



340 1st Avenue East, Dyersville, Iowa 52040 • Phone: 563-875-7724 • Fax: 563-875-8238

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**To:** Mayor Jacque and City Council Members  
**Cc:** Mick Michel, City Administrator  
**From:** John F. Wandsnider, PE – Public Works Director/City Engineer  
**Date:** October 16, 2024  
**Subject:** Public Works Report: September 12 – October 15, 2024

Things have been operating well over the last month or so in Public Works.

**Operation and Maintenance of Fleet, Highways, Streets, Alleys, Parks, Trails, Rivers, Creeks, etc.**

The streets and fleets arm of Public Works is doing an excellent job with normal late-summer activities in the operations and maintenance of Dyersville's pavement and drainage systems and equipment. We have started sweeping leaves this month and will continue sweeping until a majority of the leaves have fallen, expected sometime in November. As usual, we are reminding citizens that they are not allowed to rake or blow leaves to the streets.

We have also begun preparing for the upcoming winter season. We have been busy changing oil, wiper blades, checking tires and tire-pressures and other essentials that are involved in preparing the equipment for the upcoming winter months. The two plow/spreader trucks, two plow/dump trucks, the front-end loader, and the skid-loader are all being made ready for the heavier work-load they are needed for over the winter. Our goal every year is to have everything ready by mid-October. The contracts for snow-removal on the sidewalks, trails, and parking lots have been renewed for this year at the same rate as last winter.

River City resurfaced 6<sup>th</sup> Street NW a few weeks ago. This one was on Dave's list, but had gotten pulled off many times over recent years. This is the final street maintenance project planned for this season.

Several from Public Works are working to install the new lights at Candy Cane Park and West Side Park. We intend to have them up and operating before Thanksgiving. The weather has been on our side so far – hopefully this will continue.

**Operation and Maintenance of Drinking Water Delivery and Wastewater Disposal Systems**

The drinking water source, storage, treatment, and distribution systems are serving the city well. The wastewater collection, pumping, treatment, and disposal systems are also operating well. Please refer to the Water report for September and the Wastewater reports for August and September, below.

We have a good inventory of both compost and mulch available to the public at the wastewater treatment plant.

**Improvement and Expansion Projects**

**Castle Hill – 4<sup>th</sup> Addition (added 7/24)**

Construction of sanitary sewer and water main **continues**. It is quite slow-going due to the presence of limestone bedrock very near to the surface in many areas (**see photo**). Roadway subgrade and base work **continues** as well. **They plan to begin paving some of the streets in the next few weeks.**

**Lake View Estates (added 7/24)**

**I believe most of the public utilities are in. Roadway subgrade and base work is complete. They plan to complete the paving of the streets in the next few weeks.**

1<sup>st</sup> Avenue West - Old Highway Road - Rehabilitation (Added 2/24)

Meeting with Street Committee is being scheduled for this fall.

Downtown Streetscape Rehabilitation (Added 4/23)

The contractor returned to finish the improvements and clean things up. We are planning to finish the east side of the river in FY-25, and the west side on FY-26.

Hwy 52 Manhole Replacement at 2<sup>nd</sup> Avenue (Added 11/21)

We are meeting to further define the scope of this project. It is important that we replace any of the failing sewer infrastructure beneath US 52 while we have the traffic detoured. Meeting with the DOT in the near future as well. **Plan is for work to be done in May, 2025.**

Downtown Businesses Accessibility – (Added June, 2021)

Elsewhere in your packet is my preliminary Design Report for the ramp for The Ritz and the Dyersville Family Restaurant.

20 West Industrial Park, Phase III Rise Grant App. (Added August, 2022)

Paving has been complete. **Lights are all that remain (and maybe some rain to water the grass seed...)**

Field of Dreams Stormwater Wetland and Mitigation (Added to list in April, 2020)

A map showing areas requiring attention has been prepared by the engineer. Work is expected this **fall**. A live streaming camera of the site is available for viewing at: <https://video.nest.com/live/G4AGPm8tkR>

Dyersville East Road Water and Sewer Extension 2020 (Added to list March, 2020)

**Substantial completion has been issued for the Contract E Water and Sewer project. Top Grade Excavating has inquired about payment of retainage and Origin has instructed them to submit required subcontractor/supplier notification paperwork in order to process early release of retainage.**

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# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Terry Recker, Water Operator  
**Date:** October 8th, 2024  
**Subject:** **Water Operation September 2024 Report**

## **Water Pumped**

Total Water Pumped for Month	12,832,000 Gallons
Average Pumped per Day	428,000 Gallons
Maximum Daily Pumped	734,000 Gallons

## **Chlorine Testing**

Average Free Chlorine in the System –	1.60 mg/l
Average total Chlorine in the System -	1.67 mg/l

