3,720,099	\$ (1,513,172)	71.09%		

IAWWTF
Approved Budget and Actual Activity
As of
October 31, 2022
11/4/2022

Expenditures:							
J8150							
Account #	Description	Budget	Actual	Available Balance	% Used		
<i>Operations:</i>							
1920	Municipal Association Dues	\$ 1,119	\$ 1,086	\$ 33	97.05%		
1990	Contingency Account	\$ 37,640	\$ -	\$ 37,640	0.00%		
5105	Administration Salaries	\$ -	\$ -	\$ -	0.00%		
5110	Staff Salaries	\$ 862,922	\$ 592,694	\$ 270,228	68.68%		
5115	Hourly F/T	\$ 22,094	\$ 10,006	\$ 12,088	45.29%		
5120	Hourly P/T	\$ 15,000	\$ -	\$ 15,000	0.00%		
5125	Overtime	\$ 22,000	\$ 13,027	\$ 8,973	59.21%		
5210	Office Equipment	\$ -	\$ -	\$ -	0.00%		
5215	Motor Vehicles	\$ 35,000	\$ -	\$ 35,000	0.00%		
5225	Other Equipment	\$ -	\$ -	\$ -	0.00%		
5405	Telephone	\$ 6,200	\$ 3,695	\$ 2,505	59.60%		
5410	Utilities	\$ 305,000	\$ 238,904	\$ 66,096	78.33%		
5415	Clothing	\$ 7,500	\$ 8,169	\$ (669)	108.92%		
5420	Gas & Oil	\$ 10,000	\$ 6,827	\$ 3,173	68.27%		
5425	Office Expense	\$ 2,000	\$ 546	\$ 1,454	27.30%		
5430	Fees	\$ 115,000	\$ 33,818	\$ 81,182	29.41%		
5435	Contracts	\$ 158,000	\$ 236,824	\$ (78,824)	149.89%		
5436	Overhead Charge City General Fund	\$ 198,500	\$ 99,250	\$ 99,250	50.00%		
5440	Staff Development	\$ 20,000	\$ 11,645	\$ 8,355	58.23%		
5450	Advertising	\$ 200	\$ 8	\$ 192	4.00%		
5455	Insurance	\$ 186,000	\$ 181,834	\$ 4,166	97.76%		
5475	Property Maintenance	\$ -	\$ -	\$ -	0.00%		
5476	Equipment Maintenance	\$ -	\$ -	\$ -	0.00%		
5477	Equipment Parts	\$ 176,725	\$ 258,174	\$ (81,449)	146.09%		
5479	Vehicle Maintenance	\$ 2,000	\$ -	\$ 2,000	0.00%		
5480	Building Maintenance Supplies	\$ 18,000	\$ 4,218	\$ 13,782	23.43%		
5494	Safety Materials & Supplies	\$ 6,000	\$ 4,210	\$ 1,790	70.17%		
5495	Treatment Supplies	\$ 550,000	\$ 300,716	\$ 249,284	54.68%		
5496	Lab Supplies	\$ 84,000	\$ 30,310	\$ 53,690	36.08%		
5499	Sludge Disposal Fees	\$ 450,000	\$ 265,671	\$ 184,329	59.04%		
5700	Prior Year Encumbrances	\$ 96,043	\$ 96,043	\$ -	0.00%		
5720	Prior Year Equipment	\$ -	\$ -	\$ -	0.00%		
	Sub-Totals	\$ 3,386,943	\$ 2,397,675	\$ 989,268	70.79%		
<i>Benefits:</i>							
9010	State Retirement	\$ 86,275	\$ -	\$ 86,275	0.00%		
9030	Social Security	\$ 70,534	\$ 47,142	\$ 23,392	66.84%		
9040	Workers Compensation	\$ 28,000	\$ 11,643	\$ 16,357	41.58%		
9050	Unemployment Insurance	\$ -	\$ -	\$ -	0.00%		
9060	Health Insurance	\$ 393,360	\$ 386,938	\$ 6,422	98.37%		
9070	Dental Insurance	\$ 4,000	\$ 3,754	\$ 246	93.85%		
9080	Day Care Assistance	\$ 200	\$ -	\$ 200	0.00%		
9089	Employee Tuition	\$ 2,000	\$ -	\$ 2,000	0.00%		
	Sub-Totals	\$ 584,369	\$ 449,477	\$ 134,892	76.92%		
<i>Debt Service</i>							
9710	Serial Bonds	\$ 757,747	\$ 757,747	\$ -	100.00%		
9711	Interest on Serial Bonds	\$ 591,133	\$ 588,227	\$ 2,906	99.51%		
9730	BANS	\$ 900	\$ 900	\$ -	0.00%		
9731	Interest on BANS	\$ 8,222	\$ 8,221	\$ 1	99.99%		
	Sub-Totals	\$ 1,358,002	\$ 1,355,095	\$ 2,907	99.79%		
<i>Interfund Transfers</i>							
9951	Transfer to Capital Reserves	\$ -	\$ -	\$ -	0.00%		
	Sub-Totals	\$ -	\$ -	\$ -	0.00%		
Total All Expenditures as of 10/31/22		\$ 5,329,314	\$ 4,202,247	\$ 1,127,067	78.85%		

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	Surplus(deficit) as of 10/31/22		\$ (96,043)	\$ (482,148)		\$ (386,105)	
	*\$0 was appropriated from Fund Balance surplus for 2022						

