

UTILITY COMMITTEE Meeting Notice

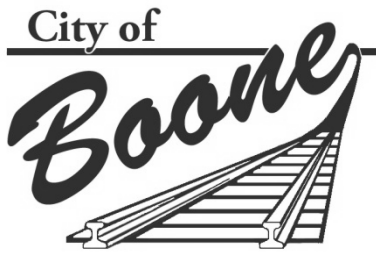
Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: September 12, 2023

Time of Meeting: 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.
2. Approve Minutes from the August 8, 2023 Meeting.
3. Discuss Solution for Phase 5 I & I Penalty Charges and Compliance. – Lora Shreve.
4. Discuss HSC/Stairs Conflict. – UV Project.
5. Review July 2023 US Water Monthly Report.
6. Meter Upgrade Report.
 - a. August
7. Stop Box Repair/Shut Off Report.
 - a. August
8. Other Business.
9. Adjourn.



UTILITY COMMITTEE

Meeting Notice

Governing Body: Utility Committee of Boone, Iowa

Date of Meeting: August 8, 2023

Time of Meeting: 4:30 P.M.

Place of Meeting: City Hall Council Chambers

1. Call Meeting to Order.

Present: Moorman, Stines, Angstrom

Others present: Skare, Andrews, Majors, Vote, Perry Gjersvik, Residents of County Club Drive

2. Approve Minutes from the July 11, 2023 Meeting.

Angstrom moved; Stines seconded to approve the minutes of the July 11, 2023 Utility Meeting.

Ayes: all those in attendance. Nays: none.

3. Discuss High Water Bill. – David and Jean Elsberry.

Dave Elsberry presented a request for relief on a \$1400.00 water bill. Elsberry stated he accidentally left a hose running while flushing his in-line sewer. Elsberry stated he had already set up a payment plan with the Utility Billing Department. Andrews stated this fell under negligence and is not covered by the Leak Protection Coverage. Moorman advised they could not set a precedence by approving relief on the bill. Elsberry stated he would continue with the payment plan and call the Utility Billing Department if any issues with paying came up.

4. Review Options for Country Club Drive.

Perry Gjersvik, Project Manager, Short Elliott Hendrickson (SEH), reviewed the storm drainage issues previously brought to the Utility Committee by residents living on Country Club Drive.

Gjersvik noted three (3) deficiencies for the drainage issues including:

- 1) Existing curbing along both sides of the street has settled and is tipping away from the street, causing inadequate flow and ponding of storm water along both sides of the street.*
- 2) No storm intakes or storm sewers along the entire length of the street to provide storm water drainage.*
- 3) Sump pumps are discharged into the street gutters along both sides of the street rather than into either a storm sewer or a sump pump discharge piping system.*

Gjersvik advised that all three (3) deficiencies should be corrected and presented an Opinion of Probable Costs in an amount of \$420,250.00. Skare stated that since this is a significant cost, it will need to be planned for in the budget by including it for discussion in the next Capital Improvement Plan (CIP) meeting in November. Skare explained the CIP process to the residents of Country Club Drive. The Committee discussed other areas of town that have similar issues and budgeting for the future. The Committee directed staff to review potentially raising storm water rates and bringing it back to the next Utility meeting for review.

5. Discuss Shut Offs for Unpaid Utility Deposits. – Vote.

Skare advised that discussing shut offs for unpaid utility deposits had been resolved by staff prior to the meeting.

6. Discuss 2nd Contract Amendment for Fox Strand Regarding UV Project.

Laurie Twitchell, Project Manager with FOX Strand, presented a Contract Amendment #2 extending FOX Strand's engineering services for the Wastewater UV Disinfection Project for \$23,900.00. The additional services include planning and participation in additional meetings, additional site visits, and time related to the Contractor's liquidated damages determinations. Stines moved; Angstrom seconded to recommend bringing the Contract Amendment #2 in the amount of \$23,900.00 to full Council for approval at the next Council meeting. Ayes: all those in attendance. Nays: none.

