

MEETING NOTICE

JOINT CONTRACT SEWERAGE COMMITTEE

February 14, 2023

1:30 P.M.

Council Chambers at Bettendorf City Hall  
1609 State Street

1. Appointment of officers for FY 23/24.
2. Approval of minutes from August 2022 meeting.
3. Update on Waste Water Treatment Plant Flood Protection Project (Davenport).
4. Update on I&I Projects / Studies (All Cities).
5. Report from Waste Water Treatment Plant and Compost Facility. (Davenport)
6. Update on six (6) year Capital Improvement Plan (CIP) for the Joint Use System (Davenport)
7. Discussion regarding needed repairs to digesters (Davenport).
8. Discussion regarding fee increases for high strength waste hauling and compost tipping fees (Davenport)
9. Approval of 28E allocation percentages and budget.
10. Approval of 28E capacity allocations.
11. Discussion of future meetings with consideration of moving February meeting to December going forward for budgeting purposes. Next meeting is scheduled for August 22, 2023.
12. Other business.
13. Adjourn.

MINUTES  
JOINT CONTRACT SEWERAGE COMMITTEE  
August 23, 2022  
1:30 P.M. BETTENDORF CITY HALL

Members Present:

Anthony Heddlesten, Mayor, City of Riverdale  
Rick Dunn, Alderman, City of Davenport  
Scott Webster, Alderman, City of Bettendorf  
Brian Schmidt, Director of Public Works, City of Bettendorf  
Nicole Gleason, Assistant City Administrator/Director of Public Works, City of Davenport  
Mallory Merritt, Assistant City Administrator/Chief Financial Officer, City of Davenport  
Jason Schadt, Director of Finance, City of Bettendorf

Others Present:

Decker Ploehn, City Administrator, City of Bettendorf  
Kelly Krell, Deputy Clerk, City of Riverdale  
Clay Merritt, Assistant Public Works Director, City of Davenport  
Jim Odean, Assistant Finance Director, City of Davenport  
Brent Morlok, City Engineer, City of Bettendorf  
Brian Schadt, City Engineer, City of Davenport  
Doug Hradek, Water Pollution Control Plant Operations Supervisor, City of Davenport  
Basia Gerlach, Accounting Manager, City of Davenport

The meeting was called to order at 1:30 p.m. by Brian Schmidt.

1. First item on the agenda was approval of the minutes from the February 2022 meeting. There were no additions, deletions or corrections. Nicole Gleason made a motion to accept the minutes as written. The motion was seconded by Brian Schadt. The motion passed unanimously.
2. Next item on the agenda was the update on Waste Water Treatment Plant Flood Protection Project. Doug Hradek reported this project was split into three (3) phases. The EDA grant was approved for 10 million for Phase 1, which includes a berm on the southern portion of the facility along with two (2) pumping stations and retention ponds. By September, 50% construction drawings and preliminary engineering will be completed. Phase 1 will bid in January or February 2023 and is estimated at \$13 million. Phase 2 includes the northern portion of the protection system and Veenstra & Kimm, Inc. has been hired for the design. There is \$4.4 million allocated from the State of Iowa for Phase 2. Phase 3 is the access portion including an overpass at the Concord St. railroad crossing estimated at \$10 million. Davenport is applying for a federal grant through the Federal Railroad Administration (FRA) through the Railroad Crossing Elimination Grant Program to help fund that work. Contingent upon receiving that grant, Canadian Pacific has agreed to cost share up to \$2 million, which is the City's cost share of that project.
3. Next item on the agenda was the report on the UV Disinfection Project. Doug Hradek reported there are a few electrical and punch list items to be done, but the project is essentially completed and is currently operational as required per the NPDES permit.
4. Next item on the agenda was an update on I&I Projects / Studies. Riverdale reported the second phase of their project is completed. The third phase includes inspecting the trunk sewer and whether this will be

considered a Joint Use expense or not per the most recent 28E agreement. Brian Schmidt suggested that be discussed at the next Technical Committee Meeting. Davenport reported their \$2.5 million contract for manhole and lining rehabilitation should be completed by the end of the year or early next year. Brent Morlok reported Bettendorf wrapped up a \$600,000 sewer lining program in March and will be looking at how to program the larger citywide I&I projects for next year.

5. Next item on the agenda was a report on the Waste Water Treatment Plant and Compost Facility. Doug Hradek reported digester issues and a gas problem that are being worked on. Nicole Gleason reported a loader had been repaired in the spring and another loader will be coming next month for the Compost Facility. There is CIP work planned for floor replacement and looking to add screening machinery to the 6 year CIP.
6. Next item on the agenda was a discussion of Digester RNG / Digester Upgrade Alternatives/ FOG Ordinance. Nicole Gleason reported alternative fuel has been a component for grants and having a shovel ready set of plans in the event a grant comes up would be beneficial. Design of digester upgrades need to be done regardless of RNG and they will be looking at a bid alternates for how much initial RNG engineering would be needed should a grant become available. Brian Schadt reported they received qualifications for engineering for a temporary boiling system and have been working on the generators. The committee is waiting on the FOG ordinance until further discussions are had on how to handle the additional high strength waste.
7. Discussion of Rate Studies (All Cities). Jason Schadt reported Bettendorf has raised the sewer use rates 4% per year for several years. The recent rate study identified that in order to take on \$30 million in I&I projects as well as the Spencer Creek Lift Station, the rates would need to increase from 4% to 5.65%. Mallory Merritt reported PFM completed the rate study for Davenport and Council has adopted a three (3) year plan of 5% rate increases each year. Mayor Heddlesten reported the rate study for Riverdale recommended increases from \$5.00 per month to approximately \$30.00.
8. Discussion of EPA / IDNR Local Limits (Davenport). Brian Schadt reported the latest permit required them to look at local limits. Local limits have been in place for industrial users since 2003. The most recent NPDES permit required a few updates that can be found in a memo in the meeting packet. This will require a change to the Sewer Use Ordinance that all cities will need to adopt once completed. Additionally an updated "Pretreatment Enforcement Response Plan" was required and a draft version is also included in the packet.
9. Next item was the discussion of future meetings. The next meeting will be held on February 14, 2023.
10. The next item on the agenda was other business.

The meeting was adjourned on motion by Alderman Webster.



# DAVENPORT

PUBLIC WORKS  
WATER POLLUTION CONTROL

February 14, 2023

TO: Joint Use System Contract Committee Members:

RE: Allocation of Costs to JUSCC Cities

I have enclosed information in your packet to adopt a budget and distribute costs for the Water Pollution Control Plant, Industrial Pretreatment and Compost Facility. The proposed budget reflects information provided by the Asset Management Plan and a commitment from these facilities to operate effectively and efficiently. The total budget number increased by 9.43 % from last year.

I am presenting you with a spreadsheet that breaks down the 28E allocation by Industrial Pretreatment, Flow at 60% of the cost and Organics at 40% of the cost. Actual flows and loads for CY22 are included on the 28E allocation spreadsheet. In this spreadsheet, I used the most current population census residential data. The Operation & Maintenance Cost Percent and Pretreatment cost were used to allocate the annual costs to the four cities. I have attached industrial annual total sheets for Davenport, Bettendorf and Riverdale. Flows and BOD's are highlighted and used in the allocation spreadsheet. I have included a WPCP Load Allocation report for CY22.

The following percentages for Operation and Maintenance, and Industrial Pretreatment costs are being submitted for review and approval for this Joint Use System Contract Committee meeting.

Davenport	78.65%
Bettendorf	20.18%
Riverdale	1.11%
Panorama Park	0.07%

The FY2024 Fund cost allocation spreadsheet represents WPCP's budget request, prior year budgets and actual expenditures. The finance department identified all revenue as a separate line item such as compost sales, energy sales and miscellaneous. You will find the Wastewater Equipment Replacement Fund-Status included in this packet.

The Joint Use System Technical Committee meets on the third Wednesday of each month. Topics of these meetings included: RNG and Digester Project, Ordinance updates, UV Disinfection operations, Flood Plan WPC and Compost, Asset Plan development, Nutrient Study approval and Updates on the WPC plant projects. The committee will continue to work on these issues in the coming year.

The UV Disinfection system is operational. We have a Nutrient Reduction Study submitted and approved. The Asset Plan has been submitted and will be a working document to provide information

during budget planning. The annual average flows at the treatment plant are much lower than past annual average flows recorded.