Capital Activity:		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		\$ 251,938.00						
	Capital Projects:								
409J	Phosphorus Removal Improvements	Closed	\$ 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	\$ (42,787.28)	\$ (27,787.28)	\$ 132,927	\$ 160,714.28	\$ 206.16	\$ 132,927.00	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	To close	\$ (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, NYSEDA Grant \$406,179
418J	Septage Receiving Facility Improvements	To close	\$ 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	\$ 13,487.51	\$ 62,487.51	\$ 3,953,563	\$ 3,891,075.49	\$ -	\$ 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	Closed	\$ -	\$ -	\$ 148,960	\$ 148,960.00	\$ -	\$ 148,960.00	Authorized, funded from NYSEDA Grant
422J	IAWWTF Various Improvements to Facility	Active	\$ 676,783.29	\$ 1,333,889.29	\$ 14,341,850	\$ 13,007,960.71	\$ 32,295.43	\$ 14,341,850.00	Authorized, capital reserve funding/Bonds/ARPA
423J	IAWWTF Boiler Room Evaluation	Active	\$ (18,500.00)	\$ 650,000.00	\$ 668,500	\$ 18,500.00	\$ -	\$ 668,500.00	Authorized, capital reserve funding
424J	IAWWTF Actiflow System Upgrade	Active	\$ 959.97	\$ 959.97	\$ 102,685	\$ 101,725.03	\$ -	\$ 102,385.00	Authorized, funding from each entity
425J	IAWWTF Chemical Bulk Storage Tanks Replace	Active	\$ (10,143.68)	\$ 89,856.32	\$ 457,000	\$ 367,143.68	\$ -	\$ 457,000.00	Authorized, funding from each entity
	Total Capital Projects		\$ 1,191,675.78	\$ 2,759,424.98	\$ 38,341,958.00	\$ 36,006,624.02	\$ 32,501.59	\$ 37,678,658.00	
	Fund Balance:		Amount						
12/31/2015	Capital Reserves		\$ 714,520						
	Assigned		\$ 160,665						
	Unassigned		\$ 1,234,482						
	Total Fund Balance		\$ 2,109,667						
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						
	Total Fund Balance		\$ 2,008,093						
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						
	Total Fund Balance		\$ 1,915,229						
12/31/2018	Restricted for Capital		\$ 253,549	Capital reserves					
	Nonspendable		\$ 27,395	Prepaid expenses					
	Assigned		\$ 461,887	Encumbrances, next year budget					
	Unassigned		\$ 1,116,391						
	Total Fund Balance		\$ 1,859,222						
12/31/2019	Restricted for Capital		\$ 251,457	Capital reserves					
	Nonspendable		\$ 27,475	Prepaid expenses					
	Assigned		\$ 368,604	Encumbrances, next year budget					
	Unassigned		\$ 893,244						
	Total Fund Balance		\$ 1,540,780						
12/31/2020	Restricted for Capital		\$ 251,938	Capital reserves					
	Nonspendable		\$ 28,255	Prepaid expenses					
	Assigned		\$ 121,093	Encumbrances, next year budget					
	Unassigned		\$ 1,079,309						
	Total Fund Balance		\$ 1,480,595						

