

## UTILITY COMMITTEE Meeting Notice

**Governing Body:** Utility Committee of Boone, Iowa

**Date of Meeting:** August 19, 2024

**Time of Meeting:** 4:30 P.M.

**Place of Meeting:** City Hall Council Chambers

The City will have this meeting available via Zoom. To join the meeting via internet and/or phone please use the link and/or phone number below. If your computer does not have a mic and you wish to speak, you will have to call in.

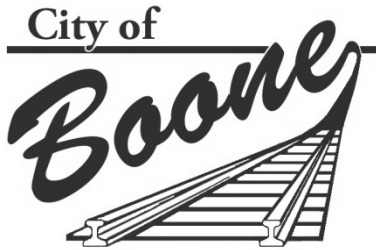
<https://us02web.zoom.us/j/82361852414?pwd=L5WwFrZ3cl6kybHbOs9Y2CyooGQWWt.1>

Meeting ID: 823 6185 2414

Passcode: 239031

Phone: 1-301-715-8592 or 1-253-215-8782

1. Call Meeting to Order.
2. Approve Minutes from the May 20, 2024 Meeting.
3. Request to Reduce Sewer Bill. – Gage Rotert.
4. Request to Appeal Denied Leak Protection Claim. – Eastern Star Masonic Home, Jim Ballantyne.
5. Discuss the City's Written Water Agreements.
6. Review/Approve US Water Contract Amendment.
7. Review the May, June, and July 2024 US Water Monthly Reports.
8. Meter Upgrade Report.
  - a. May
  - b. June
  - c. July
9. Stop Box Repair/Shut Off Report.
  - a. May
  - b. June
  - c. July
10. Other Business.
11. Adjourn.



## UTILITY COMMITTEE

### Meeting Notice

**Governing Body:** Utility Committee of Boone, Iowa

**Date of Meeting:** May 20, 2024

**Time of Meeting:** 4:15 P.M.

**Place of Meeting:** City Hall Council Chambers

1. Call Meeting to Order.

*Present: Angstrom, Moorman*

*Absent: Byrd*

*Others present: Andrews, Vote, Skare, Majors, Turbes, John Roberts*

2. Approve Minutes from the April 15, 2024 Meeting.

*Moorman moved; Angstrom seconded to approve the minutes from the April 15, 2024, Utility Meeting. Ayes: all those in attendance. Nays: none.*

3. Request to Remove I/I Fees from 304 Monona Street Water Account. – John Roberts.

*John Roberts presented a request to the Committee to remove \$300.00 of I/I fees from his water account as he had set up an appointment with Hull Plumbing to do repair work and was put on a waitlist for months. Roberts stated he contacted Hull Plumbing several times and the issue has since been fixed. Skare had previously agreed to relief of a one (1) month fee of \$50.00. The Committee discussed that Roberts was in violation until the issue was repaired and that he could have contacted another plumbing company and cannot hold the City responsible for a miscommunication between Roberts and Hull Plumbing. Moorman moved; Angstrom seconded to uphold the removal of the one-month fee of \$50.00 and set up a payment plan of \$50.00 in addition to his regular monthly bill, until paid off. Ayes: all those in attendance. Nays: none.*

4. Review/Consider Professional Services Agreement with WHKS for 2024 Sanitary Sewer I/I Inspection Program (Phase 6).

*Moorman moved; Angstrom seconded to recommend the WHKS 2024 Sanitary Sewer I/I Inspection Program Phase 6 Agreement for approval to full City Council at the June 3, 2024 Council meeting in an amount of \$108,548.00 for the area described as bordered by Benton Street on the west, 10<sup>th</sup> Street on the north, and 1<sup>st</sup> Street on the South. Ayes: all those in attendance. Nays: none.*

5. Review April 2024 US Water Monthly Report.

*The Committee reviewed the monthly US Water and Wastewater Operations and Maintenance Report for April 2024.*

6. Meter Upgrade Report.

a. April

*Andrews reported that in April, staff finished twenty (20) meter upgrades, two (2) meters were installed for new service, and eighteen (18) meters were changed out due to other reasons.*

7. Stop Box Repair/Shut Off Report.

a. April

*Vote stated that in April, \$3,160.06 was collected during shut-offs; thirty-five (35) accounts qualified to be on the shut off list. Ten (10) delinquent bills totaling \$5,763.85 were certified April 29, 2024, and if left unpaid, ten (10) bills totaling \$6,930.37 are scheduled to be certified on May 28, 2024. Vote also reported that there are one hundred thirty-seven (137) stop boxes in need of repair, sixty-one (61) of which have lead service lines and Andrews has ordered six (6) to be repaired.*

8. Other Business.

9. Adjourn.

*4:45 p.m.*

## Kim Majors

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**To:** Lesli Vote  
**Subject:** RE: FW: Utility Committee Agenda

**From:** Gage Rotert <[gagelrotert@gmail.com](mailto:gagelrotert@gmail.com)>  
**Sent:** Friday, August 2, 2024 9:16 AM  
**To:** Lesli Vote <[LVote@booneiowa.gov](mailto:LVote@booneiowa.gov)>  
**Subject:** Re: FW: Utility Committee Agenda

I was using the water to water my lawn after I had to reseed a large majority of the lawn. I felt that it's unfair to be charged for sewer total of 197 dollars. My average sewer bills were under 20 dollars a month. I can prove that much water didn't go into the sewer because if that was the case my entire house would be flooded. Due to the fact my sewer is broken and in need of repairs. I've been experiencing and fighting with basement flooding since the fiber optics was installed on the right of way.

On Thu, Aug 1, 2024 at 4:37 PM Lesli Vote <[LVote@booneiowa.gov](mailto:LVote@booneiowa.gov)> wrote:

Gage,

There is a City Council Meeting this coming Monday, August 5<sup>th</sup>, however you're requesting to meet with the Utility Committee, which does not meet until Monday, August 19<sup>th</sup>. After discussion with City Administrator Bill Skare, your request as shown below has been denied to be on either agenda. Please provide more specific details of your request, see questions below for examples of the information that we're looking for.

**What happened?**

**Why you are requesting relief?**

**What kind of relief you are requesting?**

(You previously stated you're requesting the sewer charges to be reduced, but by how much?)

**How can you prove that the water used didn't go into the City Sewer?**

After receipt of a more detailed request, we will review and advise if approved to be on the August 19<sup>th</sup> agenda.

Thank you,

**Lesli Vote**

Utility Billing Supervisor

City of Boone

P.O. Box 550

923 8th Street

Boone, IA 50036

Office - 515.432.4211 ext. 1110

Fax - 515.433.0630

On Mon, Jul 29, 2024 at 2:58 PM Gage Rotert <[gagelrotert@gmail.com](mailto:gagelrotert@gmail.com)> wrote:

Hello, I am Gage Rotert a 20 year old college student. I live at 149 West 9th Street here in Boone. I have done extensive work on the property. I planted grass and watered the grass. I am requesting that the sewer bill would be reduced. Due to most of the water not going through the sewer.

Your help on the matter would be greatly appreciated!

**Kim Majors**

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**Subject:**

RE: Leak Protection Claim

Good Morning

My name is Jennifer and I work for Eastern Star Masonic Home. We have a Leak Protection Claim that has recently been denied. We would like to request that our Maintenance Employee, Jim Ballantyne, be allowed to attend the Water Committee Meeting to explain what happened and see if the committee would reconsider the denial.

Thank you!

--

Jennifer Klauenberg  
Business Office Manager  
Eastern Star Masonic Home  
[ijklauenberg@iowaoeshome.com](mailto:ijklauenberg@iowaoeshome.com)  
515.432.5274

May 2024

# 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 8<sup>th</sup> Street  
Boone, IA 50036  
(515) 432-4211

May 2024

City of Boone  
William J. Skare, City Administrator  
923 8<sup>th</sup> Street  
Boone, IA 50036

**May Monthly Water & Wastewater Operations Report**

Dear Mr. Skare:

In accordance with contract requirements, we are pleased to provide the following monthly report for May 2024. 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,

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

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



## WATER

### Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		May-2023	May-2024
Water	Units		
Average Daily Pumped	gallons	1,883,000	1,731,000
Maximum Daily Pumped	gallons	2,551,000	1,986,000
Minimum Daily Pumped	gallons	1,462,000	1,401,000
Hardness			
Hardness - Avg Raw	grains	17.4	20.2
Hardness - Avg Finish	grains	9.9	11.1
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.39	.49
Avg Finish Fl.	mg/L	.68	.76

### Water Storage

During the month of May, Greene Street Tower was offline for renovation. Clinton and Industrial towers were in operation as well as the 2-million-gallon reservoir and 100,000-gallon contact basin for a total of 3,400,000-gallons of storage.

### Maintenance Report

During the month of May the following tasks were completed:

- Greene Street Tower renovation started
- The cleaning of Well #28 was finished
- Repaired decant drainpipes at Lime Pond #2
- Rotated Claricones

- Replacement security light installed at Industrial Tower
- Replaced exterior building and parking lot light bulbs
- Repaired Phosphate feed line
- Replaced bad circuit board on the chlorine feed controller
- Changed oil and serviced both Backwash Pumps
- New PLC controls were installed on lime slaker #2
- Mowed grass at Water Plant and Water Towers
- Removed fallen trees on well field and Pump Station from the storms
- Serviced chain saws
- Cut, pulled and removed tree around lime pond #2 and surrounding areas
- Burned cut trees
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all three CL2 analyzers weekly
- Rebuilt one chlorine cylinder feed regulator
- Cleaned chlorine injector at pump station
- Replaced rooftop dehumidifier filters

### Current & Planned Projects

During the month of June, the following maintenance tasks are planned:

- Continue with the installation of new PLC's at water Plant
- Continue with Greene Street Tower rehabilitation project
- Install new chemical pumps
- Replace dehumidifier filters
- Continue to cut down and remove trees around lime pond, plant and pump station
- Replace backflow valve on Claricone #2
- Misc. yard and building maintenance.