I would like to express my appreciation for support from the Joint Use System Contract Committee and the City of Davenport for giving me the opportunity to serve this organization.

Sincerely,



Daniel B. Miers  
WPC Plant Manager

Month	Calculated Raw Waste					Secondary Effluent					Blending					Combined Effluent					Yearly Average Combined Inf			Yearly Average Combined Eff		
	Flow (MGD)	CBOD5 (mg/l)	CBOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Flow (MGD)	CBOD5 (mg/l)	CBOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Flow (MGD)	CBOD5 (mg/l)	CBOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Flow (MGD)	CBOD5 (mg/l)	CBOD5 (lbs)	TSS (mg/l)	TSS (lbs)	Flow (MGD)	CBOD5 (lbs)	TSS (lbs)	Flow (MGD)	CBOD5 (mg/l)	TSS (mg/l)
Jan-18	18.7	302	46,920	256	39,937	21.8	7	1,225	10	1,836	0.0	0	0	0	0	21.8	7	1,225	10	1,836						
Feb-18	23.7	311	55,508	213	53,344	25.8	11	2,197	12	2,418	0.2	78	114	71	128	26	11	2,310	12	2,546						
Mar-18	28.3	194	42,872	181	41,139	30.3	6	1,571	7	1,869	0.1	65	2	68	2	30	6	1,573	7	1,870						
Apr-18	24.9	193	39,963	184	38,054	28.5	7	1,593	10	2,281	0.0	0	0	0	0	29	7	1,593	10	2,281						
May-18	31.5	158	40,179	150	38,615	34.2	7	2,038	7	2,067	0	0	0	0	0	34.2	7	2,038	7	2,067						
Jun-18	30.4	168	37,515	196	49,428	31.6	6	1,638	7	1,971	0.9	59	415	72	458	32.5	7	2,053	8	2,428	24.8	46,578	45,658	27.4	7.7	9
Jul-18	27.3	243	52,693	259	57,191	30.6	6	1,406	9	2,206	0	0	0	0	0	30.6	6	1,406	9	2,206						
Aug-18	20.6	257	43,176	276	47,198	24.6	7	1,360	9	1,810	0.1	57	1,284	70	1576	24.8	7	1,404	9	1,865						
Sep-18	34.2	154	40,555	182	49,501	35.4	7	2,047	10	2,839	0.7	75	188	50	229	36	7	2,236	10	3,068	11/17 thru 10/18 for Int Gov					
Oct-18	50.8	95	36,120	138	52,705	45.8	7	2,871	11	4,269	5	48	1,875	52	2084	50.9	10	4,746	14	6,352		44363	45198			
Nov-18	32.0	165	43,679	147	39,209	33.4	7	2,015	11	2,999	0	0	0	0	0	33.4	7	2,015	11	2,999						
Dec-18	35.0	153	42,623	165	46,377	36.4	7	2,193	8	2,500	1.2	70	657	56	509	37.6	8	2,849	9	3,009	29.783	43,484	46,058	32.2	7.5	9.7
Jan-19	32.1	157	41,093	165	43,292	34.4	7	1,895	11	3,223	0.0	52	14	52	14	34.4	7	1,909	11	3,237						
Feb-19	46.1	97	35,084	129	49,306	45.4	11	3,943	16	6,047	2.8	64	3,287	59	3,455	48	13	5,234	18	7,404						
Mar-19	50.1	90	34,667	112	44,538	47.8	9	3,402	16	6,393	3.5	55	1,562	53	1,668	51	11	4,964	19	8,061						
Apr-19	58.5	72	34,526	91	43,682	53.1	7	3,321	13	5,715	5.7	57	2,380	49	2,335	59	11	5,753	16	8,109						
May-19	67.7	65	34,935	111	61,553	53.9	5	2,214	8	3,541	13.8	38	4,103	34	3,920	67.7	11	6,317	13	7,461	Flood of 2019					
Jun-19	55.3	83	32,245	123	52,127	45.9	6	2,355	10	3,996	9.3	26	1,694	34	2,177	55.3	8	4,025	13	6,173	42.5	39,283	48,890	44.1	8.8	12.7
Jul-19	31.4	130	32,353	147	41,682	30	6	1,599	9	2,371	0.8	64	614	30	264	30.8	7	2,213	10	2,636						
Aug-19	21.6	192	34,693	206	37,482	21.5	6	1,038	7	1,347	0	0	0	0	0	21.5	6	1,038	7	1,347						
Sep-19	27.8	150	32,514	165	37,117	27.8	7	1,563	7	1,888	0.3	45	117	56	151	28.2	7	1,680	8	2,040	11/18 thru 10/19 for Int Gov					
Oct-19	35.3	101	28,530	126	36,217	35.4	8	2,288	14	4,275	0	38	12	115	37	35.5	8	2,300	14	4,312		35579	44382			
Nov-19	26.8	153	33,880	164	36,560	24.8	7	1,369	11	2,195	0	0	0	0	0	24.8	7	1,369	11	2,195						
Dec-19	24.0	157	30,944	161	31,499	22.4	7	1,288	11	1,993	0	0	0	0	0	22.4	7	1,288	11	1,993	39.725	33,789	42,921	39.9	8.6	12.6
Jan-20	23.5	165	32,489	163	32,019	24.9	8	1,759	13	2,652	0	0	0	0	0	24.9	8	1,759	13	2,652						
Feb-20	24.1	151	29,955	171	34,304	25.4	8	1,645	12	2,551	0	0	0	0	0	25.4	8	1,645	12	2,551						
Mar-20	31.4	128	30,359	154	38,001	31	7	1,862	10	2,561	1.3	48	436	70	629	32.3	8	2,298	11	3,190						
Apr-20	37.3	102	31,048	124	37,811	38.7	5	1,540	7	2,252	0.2	68	102	50	75	28.9	5	1,642	7	2,328						
May-20	36.0	110	30,981	143	43,118	36.4	4	1,343	7	2,292	1.2	43	407	57	466	37.6	5	1,750	8	2,758						
Jun-20	28.5	142	32,978	155	36,760	30.4	7	1,690	6	1,466	0	0	0	0	0	30.4	7	1,690	6	1,466	28.975	31,727	36,881	28.6	6.9	9.8
Jul-20	23.5	175	34,202	207	41,286	24.3	5	1,108	6	1,130	0	0	0	0	0	24.3	5	1,108	6	1,130						
Aug-20	19.1	209	33,260	205	32,798	18.4	6	916	6	885	0	0	0	0	0	18.4	6	916	6	885						
Sep-20	29.9	205	44,261	180	43,112	30.5	8	1,876	12	2,856	1.1	44	380	49	442	31.6	8	2,256	13	3,298	11/19 thru 10/20 for Int Gov					
Oct-20	23.1	199	37,760	183	38,139	27.1	6	1,454	10	2,278	0.1	55	28	92	47	27.1	7	1,483	10	2,325		33,510	37,117			
Nov-20	22.0	252	46,224	207	37,916	27.4	7	1,561	10	2,217	0	0	0	0	0	27.4	7	1,561	10	2,217						
Dec-20	21.0	303	53,042	205	36,095	25.1	7	1,384	9	1,969	0	0	0	0	0	25.1	7	1,384	9	1,969	26.617	36,380	37,613	27.8	6.8	9.3
Jan-21	21.0	265	46,088	194	33,909	23.3	8	1,573	13	2,610	0	0	0	0	0	23.3	8	1,573	13	2,610						
Feb-21	24.7	293	56,200	199	39,464	25.7	7	1,433	10	2,280	0.2	60	89	46	69	25.8	7	1,522	11	2,349						
Mar-21	39.9	149	48,500	141	45,944	41.1	7	2,255	10	3,475	0.2	53	95	57	101	41.3	7	2,349	10	3,575						
Apr-21	35.0	144	38,876	157	42,561	34.9	6	1,585	7	2,133	1.9	37	559	40	578	36.8	6	2,144	8	2,712						
May-21	28.3	154	36,642	174	41,731	29.6	7	1,781	12	3,009	0.9	90	198	126	303	29.9	8	1,979	13	3,312						
Jun-21	21.3	240	42,233	211	37,962	23.2	5	1,022	6	1,199	0	0	0	0	0	23.2	5	1,022	6	1,199	25.733	43,107	39,243	27.9	6.8	9.6
Jul-21	20.3	273	45,733	241	40,587	22	4	727	5	971	0	0	0	0	0	22.0	4	727	5	971						
Aug-21	17.2	232	33,469	214	31,125	19.8	6	950	6	1,050	0	0	0	0	0	19.8	6	950	6	1,050						
Sep-21	17.6	246	35,815	210	30,655	19.9	7	1,159	6	1,046	0	0	0	0	0	19.9	7	1,159	6	1,046						
Oct-21	19.1	177	27,665	198	31,261	19.6	5	823	6	912	0	0	0	0	0	19.6	5	823	6	912						
Nov-21	18.4	167	25,571	190	29,130	19.1	7	1,044	7	1,167	0	0	0	0	0	19.1	7	1,044	7	1,167						
Dec-21	17.9	173	25,953	180	26,972	17.0	7	959	8	1,181	0	0	0	0	0	17.0	7	959	8	1,181	23.392	38,562	35,942	24.8	6.4	8.3
Jan-22	17.9	175	26,232	183	27,468	19.5	7	1,231	9	1,517	0	0	0	0	0	19.5	8	1,231	9	1,517						
Feb-22	18.5	176	26,984	190	29,311	17.9	6	939	8	1,170	0	0	0	0	0	17.9	6	939	8	1,170						
Mar-22	21.8	150	26,309	176	31,174	19.9	6	1,043	8	1,334	0	0	0	0	0	19.9	6	1,043	8	1,334						
Apr-22	30.4	120	29,977	140	35,174	25.8	6	1,324	8	1,775	0	0	0	0	0	25.8	6	1,324	8	1,775						
May-22	25.1	172	35,232	176	36,731	22.6	8	1,596	10	1,967	0	0	0	0	0	22.6	8	1,596	10	1,967						
Jun-22	22.7	199	37,469	180	34,938	20.0	7	1,239	8	1,323	0	0	0	0	0	20.0	7	1,239	8	1,323	20.575	31,367	32,044	20.3	6.4	7.4
Jul-22	21.5	192	33,897	194	35,230	19.5	6	982	7	1,079	0.1	65	28	88	38	19.5	6	1,010	7	1,116						
Aug-22	19.2	216	34,427	209	33,287	21.8	7	1,177	6	1,097	0	0	0	0	0	21.8	7	1,177	6	1,097						
Sep-22	21.3	200	35,399	196	35,416	24.9	8	1,625	6	1,322	0	0	0	0	0	24.9	8	1,625	6	1,322						
Oct-22	18.6	175	27,227	195	30,215	21.8	5																			

