

To: Mayor Jacque and City Council Members
Cc: Mick Michel, City Administrator
From: John F. Wandsnider, PE – Public Works Director/City Engineer
Date: April 11, 2024
Subject: Public Works Report: March 14 – April 10, 2024

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

National Public Works Week – May 19–25, 2024!



The Public Works staff is making plans, along with staff of the James Kennedy Public Library, to celebrate National Public Works Week. Please go to the following website for information on this very worthwhile event:

<https://www.apwa.org/events/national-public-works-week-npww/>

For 2024, we plan to feature vehicles, equipment, and operators from all three divisions - Water, Wastewater, and Streets. We are planning for a special exposition on Tuesday, May 21, from 4:00 to 6:00 in the City parking lot adjacent to the library.

Here is the promo from JKPL:

National Public Works Week Equipment Exhibition: May 21 from 4:00-6:00 pm. The JKPL and Dyersville Public Works are partnering to celebrate National Public Works Week (May 19-25). This year, Public Works will be bringing some of their vehicles and equipment to the library parking lot to show off and talk about how each one is used to help Dyersville. Included will be the street sweeper/vacuum, end-loader, skid-loader, utility crane, sewer camera unit, and a brand-new dump-truck/snow-plow/sand-spreader! In the Hoffmann Room, the library will be showing videos on the many different services Public Works provides as well as how Dyersville's water and wastewater systems operate! All ages welcome.

We hope you can join us!

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 pavement and drainage systems and equipment. It is nice that we did not have to deal with much snowfall over the last month. We were able to get caught up on some equipment maintenance, have started migrating the winter maintenance equipment toward storage, and have been preparing things for spring/summer. We have also been filling potholes and preparing for street pavement maintenance as well as continuing our sign replacement program. Our regular street sweeping regimen is on schedule.

Regarding the street sweeper, we have been gathering data on options for ensuring that our streets are kept clean on into the future. We are weighing options for replacement with a new unit, replacement with a used unit, contracting services, and renting equipment. The last remaining option is to determine a cost for rehabilitating our existing street sweeper to attempt to get 5 - 7 more years out of it. We plan to have this option evaluated next week. Afterwards we should be able to recommend which option would be best for the City of Dyersville at this time.



We have also been working to help Parks and Recreation get the new community gardens ready. We were able to utilize the sod cut out of the garden area for the small playground near Xavier. The parks and ballfields are being made ready for use and the preparing the swimming pool has begun.

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.

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

Statuses of Improvement Projects

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

We have been gathering data to help to identify options and costs of the various approaches for improving this 1.4-mile stretch of roadway. We intend to have this for the second Council meeting in May.

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 the first or second week of May**

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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.

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

Contract D including roadway storm sewer, concrete paving, and lighting is planned for bidding on **May 1. Construction will occur this summer.**

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

The loose concrete hanging off the south side of the bridge will be removed this spring.

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 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 C Water Pumping Station start-up was completed successfully, with only minor issues to be addressed. 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 DOT has approved the project.

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: April 2nd, 2024
Subject: **Water Operation March 2024 Report**

Water Pumped

Total Water Pumped for Month	12,177,000 Gallons
Average Pumped per Day	393,000 Gallons
Maximum Daily Pumped	503,000 Gallons

Chlorine Testing

Average Free Chlorine in the System –	1.95 mg/l
Average total Chlorine in the System -	2.02 mg/l

Polyphosphate

Average Residual at Well #4	1.35 mg/l
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Water Call Outs

1 for the month
Total for the year – 7

Water Main Breaks

0 for the month
Total for the year – 7

Water Activities

93- Line Locates Completed
46-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. Mike Schroeder finished up the second round of Lead Service Line inventories with only a little over 300 services left to complete out of roughly 2100. I will talk with Mick and Lori to see what our next move will be to get the final 300 service lines completed.

Water Operator,
Terry Recker

Memorandum

To: Mayor, City Council Members and City Administrator

From: Wastewater Operator

Date: 03/11/2024

Subject: Wastewater Operations –

Influent Flows

Total Treated for Month 13,163,000 Gallons

Average Flow per Day 424,000 Gallons

Maximum Daily Flow 519,000 Gallons

Average Influent Biochemical Oxygen Demand 197 mg/l

Plant loading pounds per day of 747 lbs. plant design loading 2400 lbs. per day

Average Influent Total Suspended Solids 122 mg/l.

Plant loading pounds per day 465 lbs. plant design loading 3600 lbs. per day.

Average Influent Total Nitrogen 34 mg/l

Plant loading pounds per day 142 lbs.

Average Influent Phosphorous 5.23 mg/l.

Plant loading pounds per day 21 lbs.

Effluent Testing

C.B.O.D. Monthly Average	5.0 mg/l	Limit - 25 mg/l
T.S.S. Monthly Average	5.8 mg/l	Limit - 30 mg/l
Ammonia Monthly Average	.33 mg/l	Limit – 14.9 mg/l
Total Nitrogen	28lbs per day	Yearly Average 88lbs per
Phosphorus	1.3lbs per day	Yearly Average 24lbs per
E-coli	(April-November)	Limit 126 MPN

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

Total for the year – 2

Routine maintenance, and day to day operations. And we have been assisting Tanner in the streets department with day to day operations. We setup the UV disinfection system march 15th. And we will start E-coli testing in April.

Goals for the month we hope to get caught up with some camera inspections and work on some storm sewer inspections. We are still working on quotes for updates and repairs to the west plant.