UTILITY COMMITTEE
Meeting Notice

Governing Body: Utility Committee of Boone, Iowa
Date of Meeting: August 18, 2025
Time of Meeting: 4:00 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://us06web.zoom.us/j/85218247136?pwd=zeFY61ZVGRMbXJze8NP36al2WpS9qS.1
Meeting ID: 852 1824 7136
Passcode: 014044
Phone: 1-301-715-8592 or 1-253-215-8782

1. Call Meeting to Order.
2. Approve Minutes from the July 21, 2025 Meeting.
3. Discuss High Water Bill. – Rolling Meadows Association.
4. Discuss Allowing the City of Ogden to Temporarily Deliver Digester Sludge to the Boone Wastewater Plant.
5. Update on Status of Water Projects.
6. Update on Status of Wastewater Improvement Projects.
7. Update on Hancock Drive Extension.
8. Review the July 2025 US Water Monthly Report.
9. Meter Upgrade Report.
    a. July
10. Stop Box Repair/Shut Off Report.
    a. July
11. Other Business.
12. Adjourn.

UTILITY COMMITTEE
Meeting Notice

Governing Body: Utility Committee of Boone, Iowa
Date of Meeting: July 21, 2025
Time of Meeting: 5:00 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://us06web.zoom.us/j/83302995008?pwd=XFgsSPa6CPUC3cCasxlM68vZ0pf2on.1
Meeting ID: 833 0299 5008
Passcode: 147637
Phone: 1-301-715-8592 or 1-253-215-8782

1. Call Meeting to Order.

Present: Angstrom, Moorman. By phone: Byrd.
Others present: Elmquist, Roberts, Montag, Majors, Aaron Voss US Water

2. Approve Minutes from the June 16, 2025 Meeting.

Moorman moved; Angstrom seconded to approve the minutes from June 16, 2025 meeting. Ayes: all those in attendance. Nays: none.

3. Discuss the Wastewater Treatment Biomass Food Supply. – Gjersvik.

Roberts and Aaron Voss explained that the influent loading of BOD5 to the Wastewater Treatment Facility has reduced from the normal concentration of approximately 173 mg/l down to approximately 55 mg/l over the last few weeks. This is due to the abnormal rainfall which has diluted the wastewater and reduced the organic loadings that is needed to feed the microorganisms that treat the wastewater. The continued low food supply in the influent flow may require the facility to take countermeasures such as re-seeding the influent with organics from another facility to maintain compliance with the NPDES discharge permit. The operations staff will continue to monitor the situation.

4. Infrastructure Project Status Report. – Gjersvik.

Elmquist updated the Committee on several infrastructure projects. The Water and Wastewater Plant Roof Replacement Project is nearly complete, with minor items remaining. The Ground Storage Tank Rehabilitation Project has received a $500,000.00 Community Development Block Grant (CDBG), with construction expected to begin this winter with completion in the Spring of 2026. The water system modeling is almost complete. Due to aquifer limitations, the Jordan wells are not feasible; instead, a new alluvial well is being proposed, and a nitrate removal study is planned. Wastewater projects include the Headworks Improvements Project, currently out for rebid, and the Digester Replacement Project, which is in design and may qualify for future

CDBG funding. The design work also continues on the Wastewater System Expansion Project and lastly, the Hancock Drive Extension Project has been submitted to Iowa Department of Transportation (IDOT), with a contract award anticipated in late fall.

5. Wastewater Clarifier Drive Unit Replacement. – Gjersvik.

The Committee was informed that the north clarifier at the Wastewater Treatment Facility is critical for operations and that its drive unit is failing and requires replacement. Quotes for the installation of the clarifier drive unit were received from multiple contractors. It is recommended that the City purchases the clarifier drive unit and start-up leveling services directly from Evoqua, the equipment manufacturer, for $68,896.30, and award the installation contract to Story Construction Co. of Ames, IA, for $55,801.00. The total project cost is $124,697.30. Moorman moved; Angstrom seconded to recommend approval to full Council at the July 21, 2025, Council meeting. Ayes: all those in attendance. Nays: none.

6. Review the June 2025 US Water Monthly Report.

The Committee reviewed the June 2025 US Water Monthly Report.

7. Meter Upgrade Report.
    a. June

Staff installed twenty-four (24) meters in June, two (2) of those being new service meters.

8. Stop Box Repair/Shut Off Report.
    a. June

Staff reported that fourteen (14) accounts qualified to be on the shut-off list. There are one hundred sixty-eight (168) stop boxes that need repaired, with seventy-four (74) of those having lead service lines.

9. Other Business.

10. Adjourn.

With no further business coming before the Committee the meeting adjourned at 5:43 p.m.

Boone City Council
Staff Report

Subject: Rolling Meadows Water Main Leak

Background: May 23-June 3 Rolling Meadows line had a leak flowing approximately 110 gallons per Minute. This leak was discovered by Lesli Vote as she processed the monthly billing file on June 3rd. I immediately advised Rolling Meadows Water District that there was a leak in their system again. The leak was repaired on the 4th of June by Molitor Construction. I followed the repair with flushing and testing of their system. Due to the location of the repair, I had to flush their system multiple times consuming a large amount of water as well. This step was necessary to get the air out of the system and preform the bacteria test accurately. Total water consumption for the leak and flushing was 239,550 cubic feet totaling $17,684.92.

In June of 2024 the Rolling Meadows Water District prepared to purchase a Scada System that would monitor their water system and potentially advise them of a significant leak. I discussed this project with our supplier and meter manufacturer extensively concluding that they could provide me with a meter that would satisfy the equipment requirements. On December 11th I changed the meter to prepare for Rolling Meadows to install their Scada system. The System was installed January 14th with an approximate cost that I was informed of nearly $20,000.00. On January 28th we were still struggling to communicate with the meter accurately to give them the signal to operate their equipment. During the period of January 14th and July 2025 Rolling Meadows emailed me 18 times regarding an update on the alarm and reading status. Below is a timeline of correspondence between myself, our supplier, and the water meter manufacturer.