Water Pollution Control Cost Allocations

FY 2024 Fund 115 Cost Allocation

	FY 2018 Budget	FY 2018 Actual	FY 2019 Budget	FY 2019 Actual	FY 2020 Budget	FY 2020 Actual	FY 2021 Budget	FY 2021 Actual	FY 2022 Budget	FY 2022 Actual	FY 2023 Budget	FY 2024 Budget
<b>Public Works Administration</b>												
Employee Expense	49,760	50,197	53,828	47,452	55,976	58,035	60,214	62,446	61,052	65,321	117,890	121,451
Supplies and Services	28,780	20,038	29,280	17,525	35,153	23,926	36,405	19,525	36,206	26,513	33,526	33,742
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>78,540</b>	<b>70,235</b>	<b>83,108</b>	<b>64,977</b>	<b>91,129</b>	<b>81,961</b>	<b>96,619</b>	<b>81,971</b>	<b>97,258</b>	<b>91,834</b>	<b>151,416</b>	<b>155,193</b>
<b>Water Pollution Control Plant</b>												
Employee Expense	3,065,688	2,905,606	3,088,609	2,912,833	3,175,498	3,032,896	3,211,976	2,994,805	3,241,915	3,064,493	3,310,985	3,303,928
Supplies and Services	2,756,818	2,787,849	2,818,898	2,804,520	2,732,143	2,577,793	2,873,192	2,713,152	2,804,398	3,016,373	2,843,990	2,987,020
Capital Expenditures	350,000	102,017	280,000	3,402	310,000	272,005	280,000	239,304	250,000	14,530	170,000	795,000
<b>Total</b>	<b>6,172,506</b>	<b>5,795,472</b>	<b>6,187,507</b>	<b>5,720,755</b>	<b>6,217,641</b>	<b>5,882,694</b>	<b>6,365,168</b>	<b>5,947,261</b>	<b>6,296,313</b>	<b>6,095,396</b>	<b>6,324,975</b>	<b>7,085,948</b>
<b>Compost Facility</b>												
Employee Expense	1,078,832	1,013,093	1,067,946	1,065,924	1,129,351	1,084,625	1,097,134	1,086,914	1,124,147	1,101,628	1,218,470	1,250,701
Supplies and Services	1,108,517	980,320	1,082,148	966,994	1,074,946	971,887	1,106,871	935,908	1,061,598	1,036,703	1,119,280	1,167,200
Capital Expenditures	157,500	120,939	82,500	8,958	187,500	95,946	77,500	17,384	217,500	86,590	77,500	77,500
<b>Total</b>	<b>2,344,849</b>	<b>2,114,352</b>	<b>2,232,594</b>	<b>2,041,876</b>	<b>2,391,797</b>	<b>2,152,458</b>	<b>2,281,505</b>	<b>2,040,206</b>	<b>2,403,245</b>	<b>2,224,921</b>	<b>2,415,250</b>	<b>2,495,401</b>
<b>Facilities Maintenance</b>												
Employee Expense	N/A	N/A	N/A	N/A	N/A	N/A	N/A		92,008		-	-
	N/A	N/A	N/A	N/A	N/A	N/A	N/A		92,008		-	-
<b>Fleet Management</b>												
Employee Expense	99,646	79,270	84,191	59,701	97,408	91,339	95,498	90,697	97,972	94,381	99,060	102,230
Supplies and Services	2,600	2,449	2,600	2,154	6,687	6,212	7,564	7,072	6,813	6,455	7,513	7,686
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>102,246</b>	<b>81,719</b>	<b>86,791</b>	<b>61,855</b>	<b>104,095</b>	<b>97,551</b>	<b>103,062</b>	<b>97,769</b>	<b>104,785</b>	<b>100,836</b>	<b>106,573</b>	<b>109,916</b>
<b>Sewer Maintenance</b>												
Supplies and Services	N/A	N/A	20,000	-	20,000	-	-	-	-	-	-	-
	N/A	N/A	20,000	-	20,000	-	-	-	-	-	-	-
<b>Operations &amp; Support Services</b>												
Employee Expense	42,946	43,565	45,484	46,371	48,352	50,529	52,252	51,429	54,451	48,968	-	-
Supplies and Services	-	-	-	-	7,435	7,435	9,006	9,006	8,570	8,570	-	-
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>42,946</b>	<b>43,565</b>	<b>45,484</b>	<b>46,371</b>	<b>55,787</b>	<b>57,964</b>	<b>61,258</b>	<b>60,435</b>	<b>63,021</b>	<b>57,538</b>	<b>-</b>	<b>-</b>
<b>Total Budget</b>	<b>8,741,087</b>	<b>8,105,343</b>	<b>8,655,484</b>	<b>7,935,834</b>	<b>8,880,449</b>	<b>8,272,628</b>	<b>8,907,612</b>	<b>8,227,642</b>	<b>9,056,630</b>	<b>8,570,525</b>	<b>8,998,214</b>	<b>9,846,458</b>
<b>Offsetting Revenues</b>												
Compost Sales	550,000	610,907	580,000	421,790	580,000	647,466	600,000	580,708	605,000	556,156	375,000	605,000
Energy Sales	490,000	563,104	500,000	461,764	500,000	425,045	500,000	327,767	450,000	480,874	450,000	450,000
Miscellaneous	770	470	770	1,123	-	2,114.00	-	1,733	-	5,032	-	-
<b>Total</b>	<b>1,040,770</b>	<b>1,174,481</b>	<b>1,080,770</b>	<b>884,677</b>	<b>1,080,000</b>	<b>1,074,625</b>	<b>1,100,000</b>	<b>910,208</b>	<b>1,055,000</b>	<b>1,042,062</b>	<b>825,000</b>	<b>1,055,000</b>
<b>Debt Service Expense</b>												
Principal Payments	N/A	N/A	N/A	N/A	329,000	329,000	350,988	336,000	683,000	683,000	695,000	709,000
Interest Payments	N/A	N/A	N/A	N/A	115,308	112,959	130,295	147,004	267,175	209,779	240,535	182,662
<b>Total</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>444,308</b>	<b>441,959</b>	<b>481,283</b>	<b>483,004</b>	<b>950,175</b>	<b>892,779</b>	<b>935,535</b>	<b>891,662</b>
<b>Operating Net Cost to Allocate</b>	<b>7,700,317</b>	<b>6,930,862</b>	<b>7,574,714</b>	<b>7,051,157</b>	<b>7,800,449</b>	<b>7,198,003</b>	<b>7,807,612</b>	<b>7,317,434</b>	<b>8,001,630</b>	<b>7,528,463</b>	<b>8,173,214</b>	<b>8,791,458</b>
<b>Allocation Percentages</b>												
Davenport	79.89%		80.26%		81.33%		79.75%		79.59%		78.82%	78.65%
Bettendorf	19.25%		18.88%		17.87%		19.14%		19.38%		19.95%	20.18%
Riverdale	0.79%		0.79%		0.73%		1.03%		0.95%		1.16%	1.11%
Panorama Park	0.07%		0.07%		0.07%		0.07%		0.08%		0.07%	0.07%