### Health & Safety

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

The subjects of the monthly safety training were:

- Lightning-The Underrated Killer
- Shift Work-Fact of Utility Life
- Biohazards and Worker Safety
- Doggonit-Dealing with Customer Canines
- Hazzard Communication's

**Regulatory Reports**

See attached documents

**WASTEWATER**

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	131.9	•	MGD
Average per day	4.3	•	MGD
Minimum	2.73	•	MGD
Maximum	7.7	•	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 <sub>5</sub>	75.7	2557	•	•	•	•	•	•
CBOD <sub>5</sub>	•	•	3	•	3	40	3	25
Suspended solids	79.6	2579	7	•	6.5	45	4.7	30
Nitrogen Ammonia	6.5	223	.1	15.2	.1	•	.1	1.8
Nitrate Nitrogen	•	•	385 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	9.7	>5.0	9.744	•	9.3	>5.0
pH	7.5	•	8.1	6.5 to 9 STD Units		•	7.9	6.5 to 9 STD Units

**ND= No Detection**

• = No limit set

## Solids Inventory

During the month of May, we pressed for 11 days (304,000 gallons) and hauled 133.60 tons of biosolids to the landfill.

## Lift Stations

All lift stations are inspected at least twice per week to ensure proper operations. Airport Road Lift Station pump #1 does not keep a prime. Electric Pump and Iowa Pump have both provided repairs, but pump continues to fail. This station is on the R&R list for replacement.

## Maintenance Report

- 5-6-24: Replaced South Holding Tank Blower with new blower we had on site. The original one was installed back in 2009 and had exceeded its useful life.
- 5-14-24: Wash pressed for the fine screen in the Screen and Grit building failed. Had some electrical issues with the PLC and had the bearings replaced in the motor on the drive. We are currently running but are waiting on a disconnect for the PLC. USW installed an existing motor we had on site while the motor is getting repaired.
- 5-17-24: Our PLC for our press was not able to go from Poly pump 1 to Poly Pump 2: Automatic Systems came on-sight and rebooted our system and is currently working.
- 5-22-24 Replaced incubator Motor

There were a total of Fifty-five (55) Preventive Maintenance Work orders Completed in May.

## Current & Planned Projects

4-19-24 RAS pumps are installed and working. There may be some programming issues with the pumps. The pumps cannot run full speed without pulling too many amps and making the pumps fail. SEH is looking into the problem.

- Sand Blasting on North Clarifier: Project will resume in summer 2024.
- 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:

- Hazard Communication, Lightning – The Underrated Killer
- Doggone It - Dealing With Customer's Canines
- Computer Security
- Shift Work: A Fact of Utility Life

# Monthly Water & Wastewater Operations Report

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: May				YEAR: 2024			
DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl <sub>2</sub> Used
	Raw in 1000s Gallons Per Day	To System in 1000s 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 15 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	1,846	1,517	16.25	24	0.80	"C"	(F)	0.76	0	1	0.85	0	0.85	4.7	29
2	1,954	1,629	17.25	24	0.81	"C"	(F)	0.69	0	1	0.85	0	0.85	4.1	35
3	1,942	1,665	17.25	24	0.74	"C"	(F)	0.73	0	1	0.83	0	0.83	4.3	33
4	1,705	1,460	15.00	20	0.66	"C"	(F)	0.74	0	1	0.83	0	0.83	5.2	29
5	2,104	1,831	18.25	26	0.67	"C"	(F)	0.77	0	1	0.83	0	0.83	4.4	35
6	1,979	1,703	17.00	25	0.75	"C"	(F)	0.86	0	6	0.81	0	1.47	5.2	33
7	2,142	1,866	18.25	28	0.76	"C"	(F)	0.76	0	1	0.84	0	0.84	4.3	35
8	2,052	1,828	18.00	26	0.74	"C"	(F)	0.81	0	1	1.12	0	1.12	4.8	40
9	1,916	1,582	15.50	26	0.82	"C"	(F)	0.77	0	1	1.76	0	1.76	5.0	32
10	1,869	1,607	15.75	26	0.73	"C"	(F)	0.84	0	1	1.73	0	1.73	5.4	35
11	2,057	1,773	19.25	23	0.80	"C"	(F)	0.83	0	1	1.80	0	1.80	5.0	34
12	2,135	1,848	20.50	27	0.67	"C"	(F)	0.90	0	1	1.83	0	1.83	5.1	36
13	1,824	1,564	16.75	26	0.79	"C"	(F)	1.02	0	5	0.96	0	1.92	6.7	31
14	2,116	1,822	19.25	27	0.77	"C"	(F)	0.97	0	1	1.73	0	1.73	5.7	33
15	2,210	1,915	20.00	27	0.72	"C"	(F)	0.87	0	1	1.65	0	1.65	4.8	38
16	2,087	1,806	19.00	27	0.88	"C"	(F)	0.79	0	1	1.69	0	1.69	4.8	33
17	2,179	1,832	20.00	28	0.82	"C"	(F)	0.82	0	1	1.50	0	1.50	4.7	33
18	2,429	1,986	22.50	32	0.87	"C"	(F)	0.82	0	1	1.47	0	1.47	4.2	38
19	2,102	1,685	18.50	29	0.76	"C"	(F)	0.89	0	1	1.62	0	1.62	5.4	34
20	2,184	1,820	20.25	28	0.77	"C"	(F)	0.87	0	1	1.76	0	1.76	5.0	32
21	1,999	1,660	18.50	28	0.73	"C"	(F)	0.80	0	5	0.78	0	1.17	5.1	31
22	1,964	1,661	18.00	27	0.86	"C"	(F)	0.78	0	1	1.68	0	1.68	5.0	31
23	2,361	1,839	21.25	31	0.75	"C"	(F)	0.78	0	1	1.63	0	1.63	4.1	37
24	1,986	1,673	17.75	25	0.74	"C"	(F)	0.78	0	1	1.67	0	1.67	4.8	28
25	2,076	1,719	18.50	29	0.67	"C"	(F)	0.76	0	1	1.54	0	1.54	4.8	37
26	1,724	1,401	15.50	25	0.72	"C"	(F)	0.78	0	1	1.60	0	1.60	5.8	29
27	2,148	1,781	19.25	29	0.71	"C"	(F)	0.81	0	1	1.58	0	1.58	5.0	36
28	2,230	1,739	19.25	30	0.79	"C"	(F)	0.87	0	1	1.12	0	1.12	5.4	36
29	2,306	1,874	21.00	30	0.75	"C"	(F)	0.89	0	1	1.50	0	1.50	5.1	37
30	2,256	1,804	19.25	32	0.74	"C"	(F)	0.94	0	1	1.59	0	1.59	5.7	37
31	2,167	1,758	20.00	30	0.77	"C"	(F)	0.92	0	1	1.12	0	1.12	6.0	34
Total	64,049	53,648	572.75	839						44		0			1,051
Avg	2,066	1,731	18.59	27	0.76										34
Max	2,429	1,986	22.50	32	0.88				0				1.92		40
Min	1,705	1,401	15.00	20	0.66			0.69			0.78			4.1	28

\*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:	6/5/2024		

# Monthly Water & Wastewater Operations Report

## 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: May

YEAR: 2024

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 >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU					
1	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.04	0	0.09
2	16	0	.02	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.04	0	.03	.02	.04	0	0.09
3	18	0	.02	.03	.02	.04	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.09
4	18	0	.03	.02	.02	.05	0	.04	.03	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.10
5	16	0	.02	.02	.02	.03	0	.02	.02	.04	0	.03	.03	.03	0	.02	.02	.03	0	0.12
6	20	0	.03	.02	.02	.03	0	.02	.02	.04	0	.02	.02	.02	0	.04	.03	.04	0	0.12
7	17	0	.02	.03	.03	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.11
8	18	0	.03	.03	.03	.05	0	.03	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.09
9	18	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	0.09
10	16	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.03	.03	.04	0	0.08
11	16	0	.02	.03	.04	.04	0	.02	.02	.04	0	.02	.03	.03	0	.02	.02	.05	0	0.09
12	20	0	.03	.04	.03	.04	0	.04	.03	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
13	21	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.03	0	0.10
14	17	0	.02	.02	.02	.03	0	.02	.02	.06	0	.03	.03	.03	0	.02	.02	.02	0	0.08
15	21	0	.02	.03	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.07
16	19	0	.03	.02	.02	.04	0	.03	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
17	21	0	.02	.02	.02	.02	0	.02	.02	.04	0	.03	.03	.03	0	.02	.02	.03	0	0.07
18	20	0	.02	.02	.02	.02	0	.02	.02	.04	0	.02	.02	.02	0	.03	.02	.03	0	0.09
19	23	0	.02	.03	.03	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.09
20	20	0	.10	.03	.03	.04	0	.03	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.07
21	22	0	.03	.02	.02	.02	0	.02	.02	.03	0	.03	.02	.03	0	.02	.02	.02	0	0.08
22	19	0	.02	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.03	.03	.03	0	0.09
23	18	0	.02	.03	.03	.03	0	.02	.02	.05	0	.02	.02	.02	0	.02	.02	.02	0	0.09
24	23	0	.02	.03	.03	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
25	18	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.10
26	18	0	.02	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.03	0	0.09
27	16	0	.02	.03	.03	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
28	20	0	.02	.03	.03	.03	0	.03	.03	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.09
29	20	0	.02	.02	.02	.02	0	.02	.02	.06	0	.03	.02	.03	0	.02	.02	.06	0	0.09
30	22	0	.02	.02	.02	.02	0	.02	.02	.05	0	.02	.02	.03	0	.03	.03	.03	0	0.09
31	21	0	.02	.03	.03	.03	0	.02	.02	.05	0	.02	.02	.03	0	.02	.02	.02	0	0.10
Total	592	0					0				0				0				0	
Avg																				0.09
Max			.10			.05				.06				.04				.06		0.10
Min																				0.07