## **Polyphosphate**

Average Residual at Well #4&#5	0.97 mg/l
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## **Water Call Outs**

0 for the month  
Total for the year – 0

## **Water Main Breaks**

0 for the month  
Total for the year – 0

## **Water Activities**

113-Line Locates Completed  
36-Water Work Orders Completed

## **Operations and Maintenance**

Bacteria samples were taken, and the results were negative. The monthly operating report was completed and sent to the DNR. Preventative maintenance was completed at Well#4 and #5, including exercising water valves and doing well draw down at both wells. Daily rounds were completed for the month at both wells. Meter reading was also completed this month. I have the LSLI ready to be uploaded to the IDNR portal. We are trying to get information from the last 10 residents before I sent the final copy to the IDNR. Towards the end of September, Joe and I flushed all the dead-end hydrants throughout the city. We also started to winterize the pool to shut it down for the season.

Water Operator in Charge,  
Terry Recker

# Memorandum

**To:** Mayor, City Council Members and City Administrator

**From:** Wastewater Operator

**Date:**

**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 15,234,000 Gallons

Average Flow per Day 491,000 Gallons

Maximum Daily Flow 579,000 Gallons

Average Influent Biochemical Oxygen Demand 193.5 mg/l

Plant loading pounds per day of 820lbs. plant design loading 2400lbs. per day

Average Influent Total Suspended Solids 188mg/l.

Plant loading pounds per day 795lbs. plant design loading 3600lbs. per day.

Average Influent Total Nitrogen 29.05 mg/l

Plant loading pounds per day 136lbs.

Average Influent Phosphorous 4.73 mg/l.

Plant loading pounds per day 21lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	1.3mg/l	Limit - 25 mg/l
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T.S.S. Monthly Average	.8mg/l	Limit - 30 mg/l
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Ammonia Monthly Average	.01mg/l	Limit – 13 mg/l
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Total Nitrogen	10.2lbs per day	Yearly Average 88lbs per day
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Phosphorus	3.9lbs per day	Yearly Average 24lbs per day
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E-coli	mg/l	Limit 126 MPN
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## **Sewer Call Outs** – 1 for the month at the Treatment Plant.

Total for the year – 8

Routine maintenance of the plant and lift stations. And we had some contractors come to look at the rehab of the west plant. We did go ahead with ordering the new fiberglass baffles to replace the aluminum ones that are falling apart and placed the order for the new DO probes and SC4500s that are needed for the west OX ditch. We were planning to start the rehab of the west side clarifiers this fall and do one in fiscal year 2025 and the other in fiscal year 2026, but now it sounds like we will continue the rehab sometime in the future.

We did have a backup at 420 2<sup>nd</sup> St SE which left the homeowner with sewer in their basement. We worked quickly to resolve the problem with our trailer jet unit. After a camera inspection we found a few spots that need repair. We are having them repaired in September.

We are still waiting on the Jetter truck for our yearly maintenance. I was scheduled to be here in June, but the unit came back broken, so McQueen's have been waiting on parts.

# Memorandum

**To:** Mayor, City Council Members and City Administrator  
**From:** Wastewater Operator  
**Date:** 10/16/24  
**Subject:** **Wastewater Operations –**

## **Influent Flows**

Total Treated for Month 13,996,000 Gallons  
Average Flow per Day 466,000 Gallons  
Maximum Daily Flow 572,000 Gallons  
Average Influent Biochemical Oxygen Demand 183 mg/l  
Plant loading pounds per day of 782 lbs. plant design loading 2400 lbs. per day  
Average Influent Total Suspended Solids 159 mg/l.  
Plant loading pounds per day 673 lbs. plant design loading 3600 lbs. per day.  
Average Influent Total Nitrogen 34.9 mg/l  
Plant loading pounds per day 158lbs.  
Average Influent Phosphorous 5.36mg/l.  
Plant loading pounds per day 24lbs.

## **Effluent Testing**

C.B.O.D. Monthly Average	1 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	.5 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	0 mg/l	Limit – 13 mg/l
Total Nitrogen	20lbs per day	Yearly Average 88lbs per day
Phosphorus	2.6lbs per day	Yearly Average 24lbs per day
E-coli	1.2 mg/l	Limit 126 MPN

**Sewer Call Outs** – 0 for the month at the Treatment Plant.  
Total for the year – 8

Well, the jetter truck showed up and we have been very busy with keeping the truck moving. Hopefully we will get the section of town complete before we return the truck.

I have been busy working on our NPDES permit renewal for the plant that is due Nov 1<sup>st</sup>. There is a lot of stuff and testing that goes into the permit renewal process and along with the permit renewal we also lining up sludge testing and equipment for the fall application of our sludge at a nearby farm field.

We continue do weekly testing and weekly maintenance at the plant as we also prepare the plant for the winter months.