November 16, 2020 Mayor & City Council Members City of Waverly

EXECUTIVE SUMMARY OF THE 2019-20 PUBLIC WORKS DEPARTMENT ANNUAL REPORT

Highlights of the 2019-20 fiscal year for the Public Works Department are summarized for quick review. The following 10 divisions represent the Public Works Department's primary areas of responsibility. This executive summary is not meant to be inclusive of all activities, but rather a snapshot of the highlights over the past year. Detailed information is provided in the attached annual report.

Division 1 – Public Works Administration

Public Works Administration is responsible for coordinating and overseeing public improvement projects. Over the past year many projects were either under construction or in the study phase. (Cost includes employee charges to project.) Projects include:

<u>Projects</u>	<u>Initiated</u>	<u>Finalized</u>	Cost
Airport Land Acquisition (Cost = Land \$ minus Grant \$) IA Hwy 3 (Bremer Ave.) Reconstruction 2017 & 2018	June 2012	Sept. 2020	\$126,399
\$12.1M IDOT project with local cost share 20th Street NW Recon. – Ph. 1 RR Crossing Impr.	April 2016	2019	\$4,200,000
At 20 th St. NW & 5 th Ave. NW 2018	Jan. 2017	not final	-
Cedar River Parkway (East) 2018	Jan. 2017	Nov. 2019	\$9,998,506
Airport Runway 29 Extension 2018	Aug. 2017	not final	-
Adams Pkwy Bridge Repair & Horton Rd. 2018	June 2018	Aug. 2019	\$445,606
WPC Facility Improvements 2020	March 2018	not final	-
Cedar Lane Reconstruction 2019	Aug. 2016	May 2020	\$984,092
Bituminous Seal Coat Program 2019	Jan. 2019	Sept. 2019	\$157,748
Slurry Seal Program 2019	Jan. 2019	Oct. 2019	\$193,000
Crack Cleaning & Filling Project 2019	March 2019	Sept. 2019	\$20,937
Sanitary Sewer Manhole Rehab 2019	March 2019	Nov. 2019	\$20,974
Asphalt Patching – Spring 2019	March 2019	July 2019	\$26,734
Dog Park Sidewalk 2019 (Total \$35,000 Donated		•	. ,
· · · · · · · · · · · · · · · · · · ·	March 2019	July 2019	\$34,987
4 th St. SW & 10 th St. SW Improvements 2020	Aug. 2018	not final	-
20 th Street NW Improvements 2020	June 2019	not final	-
Downtown Alley Reconstruction 2019	July 2019	Oct. 2019	\$31,000

Projects (Cont'd)	<u>Initiated</u>	<u>Finalized</u>	Cost
E. Bremer Ave. San. Sewer Main Ext. 2019	July 2019	Feb. 2020	\$197,980
Infrastructure Modeling – Water & Sewer	June 2019	Feb. 2020	\$74,000
Airport Obstruction Removal 2020	April 2019	June 2020	\$160,110
Business 218 North Resurfacing 2020	May 2019	not final	-
Rolling Prairie Trail Extension 2021	March 2019	not final	-
School Ped Ramp Construction 2019	April 2019	Sept. 2019	\$14,407
Cedar River Park (Youth Ballfields)	Sept. 2019	not final	-
Asphalt Patching – Fall 2019	Aug. 2019	Nov. 2019	\$83,286
GIS Data Collection 2019	June 2019	not final	-
Bituminous Seal Coat 2020	Jan. 2020	not final	-
Downtown Alley Reconstruction 2020	March 2020	not final	-
Crack Cleaning & Filling 2020	March 2020	not final	-
Sanitary Sewer Lining Project 2020	March 2020	June 2020	\$89,728
Asphalt Patching – Spring 2020	April 2020	June 2020	\$21,871
Old WPC Dome Demolition	April 2020	not final	-
Traffic Study 2020	Sept. 2019	not final	-
Public Services – North Addition 2021	Dec. 2019	non final	-

Total value of work **finalized** between July 2019 thru June 2020 \$ 16,881,365

Subdivision w/ Public Infrastructure	Final Plat Approved	Public Improve. <u>Accepted</u>	Lots	Streets (<u>Feet)</u>
Cedar River Parkway Extension (east) Whitetail Bluff (35 Lots & 1,821 LF Street)	July 20, 2020	Nov. 2019 not final		5,721
Total Completed for	July 2019 thru Newly Accept		0 =	<u>0</u> 1.08 mi

Public Works Administration is also responsible for coordinating and overseeing the general operations and budgets of 10 divisions. Division leaders are responsible for the daily operations and report to the Public Services Superintendent or the Director of Public Works. The 2018-19 actual and the 2019-20 budgeted division expenditures were:

	2018-19	2019-20	
Division	Actual	Budget	
Public Works Administration	\$ 266,718	\$ 284,582	
Engineering	263,212	319,723	
General Infrastructure Maintenance	303,587	370,975	
Equipment Services	312,616	326,875	

Street RUT	1,304,167	1,563,756
Airport	\$ 83,135	\$ 77,740
Water (Service, Misc., Int.)	2,086,659	1,968,473
Water Pollution Control (Service, Misc., Int.)	1,206,272	1,150,366
Sewer Line Maintenance	329,916	337,329
Solid Waste	<u>1,470,327</u>	<u>1,532,088</u>
	\$ 7,626,609	\$ 7,551,907

Due to the complexity of City budgeting and financing, the above table is intended to only be a snapshot. The timing of various equipment purchases or projects absorbed into the annual operating budgets can distort year-to-year comparisons. Detailed information is available in the City's FY 2019-20 annual audit.

The increasing amount of public infrastructure has and will create maintenance challenges in coming years. The graph below shows how the total miles of streets, water mains and sanitary sewer mains have increased over the last 24 years. The maintenance needs of the new infrastructure will increase with age. To date the full-time staffing levels within these areas have remained unchanged for over three decades. A proactive equipment replacement schedule and technological advances are allowing the City to maintain excellent service. However, continued growth will inevitably require that additional staff is hired in order to maintain an acceptable and expected level of service to the community.



In an effort to increase public awareness a Public Works quarterly newsletter is mailed to every address within Waverly. The public response to the newsletter is very

favorable. Articles highlight the services provided to the public and information on public works projects. Additionally, since January 2014 the Director of Public Works has joined the Mayor on KWAY Radio 99.3 every Monday morning the day of a council meeting. The Mayor highlights topic of interest on the Council's agenda the Director discusses active public works projects and current Public Services operations such as leaf collection in the fall or special collection week in the spring. In March 2019 the radio updates the Director were suspended due to the COVID-19 pandemic.

Division 2 – Engineering Division

The Engineering Division continues to prepare plans and specifications for smaller scale projects. Inspection and administration of projects are performed on all sizes and types of work as the staffing schedule allows. The design or review of construction drawings are the responsibility of the City Engineer. Consultants continue to fulfill an important role and are utilized for large projects or to design work requiring specialized expertise.

Division 3 – General Infrastructure Maintenance

This division had previously been called "Streets General" with the name change occurring in FY 2016-17.