\*\*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: 6/5/2024

# Monthly Water & Wastewater Operations Report

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT															
IOWA DNR WATER SUPPLY															
Basic Information															
	S/EP:	#1													
System Name:						PWSID #:		819033		Month:		May			
												Year: 2024			
Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)				Gallons Of Liquid Chlorine Used 5%				
		Number of hours the plant operated per day.	Raw in 1000s Gallons Per Day	To System in 1000s 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	16.25	1846.00	1517.00	24.00	0.80	0.09		0.79				11.90			
2	17.25	1954.00	1629.00	24.00	0.81	0.09		0.49				12.90			
3	17.25	1942.00	1665.00	24.00	0.74	0.09		0.95				13.50			
4	15.00	1705.00	1460.00	20.00	0.66	0.10		0.68				11.90			
5	18.25	2104.00	1831.00	26.00	0.67	0.12		1.84				14.20			
6	17.00	1979.00	1703.00	25.00	0.75	0.12		0.69				14.00			
7	18.25	2142.00	1866.00	28.00	0.76	0.11		1.13				14.90			
8	18.00	2052.00	1828.00	26.00	0.74	0.09		0.95				14.20			
9	15.50	1916.00	1582.00	26.00	0.82	0.09		3.32				13.00			
10	15.75	1869.00	1607.00	26.00	0.73	0.08		0.85				13.00			
11	19.25	2057.00	1773.00	23.00	0.80	0.09		0.71				13.80			
12	20.50	2135.00	1848.00	27.00	0.67	0.08		0.31				15.10			
13	16.75	1824.00	1564.00	26.00	0.79	0.10		0.98				11.60			
14	19.25	2116.00	1822.00	27.00	0.77	0.08		1.51				14.50			
15	20.00	2210.00	1915.00	27.00	0.72	0.07		0.62				14.00			
16	19.00	2087.00	1806.00	27.00	0.88	0.08		0.83				13.90			
17	20.00	2179.00	1832.00	28.00	0.82	0.07		0.75				13.80			
18	22.50	2429.00	1986.00	32.00	0.87	0.09		0.71				15.10			
19	18.50	2102.00	1685.00	29.00	0.76	0.09		0.88				13.00			
20	20.25	2184.00	1820.00	28.00	0.77	0.07		0.69				14.00			
21	18.50	1999.00	1660.00	28.00	0.73	0.08		0.95				13.80			
22	18.00	1964.00	1661.00	27.00	0.86	0.09		0.56				13.60			
23	21.25	2361.00	1839.00	31.00	0.75	0.09		1.08				14.90			
24	17.75	1986.00	1673.00	25.00	0.74	0.09		0.95				13.50			
25	18.50	2076.00	1719.00	29.00	0.67	0.10		0.49				13.80			
26	15.50	1724.00	1401.00	25.00	0.72	0.09		1.42				11.80			
27	19.25	2148.00	1781.00	29.00	0.71	0.09		0.79				14.50			
28	19.25	2230.00	1739.00	30.00	0.79	0.09		1.45				14.20			
29	21.00	2306.00	1874.00	30.00	0.75	0.09		1.02				15.00			
30	19.25	2256.00	1804.00	32.00	0.74	0.09		0.91				14.00			
31	20.00	2167.00	1758.00	30.00	0.77	0.10		0.70				14.20			
Total	573	64,049	53,648	839								425.6	0	0	0
Avg	18.48	2,066	1,731	27.06	0.76	0.09	#DIV/0!	0.97	#DIV/0!	#DIV/0!	#DIV/0!	13.73	#DIV/0!	#DIV/0!	#DIV/0!
Max	22.50	2,429	1,986	32.00	0.88	0.12	0.00	3.3	0.0	0.00	0.00	15.10	0.00	0.00	0.00
Min	15.00	1,705	1,401	20.00	0.66	0.07	0.00	0.31	0.00	0.00	0.00	11.60	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: 6/5/2024

October 2018 FORM 542-8027



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:**

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

**Operator Name:**

**Certification #:**

**Phone #:**

**Lab Cert. #:**

**Comments:**

\*Include Comments longer than 1000 characters in email

**Signature:**

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.

# Monthly Water & Wastewater Operations Report

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: 5-2024

Mon. Point	RAW WASTE														
	Parameter	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP	PH	
Units	MGD	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	STD UNITS
Frequency	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		
Start 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	Permit Duration	Permit Duration
End Date															
No Discharge															
LOQ															
Day: 1	3.886	99	3208.51476	99	3208.51476									56	7.5
2	5.715	72	3431.7432											56	7.6
3	4.552													60	7.6
4	5.154														
5	4.439														
6	5.714			46	2192.11896									58	7.6
7	7.679					12.6	806.940036	8	512.34288	1.9	121.681434			58	7.5
8	6.514	27	1466.82252	36	1955.76336									58	7.6
9	6.26	46	2401.5864											56	7.5
10	5.296													58	7.5
11	4.658														
12	4.246														
13	4.059			53	1794.15918									58	7.5
14	3.845					14.7	471.38931	10	320.673	1.6	51.30768			58	7.5
15	3.669													58	7.5
16	3.443	67	1923.87954	71	2038.73802									58	7.5
17	3.153	138	3628.85076											60	7.5
18	2.867														
19	3.029														
20	3.306			148	4080.66192									60	7.5
21	6.033					15.8	794.980476	14	704.41308	2.7	135.851094			60	7.5
22	4.28	73	2605.7496	123	4390.5096									58	7.5
23	3.946	54	1777.12056											58	7.4
24	4.057													60	7.3
25	3.707														
26	3.546														
27	3.313			41	1132.84722									59	7.4
28	3.132					16.8	438.830784	14	365.69232	1.8	47.017584			58	7.4
29	2.934	105	2569.3038	99	2422.48644									58	7.5
30	2.742													60	7.4
31	2.73													60	7.6
<b>Total</b>	131.904	681	23013.57114	716	23215.79946	59.9	2512.140606	46	1903.12128	8	355.857792	1343			172.4
<b>Monthly Avg.</b>	4.254967742	75.66666667	2557.06346	79.55555556	2579.533273	14.975	628.0351515	11.5	475.78032	2	88.964448	58.39130435			7.495652174
<b>Daily Max.</b>	7.679	138	3628.85076	148	4390.5096	16.8	806.940036	14	704.41308	2.7	135.851094	60			7.6
<b>Daily Min.</b>	2.73	27	1466.82252	36	1132.84722	12.6	438.830784	8	320.673	1.6	47.017584	56			7.3
<b>Max. 7/Avg.</b>	5.305571429	102.5	3320.12898	109.5	3059.69997	16.8	806.940036	14	704.41308	2.7	135.851094	59.2			7.56

# Monthly Water & Wastewater Operations Report

Permit #: 0819001	<b>Monthly Operation Report</b> IOWA DEPARTMENT OF NATURAL RESOURCES NPDS - Operation Permit System EFFLUENT Data
Facility Name: BOONE CITY OF STP	
Outfall #: 001	
Month/Year: 5-2024	

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	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	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 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS
Start 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	Permit Duration	Permit Duration	Permit Duration	Permit Duration
End Date												06 - NOT REQ / MP	07 - NOT REPORTED				
No Discharge																	
LOQ																	
Day: 1	3	97.22772	6	194.45644	0.1	3.240924								56	9.5	7.9	
2	3	142.9893			0.1	4.76631								56	9.3	7.8	
3					0.1	3.796368								58	9.7	8	
4																	
5																	
6			7	333.58332										58	9.4	8	
7					0.1	6.404286		11.6	742.897176	0.82	58.9194312			56	9.3	7.9	
8	3	162.98028	6	325.96056	0.1	5.432676								56	8.9	7.9	
9	3	156.6252			0.1	5.22084								56	9.7	8	
10					0.1	4.416864								56	9	8	
11																	
12																	
13			6	203.11236										58	9.5	8	
14					0.1	3.20673	385	13.1	420.08163	1.5	48.10095			57	9.4	8	
15														58	9.2	8.1	
16	3	86.14386	3	86.14386	0.1	2.871462								58	9.4	7.9	
17	3	78.88806			0.1	2.629602								60	9.3	8	
18																	
19																	
20					4	110.28816	0.1	2.757204						60	9.1	7.9	
21					0.1	5.031522		15	754.7283	2	100.63044			60	9	7.8	
22	3	107.0856	5	178.476	0.1	3.56952								58	9.2	8	
23	3	98.72892			0.1	3.290964								60	9.3	7.9	
24														60	9.3	7.9	
25																	
26																	
27			2	55.26084										61	9.3	7.9	
28					0.1	2.612088		13.5	352.63188	1.6	41.793408			60	9.3	7.9	
29	3	73.40868	3	73.40868	0.1	2.446956								60	9.2	8	
30					0.1	2.286828								60	9.4	7.9	
31					0.1	2.27682								60	9.2	8	
<b>Total</b>	27	1004.07762	42	1560.68922	1.8	66.257964	385	53.2	2270.338986	6.02	249.4442292			1344	213.9	182.7	
<b>Monthly Avg.</b>	3	111.56418	4.666666667	173.4099133	0.1	3.680998	385	13.3	567.5847465	1.505	62.3610573			58.43478261	9.3	7.943478261	
<b>Daily Max.</b>	3	162.98028	7	333.58332	0.1	6.404286	385	15	754.7283	2	100.63044			62	9.7	8.1	
<b>Daily Min.</b>	3	73.40868	2	55.26084	0.1	2.27682	385	11.6	352.63188	0.82	41.793408			56	8.9	7.8	
<b>Max. 7/Avg.</b>	3	159.80274	6.5	264.53646	0.1	4.5692775	385	15	754.7283	2	100.63044			60.2	9.44	7.98	



**UTILITY GROUP**

1406 Central Avenue

Fort Dodge, Iowa 50501

515-269-2338

[www.USWUtilityGroup.com](http://www.USWUtilityGroup.com)

JUNE 2024

# 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 8<sup>th</sup> Street  
Boone, IA 50036  
(515) 432-4211

June 2024

City of Boone  
William J. Skare, City Administrator  
923 8<sup>th</sup> Street  
Boone, IA 50036

**June Monthly Water & Wastewater Operations Report**

Dear Mr. Skare:

In accordance with contract requirements, we are pleased to provide the following monthly report for June 2024. 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

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

## WATER

### Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		June-2023	June-2024
Water	Units		
Average Daily Pumped	gallons	1,990,000	1,904,000
Maximum Daily Pumped	gallons	2,421,000	2,171,000
Minimum Daily Pumped	gallons	1,606,000	1,688,000
Hardness			
Hardness - Avg Raw	grains	18.3	20.3
Hardness - Avg Finish	grains	9.8	10.2
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.50	.43
Avg Finish Fl.	mg/L	.71	.80

### Water Storage

During the month of June, Greene Street Tower was offline for renovation. Clinton and Industrial towers were in operation as well as the 2-million-gallon reservoir and 100,000-gallon contact basin for a total of 3,400,000-gallons of storage.