7. Review Monthly Water and Wastewater Operations and Maintenance Report for June 2023.

The Committee reviewed the monthly US Water and Wastewater Operations and Maintenance Report for June 2023.

8. Review Boone Wastewater Pretreatment Compliance Inspection Report.

The Committee reviewed the Boone Wastewater Pretreatment Compliance Inspection Report.

9. Meter Upgrade Report.

- a. July

Andrews reported that in July, staff finished seventeen (17) meter upgrades with seven (7) meters installed for new service.

10. Stop Box Repair/Shut Off Report.

- a. July

Vote stated that in July, \$3,145.25 was collected during shut-offs; twenty (20) accounts qualified to be on the shut off list. Five (5) delinquent bills totaling \$1,447.95 were certified August 1, 2023 and if left unpaid, nine (9) bills totaling \$2, 417.15 are scheduled to be certified on August 28, 2023. Vote also reported that there are one hundred seventeen (117) stop boxes in need of repair.

11. Other Business.

12. Adjourn.

5:25 p.m.

July 2023

City of Boone, Iowa

Water & Wastewater Treatment Facilities, Storage, and Lift Stations
Monthly Operations & Maintenance Report

Prepared by:



1406 Central Avenue
Fort Dodge, IA 50501
(515) 269-2338

Prepared For:



923 8th Street
Boone, IA 50036
(515) 432-4211

July 2023

City of Boone
William J. Skare, City Administrator
923 8th Street
Boone, IA 50036

July Monthly Water & Wastewater Operations Report

Dear Mr. Skare:

In accordance with contract requirements, we are pleased to provide the following monthly report for July 2023. Below is a list of the significant events that occurred during the month:

SUBMITTED TO: William J. Skare, City Administrator
Utility Committee and City Council, City of Boone
Aaron Voss, U.S. Water Services Corporation

We appreciate the opportunity to be of service to the City of Boone. We are available to discuss this report, or any other aspect of our operations, at your convenience. Should you have any questions or need additional information, please do not hesitate to contact us.

Sincerely,

J.D. Roberts, Water Environment Plant Supervisor
USW Utility Group
(712) 259-0805
JRoberts@USWaterCorp.net

Dave Moore, Water Works Supervisor
USW Utility Group
(515) 230-3130
DMoore@USWaterCorp.net

WATER

Water Treatment Facility

This month the drinking water treatment facility.....

Finished Water Monthly Flows and Hardness			
		July-2022	July-2023
Water	Units		
Average Daily Pumped	gallons	1,918,000	1,943,000
Maximum Daily Pumped	gallons	2,189,000	2,223,000
Minimum Daily Pumped	gallons	1,322,000	1,540,000
Hardness			
Hardness - Avg Raw	grains	20.9	18.4
Hardness - Avg Finish	grains	9.9	9.3
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.58	.56
Avg Finish Fl.	mg/L	.71	.74

Water Storage

During the month of July, all three water towers were in operation as well as the 2-million-gallon reservoir and 100,000-gallon contact basin for a total of 3,700,000 gallons of storage.

Maintenance Report

During the month of July, staff rotated slakers, cleaned and serviced slaker #1, verified turbidity meters weekly, calibrated turbidity meters, cleaned and verified calibration on CL2 analyzers weekly, mowed grass at Water Plant, Water Towers and Pump Station, trimmed and cut down trees around lime ponds, mowed around lime ponds, sprayed weeds at water towers and plant, mowed well field, installed new

sample lines on Claricone #1, repaired mower deck on John Deere diesel tractor, serviced electric gates at plant and pump station, cleaned exterior of LP and CO2 storage tanks, cleaned and augured lime feed troughs, and general cleaning.

Current & Planned Projects

During the month of August staff plans to continue to cut and trim tree's, replace Backflow Preventer valves on claricones, remove trees around wells and well field, and misc. mowing and maintenance.

Health & Safety

There were no safety violations to report for the current month.

The subjects of the monthly safety training were: Climb onto Ladder Safety, Listen Up To Protect Your Hearing, Don't Let Chemicals Get You, Distracted Driving Is Dangerous, Blood borne Pathogens (BBP), and Behavior-Based Safety.