<b>Operating Allocation Amounts (Fund 115)</b>												
Davenport	6,151,783	5,537,065	6,079,465	5,666,324	6,344,105	5,989,456	6,226,571	5,778,280	6,368,497	5,965,650	6,442,127	6,914,482
Bettendorf	1,482,311	1,334,191	1,430,106	1,322,797	1,393,940	1,316,016	1,494,377	1,386,613	1,550,716	1,452,624	1,630,556	1,774,116
Riverdale	60,833	54,744	59,840	57,099	56,943	53,760	80,418	74,619	76,015	71,207	94,809	97,585
Panorama Park	5,390	4,861	5,302	4,936	5,460	5,155	5,465	5,071	6,401	5,996	5,721	6,154
<b>Total</b>	<b>7,700,317</b>	<b>6,930,861</b>	<b>7,574,714</b>	<b>7,051,156</b>	<b>7,800,449</b>	<b>7,364,387</b>	<b>7,806,831</b>	<b>7,244,583</b>	<b>8,001,630</b>	<b>7,495,477</b>	<b>8,173,214</b>	<b>8,792,337</b>
<b>To Replacement Fund (Fund 116)</b>												
Davenport	1,047,488	1,047,516	1,042,034	1,043,462	1,083,370	1,083,370	1,065,573	1,009,643	955,275	1,007,491	966,319	1,037,276
Bettendorf	252,399	252,406	245,123	243,565	238,040	238,041	255,738	242,285	232,607	245,322	244,583	266,144
Riverdale	10,358	10,358	10,257	10,516	9,724	9,724	13,762	13,038	11,402	12,026	14,221	14,639
Panorama Park	918	918	909	909	932	932	935	886	960	1,013	858	923
<b>Total</b>	<b>1,311,163</b>	<b>1,311,198</b>	<b>1,298,323</b>	<b>1,298,452</b>	<b>1,332,067</b>	<b>1,332,067</b>	<b>1,336,008</b>	<b>1,265,852</b>	<b>1,200,245</b>	<b>1,265,852</b>	<b>1,225,982</b>	<b>1,318,982</b>
<b>To Debt Service Fund (Fund 118)</b>												
Davenport	N/A	N/A	N/A	N/A	N/A	N/A	383,823	368,681	756,244	714,175	737,389	701,292
Bettendorf	N/A	N/A	N/A	N/A	N/A	N/A	92,118	88,473	184,144	173,900	186,639	179,937
Riverdale	N/A	N/A	N/A	N/A	N/A	N/A	4,957	4,761	9,027	8,525	10,852	9,897
Panorama Park	N/A	N/A	N/A	N/A	N/A	N/A	337	324	760	637	655	624
<b>Total</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>481,235</b>	<b>462,239</b>	<b>950,175</b>	<b>897,237</b>	<b>935,535</b>	<b>891,751</b>
<b>To Reserve (Fund 119)</b>												
Davenport	N/A	N/A	N/A	N/A	N/A	N/A	124,531	134,619	127,370	130,968	128,843	138,290
Bettendorf	N/A	N/A	N/A	N/A	N/A	N/A	29,888	32,342	31,014	32,133	32,611	35,482
Riverdale	N/A	N/A	N/A	N/A	N/A	N/A	1,608	1,741	1,520	1,576	1,896	1,952
Panorama Park	N/A	N/A	N/A	N/A	N/A	N/A	109	118	128	133	114	123
<b>Total</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>156,137</b>	<b>168,820</b>	<b>160,033</b>	<b>164,810</b>	<b>163,464</b>	<b>175,847</b>
<b>Total Allocation Amount</b>												
Davenport	7,199,271	6,584,581	7,121,499	6,709,786	7,427,476	5,666,324	7,800,498	7,291,223	8,207,386	7,818,284	8,274,678	8,791,339
Bettendorf	1,734,710	1,586,597	1,675,229	1,566,362	1,631,981	1,316,016	1,872,120	1,749,713	1,998,482	1,903,979	2,094,390	2,255,680
Riverdale	71,191	65,102	70,097	67,615	66,667	53,760	100,746	94,159	97,965	93,334	121,779	124,074
Panorama Park	6,308	5,779	6,211	5,845	6,393	5,155	6,847	6,399	8,250	7,779	7,349	7,824
<b>Total</b>	<b>9,011,480</b>	<b>8,242,059</b>	<b>8,873,037</b>	<b>8,349,608</b>	<b>9,132,516</b>	<b>7,041,255</b>	<b>9,780,211</b>	<b>9,141,494</b>	<b>10,312,082</b>	<b>9,823,376</b>	<b>10,498,195</b>	<b>11,178,918</b>

**6-YEAR CAPITAL PROJECT LIST & FUNDING PLAN  
ALL CITIES**

<b>PAY/GO FINANCING</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
COMPOST   SCREEN REPLACEMENT	350,000	-	-	-	-	-
COMPOST   TRENCH REPLACEMENT	870,000	-	-	-	-	-
COMPOST ENDLOADER REPLACEMENT PROGRAM	-	-	-	365,000	200,000	320,000
CLARIFIER DRIVE REPAIR & REPLACEMENT	-	-	-	-	1,102,500	1,030,000
DIGESTER CLEANING & REPAIR PROGRAM	-	1,250,000	1,280,000	945,000	-	-
	<b>1,220,000</b>	<b>1,250,000</b>	<b>1,280,000</b>	<b>1,310,000</b>	<b>1,302,500</b>	<b>1,350,000</b>

<b>DEBT FINANCING - PROJECT</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
PRINCIPAL & INTEREST	885,458	887,919	889,127	891,080	892,772	895,191

<b>PAY/GO FINANCING DISTRIBUTION</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
DAVENPORT	961,604	985,250	1,008,896	1,032,542	1,026,631	1,064,070
BETTENDORF	243,390	249,375	255,360	261,345	259,849	269,325
RIVERDALE	14,152	14,500	14,848	15,196	15,109	15,660
PANORAMA PARK	854	875	896	917	912	945

<b>DEBT FINANCING DISTRIBUTION</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
DAVENPORT	697,918	699,858	700,810	702,350	703,683	705,590
BETTENDORF	176,649	177,140	177,381	177,771	178,108	178,591
RIVERDALE	10,271	10,300	10,314	10,337	10,356	10,384
PANORAMA PARK	620	622	622	624	625	627

**6-YEAR CAPITAL PROJECT LIST & FUNDING PLAN  
DAVENPORT SHARE ONLY**

**PAY/GO FINANCING**

	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
COMPOST   SCREEN REPLACEMENT	275,870	-	-	-	-	-
COMPOST   TRENCH REPLACEMENT	685,734	-	-	-	-	-
COMPOST ENDLOADER REPLACEMENT PROGRAM	-	-	-	287,693	157,640	252,224
CLARIFIER DRIVE REPAIR & REPLACEMENT	-	-	-	-	868,991	811,846
DIGESTER CLEANING & REPAIR PROGRAM	-	985,250	1,008,896	744,849	-	-
	<b>961,604</b>	<b>985,250</b>	<b>1,008,896</b>	<b>1,032,542</b>	<b>1,026,631</b>	<b>1,064,070</b>