A primary responsibility of the General Infrastructure Maintenance Division is to finance and/or inspect the following infrastructure:

- Inspect and perform routine maintenance on the dam.
- Inspect trail bridges every four years.
- > Finance the USGS Cedar River Gage on Adams Parkway Bridge.
- > Finance communitywide street lighting, entrance signs and traffic signals.

Additionally, the local property tax support of the Waverly Municipal Airport is shown as an expense and transfer of monies to the Airport Fund.

Division 4 – Equipment Services Division

This division is responsible for the routine maintenance and repairs of City vehicles. A five-year equipment replacement schedule forecast is maintained allowing for the timely and economical replacement of vehicles and major items of equipment.

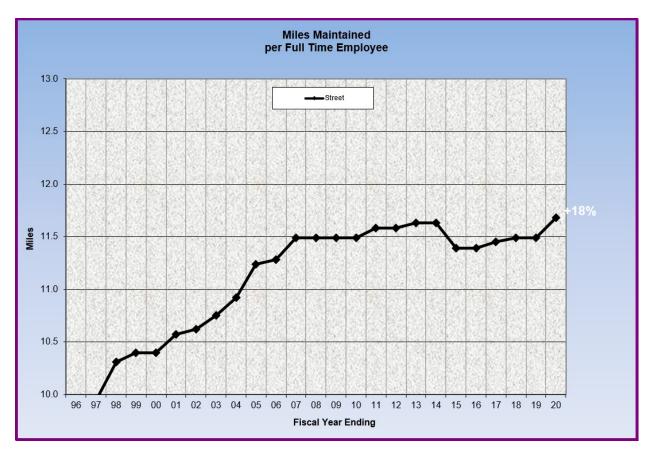
Looking to the Future

Continuing education is important to staying knowledgeable on vehicle technology advances.

Division 5 - Street - RUT Division

The City owns 66.6 miles of roads, has 2.0 miles of joint jurisdiction (city/county roads) and there are 7.0 miles of state roads through Waverly. Of the 75.6 total miles, the City

is responsible for maintaining 69.6 miles. In the fiscal year 2019-20 the City officially added 1.08 miles street from the completion of the Cedar River Parkway extension from 8th Street SE to E. Bremer Avenue. The number of miles of city, county and state roadways was recalculated in September 2006. In the coming years, as time permits, we hope to develop and maintain a detailed breakdown of the number of miles of arterial, collector and residential streets and alleys. The detail would also show the number of miles that are paved or unpaved and curbed or ditched.



The graph above illustrates the community's growth with new subdivisions increasing the average miles of streets per employee. While the new streets have a low initial maintenance cost, they do immediately impact street sweeping and snow removal efforts. In FY 2014-15 the Streets & Sanitation Foreman had his allocation of time revised from 50/50 to 70/30 to more accurately reflect where his time was spent. This resulted in an adjustment to the average miles of street maintained per full-time employee.

Again, this year the City contracted the seal coating of an estimated 110 blocks in an effort to cover the entire City every 7 years which is the average life of a seal coat. City crews continue to asphalt surface patch in advance of the seal coating.

Maintenance efforts are directed to asphalt patching, seal coating, street sweeping, sign maintenance, aggregate shoulder and alley maintenance, and painting pavement

markings. During the winter months the department is primarily responsible for snow removal, tree trimming and removal of ash trees from the public right-of-ways.

In March 2019, a new Division of Vegetation Management in the Leisure Services Department took over the maintenance of vegetation in roadsides, detention basins, open channel waterways, and trees with the right-of-way.

Looking to the Future

Work continues on defining and refining the Street Division's core services related to repairing and maintaining pavements, signage, pavement markings, aggregate shoulders and alleys. Additional core services include snow plowing, street sweeping and assisting the new Vegetation Management Division with tree removal and maintenance.

Division 6 – Water Division

The Water Division continues to monitor water quality and perform routine maintenance on valves, hydrants and water main leaks. The Water Division performed 1,813 lowa One-Call locates for water mains, sanitary sewer and storm sewers.

On average 955,333 gallons of water per day were pumped with 74% of it accounted for through customer billing or known uses like hydrant flushing. The remaining 26% is likely lost through leaks. A leak detection program has helped reduce the unaccounted water by identifying targeted repair work. Our goal is to have over 80% accountability for the water pumped into the water distribution system.

In October 2018 the Iowa DOT completed the reconstruction Bremer Avenue (IA 3). The roadway reconstruction project also included the replacement or addition of approximately 1.2 miles of additional water main along Bremer Avenue from 20th Street West to 8th Street East.

January 2020 – Completed the 2020 Water Distribution Modeling and Evaluation by WHKS & Co.

Looking to the Future

- Fall 2020 Completing the GIS mapping of the water distribution system by Midland GIS.
- Completion of the Public Services Center for Operations & Disaster Response final phase in 2021 remains a top priority and allows for the relocation of the Water and Line Maintenance Divisions.

Division 7 – Water Pollution Control

In March 2018 WHKS & Co. was hired to develop and design the wastewater treatment improvements as described in the Engineer's Report for Nutrient Reduction Strategy dated December 7, 2016. The recommended improvements in Alternative No. 2-

Conversion to an EBNR A20 Process with Oxidation Ditches include the construction of an oxidation ditch system, main lift station improvements, primary clarifier improvements, demolition of trickling filter and RBCs, conversion of the intermediate clarifier to a fourth final clarifier, installation of a chemical feed system to supplement phosphorus removal, biosolids storage improvements, and associated site work.

Looking to the Future

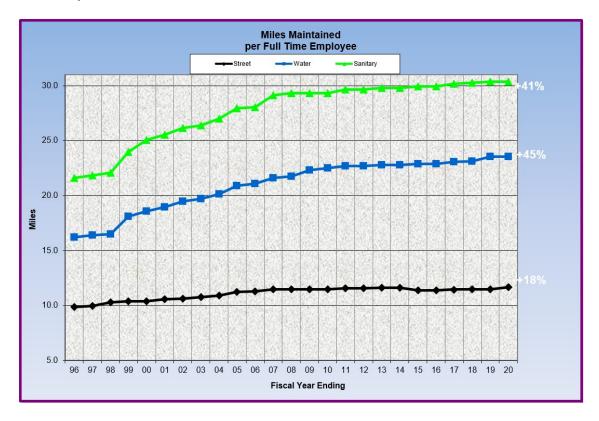
➤ The schedule for the improvements described above is to complete design by the fall of 2020 and to complete construction by the end of 2022.

Division 8 – Storm & Sanitary Sewer Line Maintenance Division

This division continued to primarily maintain, clean and televise sanitary and storm sewer lines. Starting in March 2012 the Water Division started performing the utility locates. Additional work included catch basin and manhole repair, sewer taps, and the repair of sewer mains.

The updated Sanitary Sewer Capacity Analysis was completed in January 2020 and helps identify weaknesses within the existing system and the impact of future development on the system. The report determined that there are no "fatal flaws" within the existing system, but there are areas of concern identified for future upgrades.