10-15-24 Ordered a 6" Dual port Dual signal meter to support The City of Boone, and a separate signal of communication for Rolling Meadows Water District.

12-11-24 Water meter was changed

1-14-25 Rolling Meadows Scada provider installed their equipment

1-28-25 I programmed the water meter by Master Meter technician directions, but could not get the secondary signal to work appropriately

2-11-25 Support and programming with Core and Main

2-28-25 Attempt to rewire and program the secondary signal with no success

3-6-24 Attempted to reprogram again with trained Core and Main representatives, but no success. Together we concluded that we needed to start replacing components to fix the situation and ordered parts.

3-24-25 Components arrived and installed, and programming seemed successful.

4-1-25 Noticed that the signal to our meter reading system had not worked, or was not working currently. We went to Grimes to get a new meter, and installed the following day with unsuccessful communication, while using Master Meter Technicians directions for programming.

4-10-25 Tom Miner our Master Meter Representative visited to pick up the removed meter and send to their plant in Texas to test.

5-22-25 Tom called to try, and trouble shoot the meter programming with no success

5-28-25 Started June 1st reading cycle

6-3-25 Lesli discovered the large consumption on the Rolling Medows Water District meter

6-3-25 I sent off a demanding email to Master Meter wanting to know the status of our returned meter and support

6-3-25 Received a short email from technical support representative stating we had been programming the meter incorrectly. I followed up with a corresponding email in disgust of the services we had received. I then received an email stating they were sorry for this situation, and that they were apologetic.

6-4-25 Reprogrammed the meter to the settings provided from the technical support team, and received both signals, and Rolling Meadows system appeared to be operating correctly in conjunction with ours.

6-4-25 Molitor Construction repaired the leak

6-4/5-25 Flushing and testing of the Rolling Meadows Water District done by City of Boone Staff

7-1-25 Rolling Meadows Water District taken over by Xenia Rural Water

Analysis: Staff acknowledges the technical issues in the communication system between the City of Boone Water Meter, and Rolling Meadows SCADA system, thus resulting in failure of notification or alarm.

Options:

1. ***Continue with the billing to Rolling Meadows Water District for the total of $17,684.92***
2. ***Bill Rolling Meadows Water District for the cost of production of the lost water at $5,879.18***
3. ***Bill Rolling Meadows Water District for the approximate 250,000 gallons of water flushed after the repairs and for staff time to flush and test at their agreed rate for a total of $1,810.90***
4. ***Forgive total bill to Rolling Meadows Water District for $17,684.92***

Staff Recommendation:
Staff recommends option 3

AGREEMENT

The City of Boone, Iowa and the City of Ogden, Iowa, do hereby agree as follows:

1. During the month of January of 2026 and July of 2026 the City of Ogden shall be allowed to deliver digester sludge to the Boone Wastewater Plant but shall not be able to deliver over 60,000 gallons per month.

2. All costs of delivery shall be paid by the City of Ogden.

3. The City of Ogden agrees to pay the City of Boone $0.175 for each gallon delivered and shall make payment within thirty (30) days of billing by the City of Boone.

4. This Agreement shall automatically terminate on July 31, 2026 unless prior to July 1, 2026 the parties agree to extend this Agreement for an additional one year. If the Agreement is mutually extended by the parties, the rate shall be negotiated at that time and agreed to.

5. This Agreement and any extension thereof shall be subject to the approval of each City Council.

Dated this ____day of _____, 2025.

_____	_____
Elijah Stines, Mayor of Boone	Ondrea Elmquist, Boone City Adm.
_____	_____
Mark Trueblood, Mayor of Ogden	Emily Clausen, Ogden City Adm.

Building a Better World for All of Us®

MEMORANDUM

TO: Perry Gjersvik, PE, City of Boone

FROM: Katie Kinsey, PE
McKenzie Hunt, PE

DATE: August 18, 2025

RE: Water Project Status Memo
SEH No. BOONE 182275 14.00

WORK UNDER CONTRACT

Water Supply Improvements – Well Additions

Due to current permitting limitations and pumping restrictions associated with the Jordan Aquifer, the originally proposed development of two Jordan wells is no longer feasible for meeting projected system demands. In response, SEH will proceed with the development of two alluvial wells as an alternative water source.

The Preliminary Engineering Report (PER) estimated the total construction cost for two Jordan wells at $2,830,000. In contrast, the estimated cost for constructing a single alluvial well is $650,000. The selected location for the proposed alluvial well, however, does not currently have access to electrical service. To address this, an additional cost of approximately $300,000 is anticipated to extend electrical service from the high service pump station to the well site. With the added electrical infrastructure cost, the revised approach presents a potential cost savings of approximately $1,880,000 compared to the original Jordan well proposal.

Design for the first alluvial well is scheduled for completion by October 2025. Additional site evaluations will be conducted to identify a suitable location for the second alluvial well, which is intended to enhance overall system capacity and may contribute to reduced nitrate concentrations.

Water Treatment Plant Improvements

Due to the recent shift toward utilizing existing high-nitrate wells to meet system demand, the focus of the pilot study has been adjusted accordingly. The revised pilot study will proceed in two phases:

- **Phase 1** will evaluate the performance of the existing Water Treatment Plant (WTP) to determine whether minor operational adjustments can enhance finished water quality.
- **Phase 2** will focus on the application of an ion exchange technology for nitrate removal.

The pilot study is now scheduled to begin in September. Based on current nitrate levels and regulatory requirements, it is anticipated that nitrate treatment will be necessary for a portion of the raw water supply to ensure continued compliance with drinking water standards.