**6-YEAR CAPITAL PROJECT LIST & FUNDING PLAN  
BETTENDORF SHARE ONLY**

**PAY/GO FINANCING**

	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
COMPOST   SCREEN REPLACEMENT	69,825	-	-	-	-	-
COMPOST   TRENCH REPLACEMENT	173,565	-	-	-	-	-
COMPOST ENDLOADER REPLACEMENT PROGRAM	-	-	-	72,818	39,900	63,840
CLARIFIER DRIVE REPAIR & REPLACEMENT	-	-	-	-	219,949	205,485
DIGESTER CLEANING & REPAIR PROGRAM	-	249,375	255,360	188,528	-	-
	<b>243,390</b>	<b>249,375</b>	<b>255,360</b>	<b>261,345</b>	<b>259,849</b>	<b>269,325</b>

**6-YEAR CAPITAL PROJECT LIST & FUNDING PLAN  
RIVERDALE SHARE ONLY**

**PAY/GO FINANCING**

	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
COMPOST   SCREEN REPLACEMENT	4,060	-	-	-	-	-
COMPOST   TRENCH REPLACEMENT	10,092	-	-	-	-	-
COMPOST ENDLOADER REPLACEMENT PROGRAM	-	-	-	4,234	2,320	3,712
CLARIFIER DRIVE REPAIR & REPLACEMENT	-	-	-	-	12,789	11,948
DIGESTER CLEANING & REPAIR PROGRAM	-	14,500	14,848	10,962	-	-
	<b>14,152</b>	<b>14,500</b>	<b>14,848</b>	<b>15,196</b>	<b>15,109</b>	<b>15,660</b>

**6-YEAR CAPITAL PROJECT LIST & FUNDING PLAN  
PANORAMA PARK SHARE ONLY**

**PAY/GO FINANCING**

	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>
COMPOST   SCREEN REPLACEMENT	245	-	-	-	-	-
COMPOST   TRENCH REPLACEMENT	609	-	-	-	-	-
COMPOST ENDLOADER REPLACEMENT PROGRAM	-	-	-	256	140	224
CLARIFIER DRIVE REPAIR & REPLACEMENT	-	-	-	-	772	721
DIGESTER CLEANING & REPAIR PROGRAM	-	875	896	662	-	-
	<b>854</b>	<b>875</b>	<b>896</b>	<b>917</b>	<b>912</b>	<b>945</b>

**FY23 Water Pollution Control Funds Cash Balance**

	<b>Replacement</b>	<b>Debt Service</b>	<b>Reserve</b>	<b>Total</b>
7/1/22 Beginning cash balance	3,921,264	(21,299)	335,726	4,235,691
FY23 - Cash activity for FY22	(34,137)	21,299		
FY23 CIP transfers to date	(426,779)	-	-	(426,779)
FY23 Interest to date	44,902	-	3,852	48,754
FY23 Revenue	1,285,579	918,545 *	171,410	2,375,534
Estimate total available	<u>4,790,829</u>	<u>918,545</u>	<u>510,988</u>	<u>6,233,200</u>
Remaining to transfer to CIP (includes all budgeted FY23 projects)				
SRF payments (Plant Optimization)	-	(443,120) *	-	(443,120)
SRF payments (UV Disinfection)	-	(475,425) *	-	(475,425)
24031 Compost Endloader Program	-	-	-	-
30038 1930's Sanitary Sewer Riverfront Interceptor	(143,692)	-	-	(143,692)
39005 UV Disinfection	(36,267)	-	-	(36,267)
39009 Clarifier Drive Repair & Replacement	(46,972)	-	-	(46,972)
39010 Nutrient Reduction Study & Improvements	-	-	-	-
39012 WPCP & Compost Flood Mitigation	(2,450,503)	-	-	(2,450,503)
	<u>(2,677,434)</u>	<u>(918,545)</u>	<u>-</u>	<u>(3,595,979)</u>
Balance available as of 12/31/22	<u>2,113,395</u>	<u>-</u>	<u>510,988</u>	<u>2,637,221</u>

\* Estimated



**M E M O R A N D U M**

**DATE:** 10 February 2023

**TO:** Joint Contract Sewerage Committee

**FROM:** Mallory Merritt, Assistant City Administrator/CFO

**CC:** Nicole Gleason, Assistant City Administrator/PW Director  
 Dan Miers, WPC Plant Manager  
 Basia Gerlach, Controller

**RE:** FY 2023 Proposed Budget Amendment

Over the last calendar year, the City has continued to work to identify long-range planning, equipment, and capital needs related to the operations of the Water Pollution Control Plant facility. Although full-scale planning efforts remain underway and will be presented at a subsequent meeting, there are immediate equipment replacement needs to ensure the ongoing operations of the facility.

The Public Works Department has requested a budget amendment of \$500,000 to facilitate some immediate repair work. The specific budget amendment request is as follows:

<b>Total Request</b>	<b>\$500,000.00</b>
<b>Transfer – Other Operating Lines</b>	<b>\$200,000.00</b>
<b>Remaining Financial Impact</b>	<b>\$300,000.00</b>

Of the remaining \$300,000.00, the FY 2023 impact to each individual entity would be as follows:

<b>City</b>	<b>Cost Allocation Percentage</b>	<b>Amendment Amount</b>
Davenport	78.82%	\$236,460.00
Bettendorf	19.95%	\$59,850.00
Riverdale	1.16%	\$3,480.00
Panorama Park	0.07%	\$210.00