January 2020 – Completed the 2020 Sanitary Collection System Modeling and Evaluation by WHKS & Co.



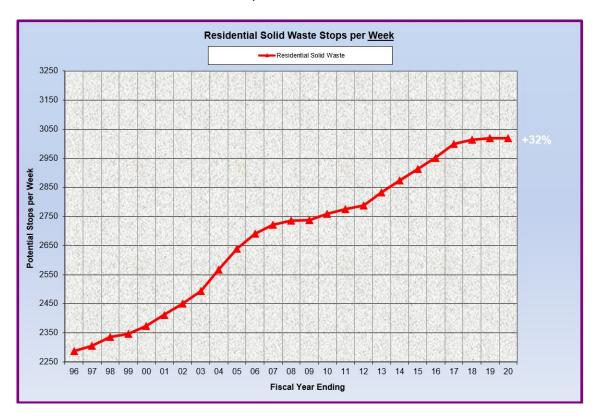
Looking to the Future

- Maintaining an acceptable 7-year inspection, cleaning and televising have not been achieved for many years. Core duties and responsibilities are being reassessed to achieve the 7-year schedule. Manhole and storm intake fixture adjustments are now a core function of the Streets Division.
- ➤ Fall 2020 Complete GIS mapping of the sanitary sewer and storm sewer collection systems by Midland GIS.
- Completion of the Public Services Center for Operations & Disaster Response final phase in 2021 remains a top priority and allows for the relocation of the Water and Line Maintenance Divisions.

Division 9 - Solid Waste/Recycling Division

The yard waste and recycling programs remain very successful. Usage of the Yard Waste Site and Recycling Center is stable without significant changes in vehicle count or volume. The Recycling Center is open Monday-Friday from 7:00 a.m. – 5:30 p.m. and every Saturday from 8:00 a.m. – 4:00 p.m., except holidays.

In April of 2014 the City began commingled curbside collection of recyclables. The rapid increase in cost to dispose of the commingled recyclables is concerning. In March 2017 the cost was \$30 per ton and in by March 2019 the cost had risen to \$124 per ton. The cost to landfill solid waste is \$44 per ton.



Looking to the Future

- In the coming years, as the community continues to grow, the volume of commercial waste (dumpsters) may exceed the capacity of the existing resources. Options would include adding a commercial truck and additional personnel or allowing private haulers cover the additional accounts.
- ➤ The processing and accumulation of wood mulch remains a concern. The additional amount is likely the result from the removal of ash trees. Beginning in the summer of 2018 wood mulch delivery was made available to rural residents near Waverly in an effort to draw down the stockpile.

Division 10 – Waverly Municipal Airport

In November 2018 the Waverly Municipal Airport welcomed Waverly Air Services as the contract Airport Manager and Swieter Aircraft Services as the contract Fixed-Base Operator. The City entered into 5-year renewable contract for FBO and Airport Manager services.

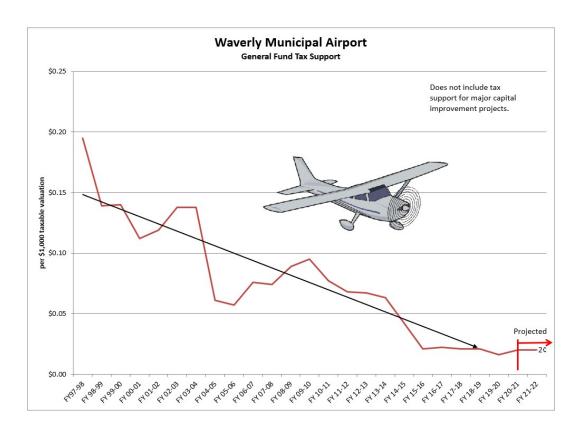
The annual property tax support for the Airport continues to decrease and by the year 2021 the routine operations and maintenance of the facility is leveling off at a property tax rate of 2¢ as seen in the graph below. Major capital projects would continue to need the City's financial support.

Spring 2020 – Completed Obstruction Removal Project

Winter 2020 – Completed Addition of Credit Card Fueling (by FBO)

Looking to the Future

- Fall 2020 Complete 400-ft Runway 29 Extension Project
- Replace Obsolete Security Cameras
- > Upgrade Electrical Power Supply to T-Hangars and Individual Hangars
- Reconstruct Hangar Taxiways
- Construct New T-Hangars



Conclusion

As a department we continue to strive for excellence in community service and efficiency of operations. In the coming years we hope to see the infrastructure and operational recommendations implemented to better serve the citizens of Waverly, our customers, and meet the needs of a growing community.

Respectfully submitted,

Michael J. Cherry, P.E. Director Public Works & City Engineer

City of Waverly **Department of Public Works**FY 2019-20

ADMINISTRATION

The Administration consists of the Director and Office Coordinator. The major functions related to Administration are direction of present and future work programs, budget preparation and control, centralized record maintenance, inter/intra departmental coordination, billing and purchasing, and problem solving relevant to personnel and public relations. All of these areas relate to the ten Divisions of the Public Works Department (Administration, Engineering, General Infrastructure Maintenance, Equipment Services, Streets-RUT, Airport, Water, Water Pollution Control, Storm & Sanitary Sewer Line Maintenance, & Solid Waste).

We utilize the City's web site (www.waverlyia.com), Cable 82 TV announcements, newspaper articles and releases, radio announcements, Facebook, and personal communication to inform the citizens of Waverly pertaining to the work performed by our department, when and where the work is to be accomplished, and the priorities with which work will be performed.

City of Waverly

Department of Public Works

FY 2019-20

ENGINEERING

The Engineering Division oversees all public works improvements, which include designs, inspections, surveys, and final certification of projects. Various types of work include the following:

<u>Projects – Sewer, Water, Street, Subdivisions</u> <u>Mapping</u>

Planning Water

Design Storm Sewer Inspection Sanitary Sewer

Project Administration Streets
Review Subdivisions

Zoning

PUBLIC IMPROVEMENT PROJECTS

"Total Cost" includes all pay apps, invoices & employee charges.

Airport Land Acquistion

Initiated: June 2012

Location: Waverly Municipal Airport - 1710 35th Street NW

Description: This is a land acquisition project for the expansion of the runway safety zone

and extension of the runway.

Engineer: McClure Engineering Co., Clive, Iowa

Cost: \$1,820,809 Total Grant \$ Rec'd: \$1,694,410

Finalized: September 22, 2020. This is the date we received the final dollars for

Schmidt relocation/moving expenses and Janssen easement expenses.

IA Highway 3 (Bremer Avenue) Reconstruction 2017 & 2018 - An IDOT Project

Initiated: April 2016 Bid Letting: February 21, 2017

Location: IA Highway 3 (Bremer Avenue) from 8th Street NE to 20th Street NW

Description: The Iowa DOT reconstructed IA Highway 3 (Bremer Avenue) through Waverly

in 2017 & 2018. The City of Waverly's expense will be for the installation of the new water main (100%), the new storm sewer (50%), and the parking

lanes (100%).