In the interim, our team has initiated preliminary sizing of the ion exchange system using manufacturer data and available nitrate concentration data from the WTP. While the EPA's Maximum Contaminant

Level (MCL) for nitrate is 10 mg/L, the State of Iowa requires a public notice advising bottled water use if nitrate levels exceed 7 mg/L during a water main break or system pressure loss. This precaution is due to the risk of increasing nitrate concentration through boiling, which is a common response to such events.

To mitigate this risk, the design target for effluent nitrate concentration is set at 6 mg/L. Based on projected 2044 maximum day demand, which is expected to coincide with peak nitrate levels, approximately 60% of the system flow will require treatment. Preliminary sizing indicates that the required ion exchange vessels may exceed the available space within the existing WTP footprint. SEH is actively evaluating alternative vessel configurations and layout options to potentially accommodate the system within the current WTP facility.

Ground Storage Reservoir Rehabilitation

The design for this project is complete, and the team is currently awaiting the Iowa DNR Construction Permit. The project has recently been approved for funding through CDBG, with funds expected to be released in October. Once funding is available, the project will be advertised for bids.

High Service Pump Station Improvements

The project includes the proposed installation of four (4) 250-horsepower high service pumps within the existing pump chambers. Pump sizing has been calibrated based on results from the hydraulic model to ensure optimal performance. All four pumps will be equipped with variable frequency drives (VFDs) to provide enhanced flow control and operational flexibility. During max day conditions three (3) pumps will be online to provide flow to the community.

The existing pumps are rated at 250 horsepower, and as such, only minor electrical modifications are anticipated during pump replacement. However, the existing generator at the HSPS is undersized and unable to support full WTP operations under projected 2044 maximum day demand conditions. The generator, original to the facility and in service for approximately 30 years, is recommended for replacement to ensure adequate backup power capacity and system resilience.

As part of the planned pump and motor upgrades at the High Service Pump Station (HSPS), the associated isolation and control valves will also be replaced. These components have reached the end of their service life and require replacement to ensure reliable and efficient operation of the HSPS. Additionally, the existing sodium hypochlorite feed system has been identified as undersized for projected future water demands. To address this, the feed system will be upgraded to ensure adequate disinfection capacity and regulatory compliance under anticipated operating conditions.

Additionally, the project will include installation of a flow meter and actuated valve at the WTP. These additions will enable automated operation of the bypass line around the lime softening units. This functionality will be critical in 2028 when the Daisy Brands industry comes online and both lime softening units in the WTP are in service. The automated bypass will provide operational flexibility during routine maintenance or in the event of clarifier performance issues.

Distribution System Improvements

A comprehensive hydraulic modeling analysis is currently underway to assess the impacts on the distribution system once the Daisy Brands facility becomes operational. Daisy Brands has projected a gradual increase in water demand, reaching 2.0 MGD at 60 psi between 2028 and 2032.

Without improvements to the existing distribution system, the following issues are anticipated:

- Capacity loss at the Industrial Tower and Clinton Tower
- Elevated pressures on the west side of town

- Insufficient pressure at the Daisy Brands site

Evaluated Solutions

Solution 1: Water Main Upsizing

- Upgrade existing water mains to reduce headloss across the system.
- Estimated Cost: $4.5M
- Limitation: Tower capacity remains compromised, and pressure at Daisy Brands falls short of the 60 psi target.

Solution 2: Altitude Valve Installation

- Install altitude valves at all towers except the future Daisy Tower.
- Estimated Cost: N/A
- Limitation: Results in excessively high pressures on the west side of town, which poses operational concerns.

Solution 3: Pressure Zone Creation and Water Main Improvements

- Establish a dedicated pressure zone around the Daisy site by:
    - Constructing a booster station
    - Installing a check valve
- Installing a new water main along Scenic Valley Railway (between Cedar St and the Industrial Tower)
- Closing a valve on the west side of town to redirect flow
- Estimated Cost: $2.5M
- Limitation: None identified

Daisy Water Tower

This project is currently on hold pending completion of the hydraulic model and the selection of a preferred design solution for the distribution system. Design parameters for the proposed water tower will be determined based on several factors: FAA airspace clearance requirements around the runway, existing ground elevation, the target pressure of 60 psi for the Daisy Brands facility, and the results of the hydraulic modeling analysis. Final design decisions will be made based on the selected distribution improvement alternative to ensure optimal functionality and cost-efficiency.

JULY 2025

City of Boone, Iowa

Water & Wastewater Treatment Facilities, Storage, and Lift Stations

Monthly Operations & Maintenance Report

Prepared by:

USW UTILITY GROUP

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

Prepared For:

City of Boone

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

JULY 2025

City of Boone
Ondrea Elmquist, City Administrator
923 8th Street
Boone, IA 50036

July Monthly Water & Wastewater Operations Report

Dear Ms. Elmquist:

In accordance with contract requirements, we are pleased to provide the following monthly report for July 2025. Below is a list of the significant events that occurred during the month:

SUBMITTED TO: **Ondrea Elmquist**, 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 Treatment Facility

Finished Water Monthly Flows and Hardness			
		JULY-2024	JULY-2025
Water	**Units**		
Average Daily Pumped	gallons	1,812,000	1,750,000
Maximum Daily Pumped	gallons	2,186,000	2,177,000
Minimum Daily Pumped	gallons	1,494,000	1,439,000
Hardness			
Hardness - Avg Raw	grains	20.1	19.6
Hardness - Avg Finish	grains	9.1	9.7
Iron mg/l			
Avg Raw	mg/L	.01	.01
Avg Finish	mg/L	.01	.01
Fluoride mg/l			
Avg Raw Fl.	mg/L	.45	.51
Avg Finish Fl.	mg/L	.77	.69

Water Storage

During the month of July, Greene Street, Industrial Park and Clinton Street Towers were in service as well as the 2-million-gallon reservoir and 550,000-gallon contact basin for a total of 4,150,000-gallons of storage.