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

During the month of July

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	72.8	•	MGD
Average per day	2.34	•	MGD
Minimum	1.43	•	MGD
Maximum	11.78	•	MGD

Parameter	Wastewater Influent & Effluent Quality							
	Influent		Effluent					
	Daily Ave MG/L	Daily Ave LBS/Day	Daily Max MG/L	Permit Daily MG/L Limit	7 Day Max Ave MG/L	Permit 7 Day Max Limit	30 Day Average	Permit 30 Day Ave
BOD ₅	155.88	4483	•	•	•	•	•	•
CBOD ₅	•	•	3	•	3	40	3	25
Suspended solids	132.44	4066	7	•	3	45	3	30
Nitrogen Ammonia	11.8	184	.1	17.6	.1	•	.1 MG/L	1.0 MG/L
Nitrate Nitrogen	•	•	174 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	9.1	>5.0	8.8	•	8.54	>5.0
pH	7.34	•	8.0	6.5 to 9 STD Units	7.94	•	7.9	6.5 to 9 STD Units

ND= No Detection

• = No limit set

Solids Inventory

During the month of July, staff hauled 31.94 Tons and pressed for 3 days (100,000 gallons).

Lift Stations

Lift Station on Airport Rd. has problems with Pump 1 not pumping for a while. It is unable to prime or keep a prime when the pump is off.

Generator Install at 14th and Division (no time frame)

Generator Install at 220th Lift Station (no time frame)

Maintenance Report

7-4-23 Installed air relief valve in WAS pump 2.

7-6-23 Electric Pump Lift Stations Annual Service.

7-21-23 Exhaust Fan Installed at 14th & Division.

UV System is almost complete. UVI sensor needs to be replaced.

Sixty (60) Preventive Maintenance Work Orders Completed.

Current & Planned Projects

RAS pumps replacement- (currently in Engineering)

Tuck Pointing – (currently being completed)

Sand Blasting on North Clarifier (September)

Roof Replacements- (currently in Engineering)

In-plant Lift Station- (currently in Engineering)

Preliminary Screen Install- (currently in Engineering)

Health & Safety

There were no safety violations to report for the current month.

The subjects of the monthly safety training were Office Safety Overview and personal Fall Arrest Systems.