### Maintenance Report

During the month of June, the following tasks were completed:

- Greene Street Tower renovation continued
- Did extensive repair and replacement of plumbing at Greene Street Tower
- Installed new Backflow Preventer Check Valve on ClariCone #2
- Work done on SCADA upgrade

- New control panels installed at Greene Street and Industrial Towers
- Serviced Lime Silo
- Serviced electric gates
- Repaired door closers
- Sprayed weeds at pump station and main plant
- Mowed grass at Water Plant and Water Towers and pump station
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all three CL2 analyzers weekly
- Cleaned chlorine injector at pump station
- Replaced rooftop dehumidifier filters

### Current & Planned Projects

During the month of July, the following maintenance tasks are planned:

- Continue with the installation of new PLC's at water Plant and Towers
- Continue with Greene St. Tower rehabilitation project
- Install new chemical pumps.
- Replace dehumidifier filters
- Continue to cut down and remove trees around lime pond, plant and pump station
- Misc. yard and building maintenance

### Health & Safety

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

The subjects of the monthly safety training were:

- Water Safety Isn't All Wet
- Construction Site Safety
- Quick Equipment Checks
- Worker Beware
- Road rage

### Regulatory Reports

See attached documents



## WASTEWATER

### Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	75.21	•	MGD
Average per day	3.12	•	MGD
Minimum	1.83	•	MGD
Maximum	4.30	•	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 <sub>5</sub>	111.25	2408	•	•	•	•	•	•
CBOD <sub>5</sub>	•	•	3	•	3	40	3	25
Suspended solids	127	2819	5.0	•	5.0	45	3.75	30
Nitrogen Ammonia	12.5	278	.1	14.40	.1	•	.1 MG/L	1.3 MG/L
Nitrate Nitrogen	•	•	279 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	9.10	>5.0	8.96	•	9.10	>5.0
pH	7.49	•	8.0	6.5 to 9 STD Units		•	7.96	6.5 to 9 STD Units

ND= No Detection

• = No limit set

## Solids Inventory

During the month of June, we pressed for 8 days (233,000 gallons) and hauled 109.6 wet tons.

- 2024 Fiscal year we pressed a total of 215.79 dry tons (1263.57 wet tons)
- An average of 15.84% total solids Sludge cake
- Took 158 loads to the landfill
- Landfill cost for the fiscal year \$48,015.66

## Lift Stations

All lift stations are inspected at least twice per week to ensure proper operations. Airport Road Lift Station pump #1 does not keep a prime. Electric Pump and Iowa Pump have both provided repairs, but pump continues to fail. This station is on the R&R list for replacement.

## Maintenance Report

- 5-17-24: City of Boone Public Works Department fixed a valve in the RAS line. They used their Vac Truck to remove the rocks and dirt and then put a new pin in the valve head.
- 6-12-24 Power outage and Linn Street Lift Station. Alliant Energy had to replace a transformer.

There were a total of Fifty-five (55) Preventive Maintenance Work orders Completed in June.

## Current & Planned Projects

- 6-25-24: Iowa Pump and SEH showed up on sight to put a data logger on the RAS pumps to trouble shoot the issues we are having with the pumps
- Sand Blasting on North Clarifier: Project will resume in summer 2024
- Roof Replacements-(currently out for bidding)
- 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:

- Road Rage
- Worker Beware – Contact With Energized Electrical Equipment Can Be Deadly
- Quick Equipment Checks – A Basic Safety Tool

# Monthly Water & Wastewater Operations Report

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: June		YEAR: 2024									
DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl <sub>2</sub> Used				
	Raw in 1000s Gallons Per Day	To System in 1000s 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 15 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	2,161	1,712	19.75	30	0.83	"C"	(F)	0.90	0	1	1.62	0	1.62	6.1	38				
2	2,198	1,826	19.75	30	0.70	"C"	(F)	0.90	0	1	1.53	0	1.53	5.8	37				
3	2,340	2,000	21.50	32	0.74	"C"	(F)	0.95	0	5	0.75	0	1.50	5.8	38				
4	2,239	1,859	20.75	32	0.79	"C"	(F)	0.90	0	1	1.75	0	1.75	6.0	36				
5	2,161	1,715	20.00	30	0.78	"C"	(F)	0.92	0	1	1.62	0	1.62	6.3	36				
6	2,257	1,886	21.00	34	0.80	"C"	(F)	0.92	0	1	1.85	0	1.85	5.9	40				
7	2,310	1,811	21.25	32	0.87	"C"	(F)	0.89	0	1	1.45	0	1.45	5.6	40				
8	2,230	1,804	21.50	32	0.76	"C"	(F)	0.93	0	1	1.53	0	1.53	6.0	36				
9	2,299	1,852	21.25	35	0.79	"C"	(F)	0.89	0	1	1.64	0	1.64	5.6	38				
10	2,596	2,048	24.00	36	0.91	"C"	(F)	0.97	0	5	1.08	0	1.18	5.4	40				
11	2,587	2,143	24.00	38	0.82	"C"	(F)	0.90	0	1	1.58	0	1.58	5.1	41				
12	2,580	1,995	24.00	35	0.84	"C"	(F)	0.86	0	1	1.85	0	1.85	4.8	39				
13	2,316	1,949	21.75	30	0.87	"C"	(F)	0.77	0	1	1.26	0	1.26	4.9	35				
14	2,525	2,036	23.75	37	0.80	"C"	(F)	0.82	0	1	1.32	0	1.32	4.7	43				
15	2,266	1,813	19.75	30	0.69	"C"	(F)	0.86	0	1	1.17	0	1.17	5.7	33				
16	2,290	1,865	20.75	32	0.83	"C"	(F)	0.71	0	1	1.46	0	1.46	5.2	35				
17	2,129	1,696	18.75	30	0.80	"C"	(F)	0.79	0	1	1.61	0	1.61	6.3	34				
18	1,978	1,668	17.25	27	0.75	"C"	(F)	0.78	0	5	0.77	0	1.31	6.8	31				
19	2,392	1,951	21.00	34	0.76	"C"	(F)	0.78	0	1	1.12	0	1.12	5.4	37				
20	2,265	1,871	20.00	32	0.74	"C"	(F)	0.82	0	1	1.57	0	1.57	5.5	33				
21	2,421	2,004	21.25	36	0.82	"C"	(F)	0.78	0	1	1.12	0	1.12	5.1	38				
22	2,120	1,753	18.50	37	0.86	"C"	(F)	0.79	0	1	1.60	0	1.60	5.9	32				
23	2,616	2,171	22.50	35	0.80	"C"	(F)	0.74	0	1	1.48	0	1.48	4.6	40				
24	2,590	2,168	21.00	36	0.78	"C"	(F)	0.76	0	1	1.59	0	1.59	4.8	38				
25	2,589	2,149	20.50	36	0.82	"C"	(F)	0.71	0	1	1.51	0	1.51	4.7	43				
26	2,489	2,063	22.15	32	0.75	"C"	(F)	0.71	0	1	1.42	0	1.42	5.0	37				
27	2,532	2,077	21.00	38	0.85	"C"	(F)	0.79	0	1	1.48	0	1.48	5.2	36				
28	2,132	1,746	17.45	34	0.84	"C"	(F)	0.82	0	1	1.53	0	1.53	6.6	36				
29	2,063	1,691	17.00	30	0.82	"C"	(F)	0.84	0	1	1.57	0	1.57	7.0	35				
30	2,270	1,800	18.25	32	0.80	"C"	(F)	0.88	0	1	1.67	0	1.67	6.6	36				
Total	69,941	57,122	621.35	994						42		0			1,111				
Avg	2,331	1,904	20.78	33	0.80										37				
Max	2,616	2,171	24.00	38	0.91				0				1.85		43				
Min	1,978	1,668	17.00	27	0.69			0.71			0.75			4.6	31				
*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: 7/2/2024	

# Monthly Water & Wastewater Operations Report

## 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: JUNE

YEAR: 2024

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 >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU					
1	20	0	.03	.03	.03	.04	0	.03	.03	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
2	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	0.09
3	20	0	.02	.02	.02	.02	0	.02	.02	.05	0	.02	.02	.04	0	.03	.02	.04	0	0.09
4	22	0	.02	.03	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
5	21	0	.02	.02	.02	.02	0	.03	.03	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.10
6	20	0	.05	.02	.02	.02	0	.03	.02	.03	0	.03	.03	.05	0	.02	.02	.03	0	0.08
7	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.03	0	.03	.03	.03	0	0.08
8	22	0	.02	.03	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.10
9	21	0	.03	.03	.02	.04	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
10	21	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	0.07
11	24	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.03	.02	.03	0	0.08
12	24	0	.03	.03	.03	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	0.07
13	24	0	.03	.03	.03	.04	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.07
14	22	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.03	.03	0	.02	.02	.02	0	0.07
15	24	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.04	.03	.04	0	0.09
16	20	0	.03	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.08
17	21	0	.03	.02	.02	.04	0	.03	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.06
18	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.03	.03	0	.02	.02	.02	0	0.08
19	18	0	.03	.02	.02	.02	0	.02	.02	.04	0	.02	.02	.04	0	.03	.03	.04	0	0.10
20	21	0	.02	.02	.03	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
21	20	0	.03	.02	.02	.04	0	.04	.03	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.08
22	22	0	.02	.02	.02	.02	0	.03	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	0.08
23	19	0	.02	.02	.02	.02	0	.02	.02	.10	0	.02	.02	.08	0	.03	.03	.12	0	0.08
24	22	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
25	21	0	.03	.02	.02	.04	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.07
26	23	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	0.07
27	21	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.09	0	.03	.03	.09	0	0.09
28	21	0	.02	.02	.02	.04	0	.02	.02	.13	0	.02	.02	.06	0	.02	.02	.08	0	0.11
29	18	0	.03	.02	.02	.05	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.04	0	0.09
30	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.02	.03	0	.02	.02	.03	0	0.08
31																				
Total	628	0					0				0				0				0	
Avg																				0.08
Max			.05			.05				.13				.09				.12		0.11
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: 7/2/2024