Engineer: WHKS & Co, Mason City, Iowa (City's water main and streetscaping)

Contractor: Skyline Construction, Decorah, Iowa (IDOT's contractor) **Payments to IDOT:** \$1,500,000 + \$1,094,120 + \$1,094,120 = \$3,688,240

Additional City Expenses: \$511,760

Finalized: Project was substantially completed by the end of 2018.

20th Street NW Recon. – Ph. 1 RR Crossing Improvements at 20th St. NW & 5th Ave. NW 2018

Initiated: January 2017

Location: 20th Street NW railroad crossing and 5th Avenue NW railroad crossing. **Description:** Reconstruction of RR crossings at 20th Street NW & 5th Avenue NW.

Crossing gates will be installed at 20th Street NW.

Engineer: McClure Engineering

Contractor: Croell, Inc., New Hampton, Iowa

Total Cost: \$1,873,272

Finalized: not final - As of Sept. 2020, the City is still waiting for contractor to complete

the backfilling of one new sidewalk panel. This project is expected to be

finalized on October 19, 2020.

Cedar River Parkway (East) Improvement 2018

Initiated: January 2017

Location: From the intersection of Cedar River Parkway and 8th Street SE eastward to

East Bremer Avenue (Hwy. 3)

Description: Construction of new bridge and 1-mile of new roadway.

Engineer: Stanley Consultants (with WHKS & Co. as a sub-engineering firm for the

bridge.)

Contractor: Cramer & Associates, Grimes, Iowa

Total Cost: \$9,998,506

Finalized: November 11, 2019

Airport Runway 29 Extension 2018

Initiated: August 2017

Location: Waverly Municipal Airport - 1710 35th Street NW

Description: Extension of runway by 400 feet. **Engineer:** McClure Engineering, Clive, Iowa J.B. Holland, Decorah, Iowa

Total Cost: \$

FAA Design Grant: \$ 137,637 **FAA Construction Grant:** \$1,357,031

Finalized:

Adams Parkway Bridge Repair & Horton Road Impr. 2018

Initiated: June 2018

Location: Adams Parkway Bridge & Horton Road (Horton Rd. repairs were removed

from the project to keep costs down.)

Description: Adam's Parkway bridge deck overlay, deck repairs, etc. and

milling, joint repair and overlay.

Engineer: WHKS & Co., Mason City, Iowa **Contractor:** Cramer & Assoc., Grimes, Iowa

Total Cost: \$445,606 **Finalized:** August 5, 2019

WPC Facility Improvements 2020

Initiated: March 2018
Location: WPC Facility

Description: Currently under design with anticipated construction in 2021. Project to

include the construction of an oxidation ditch system, main lift station

improvements, primary clarifier improvements, demolition of trickling filter and

RBCs, conversion of the intermediate clarifier to a fourth final clarifier, installation of a chemical feed system to supplement phosphorus removal,

biosolids storage improvements, and associated site work.

Engineer: WHKS & Co., Mason City, Iowa

Contractor:

Total Cost: \$

Finalized: under design

Cedar Lane Reconstruction 2019

Initiated: August 2016

Location: Cedar Lane, between Brown Lane & 2nd Avenue NE

Description: Phase 1 of 2 – Reconstruction of Cedar Lane with full-depth concrete

pavement. (Phase 2 from Brown Lane to Horton Rd. is scheduled for 2021.)

Engineer: VJ Engineering, Cedar Falls, Iowa **Contractor:** K. Cunningham, Cedar Falls, Iowa

Total Cost: \$984,092 **Finalized:** May 4, 2020

Bituminous Seal Coat Program 2019

Initiated: January 2019
Location: Southwest Waverly

Description: Seal coating of streets in southwest Waverly, including double-sealing of

park's parking lots.

Engineer: City

Contractor: Blacktop Services, Humboldt, Iowa

Total Cost: \$157,748

Finalized: September 19, 2019

Slurry Seal Program 2019

Initiated: January 2019

Location: 11th Street SW & 2nd Avenue SW at RR tracks; Park 2nd Avenue NW & Park

26th Street NW, 4th Avenue NW & 17th Street NW, and parking lot south of

Cobblestone Inn.

Description: Slurry sealing portions of streets and the parking lot south of Cobblestone Inn.

Engineer: City

Contractor: Fahrner Asphalt Sealers, Dubuque, Iowa (NOTE: Had lots of issues with

Fahrner this year. They started about 3 weeks past the completion date and were charged 19 days of liquidated damages. They also used the wrong oil

when starting the slurry sealing the parking lot.

Total Cost: \$193,000

Finalized: October 17, 2019

Crack Cleaning & Filling Project 2019

Initiated: March 2019

Location: 12th Street NW (between W. Bremer & 5th Avenue NW), 5th Avenue NW

(between 12th Street NW and 1st Street NW), and 2nd Avenue NE and Impala

Subd.

Description: Cleaning of cracks in streets and sealing.

Engineer: City

Contractor: Kluesner Const., Farley, Iowa

Total Cost: \$20,937

Finalized: September 9, 2019

Sanitary Sewer Manhole Rehab 2019

Initiated: March 2019

Location: Portions of southwest and northwest Waverly

Description: Repair and installation of a protective liner inside sanitary sewer manholes

that are deemed to be in poor condition or have stormwater infiltration

issues.

Engineer: City

Contractor: Josh's Construction, Dubuque, Iowa

Total Cost: \$20,974

Finalized: November 4, 2019

Asphalt Patching – Spring 2019

Initiated: March 2019

Location: Various streets in Waverly

Description: Repair of utility street cuts with full-depth asphalt.

Engineer: City

Contractor: Heartland Asphalt, Mason City, Iowa

Total Cost: \$26,734 **Finalized:** July 1, 2019

Dog Park Sidewalk 2019

Initiated: March 2019

Location: City's Dog Park on 8th Street SE (east of WPC Facility) **Description:** Construction of a sidewalk loop within the Dog Park.

Engineer: City

Contractor: Feldman Concrete, Farley, Iowa

Total Cost: \$35,000 - Donation by Brian Harvey (Total cost = \$34,982)

Finalized: July 15, 2019

4th Street SW & 10th Street SW Improvements 2020

Initiated: August 2018

Location: 4th Street SW between 2nd Avenue SW & 8th Avenue SW and 10th Street SW

between W. Bremer & 2nd Avenue SW.

Description: Reconstruction of both roadways with 4th Street being slightly widened and

changed to a 3-lane roadway. Improvements will include roadway reconstruction, water main & services, sanitary sewer main & services,

storm sewer replacement, and improved street lighting.

Engineer: Snyder & Associates, Cedar Rapids, Iowa

Contractor: Wicks Construction, Decorah, Iowa

Total Cost: \$

Finalized:

20th Street NW Improvements 2020

Initiated: June 2019

Location: 20th Street NW between 5th Avenue NW and RR tracks.

Description: Reconstruction of roadway and replacement of some storm sewer. (This

portion of the roadway was initially to have been completed with the railroad

section, but was pulled out due to budget constraints.)