Regulatory Reports

See attached documents

**SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT
IOWA DNR WATER SUPPLY SECTION**

Basic Information

S/EP #: 1

SYSTEM NAME: Boone Water Works

PWSID #: 0819033

MONTH: July

YEAR: 2023

DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl ₂ Used
	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day		Quantity Used in lbs.	Finished Water (mg/L)	Source/Entry Point (S/EP)			Distribution						
			Number of Tests Taken*			Specify Free (F) or Total (T)	Lowest Measured Residual (mg/L)	Continuous Hours Less Than 0.3 mg/L Free or 1.5 mg/L Total	Number of Tests Taken	Lowest Measured Residual Free (mg/L)	Number With Undetected Residual	Highest Measured Residual Free (mg/L)	Ratio of CT Obtained to CT Required	Chlorine in lbs.	
1	1,882	1,547	16.00	26	0.72	"C"	(F)	1.93	0	1	0.76	0	0.76	16.3	49
2	2,471	2,218	20.50	32	0.74	"C"	(F)	1.92	0	1	0.75	0	0.75	12.1	76
3	2,158	1,632	18.75	22	0.67	"C"	(F)	1.99	0	1	1.34	0	1.34	14.5	60
4	2,173	1,883	19.50	26	0.69	"C"	(F)	2.07	0	1	0.62	0	0.62	14.7	60
5	2,490	1,988	22.00	24	0.70	"C"	(F)	2.09	0	1	1.49	0	1.49	11.7	71
6	2,350	1,909	21.00	30	0.62	"C"	(F)	2.12	0	1	0.81	0	0.81	12.9	70
7	1,773	1,540	15.75	25	0.69	"C"	(F)	2.13	0	1	0.87	0	0.87	17.6	52
8	2,439	1,920	21.75	29	0.77	"C"	(F)	2.05	0	1	0.83	0	0.83	12.5	68
9	2,275	1,870	20.25	24	0.73	"C"	(F)	2.04	0	1	0.83	0	0.83	13.6	65
10	2,395	1,946	21.25	30	0.66	"C"	(F)	2.04	0	6	0.71	0	1.78	13.0	67
11	2,566	2,033	22.00	34	0.71	"C"	(F)	2.03	0	1	0.79	0	0.79	12.0	68
12	2,069	1,697	18.50	28	0.76	"C"	(F)	2.05	0	1	0.81	0	0.81	14.9	59
13	2,070	1,702	18.50	30	0.74	"C"	(F)	1.99	0	1	0.83	0	0.83	15.5	57
14	1,980	1,680	17.50	29	0.80	"C"	(F)	1.99	0	1	0.59	0	0.59	16.3	54
15	2,056	1,702	18.25	30	0.70	"C"	(F)	1.98	0	1	0.63	0	0.63	15.7	54
16	2,251	1,829	20.00	32	0.74	"C"	(F)	2.03	0	1	0.73	0	0.73	14.7	65
17	2,662	2,144	23.75	40	0.76	"C"	(F)	2.07	0	6	0.80	0	1.28	12.6	78
18	2,434	2,009	20.50	38	0.76	"C"	(F)	2.13	0	1	0.77	0	0.77	14.1	68
19	2,518	2,076	21.25	38	0.84	"C"	(F)	2.14	0	1	0.77	0	0.77	13.9	68
20	2,504	2,077	21.00	38	0.77	"C"	(F)	2.14	0	1	0.79	0	0.79	14.5	71
21	2,540	2,074	21.50	39	0.70	"C"	(F)	2.22	0	1	0.86	0	0.86	14.4	69
22	2,460	2,034	20.75	37	0.65	"C"	(F)	2.15	0	1	0.91	0	0.91	14.6	66
23	2,543	2,102	21.25	38	0.66	"C"	(F)	2.03	0	1	0.94	0	0.94	14.1	59
24	2,463	2,014	21.00	38	0.78	"C"	(F)	1.91	0	1	0.96	0	0.96	13.4	66
25	2,672	2,223	21.25	42	0.84	"C"	(F)	1.96	0	6	0.85	0	1.22	12.8	75
26	2,794	2,149	23.75	43	0.78	"C"	(F)	2.03	0	1	0.93	0	0.93	12.3	69
27	2,189	1,836	18.00	35	0.84	"C"	(F)	2.12	0	1	0.93	0	0.93	16.2	62
28	2,436	2,044	20.50	37	0.73	"C"	(F)	2.00	0	1	0.97	0	0.97	14.5	63
29	2,567	2,164	21.50	41	0.78	"C"	(F)	2.03	0	1	0.96	0	0.96	14.1	66
30	2,434	2,120	21.50	38	0.79	"C"	(F)	2.06	0	1	0.96	0	0.96	15.3	64
31	2,473	2,064	20.75	38	0.79	"C"	(F)	2.05	0	1	0.95	0	0.95	14.6	65
Total	73,087	60,226	629.75	1,031						46		0			2,004
Avg	2,358	1,943	20.45	33	0.74										65
Max	2,794	2,223	23.75	43	0.84				0				1.78		78
Min	1,773	1,540	15.75	22	0.62			1.91			0.59			11.7	49

*If continuous monitoring of chlorine is provided, enter "C" in the space provided.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore
 Certificate #: 4108 Grade: IV Date: 8/2/2023