# Monthly Water & Wastewater Operations Report

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT															
IOWA DNR WATER SUPPLY															
Basic Information															
	S/EP:	#1													
System Name:						PWSID #:	819033	Month:	JUNE	Year:	2024				
Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)				Gallons Of Liquid Chlorine Used 6%				
	Number of hours the plant operated per day.	Raw in 1000s Gallons Per Day	To System in 1000s Gallons Per Day	Quantity Used in lbs. or gal. (circle one)	Finished Water (mg/L)	Highest Daily Reading (NTU)	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	19.75	2161.00	1712.00	30.00	0.83	0.08	0.40					13.20			
2	19.75	2198.00	1826.00	30.00	0.70	0.09	0.37					14.80			
3	21.50	2340.00	2000.00	32.00	0.74	0.09	0.57					16.00			
4	20.75	2239.00	1859.00	32.00	0.79	0.09	1.29					14.60			
5	20.00	2161.00	1715.00	30.00	0.78	0.10	2.24					15.00			
6	21.00	2257.00	1886.00	34.00	0.80	0.08	2.71					15.80			
7	21.25	2310.00	1811.00	32.00	0.87	0.08	1.82					14.00			
8	21.50	2230.00	1804.00	32.00	0.76	0.10	1.68					15.00			
9	21.25	2299.00	1852.00	35.00	0.79	0.08	3.37					15.10			
10	24.00	2596.00	2048.00	36.00	0.91	0.07	0.91					16.60			
11	24.00	2587.00	2143.00	38.00	0.82	0.08	1.39					15.60			
12	24.00	2580.00	1995.00	35.00	0.84	0.07	0.53					16.20			
13	21.75	2316.00	1949.00	30.00	0.87	0.07	1.21					15.20			
14	23.75	2525.00	2036.00	37.00	0.80	0.07	1.18					16.00			
15	19.75	2266.00	1813.00	30.00	0.69	0.09	0.24					14.60			
16	20.75	2290.00	1865.00	32.00	0.83	0.08	1.43					15.10			
17	18.75	2129.00	1696.00	30.00	0.80	0.06	1.19					12.60			
18	17.25	1978.00	1668.00	27.00	0.75	0.08	1.93					13.00			
19	21.00	2392.00	1951.00	34.00	0.76	0.10	2.44					15.90			
20	20.00	2265.00	1871.00	32.00	0.74	0.09	0.97					15.00			
21	21.25	2421.00	2004.00	36.00	0.82	0.08	1.02					15.60			
22	18.50	2120.00	1753.00	37.00	0.86	0.08	1.00					14.00			
23	22.50	2616.00	2171.00	35.00	0.80	0.08	0.91					17.10			
24	21.00	2590.00	2168.00	36.00	0.78	0.07	2.48					15.50			
25	20.50	2589.00	2149.00	36.00	0.82	0.07	1.42					19.00			
26	22.15	2489.00	2063.00	32.00	0.75	0.07	1.19					17.00			
27	21.00	2532.00	2077.00	38.00	0.85	0.09	1.85					17.60			
28	17.45	2132.00	1746.00	34.00	0.84	0.11	2.35					14.00			
29	17.00	2063.00	1691.00	30.00	0.82	0.09	5.57					14.00			
30	18.25	2270.00	1800.00	32.00	0.80	0.08	2.12					15.10			
Total	621	69,941	57,122	994								458.2	0	0	0
Avg	20.04	2,256	1,843	32.06	0.77	0.08	1.59	#DIV/0!	#DIV/0!	#DIV/0!		15.27	#DIV/0!	#DIV/0!	#DIV/0!
Max	24.00	2,616	2,171	38.00	0.91	0.11	5.57	0.0	0.0	0.00		19.00	0.00	0.00	0.00
Min	0.00	0	0	0.00	0.00	0.00	0.24	0.00	0.00	0.00		12.60	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: 7/2/2024

October 2018 FORM 542-8027

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:**

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

**Operator Name:**

**Certification #:**

**Phone #:**

**Lab Cert. #:**

**Comments:**

\*Include Comments longer than 1000 characters in email

**Signature:**

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.

# Monthly Water & Wastewater Operations Report

Permit # 0819001  
 Facility Name: BOONE CITY OF STP

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

Outfall #: 001  
 Month/Year: 6-2024

Mon. Point	RAW WATER													
	FLOW	BOD5		TSS		TOT-N		TKN		PHOS		TEMP	PH	
Parameter	MGD	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	MG/L	LB/DAY	FAHRENHEIT	BTU/UNIT \$	
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	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	
End Date														
No Discharge														
LOG														
Day: 1	3.886	99	3208.51476	99	3208.51476							56	7.5	
2	5.715	72	3431.7432									56	7.6	
3	4.552											60	7.6	
4	5.154													
5	4.439													
6	5.714			46	2192.11896							58	7.6	
7	7.679					12.6	806.94036	8	512.34288	1.9	121.681434	58	7.5	
8	6.514	27	1466.82252	36	1955.76336							58	7.6	
9	6.26	46	2401.5864									56	7.5	
10	5.296											58	7.5	
11	4.658													
12	4.246													
13	4.059			53	1794.15918							58	7.5	
14	3.845					14.7	471.38931	10	320.673	1.6	51.30768	58	7.5	
15	3.669											58	7.5	
16	3.443			71	2038.73802							58	7.5	
17	3.153	138	3628.85076									60	7.5	
18	2.867													
19	3.029													
20	3.306			148	4080.66192							60	7.5	
21	6.033					15.8	794.980476	14	704.41308	2.7	135.851094	60	7.5	
22	4.28	73	2605.7496	123	4390.5096							58	7.5	
23	3.946	54	1777.12056									58	7.4	
24	4.057											60	7.3	
25	3.707													
26	3.546													
27	3.313			41	1132.84722							59	7.4	
28	3.132					16.8	438.830784	14	365.69232	1.8	47.017584	58	7.4	
29	2.934	105	2569.3038	99	2422.48644							58	7.5	
30	2.742											60	7.4	
31	2.73											60	7.6	
<b>Total</b>	131.904	681	23013.57114	716	23215.79946	59.9	2512.140606	46	1903.12128	8	355.857792	1343	172.4	
<b>Monthly Avg.</b>	4.254967742	75.66666667	2557.06346	79.55555556	2579.533273	14.975	628.0351515	11.5	475.78032	2	88.964448	58.39130435	7.495652174	
<b>Daily Max.</b>	7.679	138	3628.85076	148	4390.5096	16.8	806.94036	14	704.41308	2.7	135.851094	60	7.6	
<b>Daily Min.</b>	2.73	27	1466.82252	36	1132.84722	12.6	438.830784	8	320.673	1.6	47.017584	56	7.3	
<b>Max. 7/Avg.</b>	5.305571429	102.5	3320.12898	109.5	3059.69997	16.8	806.94036	14	704.41308	2.7	135.851094	59.2	7.56	

# Monthly Water & Wastewater Operations Report

Param. # 0019001 Facility Name: BOONE CITY OF STP		Monthly Operation Report IOWA DEPARTMENT OF NATURAL RESOURCES NPD5 - Operation Permit System EFFLUENT Data																			
Outfall #: 001 Month/Year: 6-2024		EFFLUENT PRIOR TO DISINFECTION										EFFLUENT AFTER DISINFECTION									
Mon. Point	Parameter	CBOD5		TSS		NH3-N		NO3-N		TOT-N		PHOS		TOX CER		TOX PM		TEMP	DO	PH	S. COJ
Units	MGL	LB/DAY	MGL	LB/DAY	MGL	LB/DAY	MGL	LB/DAY	MGL	LB/DAY	MGL	LB/DAY	NO TOXICITY	NO TOXICITY	FAHRENHEIT	MGL	STD UNITS	#/100 ML	#/100 ML		
Frequency	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	1 EVERY MONTH	1 TBES PER WEEK	1 TBES PER WEEK	1 TBES PER WEEK	1 TBES PER WEEK	1 TBES PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK	2 TBES PER WEEK		
Start 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	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	
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	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	
No. of Change	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	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	Permit Duration	
LOG													06 - NOT REPORTED	07 - NOT REPORTED						06 - NOT REPORTED	
Day: 1	3	87.22772	0	196.65544	0.1	3.340924									56	9.5	7.9				
2	3	142.98901			0.1	4.86071									56	9.3	7.8				
3					0.1	3.790368									58	9.7	8				
4																					
5																					
6					7	330.66332									58	9.4	8				
7							0.1	6.400286		11.0	742.88176	0.92	86.918352		56	9.3	7.9				
8	3	162.98628	0	335.96656	0.1	5.429076									56	8.9	7.9				
9	3	156.6252			0.1	5.2084									56	9.7	8				
10					0.1	4.416664									56	9	8				
11																					
12																					
13			6	200.11236											58	9.5	8				
14					0.1	3.28073	385	13.1	420.0762	1.3	48.10092				57	9.4	8				
15															58	9.2	8.1				
16	3	86.14286	3	86.14286	0.1	2.87462									58	9.4	7.9				
17	3	78.89936			0.1	2.63662									60	9.3	8				
18																					
19																					
20			4	110.28878	0.1	2.79204									60	9.1	7.9				
21					0.1	3.03052			10	754.7283	2	80.63664			60	9	7.8				
22	3	107.0856	5	176.478	0.1	3.09622									58	9.2	8				
23	3	98.73962			0.1	3.29664									60	9.3	7.9				
24															62	9.3	7.9				
25																					
26																					
27			2	85.2668											62	9.3	7.9				
28					0.1	2.60088			13.2	302.6388	1.6	41.78408			62	9.3	7.9				
29	3	134.0864	3	134.0868	0.1	2.18656									60	9.3	8				
30					0.1	2.09658									60	9.4	7.9				
31					0.1	2.27662									60	9.3	8				
Total	31	1007.0762	42	1560.7882	1.8	66.25964	385	13.2	2270.3286	6.02	204.44228			60.2	213.9	162.1					
Monthly Avg.	3	111.36418	4.222222222	173.059133	0.1	3.00998	385	13.2	247.267465	1.925	62.3670512			58.4347834	9.3	7.9478261					
Daily Max.	3	162.98628	7	330.26332	0.1	6.400286	385	13	754.7283	2	80.63664			62	9.7	8.1					
Daily Min.	3	75.20668	2	85.2668	0.1	2.27662	385	11.4	252.65188	0.92	41.78408			56	8.9	7.8					
Max. 7/Avg.	3	162.98628	6.5	264.33616	0.1	4.569713	385	13	754.7283	2	80.63664			60.2	9.4	7.98					