City of Ithaca
IAWWTP
Summary of CP 414J
11/4/2022

IAWWTP Flow Meter Stations Rehabilitation CP 414J							
Authorizations:						Amount	Source
6/2/2004	CC regular Meeting					\$ 100,000.00	Capital Reserve J1/Bonds
12/9/2017	CC regular Meeting					\$ 2,927.00	Capital Reserve J1/Bonds
3/4/2020	CC regular Meeting		CFA Grant			\$ 30,000.00	Grant
			Engineering Planning grant				20% match
Total Authorization						\$ 132,927.00	
Expenditures:							
Date	Payee		PO	Voucher	Amount	Comments	
10/17/2007	Dataflow			1024	\$ 123.00	inv 40209 for bid documents	
10/24/2007	Dataflow			1025	\$ 73.30	inv 40347 for additional documents	
11/15/2007	Ithaca Journal			1026	\$ 31.05	inv 1140935 legal ad	
	UPS			1027	\$ 30.40	inv AE5225407, AE5225417 delivery of documents	
11/24/2008	City of Ithaca W/S			1050	\$ 2,185.00	inv 8360 manholes provided to contractor	
12/18/2008	McPherson Builders	\$ 61,993.00		1057	\$ 59,808.00	App 1 final const work for Sanitary Sewer Flow Monitoring Station	
9/16/2010	Siemens Industry			1076	\$ 2,592.80	inv 5564418859 monitoring station upgrade Danby Road	
10/10/2010	McMaster-Carr			1077	\$ 621.18	inv 63622659 flow stations control cabinet	
10/27/2010	Siemens Industry			1078	\$ 487.86	inv 5564561637 monitoring station part	
2/1/2011	Pleasant Valley Electric Inc		ap10	1081	\$ 1,373.00	inv 18257 new service at the pump station	
2/25/2011	Pleasant Valley Electric Inc			1082	\$ 188.70	inv 18397 electrical work at breaker	
6/10/2011	Ritec			1084	\$ 504.16	inv 21130 monitoring station part	
6/12/2012	Process Control Specialists			1096	\$ 4,690.09	inv 12,036, 12,040, 12,041 for instrumentation for remote site flow metering stations	
8/22/2012	McMaster-Carr	\$ 5,065.31		1099	\$ 375.22	inv 32680468 flow meter equip	
5/31/2013	Process Control Specialists			1108	\$ 4,509.79	inv 13,035, 13,036 for instrumentation for remote site flow metering stations	
6/20/2013	Process Control Specialists	\$ 6,005.66		1109	\$ 1,495.87	inv 13,041, 13,048 for instrumentation for remote site flow metering stations	
12/31/2017	MRB Group			1282	\$ 710.00	inv 25796 Flow meter work 11/26/17-12/23/17	
2/26/2018	MRB Group			1283	\$ 1,668.67	inv 26014 Flow meter work 12/24/17-1/20/18	
3/17/2018	MRB Group			1287	\$ 1,748.67	inv 26214 Flow meter work 1/21/18-2/17/18	
4/9/2018	MRB Group			1288	\$ 5,577.34	inv 26419 Flow meter work 2/21/18-3/17/18	
5/8/2018	MRB Group			1289	\$ 2,023.55	inv 26762 Flow meter work 3/18/18-4/14/18	
6/13/2008	MRB Group			1291	\$ 880.00	inv 26762 Flow meter work 4/15/18-5/12/18	
7/9/2018	MRB Group			1293	\$ 777.34	inv 27129 Flow meter work 5/13/18-6/9/18	
8/6/2018	MRB Group			1295	\$ 1,257.34	inv 27373 Flow meter work 6/10/18-7/7/18	
9/10/2018	MRB Group			1300	\$ 457.34	inv 27687 Flow meter work 7/8/18-8/4/18	
9/25/2018	MRB Group			1301	\$ 1,120.00	inv 28014 Flow meter work 8/5/18-9/1/18	
10/23/2018	MRB Group			1303	\$ 480.00	inv 28236 Flow meter work 9/2/18-9/29/18	
12/31/2018	MRB Group			1306	\$ 1,188.67	inv 28812 Flow meter work 10/28/18-11/24/18	
3/14/2019	MRB Group	\$ 17,887.59		1320	\$ 1,120.00	inv 29641 Flow meter work 1/20/19-2/16/19	
4/15/2019	MRB Group		ap18	1322	\$ 708.67	inv 29095 Flow meter work 12/25/18-12/22/18	
	MRB Group			1322	\$ 320.00	inv 29957 Flow meter work 2/17/19-3/16/19	
5/20/2019	MRB Group			1324	\$ 1,120.00	inv 30412 Flow meter work 3/17/19-4/13/19	
7/22/2019	MRB Group			1325	\$ 2,720.00	inv 30958 Flow meter work 5/12/19-6/8/19	
10/8/2019	MRB Group	\$ 5,559.91		1331	\$ 279.91	inv 32113 Flow meter work 8/4/19-8/31/19	
5/19/2020	Lectre Development			1338	\$ 25,330.00	inv I-200302, I200303, I200304, I200305, I200306, I200307, I200308 5 flow meters	
	MRB Group			1337	\$ 415.83	inv 34672 Flow meter work 3/15/20-4/11/20	
6/15/2020	MRB Group			1339	\$ 1,212.63	inv 35012 Flow meter work 4/12/20-5/9/20	
8/19/2020	MRB Group			1352	\$ 3,490.98	inv 35597, 35698 Flow meter work 5/10/20-7/4/2020	
9/9/2020	MRB Group			1353	\$ 1,155.36	inv 36068 flow meter work 7/7/20-8/4/20	
10/14/2020	MRB Group			1362	\$ 2,463.41	inv 36769, 36470 flow meter work 8/2/20-9/26/20	
11/18/2020	MRB Group			1368	\$ 1,679.95	inv 37067 flow meter work 9/27/20- 10/24/20	
12/23/2020	MRB Group	\$ 36,485.20		1370	\$ 737.04	inv 37448 flow meter work 11/1/20-11/24/20	
3/10/2021	MRB Group			1390	\$ 174.30	inv 37982 flow meter work 12/20/20-1/16/2021	
4/7/2021	MRB Group			1402	\$ 480.57	inv 38212 flow meter work 1/18/21-2/15/21	
4/21/2021	MRB Group			1405	\$ 1,389.42	inv 38576 flow meter work 2/15/21-3/16/21	
5/12/2021	MRB Group			1408	\$ 1,419.55	inv 38938 flow meter work 3/17/21-4/13/21	
6/23/2021	MRB Group			1418	\$ 779.12	inv 39281 flow meter work 4/13/21-5/7/21	
10/20/2021	MRB Group			1434	\$ 525.39	inv 40651 flow meter work 8/4/21-8/27/21	
11/3/2021	MRB Group			1435	\$ 896.40	inv 40931 flow meter work 8/29/21-9/25/21	
12/8/2021	MRB Group			1438	\$ 2,024.37	inv 41189 flow meter work 9/25/21-10/25/21	
2/9/2022	MRB Group		ap21	1461	\$ 1,299.78	inv 41905 flow meter work 11/21/21-12/18/21	
3/9/2022	MRB Group			1468	\$ 971.10	inv 42246 & 42607 flow meter work 12/19/21-1/15/22, 1/16/22-2/12/22	
8/17/2022	Lectre Development			1489	\$ 10,813.00	inv 220510 & 220511 flow monitoring systems	
10/26/2022	MRB Group				\$ 209.16	inv 45087 7/3/22-7/31/22 flow meter work	
Total Expenditures to date						\$ 160,714.28	
Balance of Authorization						\$ (27,787.28)	
Funding Sources:							
12/9/2013	From Capital Reserve J-1					\$ 100,000.00	
5/20/2019	From Capital Reserve J-1					\$ 2,927.00	
12/24/2020	EFC EPG #90698 grant partial		Wire			\$ 15,000.00	2020 revenue
Total Funding						\$ 117,927.00	
Cash Balance						\$ (42,787.28)	
Contracts:							
		Amount	Expended	Balance			
McPherson Builders	\$ 59,808.00	\$ 59,808.00	\$ -				
MRB Group	\$ 24,900.00	\$ 45,481.86	\$ (20,581.86)	Design work			

