

**Public Works Department
Monthly Report
December 2022**

Engineering:

2021 Water Main Replacement Project:

Month Activity: Burdick completed the main installation of the 3 connections to South Shores Drive water main from the cul-de-sacs at Hackberry, Timber, and Shoreline Place. Work will continue in January with testing, flushing and chlorination prior to putting into service. Miscellaneous cleanup of the laydown area is also scheduled with final restoration to be completed in the spring.

Project Background: The project was designed by Engineering staff, the 2021 project is in three locations. The newly annexed neighborhood NW of Mound and Greenswitch, a small relocation of watermain on Rea's Bridge Rd near the bridge across lake Decatur, and in South Shores bounded by the streets Bay Shore, Point Bluff and Shoreline. The City received the IEPA permit in March and the project was advertised on March 17, 2021, with bids received on April 7, 2021. The project was awarded to Burdick Co as the lowest responsive bid on April 9, 2021. The start date was delayed due to the unexpected lead time on pipe, pipe is currently part of national material shortages. Burdick has completed the Rea's Bridge Area and Greenswitch Area. Work did not start in South Shores spring due to the delay in materials and after mid-November they cannot be restored with asphalt. Burdick has completed all work in phase 2 of 4.

Ellen and Division Inflow and Infiltration Reduction Project

Month Activity: Service lining wrapped up in December for the winter with a total of 319 of

the approximant 500 services lined. The remaining services to be completed in the spring.

Project Background: The project was designed and advertised by Engineering staff and AECOM on January 5, 2022, with bids received on February 9, 2022. The project included the full rehabilitation by cured in place lining of the sanitary sewers and service laterals. The City received three bids with National Water Main Cleaning Co. (NWMCC) providing the lowest responsive bid. The project was awarded to on February 22, 2022. NWMCC mobilized in April.

Lake Grove Club Retaining Wall

Month Activity: The wall was completed in December. The fence, seeding and final cleanup will commence in the spring.

Project Background: The project was designed and advertised by Engineering staff and Clark Dietz Engineering on March 30, 2022, with bids received on April 20, 2022. The project replaces an existing railroad tie retaining wall that has reached the end of its useful life. The City received two bids with Clippers Lawn and Landscaping providing the lowest responsive bid. The project was awarded by City Council to Clippers on May 16, 2022. The City has received and approved the shop drawing for ordering of the material in late July and it is expected work to begin in August. Clippers mobilized in August and started the project by removing the existing wall. Clippers then notified the City that they will be permanently closing and not completing the work. A settlement with the bonding company was reached in September. The contract with Kinney Contractors was approved on October 3rd to complete the retaining wall with work starting in early November.

2022 Manhole Rehabilitation Project

Month Activity: All work was completed in December.

Project Background: The project was designed and advertised by Engineering staff on June 22, 2022, with bids received on July 13, 2022. The project will rehabilitate brick manholes at various locations. The City received three bids with Culy Contracting providing the lowest responsive bid. The project was awarded by to Council at the August 1st meeting.

2022 State Motor Fuel Tax - Asphalt

Month Activity: The paving of Wood St and Chestnut is complete with the remaining paving work shut down for the winter. The remaining work will commence in the spring.

Project Background: The project was designed and advertised by Engineering staff on July 27, 2022 with bids received on August 10, 2022. Dunn Company provided the lowest responsive bid, and the contract was awarded by City Council on August 15, 2022. The concrete and water service work is scheduled to start on September 6 with paving to commence on each street once complete.

**MUNICIPAL SERVICES MONTHLY DATA
DECEMBER 2022**

ASPHALT	QUANTITY	HOURS	OTHER INFO
Dura Patcher (spray)	260 patches	131	
Miscellaneous / Asphalt	0	0	
Pothole Patch / Repair	732	166.5	
Street Repair / Asphalt	6.10 sq yds	6	
Snow Fence Installed	linear ft	0	
CONCRETE	QUANTITY	HOURS	OTHER INFO
SS Utility Cuts / Curb & Gutter	28	30	
SS Utility Cuts / Driveway	0	0	
SS Utility Cuts / Pavement	0 sq yds	0	
SS Utility Cuts / Sidewalk	0 sq ft	0	
Water Dept Cuts / Curb & Gutter	44 linear ft	17	
Water Dept Cuts / Driveway	4 sq yds	6.25	
Water Dept Cuts / Pavement	171.65 sq yds	253.75	
Water Dept Cuts / Sidewalk	77 sq ft	82	
DOWNTOWN PARKS	QUANTITY	HOURS	OTHER INFO
Downtown Maintenance		114	
Flowerbed Maintenance		2	
Fountain		0	

Mowing / Downtown Parks		15	
Special Events / Downtown Parks		0	
ELECTRICAL	QUANTITY	HOURS	OTHER INFO
Miscellaneous Electrical		0	
Service Calls / Other Departments		0	
Street Light Maintenance		29.9 Straight / 2 OT / 19 HC	
Traffic Signal Repair		182 Straight / 38 OT / 21 HC	
Warning Siren Maintenance		19	
FLEET	AVAILABILITY	BILLABLE HOURS	OTHER INFO
Fleet Tasks	96.64%	708.64	
FORESTRY	QUANTITY	HOURS	OTHER INFO
Miscellaneous		0	
Mowing City Lots		0	
Mowing City Property / ROW		0	
Mowing City Property / State ROW		0	
MSC Maintenance		39	
New Tree Care & Maintenance		0	
Pesticide Application		0	
Storm Damage Clean-up		42	
Stump Removal	30	92.5	
Tree Removal	737 (inch diameter)	543	
Tree Trimming	2	9	