Maintenance Report

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

- Repaired pressure reducing valve at High Service Pump Station
- Repaired pressure relief valve at main plant
- Rotated Claricones
- Serviced Claricone #2
- Power washed lime slurry troughs

- Chiseled out heavy lime buildup in Claricone discharge pipes
- Repaired High Service Pump #1 solenoid valve
- Repaired ruts in the yard caused by the heavy rains
- Rotated lime slakers
- Serviced lime slaker #1
- Mowed main plant, pump Station, water towers and well fields
- Verified all five turbidity meters weekly
- Calibrated all five turbidity meters
- Cleaned and verified calibration on all four CL-17 chlorine analyzers weekly
- Cleaned chlorine injector at pump station
- Replaced rooftop dehumidifier filters
- Misc. cleaning around water plant

Current & Planned Projects

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

- Change oils in backwash pumps and High Service Pumps
- Continue with misc. yard work

Health & Safety

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

The subjects of the weekly safety training were:

1. Listen Up to Protect Your Hearing.
2. Don’t Let Chemicals Get You.
3. Distracted Driving Is Dangerous.
4. Climb Into Confined Space Safety
5. Confined Spaces; Entry Team Training-Maintenance Activities.

Regulatory Reports

See attached documents

WASTEWATER

Wastewater Treatment Facility

Wastewater Treatment Facility Flows			
	Plant Influent	**Plant Effluent**	**Units**
Total	195.4	•	MGD
Average per day	6.30	•	MGD
Minimum	2.929	•	MGD
Maximum	21.10	•	MGD

	Wastewater Influent & Effluent Quality							
	Influent		**Effluent**					
Parameter	**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	**60.2**	**2947**	•	•	•	•	•	•
$CBOD_5$	•	•	**4**	•	**3**	**40**	**3.1**	**25**
Suspended solids	**97**	**6537**	**8.7**	•	**9.0**	**45**	**4.9**	**30**
Nitrogen Ammonia	**5.2**	**256**	**.345**	**14.70**	**.15**	•	**.124 MG/L**	**2.4 MG/L**
Nitrate Nitrogen	•	•	**329 LBS/Day**	**1075 LBS/Day**	•	•	•	**657 LBS/Day**
Dissolved Oxygen	•	•	**8.6**	**>5.0**	**8.64**	•	**8.6**	**>5.0**
pH	**7.41**	•	**8.1**	**6.5 to 9 STD Units**	**7.98**	•	**7.9**	**6.5 to 9 STD Units**

ND= No Detection

- **= No limit set**

Solids Inventory

During the month of July, we pressed for 2 days (51,000 gallons) and hauled 25.60 wet tons.

The solids inventory is dangerously low due to endogenous respiration, as discussed with the Utility Committee during the monthly meeting. This is due to extremely high I&I during heavy rainfall and extended periods of ground saturation during the month. The carbon food supply for our microorganisms is low, so the biomass population feed on themselves, making it nearly impossible to regenerate or build a solids inventory. Staff will likely be required to reseed the plant with healthy biomass once the flows drop to within the treatable range.

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.

- Annual Inspection for the Lift Station Pumps was postponed due to rain.
- 7-15-25: power outage at West Park LS. Generator ran for 13 hours until Alliant Energy fixed the issue.

Maintenance Report

66 - (Sixty-Six) Preventive Maintenance Work orders Completed

- 7-9-25: Clean pump rollers and changed pump hoses
- 7-10-25 troubleshot the high-level float. It needs to be lowered but due to high flows unable to get into the channel
- 7-15-25: GPM calibrated and verified Influent 1 & 2 channels and RAS & WAS meters.
- 7-23-25: Installed ventilation fan and intake louver in the Effluent Sample Building
- 7-23-25: Installed a door seal for the effluent sampler
- 7-23-25: Seal holes in Administration Building with caulking
- 7-25-25: Replaced discharge pressure gauges for Aerzen Blowers A & B
- 7-29-25: Replace a seal on Sludge Pump 2
- 7-29-25: Cleaned the plug valve that drain the flocculation tank for the belt filter press
- 7-31-25: Flushed out the lines for North Grit System. Pump was not receiving any water and it was over heating.

Current & Planned Projects

- Roof Replacements- (Waiting on Manufacturer for safety Guiderail)

- In-plant Lift Station-(Is part of the Daisy Project)
- Preliminary Screen Install-(Shank Construction was awarded the bid)

Health & Safety

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

The subjects of the monthly safety training were:

- Climb Into Confined-Space Safety
- Distracted Driving is Dangerous
- Don’t Let Chemicals Get You
- Listen Up to Protect Your Hearing

By-Pass Report

The plant sustained 152,688,000 gallons for the month. We By-Passed 4 times this month equaling to 53,900,000 gallons of partially treated waste. As reported to the Utility Committee in the monthly meeting, each bypass is a NPDES violation and was reported to IDNR as part of the mandatory reporting rule.