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY SECTION

Turbidity Data Page 1 of 1

S/EP: #1

SYSTEM NAME: Boone Water Works

PWSID #: 0819033

MONTH: July

YEAR: 2023

DAY	Finished Water			Filter Effluent																Raw Water Turbidity (Highest Daily Reading NTU)
	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (NTU)	#1			#2			#3			#4							
				Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >1.0 NTU					
1	19	0	.02	.01	.01	.02	0	.01	.01	.09	0	.01	.01	.04	0	.02	.02	.04	0	0.06
2	18	0	.02	.02	.02	.03	0	.01	.01	.03	0	.01	.01	.04	0	.02	.02	.03	0	0.06
3	22	0	.02	.03	.03	.07	0	.02	.02	.08	0	.02	.02	.12	0	.03	.02	.05	0	0.06
4	19	0	.02	.01	.01	.03	0	.01	.01	.13	0	.02	.02	.18	0	.02	.02	.08	0	0.06
5	20	0	.02	.01	.01	.02	0	.01	.01	.04	0	.02	.02	.05	0	.02	.02	.02	0	0.06
6	21	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.06
7	21	0	.02	.03	.03	.03	0	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.01	0	0.06
8	16	0	.02	.01	.01	.02	0	.01	.01	.03	0	.02	.01	.02	0	.01	.01	.02	0	0.06
9	21	0	.02	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.03	0	0.06
10	20	0	.02	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.03	0	.01	.01	.02	0	0.06
11	21	0	.02	.03	.03	.04	0	.02	.01	.04	0	.01	.01	.03	0	.01	.01	.02	0	0.06
12	23	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.06
13	19	0	.02	.01	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	0.07
14	19	0	.02	.03	.02	.03	0	.01	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.07
15	18	0	.02	.02	.03	.03	0	.02	.01	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.07
16	18	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.06
17	20	0	.03	.01	.01	.02	0	.02	.01	.03	0	.01	.01	.02	0	.02	.02	.04	0	0.06
18	24	0	.03	.03	.03	.04	0	.01	.01	.01	0	.01	.01	.01	0	.01	.01	.02	0	0.06
19	21	0	.02	.04	.04	.04	0	.02	.02	.02	0	.01	.01	.02	0	.01	.01	.02	0	0.06
20	21	0	.02	.01	.01	.02	0	.02	.02	.04	0	.02	.02	.02	0	.01	.01	.02	0	0.06
21	21	0	.02	.01	.01	.03	0	.01	.01	.12	0	.01	.01	.02	0	.02	.02	.02	0	0.06
22	21	0	.03	.02	.02	.03	0	.01	.01	.05	0	.01	.01	.02	0	.01	.01	.04	0	0.06
23	21	0	.02	.03	.03	.04	0	.02	.02	.03	0	.01	.01	.02	0	.01	.01	.02	0	0.06
24	21	0	.03	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.06
25	22	0	.02	.01	.01	.02	0	.01	.01	.03	0	.01	.01	.02	0	.02	.02	.02	0	0.06
26	22	0	.02	.03	.03	.03	0	.02	.02	.03	0	.01	.01	.02	0	.01	.01	.02	0	0.06
27	24	0	.03	.03	.03	.03	0	.02	.02	.09	0	.01	.01	.02	0	.01	.01	.02	0	0.06
28	18	0	.03	.01	.01	.02	0	.02	.01	.03	0	.02	.02	.03	0	.01	.01	.03	0	0.07
29	20	0	.02	.01	.01	.02	0	.01	.01	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.07
30	21	0	.02	.02	.02	.02	0	.02	.01	.05	0	.01	.01	.02	0	.02	.01	.02	0	0.07
31	22	0	.02	.03	.03	.05	0	.02	.02	.02	0	.02	.02	.03	0	.01	.01	.03	0	0.06
Total	634	0					0				0				0.02				0	
Avg																				0.06
Max			.03			.07				.13				.18				.08		0.07
Min																				0.06

**If continuous monitoring of turbidity is provided, measurements must be recorded at equal time intervals at least once every four hours or hourly for plants w/pop. >100,000.