IAWWTF
Summary of CP 422J
11/4/2022

IAWWTF Design for Various Improvements to Plant 422J										
Authorizations:										
						Amount	Source		Allocation per SJS Budget:	
12/6/2017	Regular CC meeting		City of Ithaca	\$ 248,088	0.571401	\$ 434,175.00	Reserve/Bonds	\$ 434,175	2/15/2018	BANS
			Town of Ithaca	\$ 177,491	0.408801	\$ -				\$ -
			Town of Dryden	\$ 8,596	0.019798			\$ -		\$ -
				\$ 434,175				\$ -		\$ -
12/5/2018	Regular CC meeting		City of Ithaca	\$ 4,108,366		\$ 7,190,000.00	Bonds	\$ 7,190,000	2/19/2019	
			Town of Ithaca	\$ 2,939,272						
			Town of Dryden	\$ 142,362						
				\$ 7,190,000						
1/8/2020	Regular CC meeting		City of Ithaca	\$ 2,238,559		\$ 11,541,850.00	\$ 3,917,675.00	Bonds	\$ 3,917,675.00	2/19/2021 BAN
			Town of Ithaca	\$ 1,601,546						
			Town of Dryden	\$ 77,570						
				\$ 3,917,675						
5/5/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 942,812	0.571401	\$ 1,650,000.00	Various sources			
			Town of Ithaca	\$ 674,521	0.408801					
			Town of Dryden	\$ 32,667	0.019798					
				\$ 1,650,000						
10/6/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 657,111	ARPA	\$ 1,150,000.00				
			Town of Ithaca	\$ 470,121						
			Town of Dryden	\$ 22,768						
				\$ 1,150,000						
				\$ 492,889						
				\$ 1,599,923						
Total Authorization						\$ 14,341,850.00		\$ 11,541,850		
Expenditures:										
Date	Payee		PO	Voucher	Amount	Comment				
4/4/2019	GHD Consulting Services Inc			1318	\$ 1,173.92	Bonding cost				
4/30/2019	GHD Consulting Services Inc			1321	\$ 3,350.00	inv 71812 engineering services to 2/19/19				
12/16/2019	GHD Consulting Services Inc	\$ 37,783.68		1332	\$ 2,970.00	inv 72375 engineering services to 3/26/19				
1/21/2020	GHD Consulting Services Inc	\$ 39,810.00	ap19	1333	\$ 11,490.00	inv 75450 engineering services to 9/21/19				
3/10/2020	Premier Printing	BANS		1335	\$ 709.19	inv 76426 engineering services to 11/23/19				
	Orrick			1334	\$ 1,653.88	Bonding cost				
	Fiscal Advisors			1336	\$ 2,778.52	Bonding cost				
6/15/2020	GHD Consulting Services Inc			1340	\$ 19,373.75	inv 78767 engineering services to 4/18/20				
	M.A. Bongiovanni, Inc.			1341	\$ 353,637.50	App 1 General Construction 3/9/20-4/25/20				
6/24/2020	GHD Consulting Services Inc			1343	\$ 22,574.75	inv 79199 engineering services to 5/23/20				
	M.A. Bongiovanni, Inc.	\$ 762,761.00		1342	\$ 367,175.00	App 2 General Construction 4/25/20-5/31/20				
8/19/2020	M.A. Bongiovanni, Inc.			1348	\$ 311,281.56	App 3 General Construction 6/1/20-6/30/20				
8/19/2020	GHD Consulting Services Inc	\$ 409,434.50		1349	\$ 98,152.94	inv 79682,79683, 80125, 80126 engineering services to 7/25/20				
9/9/2020	GHD Consulting Services Inc			1357	\$ 143,190.24	inv 78481, 78766, 79198, 80472,80473 engineering services thru 8/22/20, and onsite re				
9/1/2020	M.A. Bongiovanni, Inc.			1354	\$ 501,639.63	App 4 & 5 General Construction 7/1/20 thru 9/1/20				
9/1/2020	Matco Electric	\$ 677,528.87		1356	\$ 32,699.00	App 1 for electrical services 7/1/20-7/31/20				
10/14/2020	GHD Consulting Services Inc			1361	\$ 39,287.54	inv 80773, 80774 engineering services through 9/19/2020				
	Matco Electric			1360	\$ 19,983.25	App 2 for electrical services 8/1/20-8/31/20				
10/21/2020	M.A. Bongiovanni, Inc			1363	\$ 1,115,922.25	App 6 general construction 9/1/20 thru 9/30/20				