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:** 2025

DAY	Pumpage		Operating Hours	Fluoride		Chlorine Residual								CT	Cl_2 Used
						Source/Entry Point (S/EP)				Distribution					
	Raw in 1,000s Gallons Per Day	To System in 1,000s Gallons Per Day	Number of Hours of Treatment Plant Operation Per Day	Quantity Used in lbs.	Finished Water (mg/L)	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	2,591	2,023	22.00	30	0.72	"C"	(F)	1.90	0	1	0.28	0	1.42	2.7	39
2	2,636	2,177	23.00	34	0.69	"C"	(F)	1.99	0	1	0.30	0	0.30	3.1	39
3	2,317	1,785	20.00	31	0.67	"C"	(F)	2.05	0	1	0.35	0	0.35	4.1	35
4	2,246	1,784	19.50	28	0.66	"C"	(F)	1.98	0	1	0.36	0	0.36	3.6	30
5	1,865	1,487	16.25	24	0.73	"C"	(F)	2.09	0	1	0.34	0	0.34	4.7	30
6	2,017	1,612	17.50	26	0.69	"C"	(F)	1.78	0	1	0.35	0	0.35	4.0	29
7	2,594	1,906	21.75	24	0.66	"C"	(F)	1.91	0	6	0.32	0	1.20	3.3	39
8	2,347	1,824	21.25	29	0.70	"C"	(F)	2.01	0	1	0.35	0	0.35	3.7	38
9	2,180	1,925	20.25	29	0.69	"C"	(F)	1.87	0	1	0.35	0	0.35	4.3	35
10	2,250	1,655	19.50	26	0.70	"C"	(F)	2.03	0	1	0.37	0	0.37	4.1	33
11	1,882	1,439	17.50	28	0.68	"C"	(F)	1.84	0	1	0.36	0	0.36	4.8	32
12	2,082	1,638	20.25	28	0.69	"C"	(F)	2.14	0	1	0.38	0	0.38	4.7	32
13	2,263	1,747	21.00	28	0.73	"C"	(F)	2.19	0	1	0.37	0	0.37	4.3	33
14	2,469	1,891	23.00	34	0.69	"C"	(F)	2.27	0	6	0.38	0	1.92	4.0	37
15	2,686	2,045	23.50	36	0.67	"C"	(F)	2.20	0	1	0.41	0	0.41	3.8	40
16	2,120	1,646	18.25	28	0.74	"C"	(F)	2.17	0	1	0.43	0	0.43	4.9	31
17	2,347	1,907	20.50	33	0.65	"C"	(F)	2.01	0	1	0.44	0	0.44	3.7	39
18	2,354	1,826	20.50	32	0.69	"C"	(F)	2.10	0	1	0.46	0	0.46	4.0	38
19	2,011	1,586	17.50	26	0.69	"C"	(F)	2.16	0	1	0.48	0	0.48	5.0	70
20	2,109	1,636	18.25	29	0.64	"C"	(F)	2.12	0	1	0.46	0	0.46	4.4	33
21	2,209	1,705	18.75	28	0.67	"C"	(F)	1.98	0	1	0.41	0	0.41	4.6	34
22	2,178	1,746	18.25	30	0.73	"C"	(F)	1.92	0	1	0.41	0	0.41	4.1	30
23	2,507	1,924	21.75	34	0.67	"C"	(F)	1.87	0	1	0.40	0	0.40	3.8	40
24	2,221	1,648	19.00	32	0.68	"C"	(F)	1.96	0	1	0.41	0	0.41	4.4	35
25	2,279	1,786	19.25	32	0.70	"C"	(F)	1.96	0	1	0.39	0	0.39	4.4	38
26	2,063	1,660	17.50	28	0.72	"C"	(F)	2.10	0	1	0.36	0	0.36	4.6	35
27	2,418	1,946	20.50	33	0.73	"C"	(F)	2.12	0	1	0.32	0	0.32	4.0	40
28	1,968	1,478	16.75	25	0.69	"C"	(F)	1.86	0	1	0.33	0	0.33	5.2	33
29	2,081	1,626	18.00	30	0.72	"C"	(F)	2.00	0	1	0.30	0	0.30	4.2	34
30	2,010	1,614	17.25	28	0.67	"C"	(F)	2.00	0	1	0.30	0	0.30	5.2	33
31	1,998	1,580	17.00	30	0.71	"C"	(F)	1.87	0	1	0.28	0	0.28	5.2	34
Total	69,298	54,252	605.25	913						41		0			1,118
Avg	2,235	1,750	19.32	29	0.69										36
Max	2,686	2,177	23.50	36	0.74				0				1.92		70
Min	1,865	1,439	16.25	24	0.64			1.78			0.28			2.7	29

*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: 8/5/2025

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:** 2025

DAY	Finished Water			Filter Effluent																Raw Water Turbidity (Highest Daily Reading NTU)
				#1				#2				#3				#4				
	Number of Readings Taken **	Number of Readings >0.3 NTU	Highest Daily Reading (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	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	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.72
2	23	0	.02	.01	.01	.02	0	.01	.01	.01	0	.03	.02	.02	0	.02	.02	.02	0	0.69
3	23	0	.02	.02	.02	.03	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.67
4	21	0	.02	.02	.02	.02	0	.02	.01	.03	0	.02	.02	.02	0	.02	.01	.02	0	0.66
5	20	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.73
6	17	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.69
7	17	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.66
8	22	0	.02	.02	.02	.02	0	.02	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.70
9	20	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.69
10	22	0	.02	.01	.01	.02	0	.01	.01	.01	0	.02	.02	.02	0	.01	.01	.02	0	0.70
11	20	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02		0	0.68
12	18	0	.02	.01	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.69
13	20	0	.02	.02	.02	.02	0	.01	.01	.03	0	.02	.02	.02	0	.01	.01	.02	0	0.73
14	21	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.69
15	23	0	.02	.01	.01	.02	0	.01	.01	.01	0	.02	.02	.02	0	.02	.01	.02	0	0.67
16	24	0	.02	.02	.02	.02	0	.01	.01	.01	0	.02	.02	.02	0	.01	.01	.02	0	0.74
17	17	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.65
18	22	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.69
19	20	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.69
20	17	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.02	.02	0	0.64
21	19	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.67
22	19	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.73
23	19	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.67
24	22	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.68
25	19	0	.02	.02	.02	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.70
26	20	0	.02	.02	.02	.03	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.72
27	18	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.73
28	21	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.02	.02	.02	0	0.69
29	16	0	.02	.03	.03	.03	0	.01	.01	.03	0	.02	.02	.02	0	.02	.02	.02	0	0.72
30	18	0	.02	.03	.03	.03	0	.01	.01	.02	0	.02	.02	.03	0	.01	.01	.02	0	0.67
31	18	0	.02	.01	.01	.02	0	.01	.01	.02	0	.02	.02	.02	0	.01	.01	.02	0	0.71
Total	616	0					0				0				0				0	
Avg																				0.69
Max			.02			.03				.03				.03				.02		0.74
Min																				0.64

