

To: Mayor Jacque and City Council Members
Cc: Mick Michel, City Administrator
From: John F. Wandsnider, PE – Public Works Director/City Engineer
Date: March 14, 2024
Subject: Public Works Report: February 15 – March 13, 2024

Things have been operating well, for the most part, in the Public Works Department.

New ‘Digs’ for the Public Works Director

That’s right, since the recent (last few years) addition of the Medium Conference Room to City Hall, the small conference room off the reception area has not seen much use. As of last Monday, it has become the new ‘home’ of the Public Works Director/City Engineer’s office. Please feel free to drop by for a visit!

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 the operations and maintenance of Dyersville’s streets system and equipment. We continue to experience unseasonably warm and mild conditions – nobody is complaining! We have used very little road-salt since my last report. As time and conditions allow, we have been filling potholes and repairing and maintaining equipment.

We pulled the street sweeper out of winter storage and have been cleaning the streets over the last few weeks. We concentrated especially on the parade and ‘gallop’ routes this week. We plan to have the flags up, traffic-control devices, and ‘no parking’ signs out in time for the events.

Ordering for new trucks through Truck Country opened March 1. As authorized, we have placed the order for the replacement of our second of the two 2014 dump-truck/material spreaders. The new Western Star is expected sometime after third quarter, 2024.

Operation and Maintenance of Drinking Water Delivery and Wastewater Disposal Systems

The water and wastewater operations arm of Public Works is also doing an excellent job maintaining Dyersville’s 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 below reports from water and wastewater operations, respectively.

Our two newest employees, Tanner Lueck and Terry Menke began a four-day Wastewater Operator Grade 1 training class at Kirkwood college in Cedar Rapids this week. They went Tuesday and Wednesday, and will go again next Tuesday and Wednesday.

Statuses of Improvement Projects

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

Last month I reported that we had begun planning for utilizing operations dollars toward the rehabilitation of this facility. Following feedback from the City Council, we will be, instead, performing a Preliminary Engineering Study to compare options for this improvement.

Downtown Streetscape Rehabilitation (Added 4/23)

A majority of the downtown streetscape is 20 years old this year! We intend to perform the rehabilitation out of our operations budget, and phase it over about 5 years. The first phase of the project is the streetscape portion (behind the curb to the building line) of the 3rd and the 4th Street intersections and the block between them. All 6 limestone medallions will be reset, this time on concrete, and the cracked and deteriorating buff-colored handicap panels will be replaced with black powder-coated cast-iron panels. A small portion of the colored and stamped concrete will need to be replaced due to excessive cracking and settling. **Work is expected to begin within the next month or two.**

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

The DOT requires engineered construction plans with a complete traffic-control plan in order to issue a permit for this work to be done. Design work is proceeding and plan drawings are in production for construction this summer.

Downtown Businesses Accessibility – (Added June, 2021)

Once money is available to develop a program to address this issue, design/construction activities will begin on a phase of the work as directed.

Legacy Square – Stage (Added Spring 2021)

The controller was apparently faulty. A new one was installed this week and things seem to be working.

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

Construction of the Contract C double-box-culvert has been completed. Contract D including roadway storm sewer, concrete paving, and lighting is planned for bidding in the spring of 2024 and construction in summer 2024.

1st Avenue W. Bridge Over Bear Creek – Deck Overlay (Added May, 2022)

The final construction cost was \$494,512.09. This represents a reduction in cost of \$61,480.39 below the bid price of \$555,992.48.

3rd Avenue SW Bridge (Added to list in February, 2022)

Needs further evaluation

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

Project substantially complete. Temporary erosion control seeding has been placed. Permanent bluegrass seeding has been completed both north and south of Beltline Rd. Native seeding was performed in late November 2022. A map showing areas requiring attention has been prepared by the engineer. Work is expected this spring. 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)

Contract B Water Main construction is complete and project is ready for city acceptance. Meeting has taken place with controls integrator for Contract C Water Pumping Station and start-up is being scheduled for the week of March 19. Construction for Contract D Lift Station and Linear Sewer Onsite with Portzen Construction is substantially complete with some punch list items remaining to be completed. Construction is complete on the Sanitary Sewer and Force Main (EDA Contract) with Tschiggfrie Excavating. Construction is complete on the original work under Contract E with Top Grade Excavating. The additional change order work to provide utilities to the existing FOD facilities has been completed.