IAWWTF
 Summary of CP 422J
 11/4/2022

IAWWTF Design for Various Improvements to Plant 422J											
Authorizations:											
						Amount	Source		Allocation per SJS Budget:		
12/6/2017	Regular CC meeting		City of Ithaca	\$ 248,088	0.571401	\$ 434,175.00	Reserve/Bonds	\$ 434,175	2/15/2018	BANS	\$ -
			Town of Ithaca	\$ 177,491	0.408801	\$ -					\$ -
			Town of Dryden	\$ 8,596	0.019798			\$ -			\$ -
				\$ 434,175				\$ -			\$ -
12/5/2018	Regular CC meeting		City of Ithaca	\$ 4,108,366		\$ 7,190,000.00	Bonds	\$ 7,190,000	2/19/2019		
			Town of Ithaca	\$ 2,939,272							
			Town of Dryden	\$ 142,362							
				\$ 7,190,000							
1/8/2020	Regular CC meeting		City of Ithaca	\$ 2,238,559		\$ 11,541,850.00	\$ 3,917,675.00	Bonds	\$ 3,917,675.00	2/19/2021	BAN
			Town of Ithaca	\$ 1,601,546							
			Town of Dryden	\$ 77,570							
				\$ 3,917,675							
5/5/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 942,812	0.571401	\$ 1,650,000.00	Various sources				
			Town of Ithaca	\$ 674,521	0.408801						
			Town of Dryden	\$ 32,667	0.019798						
				\$ 1,650,000							
10/6/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 657,111	ARPA	\$ 1,150,000.00					
			Town of Ithaca	\$ 470,121							
			Town of Dryden	\$ 22,768							
				\$ 1,150,000							
				\$ 492,889							
				\$ 1,599,923							
Total Authorization						\$ 14,341,850.00		\$ 11,541,850			
Expenditures:											
Date	Payee		PO	Voucher	Amount	Comment					
11/4/2020	Matco Electric Corp			1364	\$ 40,670.56	App 3 services 9/1/20-9/30/20					
	GHD Consulting Services Inc			1365	\$ 64,496.48	Inv 77860 eng services thru 2/22/20, 81581 eng services thru 10/17/2020 and 81582 or					
	M.A. Bongiovanni, Inc			1366	\$ 1,229,319.38	App 7 general construction 10/1/2020-10/31/2020					
	Matco Electric Corp			1367	\$ 89,694.25	App 4 for electrical services 10/1/20-10/31/20					
12/23/2020	M.A. Bongiovanni, Inc			1371	\$ 386,306.67	App 8 general construction 11/1/20-11/30/20					
	GHD Consulting Services Inc			1372/1373	\$ 37,475.60	inv 81792, 81793 engineering services and onsite rep thru 11/21/20					
	Matco Electric Corp	\$ 5,018,917.94	\$ 564,678.27	1374	\$ 140,896.00	App 5 electrical services 11/1/20-11/30/20					
1/27/2021	GHD Consulting Services Inc			ap20	\$ 30,081.26	Inv 82330, 82333 engineering services and on-site rep thru 12/19/20					
	John W. Danforth Co	\$ 1,796,625.01		ap20	\$ 339,247.35	Inv PB107690 pay app 1 services thru 11/30/20					
	M.A. Bongiovanni, Inc.			ap20	\$ 575,130.91	App 9 general construction 11/30-12/31/20					
	Matco Electric Corporation	\$ 2,361,303.28		ap20	\$ 852,165.49	App 6 electrical services 12/1-12/31/2020					
3/10/2021	M.A. Bongiovanni, Inc	\$ 7,822,406.85		1392/1393	\$ 1,012,005.49	App10 and 11 construction 1/1/21 thru 2/28/21					
	GHD Consulting Services Inc			1394/1395/1396/1397	\$ 66,610.52	inv 82821, 82822, 83265, and 83266 engineering services and on-site rep thru 2/20/21					
	Matco Electric Corp	\$ 1,439,199.91		1398/1399	\$ 360,583.90	App 7 & 8 electrical services thru 2/28/2021					
	Fiscal Advisors	Bonds		1382	\$ 7,253.35	Bonding cost					
	Moody's			1383	\$ 9,162.12	Bonding cost					
	Premier Printing			1387	\$ 1,221.62	Bonding cost					
	Orrick			1388	\$ 5,592.71	Bonding cost					
	Fiscal Advisors	BANS		1384	\$ 2,230.18	Bonding cost					
	Premier Printing			1389	\$ 704.06	Bonding cost					

IAWWTF
 Summary of CP 422J
 11/4/2022

IAWWTF Design for Various Improvements to Plant 422J										
Authorizations:						Amount	Source		Allocation per SJS Budget:	
12/6/2017	Regular CC meeting		City of Ithaca	\$ 248,088	0.571401	\$ 434,175.00	Reserve/Bonds	\$ 434,175	2/15/2018	BANS
			Town of Ithaca	\$ 177,491	0.408801	\$ -				\$ -
			Town of Dryden	\$ 8,596	0.019798			\$ -		\$ -
				\$ 434,175				\$ -		\$ -
12/5/2018	Regular CC meeting		City of Ithaca	\$ 4,108,366		\$ 7,190,000.00	Bonds	\$ 7,190,000	2/19/2019	
			Town of Ithaca	\$ 2,939,272						
			Town of Dryden	\$ 142,362						
				\$ 7,190,000						
1/8/2020	Regular CC meeting		City of Ithaca	\$ 2,238,559		\$ 11,541,850.00	\$ 3,917,675.00	Bonds	\$ 3,917,675.00	2/19/2021 BAN
			Town of Ithaca	\$ 1,601,546						
			Town of Dryden	\$ 77,570						
				\$ 3,917,675						
5/5/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 942,812	0.571401	\$ 1,650,000.00	Various sources			
			Town of Ithaca	\$ 674,521	0.408801					
			Town of Dryden	\$ 32,667	0.019798					
				\$ 1,650,000						
10/6/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 657,111	ARPA	\$ 1,150,000.00				
			Town of Ithaca	\$ 470,121						
			Town of Dryden	\$ 22,768						
				\$ 1,150,000						
				\$ 492,889						
				\$ 1,599,923						
Total Authorization						\$ 14,341,850.00		\$ 11,541,850		
Expenditures:										
Date	Payee		PO	Voucher	Amount	Comment				
10/20/2021	GHD Consulting Services Inc			1432	\$ 17,025.84	inv 337-0000407on site rep thru 8/28/2021				
	GHD Consulting Services Inc			1433	\$ 2,230.84	inv 337-0000692 on site rep thru 9/18/2021				
11/3/2021	M.A.Bongiovanni			1436	\$ 275,750.20	app 18 construction services 9/1-9/30/21				
12/8/2021	M.A.Bongiovanni			1439	\$ 53,982.96	app 19 construction services 10/1/21-10/31/21				
	GHD Consulting Services Inc			1440	\$ 73,146.00	inv 337-0001039 thru 10/23/21				
	Matco Electric	\$ 129,503.96		1441	\$ 2,375.00	app #13 electrical services 7/1/21-7/31/21				
1/12/2022	M.A.Bongiovanni			ap21	\$ 11,990.00	app 20 construction services 11/1-11/30/21				
	GHD Consulting Services Inc			ap21	\$ 1,822.80	inv 337-0001321 services thru 11/20/21				
	Matco Electric	\$ 18,831.65		ap21	\$ 5,018.85	app 14 & 15 electrical services 10/1-11/30/21				
2/9/2022	M.A. Bongiovanni			ap21	\$ 214,730.51	app 21 construction services 12/1/22-12/31/22				
3/9/2022	M.A.Bongiovanni			1467	\$ 162,721.59	app 22 construction services 1/1/22- 1/31/22				
	GHD Consulting Services Inc			1466	\$ 37,398.55	inv 337-0002215 services thru 2/19/22				
	Matco Electric			ap21	\$ 30,978.74	app #16 electrical services 12/1/21-12/31/21				
3/30/2022	M.A. Bongiovanni	\$ 267,006.44		1474	\$ 35,907.56	app 23 construction services 2/1/22- 2/28/22				
4/27/2022	GHD Consulting Services Inc			1475	\$ 3,935.00	inv 337-0002433 services thru 3/26/2022				
5/11/2022	GHD Consulting Services Inc			1477	\$ 1,722.00	inv 337-0002817 services thru 4/23/22				
	Matco Electric	\$ 103,902.00		1476	\$ 102,180.00	app #17 retainage electrical services 1/1-1/31/2022				
6/2/2022	GHD Consulting Services Inc			1480	\$ 1,231.00	inv 337-0003126 services thru 5/21/22				
8/17/2022	GHD Consulting Services Inc			1488	\$ 1,247.50	inv 337-0003471 & inv 337-003873 services thru 7/23/22				
	John W. Danforth Co	\$ 9,601.40		1487	\$ 8,353.90	app 6 services thru 2/28/22				