28 E Allocation FY24

A	B	C	D	E	F	G	H
1	<b>FY 2024 Budget (July 1, 2023 to June 30, 2024)</b>						
2	Total Est. Annual O&M, PW Admin., Fleet and Compost			\$ 9,846,458			
3	Total Est. Annual Energy Credit, Compost Revenue and Misc. Revenue			\$ 1,055,000			
4			<b>Estimated O&amp;M:</b>	\$ 8,791,458			
5							
6	Actual Industrial Pretreatment Cost- <b>CY 2022</b>		\$ 1,353,447				
7	WPCP Treatment Cost (O&M minus Pretreatment)		\$ 7,438,011				
8							
9	Total Plant Flow (gal.)- <b>CY 2022</b>		7,826,330,000	21.442	Annual avg. of the monthly, daily flow avg. from WPCP (MGD)		
10							
11	Total Plant Organics (lbs. BOD)- <b>CY 2022</b>		11,805,195	32,343	Annual avg. of the monthly, daily BOD avg. from WPCP (lbs.)		
12							
13	City	Population					
14	Davenport	101,724					
15	Bettendorf	39,102					
16	Riverdale	379					
17	Panorama Park	139					
18	<b>Total:</b>		<b>141,344</b>				
19			Flow Cost (\$)	Flow/1,000 gal.	Cost/ 1,000 gal.		
20	<b>Flow = 60% of WPCP Treatment Cost</b>		\$ 4,462,806.7	7,826,330	\$ 0.57		
21							
22			BOD Cost (\$)	lbs. BOD	Cost/ lb. BOD		
23	<b>Organics (BOD) = 40% of WPCP Treatment Cost</b>		\$ 2,975,204.5	11,805,195	\$ 0.25		
24							
25	<b>Annual Industrial Pretreatment Flow- CY 2022</b>						
26	City	Gallons	% Total	Flow/1,000 gal.	Cost/ 1,000 gal.		
27	Davenport	501,646,895	89.39%	501,647	\$ 286,054		
28	Bettendorf	19,214,092	3.42%	19,214	\$ 10,956		
29	Riverdale	40,298,201	7.18%	40,298	\$ 22,979		
30	Panorama Park	0	0.00%	0	\$ -		
31	<b>Total:</b>		<b>561,159,188</b>	<b>561,159</b>	<b>\$ 319,990</b>		
32							
33	<b>Annual Industrial Pretreatment Organics (BOD)- CY 2022</b>						
34	City	lbs. BOD	% Total	Cost/ lb. BOD			
35	Davenport	3,380,976	98.83%	\$ 852,091			
36	Bettendorf	20,001	0.58%	\$ 5,041			
37	Riverdale	19,914	0.58%	\$ 5,019			
38	Panorama Park	0	0.00%	\$ -			
39	<b>Total:</b>		<b>3,420,891</b>	<b>\$ 862,150</b>			
40							
41	<b>Residential &amp; Commercial Flow</b>						
42	Total Residential & Commercial Flow (gal.)- <b>CY 2022</b>			7,265,170,812			
43	Annual Flow (gallons/yr./capita)			51,400.63			
44	Daily Average Flow (gallons/day/capita)			140.82	<i>Industry Standard is equivalent is 100 gallons/day/capita</i>		
45							
46	<b>Residential &amp; Commercial Organics (BOD)</b>						
47	Total Residential & Commercial Organics (lbs. BOD)- <b>CY 2022</b>			8,384,304			
48	Annual BOD PE (lbs./yr/capita)			59.318			
49	Daily Ave BOD PE (lbs./day/capita)			0.163	<i>Industry Standard is equivalent is 0.17 lbs/day/capita</i>		
50							
51	<b>Residential &amp; Commercial Flow &amp; Organics (BOD)</b>						
52	City	Population	Annual Res. & Com. Flow (gal.)	Flow Cost/1,000 gal. (\$)	Annual Res. & Com. BOD (lbs.)	Annual Res. & Com. Organic Cost (\$)	
53	Davenport	101,724	5,228,677,805	\$ 2,981,548	6,034,108	\$ 1,520,746	
54	Bettendorf	39,102	2,009,867,480	\$ 1,146,086	2,319,469	\$ 584,564	
55	Riverdale	379	19,480,839	\$ 11,109	22,482	\$ 5,666	
56	Panorama Park	139	7,144,688	\$ 4,074	8,245	\$ 2,078	
57	<b>Total:</b>		<b>7,265,170,812</b>	<b>\$ 4,142,817</b>	<b>8,384,304</b>	<b>\$ 2,113,054</b>	
58							
59	<b>Summary of Total O&amp;M Treatment Costs Less Pretreatment Cost</b>						
60	City	Annual Res. & Com. Flow Cost/1,000 gal. (\$)	Annual Res. & Com. Organic Cost (\$)	Annual Industrial Flow Cost/1,000 gal. (\$)	Annual Industrial Organic Cost (\$)	Total Annual Cost (\$)	
61	Davenport	\$ 2,981,548	\$ 1,520,746	\$ 286,054	\$ 852,091	\$ 5,640,439	
62	Bettendorf	\$ 1,146,086	\$ 584,564	\$ 10,956	\$ 5,041	\$ 1,746,648	
63	Riverdale	\$ 11,109	\$ 5,666	\$ 22,979	\$ 5,019	\$ 44,773	
64	Panorama Park	\$ 4,074	\$ 2,078	\$ -	\$ -	\$ 6,152	
65	<b>Total:</b>					<b>\$ 7,438,011</b>	
66							
67	<b>Actual Industrial Pretreatment Cost Breakdown</b>				<b>Combined O&amp;M and Pretreatment Cost</b>		
68	City	% Flow	% BOD	Average %	Pretreatment Costs (\$)	Total Cost	Allocation % cost
69	Davenport	89.39%	98.83%	94.11%	\$1,273,783	\$6,914,221	78.65%
70	Bettendorf	3.42%	0.58%	2.00%	\$27,128	\$1,773,775	20.18%
71	Riverdale	7.18%	0.58%	3.88%	\$52,537	\$97,309	1.11%
72	Panorama Park	0.00%	0.00%	0.00%	\$0	\$6,152	0.07%
73	<b>Total:</b>				<b>\$1,353,447</b>	<b>\$ 8,791,458</b>	<b>100.00%</b>

\*June-July, 2017= 5 month flow avg.

BETTENDORF GRAND TOTALS

Month	Year	Flow (100 ft3)	BOD (mg/l)	SS (mg/l)	Total Discharge			Surcharge Discharge			
					Flow (gal)	BOD lbs	SS lbs	BOD (mg/l)	SS (mg/l)	BOD lbs	SS lbs
Jan	2022	2,613			1,954,191	592	733			0	0
Feb	2022	2,328			1,741,596	2,757	829			0	0
Mar	2022	3,221			2,409,436	1,879	1,260			0	0
Apr	2022	1,619			1,210,953	780	1,700			0	31
May	2022	1,713			2,409,037	1,262	417			0	0
Jun	2022	1,982			1,483,050	1,035	901			0	0
Jul	2022	2,218			1,658,614	2,039	1,306			0	0
Aug	2022	1,956			1,463,252	2,045	2,113			0	0
Sep	2022	1,899			1,420,398	1,935	2,234			95	96
Oct	2022	1,574			1,177,369	836	915			0	0
Nov	2022	1,552			1,160,857	3,042	2,194			1,505	412
Dec	2022	1,505			1,125,339	1,799	2,484			88	450
Month	Average	2,015			1,601,174	1,667	1,424			141	82
Year	Total	24,180			19,214,092	20,001	17,086			1,688	988
Day	Average	66			52,641	55	47			5	3

BETTENDORF YEARLY TOTALS

INDUSTRY	Flow (100 ft3)	Average BOD (mg/l)	Average SS (mg/l)	Total Discharge			Surcharge Discharge				
				Flow (gal)	BOD lbs	SS lbs	Average BOD (mg/l)	Average SS (mg/l)	BOD lbs	SS lbs	
ARCH MIRROR NORTH	0	0	0	0	0	0	0	0	0	0	0
DONAHUE STEEL	0	0	1	0	0	0	0	0	0	0	0
AMERICOLD	5,307	32	4	5,097,206	3,395	381	0	0	0	0	
VACANT	0	#DIV/0!	#DIV/0!	0	0	0	0	0	0	0	
PHILLIPS PIPELINE	0	0	0	0	0	0	0	0	0	0	
HEARTLAND PLATING	0	0	0	0	0	0	0	0	0	0	
TRINITY AT TERRACE PARK	9,852	222	235	7,368,739	13,868	13,833	26	15	1,688	988	
SIVYER STEEL	9,021	49	53	6,748,147	2,738	2,872	0	0	0	0	
TOTALS	24,180			19,214,092	20,001	17,086			1,688	988	

For Percent Allocation: daily average 52,641 55 47  
Arch Mirror, Americold, Heartland Plating, Trinity, and Sivyer Steel

BETTENDORF FLOW AND SURCHARGE REVENUE (dollars)

INDUSTRY	FLOW	BOD	SS	TOTAL
ARCH MIRROR NORTH	0	0	0	0
DONAHUE STEEL	0	0	0	0
AMERICOLD	8,916	0	0	8,916
VACANT	0	0	0	0
PHILLIPS PIPELINE	0	0	0	0
HEARTLAND PLATING	0	0	0	0
TRINITY AT TERRACE PARK	16,551	136	174	16,862
SIVYER STEEL	15,155	0	0	15,155
TOTALS	40,622	136	174	40,933
AVERAGE/MONTH	3,385	11	15	3,411



RIVERDALE INDUSTRIAL FLOWS AND LOADS

Used for Intergovernmental calculations

ARCONIC --formerly ALCOA

Month	Year	Flow (100 ft3)	BOD (mg/l)	SS (mg/l)	Total Discharge			Surcharge Discharge			
					Flow (gal)	BOD lbs	SS lbs	BOD (mg/l)	SS (mg/l)	BOD lbs	SS lbs
Jan	2022	4,780	58	92	3,575,176	1,729	2,743	0	0	0	0
Feb	2022	4,584	55	65	3,428,832	1,579	1,852	0	0	0	0
Mar	2022	3,955	79	156	2,958,340	1,944	3,849	0	0	0	0
Apr	2022	4,660	61	49	3,485,494	1,759	1,410	0	0	0	0
May	2022	3,915	70	50	2,928,569	1,697	1,227	0	0	0	0
Jun	2022	5,716	53	42	4,275,511	1,872	1,507	0	0	0	0
Jul	2022	4,938	35	42	3,693,799	1,078	1,294	0	0	0	0
Aug	2022	4,901	31	41	3,665,800	954	1,253	0	0	0	0
Sep	2022	3,875	197	116	2,898,490	4,762	2,804	0	0	0	0
Oct	2022	4,105	28	41	3,070,790	717	1,037	0	0	0	0
Nov	2022	4,706	30	29	3,520,330	881	859	0	0	0	0
Dec	2022	3,739	40	46	2,797,070	942	1,061	0	0	0	0
Month	Average	4,490	61	64	3,358,183	1,660	1,741	0	0	0	0
Year	Total	53,874			40,298,201	19,914	20,896			0	0
Day	Average	148			110,406	55	57			0	0