**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: 8/5/2025

SURFACE WATER/INFLUENCED GROUNDWATER MONTHLY OPERATION REPORT

IOWA DNR WATER SUPPLY

Basic Information

S/EP: #1

System Name: **PWSID #:** 819033 **Month:** July **Year:** 2025

Day	Operating Hours	Pumpage		Fluoride		Raw Turbidity	Settled Turbidity (individual sedimentation basin)							
	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)	Gallons Of Liquid Chlorine Used 15%	Wett Well Residual		
1	22.00	2591	2023	30.00	0.72	0.72	2.59				22.80	0.44		
2	23.00	2636	2177	34.00	0.69	0.69	2.63				24.00	0.51		
3	20.00	2317	1785	31.00	0.67	0.67	3.08				19.80	0.56		
4	19.50	2246	1784	28.00	0.66	0.66	1.21				20.10	0.50		
5	16.25	1865	1487	24.00	0.73	0.73	0.77				17.00	0.50		
6	17.50	2017	1612	26.00	0.69	0.69	0.61				18.80	0.47		
7	21.75	2594	1906	24.00	0.66	0.66	0.32				24.00	0.51		
8	21.25	2347	1824	29.00	0.70	0.70	0.87				23.10	0.52		
9	20.25	2180	1925	29.00	0.69	0.69	0.65				24.50	0.56		
10	19.50	2250	1655	26.00	0.70	0.70		0.84			20.90	0.56		
11	17.50	1882	1439	28.00	0.68	0.68		2.28			18.90	0.54		
12	20.25	2082	1638	28.00	0.69	0.69		0.88			20.80	0.54		
13	21.00	2263	1747	28.00	0.73	0.73		0.98			22.80	0.54		
14	23.00	2469	1891	34.00	0.69	0.69		0.68			22.50	0.55		
15	23.50	2686	2045	36.00	0.67	0.67		1.21			23.80	0.55		
16	18.25	2120	1646	28.00	0.74	0.74		0.73			19.00	0.56		
17	20.50	2347	1907	33.00	0.65	0.65		0.71			20.00	0.48		
18	20.50	2354	1826	32.00	0.69	0.69		0.41			20.40	0.51		
19	17.50	2011	1586	26.00	0.69	0.69		0.93			17.90	0.54		
20	18.25	2109	1636	29.00	0.64	0.64		1.24			18.80	0.50		
21	18.75	2209	1705	28.00	0.67	0.67		1.28			19.90	0.50		
22	18.25	2178	1746	30.00	0.73	0.73		0.89			19.80	0.44		
23	21.75	2507	1924	34.00	0.67	0.67		1.18			21.10	0.45		
24	19.00	2221	1648	32.00	0.68	0.68		1.01			19.00	0.50		
25	19.25	2279	1786	32.00	0.70	0.70		2.03			20.00	0.51		
26	17.50	2063	1660	28.00	0.72	0.72		0.92			18.90	0.50		
27	20.50	2418	1946	33.00	0.73	0.73		0.39			22.00	0.50		
28	16.75	1968	1478	25.00	0.69	0.69		1.63			16.10	0.53		
29	18.00	2081	1626	30.00	0.72	0.72		0.87			19.00	0.51		
30	17.25	2010	1614	28.00	0.67	0.67		0.95			18.30	0.54		
31	17.00	1998	1580	30.00	0.71	0.71		1.48			19.00	0.52		
Total	605	69,298	54,252	913							633.00	0	0	0
Avg	19.52	2,235	1,750	29.45	0.69	0.69	1.41	1.07	#DIV/0!	#DIV/0!	20.42	0.51	#DIV/0!	#DIV/0!
Max	23.50	2,686	2,177	36.00	0.74	0.74	3.08	2.28	0.0	0.00	24.50	0.56	0.00	0.00
Min	16.25	1,865	1,439	24.00	0.64	0.64	0.32	0.39	0.00	0.00	16.10	0.44	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: 8/5/2025