IAWWTF
 Summary of CP 422J
 11/4/2022

<u>IAWWTF Design for Various Improvements to Plant 422J</u>										
<u>Authorizations:</u>										
						<u>Amount</u>	<u>Source</u>		<u>Allocation per SJS Budget:</u>	
12/6/2017	Regular CC meeting		City of Ithaca	\$ 248,088	0.571401	\$ 434,175.00	Reserve/Bonds	\$ 434,175	2/15/2018	BANS
			Town of Ithaca	\$ 177,491	0.408801	\$ -				\$ -
			Town of Dryden	\$ 8,596	0.019798			\$ -		\$ -
				\$ 434,175				\$ -		\$ -
12/5/2018	Regular CC meeting		City of Ithaca	\$ 4,108,366		\$ 7,190,000.00	Bonds	\$ 7,190,000	2/19/2019	
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10/6/2021	Regular CC meeting	ARPA	City of Ithaca	\$ 657,111	ARPA	\$ 1,150,000.00				
			Town of Ithaca	\$ 470,121						
			Town of Dryden	\$ 22,768						
				\$ 1,150,000						
				\$ 492,889						
				\$ 1,599,923						
Total Authorization						\$ 14,341,850.00		\$ 11,541,850		
<u>Expenditures:</u>										
<u>Date</u>	<u>Payee</u>					<u>PO</u>	<u>Voucher</u>	<u>Amount</u>	<u>Comment</u>	
Cash Balance								\$ 676,783.29		
<u>Project Allocation:</u>										
<u>Allocation per SJS Budget:</u>	<u>Amount</u>	<u>Expended</u>	<u>Available</u>	<u>Status</u>						
<u>Contracts</u>										
GHD Consulting Service Inc	\$ 1,267,660	\$ 1,261,060	\$ 6,600	Prof Eng design services						
Matco Electric Corporation	\$ 2,043,600	\$ 2,043,600	\$ -	Electrical contract						
John W. Danforth Co.	\$ 521,900	\$ 517,329	\$ 4,571	Grit Removal and Plant Modifications	5/5/2020					
M.A. Bongiovanni, Inc.	\$ 10,042,175	\$ 9,142,690	\$ 899,485	General Construction CO for digester repairs						
Totals	\$ 13,875,335	\$ 12,964,678	\$ 910,657							

Operator and Engineer's Report
SJC Meeting
November 9, 2022

1. Process Control

- a. Aeration Blowers – Howden was present on-site for two weeks and resolved every issue. Performance since has been exemplary
- b. Micro Turbines – RSP is on-site making repairs and resolving several programming and power issues. We expect to be fully operational by Nov 14
- c. Boilers – Decommissioning and demolition is underway. Project completion is expected mid-January

2. Maintenance Management

- a. Multiple projects are in process or completed. These projects must be scheduled for T, W, Th when fully staffed
 - i. Scum Well – complete
 - ii. Belt Press – complete
 - iii. ActiFlo – The manufacturer's representative, Koester and Association will be on-site next week.
 - iv. Septage receiving station – issue with pressure unloading is resolved
- b. Use of tracking sheets and Excel calculators continues

3. Staff Management

- a. Weekly staff meetings continued. We will be moving to a semi-monthly schedule. Lab, Process, Maintenance, and Administrative leads will report to the team.
- b. Weekly and/or semi-monthly check-ins with Lab, Safety and IPP, Maintenance, and Operations leads continue
- c. Operator training is ongoing. Operators are encouraged to book study times to prepare for certification exams
- d. Clean-up continues. Operator workstations are installed.

4. Reporting

- a. Regulatory reports sent out as scheduled
 - i. A Report of Non-Compliance was filed after some non-contact well water from the clean-up site was improperly treated through the process. Notified Chairperson Brock and Asst Supt Gibson

5. Business, Long Term Development

- a. BCR Dryer will present at this month’s meeting
- b. CMMS program – Opworks is in capital plan for 2023. A demo was conducted on Nov 2. It appears to be a robust program suited for water resources organizations

6. Operations Data

- a. Six month rolling report is included below:

Equipment	Usage(ft²) October	Usage(ft²) September	Usage(ft²) August	Usage(ft²) July	Usage(ft²) June	Usage(ft²) May
Micro-turbines	2,146,000	0	0	0	0	0
Boilers	389,000	499,303	219,000	257,000	470,706	463,000
Waste Flare	229,000	1,080,915	1,041,589	978,862	844,000	645,000
Total Biogas Produced	1,828,000	3,726,218	1,260,589	1,235,862	1,314,000	1,108,000