Heritage Trail Pavement Extension (Added to list January 2020)

The engineer has submitted the final documents to the DOT for the mandatory audit.

Respectfully submitted,

John F. Wandsnider, PE - Public Works Director / City Engineer
Email: jwandsnider@cityofdyersville.com cell: 563-587-9131

Memorandum

To: Mayor, City Council Members and City Administrator

From: Terry Recker, Water Operator

Date: March 12th, 2024

Subject: **Water Operation February 2024 Report**

Water Pumped

Total Water Pumped for Month	10,739,000 Gallons
Average Pumped per Day	370,000 Gallons
Maximum Daily Pumped	523,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	2.06 mg/l
Average total Chlorine in the System -	2.15 mg/l

Polyphosphate

Average Residual at Well #4	1.42 mg/l
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Water Call Outs

0 for the month
Total for the year – 6

Water Main Breaks

0 for the month
Total for the year – 7

Water Activities

21- Line Locates Completed
18-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. Joe and I flushed all dead-end hydrants in town the third week of February to maintain good water quality in the dead-end mains. I had an inspection with Amber Sauser with the IDNR on February 13th. The inspection went very well with only a few minor deficiencies to take care of. You can see the full report in the council packet. Start up for the NE Booster Station will begin on April 1st with Automatic Systems doing the programming and then actual startup of the system mid-week. All fiber optic cables were run to each water and wastewater facility to get us one step closer to the full SCADA system. The next step will be programming by Automatic Systems and implementation of the SCADA services.

Water Operator,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator
From: Wastewater Operator
Date: 03/13/2024
Subject: **Wastewater Operations –**

Influent Flows

Total Treated for Month 12,088,000 Gallons
Average Flow per Day 416,000 Gallons
Maximum Daily Flow 495,000 Gallons
Average Influent Biochemical Oxygen Demand 177 mg/l
Plant loading pounds per day of 619 lbs. plant design loading 2400 lbs. per day
Average Influent Total Suspended Solids 128 mg/l.
Plant loading pounds per day 448 lbs. plant design loading 3600 lbs. per day.
Average Influent Total Nitrogen 42 mg/l
Plant loading pounds per day 158 lbs.
Average Influent Phosphorous 12 mg/l.
Plant loading pounds per day 47 lbs.

Effluent Testing

C.B.O.D. Monthly Average	4.1 mg/l	Limit - 25 mg/l	
T.S.S. Monthly Average	5.6 mg/l	Limit - 30 mg/l	
Ammonia Monthly Average	.05 mg/l	Limit – 14.9 mg/l	
Total Nitrogen	16lbs per day	Yearly Average 88lbs per	
Phosphorus	2.3lbs per day	Yearly Average 24lbs per	E-coli
(March-November)	Limit 126 MPN		

Sewer Call Outs – for the month at the Treatment Plant.
Total for the year – 2

The plant has been running well. As the weather gets warm things will improve. We have been taking advantage of the nice weather and getting a head start on system maintenance. Now that Terry is getting a better understanding of day to day operations at the plant, it is a big help to have a second person at the plant to help with testing and day to day operations. And with that said Terry and Tanner started their Classes on March 12 at Kirkwood to work on their getting their Grade 1 wastewater which will also be a good addition to our team.

Updates: We took the camera trailer in for the yearly inspection and have received a clean bill of health and ready for another year of inspecting city sewer/ storm sewers this season. And we have been working on getting some more quotes for repairs that will be needed to get the west plant back to better running order. We hope to make some of these this year, so that the plan hopefully will be to switch the plant over in 2025 so that we can maintenance and clean out the east plant like we did to the west plant.

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