Engineer: McClure Engineering, Clive, Iowa **Contractor:** Baker Enterprises, Waverly, Iowa

Total Cost: \$

Finalized:

Downtown Alley Reconstruction 2019

Initiated: July 2019

Location: South-side alley in the 100 block of East Bremer Avenue

Description: reconstruction of alley with concrete

Engineer: City

Contractor: Feldman Concrete, Dyersville, Iowa

Total Cost: \$31,000

Finalized: October 7, 2019

E. Bremer Ave. Sanitary Sewer Main Extension 2019

Initiated: July 2019

Location: North side of E. Bremer Avenue to 39th Street NE

Description: Approximately 1,500 feet of 8-inch sanitary sewer extension improvements

along the north side of E. Bremer Avenue to 39th Street NE for the Titan

Machinery relocation site.

Engineer: WHKS & Co., Mason City, Iowa **Contractor:** Boomerang Corp., Anamosa, Iowa

Total Cost: \$197,980

Finalized: February 10, 2020

Infrastructure Modeling - Water Distribution System and San. Sewer Collection System

Initiated: June 2019
Location: Entire Waverly

Description: Updating the 2010 Water Distribution and Sanitary Sewer Collection reports

Engineer: WHKS & Co., Mason City, Iowa

Total Cost: \$74,000

Finalized: February 24, 2020

<u>Airport Avionics Room 2020</u> – Did not receive GAVI Grant – No Project

Initiated: April 2019 – Applied for GAVI Grant, but did not receive

Location: Waverly Municipal Airport - 1710 35th Street NW

Description: Construction of an Avionic's Room on the west side of the bulk hangar.

Airport Obstruction Removal 2020

Initiated: April 2019

Location: Waverly Municipal Airport - 1710 35th Street NW

Description: The Clan and Schmidt properties have structures and trees that are deemed

obstructions and compromise the safety of airport operations. Both properties have been purchased by the City and now need to cleared of the obstructions.

Engineer: McClure Engineering, Clive, Iowa

Contractor: Schrader Excavating & Grading, Walford, Iowa

Total Cost: \$160,110 **Finalized:** June 15, 2020

Business 218 North Resurfacing 2020

Initiated: May 2019

Location: Business 218 North from West Bremer Avenue to the City Limits

Description: Asphalt resurfacing of Business 218 North from the intersection of West

Bremer Avenue north to the City Limits. Additionally, two-foot wide paved shoulders will be added from West Bremer Avenue to 35th Street NW.

Engineer: WHKS & Co., Mason City, Iowa **Contractor:** Heartland Asphalt, Mason City, Iowa

Total Cost: \$

Finalized:

Rolling Prairie Trail Extension 2021

Initiated: March 2019

Location: Along 10th Avenue SW from Heritage Way to 16th Street SW.

Description: Construction of the final section of the bike/pedestrian trail that will complete a

40-mile hard-surface trail system from Bristow to Readlyn.

Funding: Received TAP funds of \$184,000 **Engineer:** WHKS & Co., Mason City, Iowa

Contractor:

Total Cost: \$

Finalized:

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School Ped Ramp Construction 2019

Initiated: April 15, 2019

Location: W-SR High School and West Cedar Elementary School

Description: Construction of pedestrian ramps.

Engineer: City

Contractor: Feldman Concrete, Farley, Iowa

Total Cost: \$14,407

Finalized: September 9, 2019

<u>Cedar River Park (Youth Ballfields) – Phase 1 Grading Project</u>

Initiated: September 2019
Location: North of Soccer Fields

Description: Construction and development of a youth ballfield sports complex.

Engineer: Hall & Hall Engineering, Hiawatha, Iowa **Contractor:** Mehmert Tiling, Lime Springs, Iowa

Total Cost: \$

Finalized:

Asphalt Patching - Fall 2019

Initiated: August 2019
Location: Various

Description: Asphalt patching of utility street cut areas.

Engineer: City

Contractor: Heartland Asphalt, Mason City, Iowa

Total Cost: \$83,286

Finalized: November 18, 2019

GIS Data Collection 2019

Initiated: June 2019 Location: Citywide

Description: Collection of water valve & hydrant locations; sanitary sewer manhole

locations and depths; storm sewer manhole and intake locations and depths.

Engineer: Midland GIS Solutions (Later purchased by SAM), Maryville, Missouri

Total Cost: \$

Finalized:

Bituminous Seal Coat 2020

Initiated: January 2020

Location: West Waverly (District 2)

Description: Seal coating of approximately 110 city blocks.

Engineer: City

Contractor: Blacktop Service Co., Humbolt, Iowa

Total Cost: \$

Finalized:

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Downtown Alley Reconstruction 2020

Initiated: March 2020

Location: South-side alley in the 300 block of West Bremer Avenue

Description: Reconstruction of Alley

Engineer: City

Contractor: Feldman Concrete, Farley, Iowa

Total Cost: \$49,769 **Finalized:** July 6, 2020

Crack Cleaning & Filling 2020

Initiated: March 2020

Location: 2nd Ave. SW (from 4th St. SW to 16th St. SW), 12th Street NW (from Park Ave.

to City Limits) and Augusta Lane (south end)

Description: Cleaning and filling cracks in streets

Engineer: City

Contractor: Kluesner Construction, Farley, Iowa

Total Cost: \$

Finalized:

Sanitary Sewer Lining Project 2020

Initiated: March 2020 Location: 2nd Street NW

Description: Lining of \$1,740 feet of the City's 8-inch and 12-inch sanitary sewer main by

CIP Pipe Liner within 2nd Street NW from Bremer Ave. to 5th Ave. NW.

Engineer: City

Contractor: Municipal Pipe Tool, Hudson, Iowa

Total Cost: \$89,728 (Included repair by Barry Smith of a section of collapsed sewer main

and street patch of area.)

Finalized: June 1, 2020

Asphalt Patching - Spring 2020

Initiated: April 2020 Location: Various

Description: Asphalt patching of utility street cut areas.

Engineer: City

Contractor: Kluesner Construction, Farley, Iowa

Total Cost: \$21,871

Finalized: June 15, 2020

Reconstruct T-Hangar Taxilanes 2021 - Did not receive state funding

<u>Airport Concrete Apron Rehab</u> –

Received \$30,000 from CARES Act that was used to pay airport expenses. Will use extra money in Airport account to pay for concrete repair work at the airport.

Old WPC Dome Demolition 2020

Initiated: April 2020

Location: Brookwood Park

Description: Demolition of old concrete trickling filter structure from the original WPC site in

SE Waverly (Brookwood Park)

Engineer: WHKS & Co., Rochester, Minnesota

Contractor:

Total Cost: \$

Finalized:

Traffic Study 2020

Initiated: September 2019

Location: Citywide

Description: The study will primarily focus on 15 signalized intersections and 18 non-

signalized intersections.