WASTEWATER FACILITY OPERATION REPORT FOR THE MONTH OF **September** , **2022**

SPDES PERMIT NO. NY 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
Thu	01	0.01	9.00	4.61	2.10	73	75	7.6	7.8	7.9	8.0	9.8	<0.10				
Fri	02	0.00	7.50	4.577	2.00	74	75	7.6	7.8	7.8	8.0	17.0	<0.10				
Sat	03	0.00	6.70	4.80	2.30	72	75	7.6	7.7	7.8	7.8	8.2	<0.10				
Sun	04	0.00	7.00	4.84	2.70	74	76	7.5	7.7	7.6	7.9	8.2	<0.10				
Mon	05	0.59	13.10	8.00	3.80	73	75	7.5	7.6	7.6	7.8	12.3	<0.10				
Tue	06	0.94	9.60	7.44	4.00	72	74	7.6	7.7	7.7	7.9	11.8	<0.10	227	25	290	4
Wed	07	0.38	10.00	6.399	3.80	72	74	7.6	7.7	7.5	7.8	10.3	<0.10	200	27	214	3
Thu	08	0.49	9.00	5.740	2.80	72	74	7.6	7.8	7.7	7.8	12.3	<0.10				
Fri	09	0.08	8.80	5.426	2.70	73	74	7.6	7.6	7.6	7.7	14.3	<0.10				
Sat	10	0.00	7.40	5.126	2.60	73	74	7.7	7.8	7.7	7.7	12.0	<0.10				
Sun	11	0.00	8.50	5.430	2.50	72	74	7.6	7.7	7.7	7.9	9.0	<0.10				
Mon	12	0.17	8.80	6.089	3.60	73	74	7.6	7.8	7.7	7.9	13.0	<0.10	226	19	329	3
Tue	13	0.60	10.10	7.411	3.90	72	74	7.5	8.1	7.6	7.7	14.5	<0.10	216	23	180	3
Wed	14	0.55	8.50	6.105	2.60	71	73	7.6	7.8	7.6	7.7	13.2	<0.10				
Thu	15	0.00	9.00	5.658	2.00	71	73	7.6	8.1	7.5	7.7	9.0	<0.10				
Fri	16	0.00	8.80	5.120	1.70	71	73	7.5	7.7	7.6	7.6	13.7	<0.10				
Sat	17	0.00	8.70	5.066	1.80	73	73	7.5	7.6	7.4	7.5	11.3	<0.10				
Sun	18	0.00	8.40	5.010	1.60	73	73	7.5	7.6	7.3	7.7	10.3	<0.10				
Mon	19	0.01	11.10	6.155	2.30	72	74	7.5	8.0	7.4	7.5	19.0	0.10	288	25	291	7
Tue	20	0.66	8.50	5.996	2.10	72	73	7.8	7.8	7.3	7.4	11.3	<0.10	267	29	217	4
Wed	21	0.02	10.20	5.699	2.80	73	73	7.7	8.0	7.4	7.4	12.7	<0.10				
Thu	22	0.38	9.50	5.345	2.30	71	73	7.7	7.8	7.3	7.5	12.5	<0.10				
Fri	23	0.21	9.00	5.593	1.70	69	71	7.6	7.7	7.2	7.6	12.7	<0.10				
Sat	24	0.00	8.40	4.70	1.80	67	70	7.5	7.8	7.5	7.6	7.5	<0.10				
Sun	25	0.01	8.20	5.100	1.70	69	71	7.6	7.8	7.5	7.7	10.7	<0.10				
Mon	26	0.19	10.50	5.340	1.90	70	71	7.6	8.0	7.4	7.7	23.0	<0.10	312	25	322	5
Tue	27	0.17	8.80	5.142	2.00	69	71	7.6	8.0	7.6	7.7	10.7	<0.10	289	24	230	5
Wed	28	0.22	9.50	5.420	2.00	69	71	7.6	7.7	7.5	7.6	11.5	<0.10				
Thu	29	0.33	8.00	5.036	1.50	69	71	7.1	7.7	7.6	7.7	11.3	<0.10				
Fri	30	0.00	7.90	4.800	1.60	69	70	7.6	7.7	7.5	7.7	12.5	<0.10				
		Total Precip 6.01	Monthly 5.572			Monthly Average Influent: 71, Effluent: 73		Monthly Influent: Minimum 7.1, Maximum 8.1; Effluent: Minimum 7.2, Maximum 8.0				Monthly Maximum: 23.0	Monthly Maximum: 0.10	30 day arithmetic mean (1) Infl.(mg/l): 253, Eff.(mg/l): 25		30 day arithmetic mean (1) Infl.(mg/l): 259, Eff.(mg/l): 4	
		Monthly Total 167.183									30 Day Avg Quantity Loading (1)		13,000 lbs/day	1,282 lbs/day	13,404 lbs/day	218 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	Effluent MF or MPN/100ml		
Thu	01				0.37	0.02			
Fri	02				0.25	0.02			
Sat	03				0.40	0.02			
Sun	04				0.72	0.06			
Mon	05				0.28	0.02			
Tue	06	5.22	1.39		0.36	0.03			
Wed	07	4.29	1.40		0.42	0.04	6		
Thu	08				0.29	0.05	10		
Fri	09				0.34	0.05			
Sat	10				0.51	0.02			
Sun	11				0.59	0.05			
Mon	12	5.55	1.51		0.45	0.06			
Tue	13	4.10	1.75		0.22	0.02	13		
Wed	14				0.36	0.03	10		
Thu	15				0.44	0.07			
Fri	16				0.44	0.02			
Sat	17				0.51	0.08			
Sun	18				0.61	0.05			
Mon	19	5.75	0.24		0.44	0.05	32		
Tue	20	4.62	0.17		0.48	0.04	6		
Wed	21				0.40	0.03			
Thu	22				0.44	0.03			
Fri	23				0.53	0.03			
Sat	24				0.69	0.04			
Sun	25				0.71	0.04			
Mon	26	6.51	0.23		0.55	0.04	12		
Tue	27	5.42	0.24		0.43	0.02	7		
Wed	28				0.53	0.04			
Thu	29				0.47	0.03			
Fri	30				0.62	0.04			
		30 day arithmetic mean (1) Influent(mg/l) Effluent(mg/l)		TMRA Eff	Monthly Minimum(1) Maximum(1)		30 Day Geo. Mean (1)		
		5.18 0.87			0.22 0.080		10		
		267.06 48.39		27.49					
		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	
Thu	01																			
Fri	02																			
Sat	03																			
Sun	04																			
Mon	05																			
Tue	06																			
Wed	07																			
Thu	08	42.0	21.2	33.4	24.4	<1.0	<1.0	2.8	<1.0	<2.0		<0.020	<0.020	0.106	0.028	<0.020	<0.040	<0.020	0.020	
Fri	09																			
Sat	10																			
Sun	11																			
Mon	12																			
Tue	13																			
Wed	14																			
Thu	15																			
Fri	16																			
Sat	17																			
Sun	18																			
Mon	19																			
Tue	20																			
Wed	21																			
Thu	22																			
Fri	23																			
Sat	24																			
Sun	25																			
Mon	26																			
Tue	27																			
Wed	28																			
Thu	29																			
Fri	30																			
30 day arithmetic mean (1)		42.00 mg/l	21.20 mg/l	33.40 mg/l	24.40 mg/l	<1.0 ug/l	<1.0 ug/l	2.8 ug/l	<1.0 ug/l	<2.0 ug/l	ug/l	<0.020 mg/l	<0.020 mg/l	0.106 mg/l	0.028 mg/l	<0.020 mg/l	<0.040 mg/l	<0.020 mg/l	0.020 mg/l	
30 Day Aver. Quantity Loading (1)		2,010.6 lbs/day	1,014.9 lbs/day	1,598.9 lbs/day	1,168.1 lbs/day	<0.048 lbs/day	<0.048 lbs/day	0.134 lbs/day	<0.048 lbs/day	<0.096 lbs/day	lbs/day	<0.96 lbs/day	<0.96 lbs/day	5.07 lbs/day	1.32 lbs/day	<0.96 lbs/day	<1.91 lbs/day	<0.96 lbs/day	0.98 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.