RIVERDALE GRAND TOTALS

Month	Year	Flow (100 ft3)	BOD (mg/l)	SS (mg/l)	Total Discharge			Surcharge Discharge			
					Flow (gal)	BOD lbs	SS lbs	BOD (mg/l)	SS (mg/l)	BOD lbs	SS lbs
Jan	2022	4,780	58	92	3,575,176	1,729	2,743	0	0	0	0
Feb	2022	4,584	55	65	3,428,832	1,579	1,852	0	0	0	0
Mar	2022	3,955	79	156	2,958,340	1,944	3,849	0	0	0	0
Apr	2022	4,660	61	49	3,485,494	1,759	1,410	0	0	0	0
May	2022	3,915	70	50	2,928,569	1,697	1,227	0	0	0	0
Jun	2022	5,716	53	42	4,275,511	1,872	1,507	0	0	0	0
Jul	2022	4,938	35	42	3,693,799	1,078	1,294	0	0	0	0
Aug	2022	4,901	31	41	3,665,800	954	1,253	0	0	0	0
Sep	2022	3,875	197	116	2,898,490	4,762	2,804	0	0	0	0
Oct	2022	4,105	28	41	3,070,790	717	1,037	0	0	0	0
Nov	2022	4,706	30	29	3,520,330	881	859	0	0	0	0
Dec	2022	3,739	40	46	2,797,070	942	1,061	0	0	0	0
Month	Average	4,490	67	98	3,358,183	1,660	1,741	0	0	0	0
Year	Total	53,874			40,298,201	19,914	20,896			0	0
Day	Average	148			110,406	55	57			0	0

RIVERDALE YEARLY TOTALS

INDUSTRY	Flow (100 ft3)	Average BOD (mg/l)	Average SS (mg/l)	Total Discharge			Surcharge Discharge			
				Flow (gal)	BOD lbs	SS lbs	Average BOD (mg/l)	Average SS (mg/l)	BOD lbs	SS lbs
ARCONIC --formerly ALCOA	53,874	61	64	40,298,201	19,914	20,896	0	0	0	0
TOTALS	53,874			40,298,201	19,914	20,896			0	0

For Percent Allocation: daily average

110,406      55      57

Salaries	Employee	Hourly Rate	% associated with Industrial Pretreatment in 2022	annual base salary associated with Industrial pretreatment in 2022
	Victoria	\$38.2260	75	\$59,632.56
	Jane*	\$34.8860	50*	\$36,281.44
	Jessica*	\$32.3951	50*	\$33,690.90
	Martin*	\$27.9364	50*	\$29,053.86
	Jared*	\$33.2069	50*	\$34,535.18
	Nate	\$26.5935	100	\$55,314.48
*calculated as the average percent among the analyses				\$248,508.42

Analyses	Test	average #/month	cost/test 2022**	average cost/month 2022	% associated with Industrial Pretreatment	average monthly cost spent on Industrial samples
	pH	104	\$11	\$1,148.58	99.3988	\$1,141.68
	BOD	2523	\$39	\$98,377.50	41.1481	\$40,480.50
	TSS	425	\$28	\$11,900.00	31.8885	\$3,794.74
	TVSS	9	\$30	\$265.00	0.0000	\$0.00
	TS	47	\$28	\$1,313.67	0.0000	\$0.00
	TVS	16	\$30	\$477.50	0.0000	\$0.00
	NH3	58	\$28	\$1,619.33	0.0000	\$0.00
	Cyanide	46	\$55	\$2,552.92	86.3095	\$2,203.41
	Phenol	10	\$28	\$266.00	85.7143	\$228.00
	COD	82	\$28	\$2,289.00	99.1566	\$2,269.70
	O&G	74	\$110	\$8,103.33	91.3658	\$7,403.67
	VOA	62	\$28	\$1,731.33	0.0000	\$0.00
	Alkalinity	44	\$17	\$746.58	0.0000	\$0.00
	Metals	1273	\$30/analyte***	\$38,192.73	90.0000	\$34,373.45
	Nitrite	44	\$6	\$264.00	16.8421	\$44.46
	Nitrate	53	\$6	\$320.50	16.8421	\$53.98
	Total P as P	46	\$11	\$502.33	16.8421	\$84.60
	TKN	53	\$22	\$1,175.17	16.8421	\$197.92
	E. coli	3	\$50	\$150.00	0.0000	\$0.00
<b>Totals</b>				\$171,245.48		\$92,078.20

\*\*cost/test has been increased 10% for most analytes in 2021 to reflect inflation

\*\*\*after evaluation of costs, it has been determined that \$40/test was a high estimate and prices have been adjusted to reflect this.

Yearly Cost spent on Industrial Pretreatment

Total (Including Salaries)

\$1,104,938.38

\$1,353,446.80

## Water Pollution Control Plant Capacity

Design Based on 40 MG MWW,	PE Factor	Population Equivalent (PE)	85% PE
Flow, 40 MG	100 gallons/capita/day	400,000	340,000
BOD, 65,000 lbs/day	0.17 lbs BOD/capita/day	382,353	325,000
Total Suspended Solids, 67,200 lbs./day	0.23 lbs. TSS/capita/day	292,174	248,348

2020 Census Data		% of PE Flow 40 MG MWW	Percent of Capacity	PE Flow 100%	PE Flow 85%
100 gallons/capita/day	Population		40 MWW % PE Flow	40 MWW % PE Flow	40 MWW % PE Flow
Davenport	101,724	25.43%	71.97%	287,876	244,695
Bettendorf	39,102	9.78%	27.66%	110,658	94,059
Riverdale	379	0.09%	0.27%	1,073	912
Panorama Park	139	0.03%	0.10%	393	334
<b>Total</b>	<b>141,344</b>	<b>35.34%</b>	<b>100.00%</b>	<b>400,000</b>	<b>340,000</b>

2020 Census Data		% of PE Flow 40 MG MWW	Percent of Capacity	PE BOD 100%	PE BOD 85%
BOD PE @ 0.17 lbs. BOD/capita/day	Population		40 MWW % PE Flow	40 MWW % PE Flow	40 MWW % PE Flow
Davenport	101,724	26.60%	71.97%	275,176	233,900
Bettendorf	39,102	10.23%	27.66%	105,776	89,909
Riverdale	379	0.10%	0.27%	1,025	871
Panorama Park	139	0.04%	0.10%	376	320
<b>Total</b>	<b>141,344</b>	<b>36.97%</b>	<b>100.00%</b>	<b>382,353</b>	<b>325,000</b>

2020 Census Data		% of PE Flow 40 MG MWW	Percent of Capacity	PE TSS 100%	PE TSS 85%
TSS PE @ 0.23 lbs. BOD/capita/day	Population		40 MWW % PE Flow	40 MWW % PE Flow	40 MWW % PE Flow
Davenport	101,724	34.82%	71.97%	210,275	178,734
Bettendorf	39,102	13.38%	27.66%	80,828	68,704
Riverdale	379	0.13%	0.27%	783	666
Panorama Park	139	0.05%	0.10%	287	244
<b>Total</b>	<b>141,344</b>	<b>48.38%</b>	<b>100.00%</b>	<b>292,174</b>	<b>248,348</b>

City Population Equivalent Worksheet Totals and Percentages. **85% Capacity**

City	Flow, PE			BOD, lbs/day			TSS, lbs/day		
	40 MWW PE		Population	40 MWW PE		Population	40 MWW PE		Population
<b>Davenport</b>									
Population	244,695	41.57%	101,724	233,900	43.49%	101,724	178,734	56.91%	101,724
Industry	244,695	15.58%	38,118	233,900	65.89%	154,115	178,734	45.65%	81,598
<b>Total</b>		<b>57.15%</b>	139,842		<b>109.38%</b>	255,839		<b>102.57%</b>	183,322
<b>Total</b>	340,000	41.13%	139,842	325,000	78.65%	255,620	248,348	73.74%	183,125
<b>Bettendorf</b>									
Population	94,059	41.57%	39,102	89,909	43.49%	39,102	68,704	56.91%	39,102
Industry	94,059	1.44%	1,350	89,909	3.27%	2,941	68,704	2.85%	1,956
<b>Total</b>		<b>43.01%</b>	40,452		<b>46.76%</b>	42,043		<b>59.76%</b>	41,058
<b>Total</b>	340,000	11.90%	40,452	325,000	12.94%	42,043	248,348	16.53%	41,058
<b>Riverdale</b>									
Population	912	41.56%	379	871	43.51%	379	666	56.91%	379
Industry	912	279.61%	2,550	871	358.67%	3,124	666	415.92%	2,770
<b>Total</b>		<b>321.16%</b>	2,929		<b>402.18%</b>	3,503		<b>472.82%</b>	3,149
<b>Total</b>	340,000	0.86%	2,929	325,000	1.08%	3,503	248,348	1.27%	3,149
<b>Panorama Park</b>									
Population	334	41.62%	139	320	43.44%	139	244	56.97%	139
<b>Total</b>		41.62%	139		43.44%	139		56.97%	139
<b>Total</b>	340,000	0.04%	136	325,000	0.04%	139	248,348	0.05%	136
Percentage of Capacity Allocated		53.93%	183,359		92.71%	301,305		91.59%	227,468