Engineer: Snyder & Associates, Cedar Rapids, Iowa

Total Cost: \$

Finalized: Not finalized. Traffic decreased due to the COVID-19 pandemic causing the

shutdown of businesses & schools. Also the closure and reconstruction of 4th

Street SW and 10th Street SW changed traffic patterns.

Public Services – North Addition 2021

Initiated: December 2019
Location: 2900 5th Avenue NW

Description: Construction of final phase or north addition of Public Services which will

house the Street Division's vehicles and equipment. The Water and Sewer Line Maintenance Divisions will move into the first phase of building that is

currently occupied by the Street Division.

Engineer: Farnsworth Group, Waukee, Iowa (previously known as Design Alliance)

Contractor:

Total Cost: \$

Finalized:

SUBDIVISIONS

Whitetail Bluff Addition

Final Plat Approved: July 20, 2020

Location: Southwest corner of Adams Parkway and the Cedar River. (Between

Waverly Utilities and Waverly Area Veterans Post)

New Street: 2,087 feet

New Water Main: 2,365 feet (Plastic water main and services was approved.)

New Sanitary Sewer: 2,870 feet -- 17 new manholes

New Storm Sewer: 815 feet -- 12 new manholes & intakes

No. of Lots: 35

Engineer: Matthew Shock, STS Civil

Developer: JDM Property Holdings (Steve Kerian)

Accepted:

Final Agenda Memos from Public Improvement Projects

Final Agenda Memos from Public Improvement Projects



AGENDA MEMORANDUM

City Council Meeting November 4, 2019

SUBJECT: Cedar River Parkway (East) Improvements 2018

Accept and Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

• Accept the Cedar River Parkway (East) Improvements 2018 project as complete.

- Approve Contract Modification 7 (A.K.A. Change Order 7) in the amount of a \$4,190.08 increase.
- Approve Contract Modification 8 for the final adjustment of contract quantities in the amount of a \$17,253.31 decrease.
- Approve Pay Application No. 22 in the amount of \$558,163.64 as the final payment to Cramer & Associates of Grimes, Iowa.

Summary Statement

Cramer & Associates has completed the Cedar River Parkway (East) Improvements 2018 project in accordance with the contract documents. The total cost of the completed work is \$7,810,695.33. Contract Modification 7 is for miscellaneous changes to street and pedestrian signage, and pavement markings. Contract Modification 8 is a final adjust contract quantities to match the as-built condition.

Expenditure Required

Design Services, Stanley	\$	672,287	
Appraisal Services, Valuation Services and BCC Real Estate		17,750	
Property Acquisition		730,274	
Construction & Admin. Services, Stanley – N.T.E.		695,000	
Construction Estimate			
Winter Tree Cutting – Benton's Sand & Gravel's – Final		22,500	
Road & Bridge – Cramer & Associates' Bid		8,147,318	
Contract Modifications- Cramer & Associates			
No. 1		960	
No. 2		638	
No. 3	(17,246)	
No. 4	(1,114)	
No. 5	(322,046)	
No. 6		15,248	
No. 7		4,190	
No. 8	(17,253)	
Public Works Administration – Estimate	· ·	50,000	
Total Estimated Cost of the Project			\$ 9,998,506

Source of Funds

Total Financing		\$ 10,235,000
State or Federal Funding Assistance	None	
Bond Proceeds	9,000,000	
FY 2017-18 Bond Proceeds	\$ 1,235,000	
Account #307		

Policy

The Cedar River Parkway (CRP) project follows recommendations cited in the following documents:

- Waverly Strategic Planning Report November 12, 2013
- Waverly Comprehensive Plan Update October 24, 2011
- Parks Open Space Plan April 28, 2011
- Waverly, Iowa Smart Planning Workshop (Report) October 2010
- Hazard Mitigation Plan June 15, 2009
- Long-Term Community Recovery December 2008

Project Concern

None

Alternative

N/A

Background Information

The Cedar River Parkway project corridor closely follows the alignment of a planned arterial roadway that will accommodate a growing community. In the early 1970s the alignment was originally considered by the Iowa DOT. In 1998 the City of Waverly initiated a corridor study to address congestion mitigation and development opportunities within the community. In 2001 the roadway section from west IA 3 to 4th Street SW was completed.

In April 2012 the City completed the National Environmental Policy Act (NEPA) process, an hydraulic analysis of the roadway and bridge design impact on the Cedar River floodplain in southeast Waverly and preliminary plans for the roadway corridor from 4th Street SW across the Cedar River to east IA 3. A Finding of No Signification Impact (FONSI) was subsequently issued, effectively clearing the project for construction.

In 2015 the roadway section from 4th Street SW to 8th Street SE was completed.

Sept. 13, 2010	Approve Consultant Selection
Jan. 16, 2017	Approve Professional Services Agreement with Stanley Consultants
Jan. 16, 2017	Approve Appraisal Services Agreement with Valuation Services
Jan. 31, 2017	Neighborhood Information & Public Input Meeting #1
Feb. 2017 – Jan. 2018	Right-of-Way Discussions and Acquisitions
May 23, 2017	Neighborhood Information & Public Input Meeting #2
July 10, 2017	Set Public Hearing on Intent to Commence a Public Impr. Project w/ Acquisitions
August 17, 2017	Hold Public Hearing on Intent to Commence a Public Impr. Project w/ Acquisitions
October 2, 2017	Approve Fair Market Acquisition Valuations
Oct. 23, 2017	Review Check Plans and Project Letting Schedule
Dec. 19, 2017	Bid Tree Clearing
Jan. 8, 2018	Set Public Hearing Date for CRP Improvements

Jan. 8, 2018	Award Contract - Winter Tree Cutting - Removed from Agenda
Jan. 8, 2018	Approve Acquisition Settlements for Parcels 2, 3, 6, 8 and 9 – Removed from Agenda
	Award Contract - Winter Tree Cutting
Jan. 15, 2018	Approve Acquisition Settlements for Parcels 2, 3, 6, 8 and 9
Feb. 5, 2018	Approve Acquisition Settlements for Parcels (5 & 10)
Feb. 6, 2018	Bid Opening for CRP Improvements
Feb. 19, 2018	Hold Public Hearing for CRP Improvements
Feb. 19, 2018	Award Contract for CRP Improvements
	Approve Contract Documents - Winter Tree Cutting
	Approve PSA Supplemental Agreement #1 for Const. Admin. Services
Feb. 19, 2018	Acquisition Settlements for Parcels 4 and 7
Feb. 20 – Mar. 31, 2018.	Tree Cutting
	Approve Contract Documents for CRP Improvements
Mar. 28, 2018	_Acquisition Settlements for Parcel 1 – Condemnation Board
	Finalize – Winter Tree Cutting
	Approve Contract Modifications 1 through 5 (Change Orders)
May 20, 2019	Approve Contract Modification 6 (Change Order 6)
Apr. 2018 – Aug. 2019	Construction Window
Nov. 4, 2019	Accept and Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion – Letter from Stanley Consultants

Contract Modification 7 Contract Modification 8

Pay Application No. 22 (FINAL)



SUBJECT:

Adams Parkway Bridge Repair 2019 - Finalize Project

Prepared By:

Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 1 in the amount of a \$40,972.37 increase.
- Accept the Adams Parkway Bridge Repair 2019 project as complete.
- Approve Pay Estimate No. 3 in the amount of \$21,741.43 as the final payment to Cramer & Associates of Grimes, Iowa.