Vegetation Removal	0	0	
PARKING	QUANTITY	HOURS	OTHER INFO
Mail Delivery		20	
Parking Lots/Garage Maintenance		42	
Parking Meter Collection		12	
Parking Meter Repair		6	
Special Projects / Parking		56	
STREET MAINTENANCE	QUANTITY	HOURS	OTHER INFO
Alley Grading	42,500 linear ft	87.5	
Catch Basin / Pumped	42	38 Straight / 4 OT	
Catch Basin / Repaired	3	22	
Culvert / Installed	0 linear ft	0	
Culvert / Jetted	22 linear ft	2	
Ditch Cleaning	100 linear ft	2	
Sanitary Back-up / Jetted	7,954 linear ft	52 Straight / 21 OT	
Sanitary Sewers / Repaired	1	4	
Sanitary Sewers / Cleaned	0 linear ft	0	
Sanitary Sewers / Jetted	0 linear ft	0 Straight / 0 OT	
Sanitary Sewers / Roots	179 linear ft	4	
Street Cleaning / 3 rd Shift	52.9 miles	18	
Street Cleaning / State Routes	25.7	7.5	
Street Cleaning / Neighborhoods	62.79	403	

Street Cleaning / Priorities	64.50	37	
Storm Sewer / Repaired	0	0	
TRAFFIC	QUANTITY	HOURS	OTHER INFO
Decals Made	214	9	
Miscellaneous Traffic Control		28	
Signs / Installed	14	38	
Signs / Made	16	102.5	
Signs / Repaired	12	48	
Striping / Paint	0 feet	0	
Striping / Tape	0 feet	0	
Symbols / Paint	0	0	
Symbols / Thermoplastic	0	0	
Traffic Control (set up & removal)		60	
VIOLATION RESPONSE	QUANTITY	HOURS	OTHER INFO
72-hour / City Property	0	0	
72-hour / Clean-Up	86	327	
72-hour / Clean-Up Court Time		0	
Abatements (weed & brush)	0	0	
Home Secures	23	47	

**Water Production Division
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DeWitt County Wellfield Improvements: INTERA Inc. tested the wellfield's performance and water quality and continued assessing the site's power supply options.

Lake Decatur Landscape Maintenance: The site at the intersection of M. L. King Jr. Dr. and Lake Shore Dr. is planned for a prescribed burn in early 2023. The annual tree and brush removal project was completed by Homer Tree Care in October adjacent to Lost Bridge.

Lake Decatur Water Level: Lake Decatur was maintained at an average level of 612.8 feet (87% full) which is normal for December.

Lake Decatur Watershed Management Plan: Staff and Northwater Consulting continued meeting with the USDA and partners on how the City's five year \$9.88M RCPP grant will be structured and administered. One City funded BMP construction project was completed. Work continued on the 2020 \$150,000 IEPA Section 319 grant BMP projects and subwatershed planning. IEPA is anticipated to announce in the coming weeks if the City's 2021 Section 319 grant application is funded. Northwater Consulting continued implementing and operating the watershed water quality monitoring network and completing work on the Lake Decatur bathymetry survey report, plans to construct several high priority Best Management Practices (BMPs), work on the Sand Creek, Friends Creek, Wildcat Creek and Willow Branch subwatershed plans, and the 2022 IEPA Section 319 grant application consisting of critical BMPs, other sediment reduction projects and additional subwatershed planning.

Oakley Sediment Basin Drainage Improvements: A prescribed burn of the basin is planned for early 2023 to remove enough vegetation so that a basic topographic survey can be completed.

South Water Treatment Plant East Clarifiers to Claricones Conversion: As of this month Plocher Construction has completed 55% of this project.

Vulcan Pit, Rhodes Landfill and Source Water Protection Plan: INTERA Inc. continued work on the Vulcan Pit new pipeline design and Rhodes Landfill environmental documentation review.

Water Production: Processed 35 boil orders due to extremely cold weather. Analyzed water quality samples for Lake Decatur Watershed Management Plan monitoring. 584.11 million gallons of potable water were pumped into the water distribution system which was 5.06% more than December 2021.

Performance Outcomes:

1. Meet or exceed the federal and state drinking water standard for turbidity, chlorine and nitrate. All of these standards were met or exceeded this month.
2. Monitor safety on Lake Decatur by recording the number of boat accidents and boat operating under the influences (OUIs) on the lake annually. No accidents nor OUIs occurred in December.
3. Reduce the amount of sediment accumulating in the lake annually. The 2021 monitoring summary for this outcome was provided to the City Council in January.

December 2022

Water Services:

Staff repaired 27 water main failures, 33 water services and 2 fire hydrants. Inspected 45 system valves, 2 fire hydrants and completed 1,034 Utility Billing service orders and 47 miscellaneous distribution system orders.

Staff also assisted with the 2021 Water Main Replacement Project testing and inspection.