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator's or Designee's Signature: David Moore
 Certificate #: 4108 Grade: IV Date: 8/2/2023

**SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT
IOWA DNR WATER SUPPLY**

Basic Information

S/EP: #1

System Name: _____ PWSID #: 819033 Month: July Year: 2023

Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity Highest Daily Reading (NTU)	Settled Turbidity (individual sedimentation basin)								
		Number of hours the plant operated per day	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day	Quantity Used in lbs. or gal. (circle one)		Finished Water (mg/L)	Highest Daily Reading Sed 1 (NTU)	Highest Daily Reading Sed 2 (NTU)	Highest Daily Reading Sed 3 (NTU)					Highest Daily Reading Sed 4 (NTU)
1	16.00	1882.00	1547.00	26.00	0.72	0.06	0.91								
2	20.50	2471.00	2218.00	32.00	0.74	0.06	0.86								
3	18.75	2158.00	1632.00	22.00	0.67	0.06	0.53								
4	19.50	2173.00	1883.00	26.00	0.69	0.06	0.67								
5	22.00	2490.00	1988.00	24.00	0.70	0.06	1.44								
6	21.00	2350.00	1909.00	30.00	0.62	0.06	0.91								
7	15.75	1773.00	1540.00	25.00	0.69	0.06	0.86								
8	21.75	2439.00	1920.00	29.00	0.77	0.06	0.95								
9	20.25	2275.00	1870.00	24.00	0.73	0.06	0.57								
10	21.25	2395.00	1946.00	30.00	0.66	0.06	1.76								
11	22.00	2566.00	2033.00	34.00	0.71	0.06	1.62								
12	18.50	2069.00	1697.00	28.00	0.76	0.06	0.62								
13	18.50	2070.00	1702.00	30.00	0.74	0.07	1.45								
14	17.50	1980.00	1680.00	29.00	0.80	0.07	0.92								
15	18.25	2056.00	1702.00	30.00	0.70	0.07	1.19								
16	20.00	2251.00	1829.00	32.00	0.74	0.06	0.90								
17	23.75	2662.00	2144.00	40.00	0.76	0.06	0.94								
18	20.50	2434.00	2009.00	38.00	0.76	0.06	0.36								
19	21.25	2518.00	2076.00	38.00	0.84	0.06	1.18								
20	21.00	2504.00	2077.00	38.00	0.77	0.06	0.61								
21	21.50	2540.00	2074.00	39.00	0.70	0.06	1.48								
22	20.75	2460.00	2034.00	37.00	0.65	0.06	0.41								
23	21.25	2543.00	2102.00	38.00	0.66	0.06	0.66								
24	21.00	2463.00	2014.00	38.00	0.78	0.06	0.79								
25	21.25	2672.00	2223.00	42.00	0.84	0.06	0.84								
26	23.75	2794.00	2149.00	43.00	0.78	0.06	0.41								
27	18.00	2189.00	1836.00	35.00	0.84	0.06	0.99								
28	20.50	2436.00	2044.00	37.00	0.73	0.07	0.95								
29	21.50	2567.00	2164.00	41.00	0.78	0.07	1.22								
30	21.50	2434.00	2120.00	38.00	0.79	0.07	1.25								
31	20.75	2473.00	2064.00	38.00	0.79	0.06	0.85								
Total	630	73,087	60,226	1,031								0	0	0	0
Avg	20.31	2,358	1,943	33.26	0.74	0.06	0.94	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Max	23.75	2,794	2,223	43.00	0.84	0.07	1.76	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Min	15.75	1,773	1,540	22.00	0.62	0.06	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

I certify that I am familiar with the information contained in this report and that the information is true, complete, and accurate.

DRC Operator or Designee's Signature: David Moore

Certificate #: 4108 Grade: IV Date: _____

**IOWA DEPARTMENT OF NATURAL RESOURCES
NPDS REPORTING SYSTEM - DISCHARGE MONITORING REPORT
FACILITY INFORMATION**

This form is valid 2/1/2023 to 7/31/2024

Facility Name: BOONE CITY OF STP

Permit #: 0819001

Month/Year:

7	2023
---	------

Outfall #(s): 001 - DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY.