Summary Statement

Cramer & Associates has completed the Adams Parkway Bridge Repair 2019 project in accordance with the contract documents. The total cost of the completed work is \$375,168.65. Change Order No. 1 – Final Adjustment of Quantities is for a net increase of \$40,972.37 to the contract sum. The majority of the additional costs comes from tripling the quantity of Class A Bridge Deck repair from 82.5 SY to 264.6 SY; an additional 22.9 SY of Bridge Approach Pavement, and extra work to repair the north utility vault.

Expenditure Required

Design, WHKS & Co., Final Cost	\$ 33,937	
Construction Observ. & Admin., WHKS & Co., Est. Cost	33,000	
Project & Contract Admin. by City, Estimate	3,500	
Bridge Repairs, Cramer & Assoc., Final Cost		
Total Cost of the Project		\$ 445,606
Source of Funds		
FY 2018-19, Acct. No. 316, Adams Pkwy Bridge Repair	\$ 345,000	
FY 2019-20, Acct. No. 316	83,000	
FY 2019-20, Additional LOST and/or RUT funding	17,606	
Total Financing for the Project		\$ 445,606

Policy

The proposed 2019 bridge repair and roadway improvements are consistent with one or more of the following planning documents:

- Waverly Strategic Planning Report November 21, 2013
- Waverly Comprehensive Plan Update October 24, 2011

Project Concern

There are additional costs of nearly \$41,000 from tripling the quantity of Class A Bridge Deck repair from 82.5 SY to 264.6 SY; an additional 22.9 SY of Bridge Approach Pavement, and extra work to repair the north utility vault.

A significant portion of the additional construction costs are offset by a substantial underrun on the project observation and administration performed by WHKS & Co. The net result is a \$17,600 project account overrun.

Alternative

None. The bridge repairs were necessary and the additional funding can come from fund balances in Local Option Sales Tax (LOST) or Road Use Tax (RUT).

Background Information

The Adams Parkway Bridge Repair project has been in the planning for several years and is identified in the bi-annual bridge inspection reports. The bridge repair work was originally planned for 2018 but was rescheduled around the reconstruction of IA 3 to avoid traffic detour issues. The Horton Road Improvements are located along the last ¼-mile within the City Limits. This section of roadway predates the 2000 asphalt overlay that was performed south to the Adams Parkway Bridge. Coordination of the bridge work and the asphalt overlay was intended to lower the overall cost of bidding the work separately and to also minimize the inconvenience to the public.

June 18, 2018	Approve Professional Services Agreement
November 2018	Finalize Plans
December 3, 2018	Set Public Hearing Date
January 8, 2019	Bid Opening
January 21, 2019	Hold Public Hearing
January 21, 2019	
February 18, 2019	Approve Contract Documents
February 18, 2019	Approve Construction Administration and Observation Services
May 6 – June 28, 2019	Construction Window
August 5, 2019	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Change Order #1
Pay Estimate #3 - final



AGENDA MEMORANDUM

City Council Meeting May 4, 2020

SUBJECT: Cedar Lane Reconstruction 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 2 in the amount of a \$1,387.50 decrease.
- Accept the Cedar Lane Reconstruction 2019 project as complete.
- Approve Pay Application No. 5 in the amount of \$8,680.62.
- Approve Pay Application No. 6 in the amount of \$41,723.65 as the final payment to K. Cunningham Construction Co., Inc. of Cedar Falls, Iowa.

Summary Statement

K. Cunningham Construction Co., Inc. has completed the Cedar Lane Reconstruction 2019 project in accordance with the contract documents. The total cost of the completed work is \$834,472.94. Change Order No. 2 – Final Adjustment of Quantities is for a net decrease of \$1,387.50 to the contract sum.

The reconstruction of Cedar Lane had lots of delays due to a very rainy fall. Over a six-week period in September and October there were only 12 days when the weather and site conditions were suitable for working. The total number of working days was exceeded by 9 days (54 vs 45 by contract) but the lengthy weather pattern limited productivity. Therefore, the recommendation is to waive all liquidated damages related to weather delays as noted in Change Order No. 2.

City staff is working with the Waverly Ski Club to coordinate the final restoration work between their two driveways and is also working with a contractor to resolve some localized drainage concerns.

Expenditure Required

Design, VJ Engineering – Final 2016 Right-of-Way Research, VJ Engineering – Final 2016 Construction Staking & Plan Updates, VJ Engineering – Final 2019 Construction, K. Cunningham's Bid Construction, Change Order No. 1 Construction, Change Order No. 2 Miscellaneous Restoration and Drainage Work by Others, Estimate Project Administration and Inspection, City	68,343 2,197 24,080 838,114 (2,254) (1,388) 10,000 45,000	\$ 984,092
Source of Funds	76 120	\$ 984,092
Account #310 LOST FY 2016-17	p /0,120	

Total Financing for the Project______\$ 1,034,456

Account #310 G.O. Bond FY 2019-20 958,336

Policy

The repair and maintenance of roadways follows recommendations cited in the following documents for the maintenance and construction of infrastructure:

- Waverly Goal Setting Report August 2014
- Waverly Comprehensive Plan Update October 24, 2011
- Park and Open Space Master Plan 2011

Project Concern

None.

Alternative

None proposed.

Background Information

The reconstruction of the Cedar Lane roadway and other corridor improvements has been discussed periodically over the past two decades. The project lacked momentum due to the Cedar River floods of 1999 and 2008. Additionally, an insufficient funding source did not allow for a complete project, but did allow for widening the roadbed and stabilizing the riverbank in a few locations. The Cedar Lane Reconstruction 2017 project was postponed in February 2017 and rescheduled by the City Council, during the FY2018-19 budget discussions, for construction in late 2019. The Phase 1 project reconstructed Cedar Lane from 2nd Avenue NE to Brown Lane with a full-depth concrete pavement. The final Phase 2 project, from Brown Lane to Horton Road, is proposed for FY2024-25. Below is a list of past milestones:

2017	Scheduled Phase 1 Reconstruction from 2 nd Avenue NE to Brown Lane (Phase 2 in 2021)
0014	C1 ' C '12 A - + 2014 C - 1 C-44 D

- 2014 Shown in Council's August 2014 Goal Setting Report
- 2014 Phase 1 shown in FY2014-15 Budget, LOST Funding, 2017 Project
- 2011 Park and Open Space Master Plan Shown as a high priority project to improve pedestrian/bicycle accommodations and safety
- 2010 Riverbank stabilization (Rip-Rap) south of Brown Lane
- 2008 500-yr Cedar River flood in June
- 2006 Shoulder widening near Ski Club
- 1999 Riverbank stabilization (Rip-Rap) northwest of Evans Street
- 1999 100-yr Cedar River flood in July
- '98-99 Cedar Lane Reconstruction Study and Task Force