Resolution for Ithaca Area Wastewater Treatment Facility (IAWWTF) – Sludge Drying Demonstration

WHEREAS, the IAWWTF has a conventional bio-solids (sludge) management program which involves the collection, digestion, processing, and disposal of organic materials that consist of approximately 80% water, and

WHEREAS, as opposed to a regulated Class A biosolids, IAWWTF sludge is a regulated Class B material which carries with it specific requirements for permanent disposal in facilities such as landfills, and

WHEREAS, overland transportation and disposal of biosolids is operationally costly and environmentally unfriendly, and

WHEREAS, long term outlook on landfill capacity and availability is questionable, and

WHEREAS, BCR Solid Solutions makes the Bio-Scru, a biosolids drying system which creates an environmentally friendly Class A material, produces a product that consists of approximately 95% solids, improves handling, and provides a myriad of disposal options including land application and fertilization, and

WHEREAS, staff visited a pilot of the Bio-Scru and were impressed by its specifications and potential application at IAWWTF, and

WHEREAS, a loose financial evaluation by staff indicates a potential IAWWTF cost savings from a fully realized drying system at about \$600,000, yielding a payback of less than 10 years, and

WHEREAS, staff is desirous of hosting a drying system pilot at IAWWTF to determine performance on plant bio-solids, and

WHEREAS, BCR's cost for this demonstration is approximately \$8,000,

Now, therefore, be it

RESOLVED, the Special Joint Committee approves a pilot demonstration of the BCR Solid Solutions Bio-Scru system at the IAWWTF with costs obtained through existing operating funds.

Here's a summary of the preliminary design and budget numbers that Siewert provided us for the Bio-Scru

- Cost: \$2.7M for the smaller system run more frequently, or \$3.3M for the larger system run less frequently
- Drying cost of about \$78,000 compared to a sludge hauling cost of \$387,000, for a savings of about \$300k/yr. 9-11 year payback
- With the expected hauling/disposal price increase to \$125/ton, the annual savings would be about \$600k, for a payback of about 5-6 years

I would want to double check the design numbers below, based on info provided to BCR and Siewert by CJ back in December.

Project Design Criteria

Table 1: GENERAL DESIGN BASIS:

Design Criteria	Value
Wet Mass Processed, WT/Yr – Current	5376
Dry Tons	1120
Dewatered Cake Solids, %TS	20.0
Dryer Operation Uptime, %	95%
Dried Solids Content, %DS	90.0 – 92.0
Thermal Energy required (NG)	\$70-\$80/ Dry Ton or approximately \$78,410 without the use of digester gas.

Design Criteria	Annual Average Design Capacity (WT/Year)	Dewatered % Solids
Current Wet Cake Capacity	5376	20%
Current Sludge Hauling Costs	At 72/wet ton = \$387,072	20-23%

Bio- Scru Dryer System Budget Prices:

Option I: IC5400 Bio- Scru System for 10–12-hour operation 5 days per week: \$3,345,000.00

Option II: IC3600 Bio Scru System for 16-hour operation 5 days per week or 24-hour operation 3-4 days per week: \$2,695,000.00

Delivery: Ex Works, Point of Manufacture

Validity: For budget purpose. Subject to change without notice or upon receipt of additional specifications.