Operator Name:

John Roberts

Certification #:

10924

Phone #:

7122590808

Lab Cert. #:

156

Comments:

--

**Include Comments longer than 1000 characters in email*

Signature:

John Roberts

<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.</p>
--

Permit # 0819001
 Facility Name: BOONE CITY OF STP

Monthly Operation Report
 IOWA DEPARTMENT OF NATURAL RESOURCES
 NPDS - Operation Permit System
 INFLUENT Data

Outfall #: 001
 Month/Year: 7-2023

Mon. Point	RAW WASTE													
	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP	PH	
Parameter	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	STD UNITS	
Units	7/WEEK OR DAILY	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	
Frequency														
Start Date														
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	
No Discharge														
LOQ														
Day: 1	1.838													
2	1.715													
3	1.584				127	1656.55752						66	7.5	
4	1.526						19.65	250.082406	19	241.80996	3	38.18052	64	7.5
5	1.586	138	1802.34072		150	1959.066							64	7.1
6	1.486												64	7.4
7	1.584	181	2391.11136										62	7.5
8	1.512													
9	1.473													
10	1.425				179	2127.3255							64	7.4
11	2.105						27.98	491.208486	27	474.0039	5	87.7785	66	7.4
12	11.778	198	19449.24696		234	22985.47368							64	7.7
13	4.826												66	7.6
14	3.585	53	1589.0619										64	7.6
15	3.089													
16	2.78													
17	2.538				65	1375.8498							64	6.4
18	2.395						17.6	351.54768	16	319.5888	2.6	51.93318	64	6.9
19	2.239	99	1848.65274		78	1456.51428							65	7.5
20	2.177												66	7.6
21	2.071	199	3437.15586										64	7.4
22	2													
23	1.978													
24	1.841				112	1719.64128							66	6.5
25	1.796						24.3	363.980952	24	359.48736	3.8	56.918832	68	7.5
26	1.744	166	2414.46336		91	1323.59136							68	7.4
27	1.837												68	7.4
28	1.652	213	2934.64584										71	7.6
29	1.57													
30	1.589													
31	1.535				156	1997.0964							68	7.4
Total	72.804	1247	35866.67874		1192	36601.11582	89.53	1456.819524	86	1394.89002	14.4	234.811032	1376	154.3
Monthly Avg.	2.348516129	155.875	4483.334843		132.4444444	4066.790647	22.3825	364.204881	21.5	348.722505	3.6	58.702758	65.52380952	7.347619048
Daily Max.	11.778	213	19449.24696		234	22985.47368	27.98	491.208486	27	474.0039	5	87.7785	71	7.7
Daily Min.	1.425	53	1589.0619		65	1323.59136	17.6	250.082406	16	241.80996	2.6	38.18052	62	6.4
Max. 7/Avg.	3.816285714	189.5	10519.15443		206.5	12556.39959	27.98	491.208486	27	474.0039	5	87.7785	68.2	7.54

Permit # 0819001
 Facility Name: BOONE CITY OF STP

Monthly Operation Report
 IOWA DEPARTMENT OF NATURAL RESOURCES
 NPDS - Operation Permit System
 EFFLUENT Data