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

[www.USWUtilityGroup.com](http://www.USWUtilityGroup.com)

JULY 2024

# City of Boone, Iowa

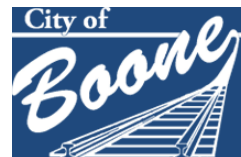
Water & Wastewater Treatment Facilities, Storage, and Lift Stations  
Monthly Operations & Maintenance Report

Prepared by:



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

Prepared For:



923 8<sup>th</sup> Street  
Boone, IA 50036  
(515) 432-4211

July 2024

City of Boone  
William J. Skare, City Administrator  
923 8<sup>th</sup> 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 2024. 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,

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

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

## WATER

### Water Treatment Facility

Finished Water Monthly Flows and Hardness			
		July-2023	July-2024
Water	Units		
Average Daily Pumped	gallons	1,943,000	1,812,000
Maximum Daily Pumped	gallons	2,223,000	2,186,000
Minimum Daily Pumped	gallons	1,540,000	1,494,000
Hardness			
Hardness - Avg Raw	grains	18.4	20.1
Hardness - Avg Finish	grains	9.3	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	.56	.45
Avg Finish Fl.	mg/L	.74	.77

### Water Storage

During the month of July, Greene Street Tower renovation was completed and Tower was brought back on line. Clinton and Industrial 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, the following tasks were completed:

- Greene Street Tower renovation was completed
- Repaired Altitude Valve at Greene Street Tower
- Replaced leaking Corporation Valves at Greene Street Tower
- Serviced electric gates at Pump Station and Main Plant

- New LED light fixtures were installed on main plant building
- Serviced all three High Service Pump Motors
- Serviced 2019 Ford truck
- Sprayed weeds at pump station and main plant
- Mowed grass at water plant, water towers and pump station
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all three CL2 analyzers weekly
- Cleaned chlorine injector at pump station
- Replaced rooftop dehumidifier filters

### Current & Planned Projects

During the month of August, the following maintenance tasks are planned:

- Continue with the installation of new PLC's at water plant
- Install new chemical pumps
- Replace dehumidifier filters
- Clean Claricone #1
- Misc. yard and building maintenance.

### Health & Safety

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

The subjects of the monthly safety training were:

- Know What's Below-Call 811 Before You Dig
- Handy Tips for Hand Safety
- Eye Safety
- Hand Grinder Safety
- Office Safety
- Office Ergonomics.

### Regulatory Reports

See attached documents

## WASTEWATER

### Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	Plant Effluent	Units
Total	55.8	•	MGD
Average per day	1.8	•	MGD
Minimum	1.325	•	MGD
Maximum	2.955	•	MGD

Parameter	Wastewater Influent & Effluent Quality							
	Influent		Effluent					
	Daily Ave MG/L	Daily Ave LBS/Day	Daily Max	Permit Daily MG/L Limit	7 Day Max Ave	Permit 7 Day Max Limit	30 Day Average	Permit 30 Day Ave
BOD <sub>5</sub>	109.7	1684	•	•	•	•	•	•
CBOD <sub>5</sub>	•	•	3 LBS/Day	•	3 LBS/Day	40 LBS/Day	3 LBS/Day	25 LBS/Day
Suspended solids	147	2150	6.7	•		45.	4.6	30
Nitrogen Ammonia	17	260	.1 MG/L	16.20 MG/L	.1 MG/L	•	.1 MG/L	1.0 MG/L
Nitrate Nitrogen	•	•	221 LBS/Day	1075 LBS/Day	•	•	•	657 LBS/Day
Dissolved Oxygen	•	•	8.6	>5.0	7.78	•	7.5	>5.0
pH	7.41	•	8.0	6.5 to 9 STD Units	7.78	•	7.70	6.5 to 9 STD units

ND= No Detection

• = No limit set

## Solids Inventory

During the month of July, we pressed for 6 days (242,000 gallons) and hauled 108.60 wet tons.

## Lift Stations

All lift stations are inspected at least twice per week to ensure proper operations. Airport Road Lift Station pump #1 does not keep a prime. Electric Pump and Iowa Pump have both provided repairs, but pump continues to fail. This station is on the R&R list for replacement.

## Maintenance Report

- 7-23-24: Welded the air piping on VLR 4 blower today. The previous welds broke loose on the intake and outtake of the pipe.
- 7-23-24: Took down the North Clarifier. Sprayed it down with the water hose, removed residual sludge in preparation for sand blasting and painting.

Fifty (50) Preventive Maintenance Work orders Completed in July.

## Current & Planned Projects

4-19-24 RAS pumps are installed and working. There may be some programming issues with the pumps. The pumps cannot run full speed without pulling too many amps and making the pumps fail. SEH is still looking into the problem and we are hoping for a resolution soon.

- Sand Blasting on North Clarifier: July 28<sup>th</sup> - August 9<sup>th</sup>
- Roof Replacements-(currently out for bidding)
- 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 Ergonomics
- Office Safety Overview
- Safety Tips for Employees Working Remotely or Alone
- Hand Grinder Safety
- PPE - Hand Protection

## Regulatory Reports

See attached documents

# Monthly Water & Wastewater Operations Report

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: June		YEAR: 2024									
DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl <sub>2</sub> Used				
	Raw in 1000s Gallons Per Day	To System in 1000s 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 15 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	2,161	1,712	19.75	30	0.83	"C"	(F)	0.90	0	1	1.62	0	1.62	6.1	38				
2	2,198	1,826	19.75	30	0.70	"C"	(F)	0.90	0	1	1.53	0	1.53	5.8	37				
3	2,340	2,000	21.50	32	0.74	"C"	(F)	0.95	0	5	0.75	0	1.50	5.8	38				
4	2,239	1,859	20.75	32	0.79	"C"	(F)	0.90	0	1	1.75	0	1.75	6.0	36				
5	2,161	1,715	20.00	30	0.78	"C"	(F)	0.92	0	1	1.62	0	1.62	6.3	36				
6	2,257	1,886	21.00	34	0.80	"C"	(F)	0.92	0	1	1.85	0	1.85	5.9	40				
7	2,310	1,811	21.25	32	0.87	"C"	(F)	0.89	0	1	1.45	0	1.45	5.6	40				
8	2,230	1,804	21.50	32	0.76	"C"	(F)	0.93	0	1	1.53	0	1.53	6.0	36				
9	2,299	1,852	21.25	35	0.79	"C"	(F)	0.89	0	1	1.64	0	1.64	5.6	38				
10	2,596	2,048	24.00	36	0.91	"C"	(F)	0.97	0	5	1.08	0	1.18	5.4	40				
11	2,587	2,143	24.00	38	0.82	"C"	(F)	0.90	0	1	1.58	0	1.58	5.1	41				
12	2,580	1,995	24.00	35	0.84	"C"	(F)	0.86	0	1	1.85	0	1.85	4.8	39				
13	2,316	1,949	21.75	30	0.87	"C"	(F)	0.77	0	1	1.26	0	1.26	4.9	35				
14	2,525	2,036	23.75	37	0.80	"C"	(F)	0.82	0	1	1.32	0	1.32	4.7	43				
15	2,266	1,813	19.75	30	0.69	"C"	(F)	0.86	0	1	1.17	0	1.17	5.7	33				
16	2,290	1,865	20.75	32	0.83	"C"	(F)	0.71	0	1	1.46	0	1.46	5.2	35				
17	2,129	1,696	18.75	30	0.80	"C"	(F)	0.79	0	1	1.61	0	1.61	6.3	34				
18	1,978	1,668	17.25	27	0.75	"C"	(F)	0.78	0	5	0.77	0	1.31	6.8	31				
19	2,392	1,951	21.00	34	0.76	"C"	(F)	0.78	0	1	1.12	0	1.12	5.4	37				
20	2,265	1,871	20.00	32	0.74	"C"	(F)	0.82	0	1	1.57	0	1.57	5.5	33				
21	2,421	2,004	21.25	36	0.82	"C"	(F)	0.78	0	1	1.12	0	1.12	5.1	38				
22	2,120	1,753	18.50	37	0.86	"C"	(F)	0.79	0	1	1.60	0	1.60	5.9	32				
23	2,616	2,171	22.50	35	0.80	"C"	(F)	0.74	0	1	1.48	0	1.48	4.6	40				
24	2,590	2,168	21.00	36	0.78	"C"	(F)	0.76	0	1	1.59	0	1.59	4.8	38				
25	2,589	2,149	20.50	36	0.82	"C"	(F)	0.71	0	1	1.51	0	1.51	4.7	43				
26	2,489	2,063	22.15	32	0.75	"C"	(F)	0.71	0	1	1.42	0	1.42	5.0	37				
27	2,532	2,077	21.00	38	0.85	"C"	(F)	0.79	0	1	1.48	0	1.48	5.2	36				
28	2,132	1,746	17.45	34	0.84	"C"	(F)	0.82	0	1	1.53	0	1.53	6.6	36				
29	2,063	1,691	17.00	30	0.82	"C"	(F)	0.84	0	1	1.57	0	1.57	7.0	35				
30	2,270	1,800	18.25	32	0.80	"C"	(F)	0.88	0	1	1.67	0	1.67	6.6	36				
Total	69,941	57,122	621.35	994						42		0			1,111				
Avg	2,331	1,904	20.78	33	0.80										37				
Max	2,616	2,171	24.00	38	0.91				0				1.85		43				
Min	1,978	1,668	17.00	27	0.69			0.71			0.75			4.6	31				
*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: 7/2/2024	