City Population Equivalent Worksheet Totals and Percentages. **100% Capacity**

City	Flow, PE			BOD, lbs/day			TSS, lbs/day		
	40 MWW PE		Population	40 MWW PE		Population	40 MWW PE		Population
<b>Davenport</b>									
Population	287,876	35.34%	101,724	275,176	36.97%	101,724	210,275	48.38%	101,724
Industry	287,876	13.24%	38,118	275,176	56.01%	154,115	210,275	24.54%	51,598
<b>Total</b>		<b>48.58%</b>	139,842		<b>92.97%</b>	255,839		<b>72.91%</b>	153,322
<b>Total</b>	400,000	34.96%	139,842	382,353	66.85%	255,620	292,174	62.68%	183,125
<b>Bettendorf</b>									
Population	110,658	35.34%	39,102	105,776	36.97%	39,102	80,828	48.38%	39,102
Industry	110,658	1.22%	1,350	105,776	2.78%	2,941	80,828	2.42%	1,956
<b>Total</b>		<b>36.56%</b>	40,452		<b>39.75%</b>	42,043		<b>50.80%</b>	41,058
<b>Total</b>	400,000	10.11%	40,452	382,353	11.00%	42,043	292,174	14.05%	41,058
<b>Riverdale</b>									
Population	1,073	35.32%	379	1,025	36.98%	379	783	48.40%	379
Industry	1,073	237.65%	2,550	1,025	304.78%	3,124	783	353.77%	2,770
<b>Total</b>		<b>272.97%</b>	2,929		<b>341.76%</b>	3,503		<b>402.17%</b>	3,149
<b>Total</b>	400,000	0.73%	2,929	382,353	0.92%	3,503	292,174	1.08%	3,149
<b>Panorama Park</b>									
Population	393	35.37%	139	376	36.97%	139	287	48.43%	139
<b>Total</b>		<b>35.37%</b>	139		<b>36.97%</b>	139		<b>48.43%</b>	139
<b>Total</b>	400,000	0.03%	139	382,353	0.04%	139	292,174	0.05%	139
Percentage of Capacity Allocated		45.84%	183,362		78.80%	301,305		77.85%	227,471

Comparison of Maximum Daily allocated permitted flows and loadings vs. Population Equivalent

INDUSTRY	Flow, MGD			BOD, lbs/day			TSS, lbs/day		
	Monthly Avg. (Allocated)	Population Equivalent	% of WPC Treatment @ 40 MGD	Monthly Avg. (Allocated)	Population Equivalent	% of WPC Treatment @ 40 MGD	Monthly Avg. (Allocated)	Population Equivalent	% of WPC Treatment @ 40 MGD
<b>Davenport</b>									
P B Leiner	1.200	12,000	3.00%	17,000	100,000	26.15%	8,400	36,522	12.50%
Kraft Heinz	0.900	9,000	2.25%	2,439	14,347	3.75%	2,927	12,726	4.36%
Nestle Purina	0.250	2,500	0.63%	3,040	17,882	4.68%	3,158	13,730	4.70%
Novelis ALR Aluminum 1	0.200	2,000	0.50%	300	1,765	0.46%	300	1,304	0.45%
Novelis ALR Aluminum 2	0.175	1,750	0.44%	365	2,147	0.56%	657	2,857	0.98%
John Deere (1)	<b>0.340</b>	<b>3,400</b>	<b>0.85%</b>	<b>1,001</b>	<b>5,888</b>	<b>1.54%</b>	<b>1,001</b>	<b>4,352</b>	<b>1.49%</b>
Genesis Health East (1)	0.144	1,440	0.36%	751	4,418	1.16%	901	3,917	1.34%
Genesis Health East (2)	0.019	190	0.05%	59	347	0.09%	95	413	0.14%
Sears Manufacturing (2)	0.178	1,780	0.45%	250	1,471	0.38%	300	1,304	0.45%
Genesis Health West	0.150	1,500	0.38%	376	2,212	0.58%	250	1,087	0.37%
Crescent Laundry	0.060	600	0.15%	163	959	0.25%	195	848	0.29%
<b>Cobham Life Support</b>	<b>0.030</b>	<b>300</b>	<b>0.08%</b>	<b>125</b>	<b>735</b>	<b>0.19%</b>	<b>125</b>	<b>543</b>	<b>0.19%</b>
Canadian Pacific Railroad	0.020	200	0.05%	35	206	0.05%	43	187	0.06%
LeClaire Manufacturing	0.000	0	0.00%	0	0	0.00%	0	0	0.00%
Isabel Bloom	<b>0.0050</b>	<b>50</b>	<b>0.00%</b>	<b>3</b>	<b>18</b>	<b>0.00%</b>	<b>10</b>	<b>45</b>	<b>0.02%</b>
Alter Trading Company	0.030	300	0.08%	NL	0	<b>0.00%</b>	NL	0	<b>0.00%</b>
AVG/Uticor Automation	<b>0.0008</b>	<b>8</b>	<b>0.00%</b>	NL	0	<b>0.00%</b>	NL	0	<b>0.00%</b>
Industrial Technology	0.0020	20	0.01%	NL	0	<b>0.00%</b>	NL	0	<b>0.00%</b>
River Cities Business Park	0.108	1,080	0.27%	293	1724	0.45%	405	1,761	0.60%
<b>Total</b>	<b>3.812</b>	<b>38,118</b>	<b>9.52%</b>	<b>26,200</b>	<b>154,120</b>	<b>40.31%</b>	<b>18,767</b>	<b>81,597</b>	<b>27.93%</b>
John Wulf's Septic Tank	0.005		0.00%	0		0.00%	0		0.00%
Quest Liner Tank Wash	0.0250	250	0.06%	375	2,206	0.58%	188	817	0.28%
Enviromark Corporation	0.030		0.00%	0		0.00%	0		0.00%
Seneca Companies	0.030		0.00%	0		0.00%	0		0.00%
Roto-Rooter	0.015		0.00%	0		0.00%	0		0.00%
B&B Drain Tech, Inc.	0.007		0.00%	0		0.00%	0		0.00%
Roger's MTW	0.005		0.00%	0		0.00%	0		0.00%
Scott Area Landfill	0.065		0.00%	0		0.00%	0		0.00%
Environmental Management	0.030		0.00%	0		0.00%	0		0.00%
Elite Trash Can Cleaning	0.000650		0.00%	0		0.00%	0		0.00%
First Class Power Washing	0.0008		0.00%	0		0.00%	0		0.00%
<b>Waste Hauler Total</b>	<b>0.213</b>	<b>2,130</b>	<b>0.53%</b>	<b>375</b>	<b>2206</b>	<b>0.58%</b>	<b>188</b>	<b>817</b>	<b>0.28%</b>
<b>Bettendorf</b>									
Trinity Medical Bett	0.060	600	0.15%	375	2,206	0.58%	225	978	0.33%
Sivyer Steel	0.075	750	0.19%	125	735	0.19%	225	978	0.33%
Americold (Vacant)									
<b>Total</b>	<b>0.135</b>	<b>1350</b>	<b>0.003</b>	<b>500</b>	<b>2941</b>	<b>0.77%</b>	<b>450</b>	<b>1956</b>	<b>0.67%</b>
<b>Riverdale</b>									
Arconic	0.255	2550	0.64%	531	3124	0.82%	637	2770	0.95%