Outfall #: 001
 Month/Year: 7-2023

Mon. Point Parameter	EFFLUENT PRIOR TO DISINFECTION												EFFLUENT AFTER DISINFECTION							
	CBOD5		TSS		NH3-N		NO3-N		TOT-N		PHOS		TOX CER		TOX PIM		TEMP	DO	PH	E. COLI
Units	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	NO TOXICITY	NO TOXICITY	NO TOXICITY	NO TOXICITY	FAHRENHEIT	MG/L	STD UNITS	#/100 ML
Frequency	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	2 TIMES PER WEEK	1 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK	9/12/2023
Start Date																				7/31/2024
End Date	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	06 - NOT REQ / MP	06 - NOT REQ / MP	06 - NOT REQ / MP	06 - NOT REQ / MP	Permit Duration	Permit Duration	Permit Duration	06 - NOT REQ / MP
No Discharge																				
LOG																				
Day: 1																				
2																				
3				4	52.17504		0.1	1.272684		9.2	117.086928	2.5	31.8171			68	8.8	7.9		
4																68	8.7	7.8		
5	3	39.18132		2	26.12088		0.1	1.306044								66	8.4	7.9		
6							0.1	1.222644								66	8.7	7.9		
7	3	39.63168					0.1	1.321056								64	8.6	7.9		
8																				
9																				
10				3	35.6535		0.1	1.75557	174	12	210.6684	3.6	63.20052			68	8.6	7.9		
11							0.1	9.822852								68	8.6	7.9		
12	3	294.68556		3	294.68556		0.38	15.2945592								64	7.7	7.7		
13							0.1	2.96823								64	8.6	7.9		
14	3	89.9469					0.1	2.96823								66	8.5	8		
15																				
16				1	21.16692		0.1	1.99743		9.68	193.351224	1.5	29.96145			65	9.1	8		
17							0.1	1.967326								64	8.9	7.9		
18				4	74.69304		0.1	1.815618								66	8.9	8		
19	3	56.01978					0.1	1.722214								66	8.4	8		
20																				
21	3	51.81642					0.1	1.722214								66	8.4	8		
22																				
23				3	46.06182		0.1	1.497864		9.9	148.288536	0.5	7.48932			68	8.6	7.9		
24							0.1	1.454496								70	8.5	7.9		
25	3	43.63488		3	43.63488		0.1	1.532056								68	7.7	7.7		
26							0.1	1.377768								69	8.4	7.8		
27	3	41.33304					0.1	1.377768												
28																				
29																				
30																				
31				2	25.6038		0.1175	3.016463325	174	10.195	167.348772	2.025	33.1170975			68	8.6	7.8		
Total	24	656.24958		25	679.79541		1.88	48.2634132	174	40.78	669.395088	8.1	132.46839			1400	179.5	165.7		
Monthly Avg.	3	82.0311975		2.777777778	68.86616		0.1175	3.016463325	174	10.195	167.348772	2.025	33.1170975			66.6666667	8.547619048	7.89047619		
Daily Max.	3	294.68556		4	294.68556		0.38	15.2945592	174	12	210.6684	3.6	63.20052			70	9.1	8		
Daily Min.	3	39.18132		1	21.16692		0.1	1.222644	174	9.2	117.086928	0.5	7.48932			64	7.7	7.7		
Max. 7/Avg.	3	192.31623		3	165.16953		0.17	7.4678028	174	12	210.6684	3.6	63.20052			68.6	8.8	7.98		



1406 Central Avenue
Fort Dodge, Iowa 50501
515-269-2338

www.USWUtilityGroup.com

UPGRADE PROGRAM		August 2023				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
8/1/2023	715 Keller	New Service				
8/2/2023	1219 Southview Ct	New Service				
8/3/2023	320 12th	Frozen				
8/10/2023	1139 Aldrich	8/17/2015				
8/10/2023	708 Benton	Warranty				
8/11/2023	2117 Industrial park	New Service				
8/14/2023	812 w 2nd	2/18/2009				
8/15/2023	2020 Lakewood #1	11/19/13				
8/15/2023	2020 Lakewood #2	11/19/2013				
8/16/2023	409 College	Frozen				
8/17/2023	304 S Cedar	8/2/1999				
8/18/2023	1400 22nd	meter removal				
8/19/2023	301 w 7th	Warranty				
8/24/2023	116 Benton	Warranty				
8/25/2023	521 W 10th	Reinstall				
8/25/2023	1306 College	12/22/10				
Locates						
8/1 to 9/1		390	Fiber optic			

Curb Box Repair Update for 09/12/2023 – as of 09/08/2023

\$6218.65 was collected during shut offs. 34 accounts qualified to be on the list.

122 stop boxes are in need of repair, 53 of which have lead service lines.

6 delinquent bills in the amount of \$2537.55 certified on August 29th. If left unpaid, 9 delinquent bills totaling \$4273.50 are scheduled to certify on September 22nd.

Lesli Vote
Utility Billing Supervisor