# Monthly Water & Wastewater Operations Report

**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: JUNE      YEAR: 2024

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 >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU	Highest Consecutive Results >0.5 NTU Anytime After 4 Hours From Start Up or Backwash	Daily Highest (NTU)	# of Consec Results >10 NTU					
1	20	0	.03	.03	.03	.04	0	.03	.03	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
2	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	0.09
3	20	0	.02	.02	.02	.02	0	.02	.02	.05	0	.02	.02	.04	0	.03	.02	.04	0	0.09
4	22	0	.02	.03	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
5	21	0	.02	.02	.02	.02	0	.03	.03	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.10
6	20	0	.05	.02	.02	.02	0	.03	.02	.03	0	.03	.03	.05	0	.02	.02	.03	0	0.08
7	20	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.03	0	.03	.03	.03	0	0.08
8	22	0	.02	.03	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.10
9	21	0	.03	.03	.02	.04	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.08
10	21	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	0.07
11	24	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.03	.02	.03	0	0.08
12	24	0	.03	.03	.03	.03	0	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	0.07
13	24	0	.03	.03	.03	.04	0	.02	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.07
14	22	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.03	.03	0	.02	.02	.02	0	0.07
15	24	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.02	0	.04	.03	.04	0	0.09
16	20	0	.03	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.08
17	21	0	.03	.02	.02	.04	0	.03	.02	.04	0	.02	.02	.02	0	.02	.02	.02	0	0.06
18	19	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.03	.03	0	.02	.02	.02	0	0.08
19	18	0	.03	.02	.02	.02	0	.02	.02	.04	0	.02	.02	.04	0	.03	.03	.04	0	0.10
20	21	0	.02	.02	.03	.03	0	.02	.02	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.09
21	20	0	.03	.02	.02	.04	0	.04	.03	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.08
22	22	0	.02	.02	.02	.02	0	.03	.02	.03	0	.03	.03	.03	0	.02	.02	.02	0	0.08
23	19	0	.02	.02	.02	.02	0	.02	.02	.10	0	.02	.02	.08	0	.03	.03	.12	0	0.08
24	22	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.03	0	.02	.02	.02	0	0.07
25	21	0	.03	.02	.02	.04	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.02	0	0.07
26	23	0	.02	.02	.02	.02	0	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.02	0	0.07
27	21	0	.02	.02	.02	.02	0	.02	.02	.03	0	.02	.02	.09	0	.03	.03	.09	0	0.09
28	21	0	.02	.02	.02	.04	0	.02	.02	.13	0	.02	.02	.06	0	.02	.02	.08	0	0.11
29	18	0	.03	.02	.02	.05	0	.02	.02	.04	0	.02	.02	.03	0	.02	.02	.04	0	0.09
30	17	0	.02	.02	.02	.02	0	.02	.02	.02	0	.03	.02	.03	0	.02	.02	.03	0	0.08
31																				
Total	628	0					0				0				0				0	
Avg																				0.08
Max			.05			.05				.13				.09				.12		0.11
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: 7/2/2024

# Monthly Water & Wastewater Operations Report

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT															
IOWA DNR WATER SUPPLY															
Basic Information															
S/EP: #1						PWSID #: 819033		Month: JUNE		Year: 2024					
Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)				Gallons Of Liquid Chlorine Used 5%				
	Number of hours the plant operated per day.	Raw in 1000s Gallons Per Day	To System in 1000s Gallons Per Day	Quantity Used in lbs. or gal. (circle one)	Finished Water (mg/L)	Highest Daily Reading (NTU)	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	19.75	2161.00	1712.00	30.00	0.83	0.08	0.40					13.20			
2	19.75	2198.00	1826.00	30.00	0.70	0.09	0.37					14.80			
3	21.50	2340.00	2000.00	32.00	0.74	0.09	0.57					16.00			
4	20.75	2239.00	1859.00	32.00	0.79	0.09	1.29					14.60			
5	20.00	2161.00	1715.00	30.00	0.78	0.10	2.24					15.00			
6	21.00	2257.00	1886.00	34.00	0.80	0.08	2.71					15.80			
7	21.25	2310.00	1811.00	32.00	0.87	0.08	1.82					14.00			
8	21.50	2230.00	1804.00	32.00	0.76	0.10	1.68					15.00			
9	21.25	2299.00	1852.00	35.00	0.79	0.08	3.37					15.10			
10	24.00	2596.00	2048.00	36.00	0.91	0.07	0.91					16.60			
11	24.00	2587.00	2143.00	38.00	0.82	0.08	1.39					15.60			
12	24.00	2580.00	1995.00	35.00	0.84	0.07	0.53					16.20			
13	21.75	2316.00	1949.00	30.00	0.87	0.07	1.21					15.20			
14	23.75	2525.00	2036.00	37.00	0.80	0.07	1.18					16.00			
15	19.75	2266.00	1813.00	30.00	0.69	0.09	0.24					14.60			
16	20.75	2290.00	1865.00	32.00	0.83	0.08	1.43					15.10			
17	18.75	2129.00	1696.00	30.00	0.80	0.06	1.19					12.60			
18	17.25	1978.00	1668.00	27.00	0.75	0.08	1.93					13.00			
19	21.00	2392.00	1951.00	34.00	0.76	0.10	2.44					15.90			
20	20.00	2265.00	1871.00	32.00	0.74	0.09	0.97					15.00			
21	21.25	2421.00	2004.00	36.00	0.82	0.08	1.02					15.60			
22	18.50	2120.00	1753.00	37.00	0.86	0.08	1.00					14.00			
23	22.50	2616.00	2171.00	35.00	0.80	0.08	0.91					17.10			
24	21.00	2590.00	2168.00	36.00	0.78	0.07	2.48					15.50			
25	20.50	2589.00	2149.00	36.00	0.82	0.07	1.42					19.00			
26	22.15	2489.00	2063.00	32.00	0.75	0.07	1.19					17.00			
27	21.00	2532.00	2077.00	38.00	0.85	0.09	1.85					17.60			
28	17.45	2132.00	1746.00	34.00	0.84	0.11	2.35					14.00			
29	17.00	2063.00	1691.00	30.00	0.82	0.09	5.57					14.00			
30	18.25	2270.00	1800.00	32.00	0.80	0.08	2.12					15.10			
Total	621	69,941	57,122	994								458.2	0	0	0
Avg	20.04	2,256	1,843	32.06	0.77	0.08	1.59	#DIV/0!	#DIV/0!	#DIV/0!		15.27	#DIV/0!	#DIV/0!	#DIV/0!
Max	24.00	2,616	2,171	38.00	0.91	0.11	5.57	0.0	0.0	0.00		19.00	0.00	0.00	0.00
Min	0.00	0	0	0.00	0.00	0.00	0.24	0.00	0.00	0.00		12.60	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: 7/2/2024

October 2018 FORM 542-8027

Monthly Water & Wastewater Operations Report

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Permit #: 0819001

Month/Year:

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

Operator Name:

Certification #:

Phone #:

Lab Cert. #:

Comments:

\*Include Comments longer than 1000 characters in email

Signature:

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.

# Monthly Water & Wastewater Operations Report

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: 6-2024

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	2.628													
2	2.55													
3	2.429			104	2106.81744							62	7.4	
4	4.293					18.61	666.3053682	18	644.46516	3.8	136.053756	52	7.6	
5	3.743	86	2684.62932	165	5150.7423							60	7.5	
6	3.271											60	7.4	
7	2.937	61	1494.16938									62	7.5	
8	2.727													
9	2.574													
10	2.473			98	2021.23236							60	7.4	
11	2.367					18.79	370.9292562	18	355.33404	3.3	65.144574	62	7.5	
12	2.245	93	1741.2669	95	1778.7135							62	7.4	
13	2.098	129	2257.15428									62	7.4	
14	1.975											64	7.5	
15	2.196													
16	2.245													
17	1.977			122	2011.55796							62	7.5	
18	3.114					21.69	563.3057844	21	545.38596	3	77.91228	64	7.4	
19	3.188	188	4998.52896	232	6168.39744							62	7.4	
20	2.681											62	7.5	
21	2.421	81	1635.48234									64	7.6	
22	2.333													
23	2.245													
24	2.148			94	1683.94608							64	7.5	
25	1.965					22.75	372.829275	22	360.5382	4	65.5524	66	7.5	
26	1.83	115	1755.153	107	1633.0554							66	7.6	
27	1.925											64	7.6	
28	2.364	137	2701.05912									64	7.6	
29	2.367													
30	1.905													
31														
<b>Total</b>	75.214	890	19267.4433	1017	22554.46248	81.84	1973.369684	79	1905.72336	14.1	344.66301	1244	149.8	
<b>Monthly Avg.</b>	2.507133333	111.25	2408.430413	127.125	2819.30781	20.46	493.342421	19.75	476.43084	3.525	86.1657525	62.2	7.49	
<b>Daily Max.</b>	4.293	188	4998.52896	232	6168.39744	22.75	666.3053682	22	644.46516	4	136.053756	66	7.6	
<b>Daily Min.</b>	1.83	61	1494.16938	94	1633.0554	18.61	370.9292562	18	355.33404	3	65.144574	52	7.4	
<b>Max. 7/Avg.</b>	3.121571429	134.5	3317.00565	177	4089.9777	22.75	666.3053682	22	644.46516	4	136.053756	64.8	7.56	