October 2018 FORM 542-8027

	FLUORIDE		HARDNESS		PH		TOTAL ALK		IRON		MANGANESE		ORTHO	H_2O	Cl_2	NITRATE		RAW
DATE	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	RAW	FIN	PHOS	TEMP	FREE	RAW	FIN	TURB.
1		0.72	334	174	7.59	9.41	250	74	0.01	0.01			1.39	56	1.83	9.1	9.3	0.72
2		0.69	348	174	7.56	9.39	246	76	0.01	0.01			1.41	56	1.98	9.0	9.0	0.69
3		0.67	334	168	7.59	9.31	246	72	0.01	0.01			1.40	57	1.97	9.0	9.2	0.67
4		0.66	334	168	7.58	9.43	240	72	0.01	0.02			1.43	57	2.01	8.7	9.1	0.66
5		0.73	336	170	7.53	9.35	242	74	0.01	0.01			1.38	58	1.87	8.7	9.0	0.73
6		0.69	334	170	7.55	9.43	242	72	<.01	0.01			1.39	58	1.90	8.8	9.0	0.69
7		0.66	334	168	7.49	9.43	240	74	0.01	0.01			1.40	58	1.92	8.5	9.0	0.66
8		0.70	336	168	7.56	9.48	240	70	0.01	<.01			1.41	58	1.97	8.7	9.0	0.70
9		0.69	334	166	7.56	9.44	246	70	0.01	0.01			1.44	58	1.99	8.6	9.0	0.69
10		0.70	338	168	7.56	9.48	238	66	0.02	0.01			1.42	58	2.04	8.8	9.0	0.70
11		0.68	344	176	7.53	9.43	244	66	0.01	0.01			1.42	58	1.99	8.4	8.6	0.68
12		0.69	334	170	7.55	9.36	248	74	<.01	0.01			1.43	59	2.17	8.3	8.3	0.69
13		0.73	338	166	7.54	9.35	246	72	0.01	0.01			1.44	59	2.31	8.4	8.3	0.73
14		0.69	334	164	7.51	9.38	244	68	0.01	0.01			1.45	59	2.10	8.2	8.3	0.69
15	0.51	0.67	334	164	7.53	9.40	242	68	0.01	<.01	.35	.02	1.42	60	2.17	8.2	8.4	0.67
16		0.74	332	164	7.48	9.39	242	66	<.01	0.01			1.45	60	2.12	8.4	8.6	0.74
17		0.65	332	166	7.56	9.43	242	66	0.01	0.01			1.40	60	1.96	8.5	8.7	0.65
18		0.69	330	164	7.49	9.40	240	66	<.01	0.01			1.42	60	2.03	8.3	8.5	0.69
19		0.69	328	166	7.49	9.37	240	70	0.01	<.01			1.39	60	2.09	8.6	8.9	0.69
20		0.64	332	166	7.48	9.36	246	68	0.01	<.01			1.39	60	1.96	8.6	8.8	0.64
21		0.67	332	166	7.36	9.25	246	68	0.01	0.01			1.38	61	1.93	8.3	8.4	0.67
22		0.73	332	166	7.14	9.23	244	66	0.01	<.01			1.40	61	2.01	8.2	8.4	0.73
23		0.67	336	160	7.33	9.25	240	66	0.01	0.01			1.39	62	1.90	8.1	8.3	0.67
24		0.68	342	162	7.49	9.34	238	68	0.01	0.01			1.38	61	2.01	8.1	8.1	0.68
25		0.70	344	160	7.51	9.35	240	68	<.01	0.01			1.28	61	1.99	8.3	8.0	0.70
26		0.72	342	160	7.52	9.43	238	66	0.01	0.01			1.39	61	2.05	8.1	8.3	0.72
27		0.73	342	162	7.51	9.34	238	66	<.01	<.01			1.41	61	1.92	8.0	8.3	0.73
28		0.69	336	160	7.51	9.37	242	62	0.01	0.02			1.40	61	1.98	7.9	7.9	0.69
29		0.72	330	150	7.44	9.39	220	68	0.01	0.01			1.40	58	1.79	9.9	8.3	0.72
30		0.67	334	164	7.46	9.36	242	66	0.01	0.01			1.39	61	1.83	8.0	8.7	0.67
31		0.71	336	162	7.54	9.35	244	64	0.01	0.02			1.40	62	1.88	7.7	7.1	0.71
AVG		**0.69**	**336**	**166**	**7.5**	**9.4**	**242**	**69**	**0.01**	**0.01**	**0.35**	**0.02**	**1.40**	**59**	**1.99**	**8.46**	**8.57**	**0.69**
MAX		**0.74**	**348**	**176**	**7.6**	**9.5**	**250**	**76**	**0.02**	**0.02**	**0.35**	**0.02**	**1.45**	**62**	**2.31**	**9.90**	**9.30**	**0.74**
MIN		**0.64**	**328**	**150**	**7.1**	**9.2**	**220**	**62**	**0.01**	**0.01**	**0.35**	**0.02**	**1.28**	**56**	**1.79**	**7.70**	**7.10**	**0.64**

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

This form is valid 12/1/2024 to 11/30/2029

Facility Name: BOONE CITY OF STP

Permit #: 0819001

Month/Year: 7 2025

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

Operator Name: John Roberts

Certification #: 10924

Phone #: 7122590805

Lab Cert. #: 156

Comments:

*Include Comments longer than 1000 characters in email

Signature:

John Roberts

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 possibilityof fine and imprisonment for known violations.

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: 7-2025

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	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 / 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	3.964					18.1	598.381656	12	396.71712	1.7	56.201592	68	7.4
2	3.611	59	1776.82866	75	2258.6805							68	7.4
3	3.272	128	3492.92544									68	7.4
4	2.929											68	7.6
5	4.649												
6	3.957												
7	3.559			93	2760.43158							68	7.5
8	3.295					13.7	376.48011	11	302.2833	1.8	49.46454	68	7.4
9	3.128	61	1591.33872	72	1878.30144							68	7.4
10	3.522	43	1263.05964									68	7.4
11	6.636											68	7.5
12	5.369												
13	4.562												
14	4.13			85	2927.757							68	7.3
15	3.96					15.7	518.51448	12	396.3168	1.9	62.75016	68	7.4
16	4.22	91	3202.7268	230	8094.804							68	7.4
17	3.58	67	2000.4324									65	7.4
18	3.502											65	7.4
19	10.271												
20	15.264												
21	8.755			55	4015.9185							68	7.5
22	6.713					12.6	705.428892	4.6	257.537532	0.74	41.4299508	68	7.4
23	6.966	43	2498.14692									68	7.4
24	8.859	41	3029.24646	124	9161.62344							68	7.5
25	6.824											67	7.5
26	5.695												
27	5.36												
28	5.338											68	7.3
29	12.052			59	5930.30712							68	7.4
30	21.084	52	9143.70912	143	25145.20008							68	7.2
31	10.382	17	1471.95996	37	3203.67756							68	7.4
Total	195.408	602	29470.37412	973	65376.70122	60.1	2198.805138	39.6	1352.854752	6.14	209.8462428	1557	170.5
Monthly Avg.	6.303483871	60.2	2947.037412	97.3	6537.670122	15.025	549.7012845	9.9	338.213688	1.535	52.4615607	67.69565217	7.413043478
Daily Max.	21.084	128	9143.70912	230	25145.20008	18.1	705.428892	12	396.71712	1.9	62.75016	68	7.6
Daily Min.	2.929	17	1263.05964	37	1878.30144	12.6	376.48011	4.6	257.537532	0.74	41.4299508	65	7.2
Max. 7/Avg.	7.078857143	93.5	2763.69669	142.5	9161.62344	18.1	705.428892	12	396.71712	1.9	62.75016	68	7.46

