



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: January 15, 2025
Subject: Public Works Report: December 11, 2024 – January 14, 2025

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 winter activities in the operations and maintenance of Dyersville's pavement and drainage systems and equipment. After the minor ice storm that occurred a month ago, we have seen very little snowfall/icy conditions. We have had to treat the streets a handful of times, but the plows have not touched the pavement very much at all this season. Of the 500 tons of salt planned for, we estimate that we have used about 125 tons, to-date. Christmas decorations were taken down and put away this week.

The repairs to the street sweeper appear to be ahead of schedule. The welding work has been completed and it has been moved to the painter for sand-blasting, painting, new seals, and new decals. We expect it to be completed in less than a month.

We continue to work to complete the install of the wires and controllers for the lights at Candy Cane Park and West Side Park.

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 December, and the Wastewater reports for both November and December, below.

Improvement and Expansion Projects

Field of Dreams Movie Site Roadway (added 11/24)

Contract and bidding documents, including the plan drawings and specifications, and a cost-estimate are about 75 - 80% complete and will be completed and made available by the middle of next week.

Castle Hill – 4th Addition (added 7/24)

Project is substantially complete. The improvement will be field-reviewed together by the Developers Engineer and the City Engineer next week.

Lake View Estates (added 7/24)

The utilities and the paving have been completed within the subdivision. The sanitary sewer extension across other private property has yet to be installed. This is expected to be completed by Spring. The developer's engineer has maintained a presence on the site when appropriate to help to ensure a quality product.

1st Avenue West - Old Highway Road - Improvement (Added 2/24)

Meeting with Street Committee is **yet to be** scheduled.

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 2nd Avenue (Added 11/21)

Plan is for work to be done in May, 2025.

Downtown Businesses Accessibility – (Added June, 2021)

We met with the owners of DFR **and The Ritz** and presented the design. They were **both** very supportive. **Plans are being finalized.**

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

Paving has been complete. Street lights have been installed. Project is substantially complete.

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.

- END -

Memorandum

To: Mayor, City Council Members and City Administrator
From: Terry Recker, Water Operator
Date: December 3rd, 2024
Subject: **Water Operation December 2024 Report**

Water Pumped

Total Water Pumped for Month	12,074,000 Gallons
Average Pumped per Day	389,000 Gallons
Maximum Daily Pumped	603,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.71 mg/l
Average total Chlorine in the System -	1.78 mg/l

Polyphosphate

Average Residual at Well #4	1.14 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

52-Line Locates Completed
33-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. Most of this month Joe and I worked ball field lighting and walkway lighting at Westside and Candy Cane parks.

Water Operator in Charge,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 12/11/2024
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 14,658,000 Gallons
Average Flow per Day 488,000 Gallons
Maximum Daily Flow 605,000 Gallons
Average Influent Biochemical Oxygen Demand 201mg/l
Plant loading pounds per day of 873lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 146 mg/l.
Plant loading pounds per day 639 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 25 mg/l
Plant loading pounds per day 119lbs.
Average Influent Phosphorous 3.6 mg/l.
Plant loading pounds per day 16lbs.

Effluent Testing

C.B.O.D. Monthly Average	.75 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	.25 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.47 mg/l	Limit – 8.8 mg/l
Total Nitrogen	20lbs per day	Yearly Average 88lbs per day
Phosphorus	1.96lbs per day	Yearly Average 24lbs per day

Sewer Call Outs – 1 for the month at the Treatment Plant.

Total for the year – 8

It was a busy month at the Treatment Plant. We have hopefully everything ready for winter months. We had our next round of testing results come back for our permit renewal. The results looked good for the new permit.

It was another good year with the disposal of our sludge. We again rented a tractor and spreader for the transporting and land applying of our sludge. The plant produced 1,986,000 gallons of sludge which weighs down to 435.6 wet tons. Terry hauled 33 loads with the help of Joe running the end loader to land apply on 24.7 Acres. The process has begun to get our EPA report ready for the Feb 2025 deadline.

Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 01/13/2025
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 14,434,000 Gallons
Average Flow per Day 465,000 Gallons
Maximum Daily Flow 546,000 Gallons
Average Influent Biochemical Oxygen Demand 293 mg/l
Plant loading pounds per day of 1138 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 261 mg/l.
Plant loading pounds per day 1008 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 41 mg/l
Plant loading pounds per day 171 lbs.
Average Influent Phosphorous 6.8 mg/l.
Plant loading pounds per day 28lbs.

Effluent Testing

C.B.O.D. Monthly Average	1.8mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	1.75mg/l	Limit - 30 mg/l
Ammonia Monthly Average	0 mg/l	Limit – 9.4 mg/l
Total Nitrogen	28 lbs per day	Yearly Average 88lbs per day
Phosphorus	3.3lbs per day	Yearly Average 24lbs per

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

We have been working on winter maintenance and have been having some icing issues with the oxidation ditch and digester and with continue to work on them to achieve the best operation that we can have for this time of year.