# Monthly Water & Wastewater Operations Report

Permit # 0619001	<b>Monthly Operation Report</b> IOWA DEPARTMENT OF NATURAL RESOURCES NPDS - Operation Permit System EFFLUENT Data
Facility Name: BOONE CITY OF STP	
Outfall #: 001	
Month/Year: 6-2024	

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	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	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 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS			
Start 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	Permit Duration	Permit Duration	Permit Duration	8/1/2023			
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	Permit Duration	Permit Duration	Permit Duration	7/31/2024			
No Discharge																				
LOG																				
Day: 1																				
2																				
3				5	101.2893									64		9	7.9			
4						0.1	3.580362			13.37	478.6943994			62		8.9	8			
5	3	93.64986		5	156.0831	0.1	3.121662						1	62		8.8	7.9			
6						0.1	2.728014							62		9.1	8			
7	3	73.48374				0.1	2.449458							62		9	8			
8																				
9																				
10				4	82.49928									62		9.1	7.9			
11						0.1	1.974078		276	14	276.37092		2.3	62		9	8			
12	3	56.1699		4	74.8932	0.1	1.87233							64		9	7.9			
13	3	52.49196				0.1	1.749732							66		9	7.9			
14						0.1	1.64715							64		7.6	7.8			
15																				
16																				
17				3	49.46454									65		7.3	7.8			
18						0.1	2.597076			17	441.50292		2.4	66		7.1	7.7			
19	3	79.76376		4	106.35168	0.1	2.658792							64		7	7.6			
20						0.1	2.235954							64		8.2	7.9			
21	3	60.57342				0.1	2.019114							66		8.1	0.8			
22																				
23																				
24				3	53.74296									66		7.6	7.7			
25						0.1	1.63881			15.88	260.243028		2.6	68		6.9	7.6			
26	3	45.7866		2	30.5244	0.1	1.52622							68		7.1	7.7			
27						0.1	1.60545							68		7.5	7.8			
28	3	59.14728				0.1	1.971576							67		7.7	7.7			
29																				
30																				
31																				
Total	24	521.06652		30	654.84846	1.6	35.375778		276	60.25	1456.811267		9.2	218.369556		1	1292	163	149.6	6
Monthly Avg.	3	65.133315		3.75	81.8560575	0.1	2.210986125		276	15.0625	364.2028169		2.3	54.592389		1	64.6	8.15	7.48	1.148698355
Daily Max.	3	93.64986		5	156.0831	0.1	3.580362		276	17	478.6943994		2.6	68.026878		1	68	9.1	8	2
Daily Min.	3	45.7866		2	30.5244	0.1	1.52622		276	13.37	260.243028		1.9	42.60906		1	62	6.9	0.8	1
Max. 7/Avg.	3	83.5668		5	128.6862	0.1	2.969874		276	17	478.6943994		2.6	68.026878		1	67.4	8.96	7.96	1.5



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

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<b>UPGRADE PROGRAM</b>		<b>May 2024</b>				
<b>DATE</b>	<b>ADDRESS</b>	<b>ORIG INSTALL</b>	<b>Note</b>	<b>Low</b>	<b>Med</b>	<b>High</b>
5/1/2024	915 W 10th	10/28/2011				
5/6/2024	411 Marion	7/28/2016				
5/8/2024	1521 Marshall	11/26/2008				
5/10/2024	415 Snedden H	7/1/1999				
5/10/2024	415 Snedden L	7/1/1999				
5/14/2024	1727 Linn	4/11/2002				
5/15/2024	210 Tama	12/3/1998				
5/16/2024	105 S State	11/21/2005				
5/17/2024	1330 SouthView Ct	Reinstall				
5/17/2024	909 Candlewood	11/1/2007				
5/20/2024	216 Clinton	5/10/1999				
5/20/2024	121 Destiny Dr	New Service				
5/21/2024	1428 14th	04/29/02				
5/21/2024	709 Benton	01/12/04				
5/23/2024	1603 15th	10/16/2003				
5/23/2024	1605 15th	10/16/2003				
5/24/2024	1510 18th H	Pre 1999				
5/24/2024	1510 18th L	Pre 1999				
5/28/2024	127 Destiny Dr	New Service				
5/29/2024	128 McPherson	New Service				

<b>UPGRADE PROGRAM</b>		<b>June 2024</b>				
<b>DATE</b>	<b>ADDRESS</b>	<b>ORIG INSTALL</b>	<b>Note</b>	<b>Low</b>	<b>Med</b>	<b>High</b>
6/1/2024	1920 SE Linn H	8/24/1999				
6/1/2024	1920 SE Linn L	8/24/1999				
6/10/2024	1123-25 Colin dr	New Service				
6/10/2024	1119-21 Colin dr	New Service				
6/10/2024	1115-17 Colin dr	New Service				
6/10/2024	1111-13 Colin dr	New Service				
6/10/2024	1110 Colin dr	New Service				
6/10/2024	1107-09 Colin dr	New Service				
6/10/2024	1103-05 Colin dr	New Service				
6/10/2024	2301-03-05 Conner dr	New Service				
6/10/2024	2207-09-11Conner dr	New Service				
6/10/2024	2201-03-05 Conner dr	New Service				
6/10/2024	1102-16 Maddie Ln	New Service				
6/10/2024	1118-32 Maddie Ln	New Service				
6/10/2024	1134-36-38 Maddie Ln	New Service				
6/17/2024	635 Westwood Blvd H	6/19/2007				
6/17/2024	635 Westwood Blvd L	6/19/2007				
6/17/2024	321 Sunrise H	8/13/2001				
6/17/2024	321 Sunrise L	8/13/2001				
6/18/2024	528 S Delaware H	11/23/1999				
6/18/2024	528 S Delaware L	7/28/2006				
209 locates	6-1 to 7-1					



UPGRADE PROGRAM		July 2024				
DATE	ADDRESS	ORIG INSTALL	Note	Low	Med	High
7/10/2024	109 Tama	6/10/1999				
7/10/2024	1515 SE Marshall	12/14/2016				
7/10/2024	1805 S Linn	1/30/2019				
7/11/2024	227 Clinton	11/20/2007				
7/12/2024	2215 Story	3/3/2005				
7/12/2024	310 3rd	4/1/2002				
7/15/2024	606 6th	11/21/2000				
7/16/2024	515 Tama	8/10/1999				
7/16/2024	1608 Clinton	8/10/1999				
7/16/2024	150416th	pre 99				
7/16/2024	509 9th	Reinstall				
7/17/2024	2227 Marshall	11/9/2008				
7/17/2024	1003 22nd	3/2/2005				
7/18/2024	2220 Boone	10/20/2004				
7/18/2024	1004 5th	5/30/2000				
7/19/2024	103 Benton	1/31/2007				
7/19/2024	1010 5th	10/18/2007				
7/19/2024	1311 Southview Ct	New Service				
7/19/2024	1307 Southview Ct	New Service				
7/19/2024	216 13th	Pre 1999				
7/22/2024	103 Marion	2/27/2015				
7/22/2024	217 Tama	5/22/2000				
7/24/2024	421 Webster	12/18/2013				
7/25/2024	1115 5th	5/11/2000				
7/26/2024	712 Arden	3/2/2005				
7/26/2024	206 Story	5/5/1999				
7/26/2024	721 S Marshall	3/19/1999				
7/29/2024	1416 1st	6/26/2000				
7/29/2024	1009 5th	11/2/1999				
7/29/2024	227 Story	4/21/1999				
7/30/2024	1316 Garst	5/8/2000				
7/30/2024	1204 Garst	7/7/1999				
7/30/2024	921 1st	6/28/1999				
7/30/2024	517 S Greene	10/17/2003				
7/31/2024	309 Benton	12/2/1999				
7/31/2024	1111 Garst	11/3/1999				
7/31/2024	316 S Marshall	4/5/1999				
151 locates	7-1 to 8-1					

**Curb Box Repair Update for 06/17/2024 – as of 06/10/2024**

\$5,615.65 was collected during shut offs. 30 accounts qualified to be on the list.

136 stop boxes need repaired, 60 of which have lead service lines & Waylon has ordered 5 to be repaired via City contractor.

8 delinquent bills totaling \$3,509.02 certified on May 29<sup>th</sup>. If left unpaid, 11 delinquent bills totaling \$4,214.53 are scheduled to certify on July 1<sup>st</sup>.

Lesli Vote  
Utility Billing Supervisor

**Curb Box Repair Update for 07/15/2024 – as of 07/10/2024**

\$5,615.65 was collected during shut offs. 13 accounts qualified to be on the list.

132 stop boxes need repaired, 60 of which have lead service lines.

6 delinquent bills totaling \$3,782.26 certified on June 25<sup>th</sup>. If left unpaid, 10 delinquent bills totaling \$3,307.09 are scheduled to certify on July 30<sup>th</sup>.

Lesli Vote  
Utility Billing Supervisor

**Curb Box Repair Update for 08/19/2024 – as of 08/12/2024**

\$4,415.25 was collected during shut offs. 18 accounts qualified to be on the list.

139 stop boxes need repaired, 62 of which have lead service lines.

6 delinquent bills totaling \$2,128.44 certified on July 30<sup>th</sup>. If left unpaid, 6 Stop Box Repair bills totaling \$11,394.96 are scheduled to certify on August 19<sup>th</sup> and 10 delinquent water bills totaling \$2,293.39 are scheduled to certify on August 27<sup>th</sup>.

Lesli Vote  
Utility Billing Supervisor