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: 7-2025

Mon. Point	FINAL EFFLUENT																								
Parameter	CBOD5		TSS		NH3-N		CHLORIDE		CN(T)		NO3-N		TOT-N		PHENOLS		PHOS		TEMP	PB		TOX CBR	TOX PIM	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	MG/L	LBS/DAY	MG/L	LBS/DAY	MG/L	LBS/DAY	FAHRENHEIT	MG/L	LBS/DAY	NO TOXICITY	NO TOXICITY	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 EVERY MONTH	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY MONTH	1 EVERY MONTH	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	1 TIME PER WEEK	1 TIME PER WEEK	1 EVERY 12 MONTHS	1 EVERY 12 MONTHS	2 TIMES PER WEEK	5 TIMES PER WEEK	GEO. MEAN 1/3 MONTHS
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	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																						06 - NOT REQ / MP	06 - NOT REQ / MP			06 - NOT REQ / MP
LOQ																										
Day: 1					0.1	3.305976			0.0151	0.499202376			13.9	459.530664			1.1	36.365736	68	0.001	0.03305976			8.9	7.9	
2	3	90.34722	4	120.46296	0.1	3.011574													68					8.7	7.9	
3	3	81.86544			0.1	2.728848													68					8.6	7.9	
4					0.1	2.442786													68					8.4	7.9	
5																										
6																										
7			5	148.4103															66					8.6	7.9	
8					0.1	2.74803	120	3297.636	0.0035	0.09618105	12	329.7636	12.7	348.99981	0.0208	0.57159024	1	27.4803	68	0.001	0.0274803			8.7	8	
9	3	78.26256	5	130.4376	0.1	2.608752													68					8.3	7.8	
10	3	88.12044			0.1	2.937348													68					8.5	8	
11					0.1	5.534424													68					8.4	7.8	
12																										
13																										
14			3	103.3326	0.1	3.44442																				
15					0.1	3.30264			0.0035	0.1155924			14.72	486.148608			0.81	26.751384	68	0.001	0.0330264			8.6	8	
16	3	105.5844	4	140.7792	0.1	3.51948													68					8.5	7.9	
17	3	89.5716			0.1	2.98572													66					8.6	8	
18					0.1	2.920668													66					8.6	8	
19																										
20																										
21			6	438.1002															65					8.7	7.9	
22					0.15	8.397963			0.0035	0.1959247			10.76	602.4138792			0.43	24.0741606	68	0.001	0.05598642			8.6	8	
23	3	174.28932			0.3	17.428932													68					8.6	8	
24	3	221.65218	4	295.53624	0.1	7.388406													68					8.6	7.8	
25					0.1	5.691216													67					8.6	8.1	
26																										
27																										
28					0.1	4.451892													68					8.6	8	
29			3	301.54104	0.1	10.051368													68					8.7	8	
30	3	527.52168	6	1055.04336	0.1	17.584056													68					8.5	7.6	
31	4	346.34352	9	779.27292	0.35	30.305058													68					8.7	7.9	
Total	31	1803.55836	49	3512.91642	2.8	142.789557	120	3297.636	0.0256	0.90892296	12	329.7636	52.08	1897.092961	0.0208	0.57159024	3.34	114.6715806	1486	0.004	0.14955288			189	174.3	
Monthly Avg.	3.1	180.35836	4.9	351.291642	0.123809524	6.799502714	120	3297.636	0.0064	0.226732074	12	329.7636	13.02	474.2732403	0.0208	0.57159024	0.835	28.66789515	67.54545455	0.001	0.03738822			8.590909091	7.922727273	
Daily Max.	4	527.52168	9	1055.04336	0.35	30.305058	120	3297.636	0.0151	0.499202376	12	329.7636	14.72	602.4138792	0.0208	0.57159024	1.1	36.365736	68	0.001	0.05598642			8.9	8.1	
Daily Min.	3	78.26256	3	103.3326	0.1	2.442786	120	3297.636	0.0035	0.09618105	12	329.7636	10.76	348.99981	0.0208	0.57159024	0.43	24.0741606	65	0.001	0.0274803			8.3	7.8	
Max. 7/Avg.	3	197.97075	5	295.53624	0.15	8.6716818	120	3297.636	0.0151	0.499202376	12	329.7636	14.72	602.4138792	0.0208	0.57159024	1.1	36.365736	68	0.001	0.05598642			8.64	7.98	

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

UPGRADE PROGRAM		July 2025				
DATE	**ADDRESS**	**ORIG INSTALL**	**Note**	**Low**	**Med**	**High**
7/1/2024	1116 W 6th	8/3/2004				
7/8/2025	1102 Ida Pl	New Service				
7/11/2025	1530 Tama	2/16/2000				
7/11/2025	1307 Aldrich	1/21/2015				
7/15/2025	1827 Carroll	3/23/2005				
7/15/2025	1010 Ida	New Service				
7/16/2025	1425 W 8th	New Service				
7/16/2025	714 Ringold	New Service				
7/17/2025	1622 Hancock H	4/4/2016				
7/17/2025	1622 Hancock L	6/24/2016				
7/17/2025	1822 Tama	2/28/2005				
7/18/2025	1203 Southview	New Service				
7/28/2025	359 S Marion	10/30/2014				
7/24/2025	235 13th	120/02/14				
7/24/2025	227 S Marion	6/8/2000				
7/23/2025	1227 Tama	12/16/1999				

Curb Box Repair Update for 8/18/2025 – as of 8/11/2025

$4,014.53 was collected during shut offs. 24 accounts qualified to be on the list.

170 stop boxes need repaired, 73 of which have lead service lines.

22 delinquent bills totaling $4,297.20 certified on July 29th and if left unpaid, 16 delinquent water bills totaling $4,998.42 are scheduled to certify on August 25th.

Lesli Vote
Utility Billing Supervisor