Important Dates

August 1, 2016	Council Approves Engineering Agreement
November 1, 2016	Neighborhood Meeting No. 1
January 10, 2017	Neighborhood Meeting No. 2
February 20, 2017	Council - Project Update and Plan Review
	Council Sets Public Hearing Postpones project
October 1, 2018	Council Approves Engineering Agreement
December 17, 2018	Council Sets Public Hearing Date
January 29, 2019	Bid Letting
February 18, 2019	Council Holds Public Hearing and Awards Contract

March 18, 2019	Council Approves Contract Documents
February 10, 2020	Approve Change Order No. 1
July 8 thru late Oct. 2019	Construction Window
April 2020	Final Restoration and Pavement Smoothing
May 4, 2020	Finalize Project
May-June, 2020	Final Restoration at Ski Club and Miscellaneous Drainage Work, by Others

Respectfully submitted,

James Bronner City Administrator

Attachments: Change Order No. 2, Final

Statement of Project Completion

Pay Application No. 5
Pay Application No. 6, Final



AGENDA MEMORANDUM

City Council Meeting September 9, 2019

SUBJECT: Bituminous Seal Coat Program 2019 – Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 1 in the amount of a \$7,608.89 decrease.
- Accept the 2019 Bituminous Seal Coat Program as complete.
- Approve Pay Estimate No. 2 in the amount of \$18,723.43 as the final payment to Blacktop Service Co. of Humboldt, Iowa.

Summary Statement

Blacktop Services Co. has completed the Bituminous Seal Coat Program 2019 in accordance with the contract documents. The total cost of the completed work is \$100,263.81. Change Order No. 1 – Final Adjustment of Quantities is for a net decrease of \$7,608.89 to the contract sum.

This project involved the seal coating of approximately 90 City blocks.

Expenditure Required

Construction Cost – Bituminous Seal Coat - Roads Construction Cost – Bituminous Seal Coat – Park Lots Construction Cost – Slurry Seal 1st Avenue SE Parking Lot		84,493 15,771 12,252	
Construction Cost – Slurry Seal Various City Streets		38,232	
Project Design, Adm. & Insp. Est.		<u> 7,000</u>	
Total Cost of the Project			\$ 157,748
Source of Funds			
Account #306 FY 2019-20	\$ 3	200,000	
Account #306 FY 2018-19		32,000)	
Account #342 FY 2017-18 for Various Park Pkg Lots/Cemetery Imp.	_	25,000	
Total Financing for the Project			\$ 193,000

Policy

The Bituminous Seal Coat Program 2019 follows recommendations cited in the following documents for the preservation of City streets and infrastructure:

- Waverly Strategic Planning Report November 12, 2013
- Waverly Comprehensive Plan Update October 24, 2011

Background Information:

The Bituminous Seal Coat Program is part of the City's annual improvement plan for maintaining the residential street system. City crews perform roadway repairs and patching prior to the hired contractor applying the bituminous seal coat. Seal coating is a thin surface treatment that helps to improve the longevity of an asphaltic pavement. This year's project involves the seal coating of approximately 90 City blocks.

September 9, 2019	Finalize Project
June 3 – Aug. 16, 2019	Construction Window
April 1, 2019	Approve Contract, Bonds and Insurance
March 18, 2019	Award Project
March 18, 2019	Hold Public Hearing
March 5, 2019	Bid Letting
January 21, 2019	Set Public Hearing Date

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Change Order #1 Pay Estimate #2 - final



AGENDA MEMORANDUM

City Council Meeting October 7, 2019

SUBJECT: Slurry Seal Program 2019 – Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 1 in the amount of a \$2,321.00 decrease.
- Accept the Slurry Seal Program 2019 project as complete.
- Approve Pay Estimate No. 1 in the amount of \$45,754.56.
- Approve Pay Estimate No. 2 in the amount of \$2,408.14 as the final payment to Fahrner Asphalt Sealers of Dubuque, Iowa.

Summary Statement

Fahrner Asphalt Sealers of Dubuque, Iowa, has completed the Slurry Seal Program 2019 project in accordance with the construction documents. The cost of the completed work is \$48,162.70.

Expenditure Required

Construction Cost – Bituminous Seal Coat - Roads	\$ 84,493	
Construction Cost – Bituminous Seal Coat – Park Lots	15,771	
Construction Cost – Slurry Seal 1st Avenue SE Parking Lot	11,870	
Construction Cost – Slurry Seal Various City Streets	36,293	
Project Design, Adm. & Insp. Est.	<u>8,500</u>	
Total Cost of the Project		\$ 156,927

Source of Funds

Account #306 FY 2019-20	\$ 200,000	
Account #306 FY 2018-19	(32,000)	
Account #342 FY 2017-18 for Various Park Pkg Lots/Cemetery Imp.	25,000	
Total Financing for the Project		\$ 193,000

Policy

The Slurry Seal Program 2019 follows recommendations cited in the following documents for the preservation of City streets and infrastructure:

- Waverly Strategic Planning Report November 12, 2013
- Waverly Comprehensive Plan Update October 24, 2011

Background Information:

This project involves placing a thin asphaltic surface treatment similar the seal coating. However, rather than sprinkling aggregate chips on bituminous oil, the aggregate chips are pre-coated with oil prior to placing.

January 21, 2019	Set Public Hearing Date
March 5, 2019	Bid Letting
March 18, 2019	Hold Public Hearing
March 18, 2019	Award Project
April 15, 2019	Approve Contract, Bonds and Insurance
June 3 – Aug. 16, 2019	Construction Window
October 7, 2019	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Change Order No. 1

Statement of Project Completion

Pay Application No. 1

Pay Application No. 2 (Final)



AGENDA MEMORANDUM

City Council Meeting September 9, 2019

SUBJECT: Crack Cleaning and Filling Project 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Crack Cleaning and Filling Project 2019 as complete.
- Approve Pay Estimate No. 2 in the amount of \$6,359.53 as the final payment to Kluesner Construction Inc. of Farley, Iowa.

\$ 20,000

Summary Statement

Kluesner Construction Inc. of Farley, Iowa, has completed the Crack Cleaning and Filling Project 2019 in accordance with the construction documents. The cost of the completed work is \$17,237.03.

Expenditure Required

Construction Cost, Fahrner Kluesner, Final Project Design, Admin. & Inspection Est. Total Cost of the Project	\$ 17,237 3,700	\$ 20,937
Source of Funds		
Road Use Tax Fund – Acct #6761	\$ 20,000	

Total Financing for the Project

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involved cleaning the cracks with compressed air and then sealing them with bituminous oil,

March 5, 2019	Bid Letting
March 18, 2019	Award Project
July 8 – August 30, 2019	Construction Window
September 9, 2019	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Pay Application No. 2, Final



City Council Meeting November 4, 2019

SUBJECT: Sanitary Sewer Manhole Rehabilitation 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Sanitary Sewer Manhole Rehabilitation 2019 project as complete.
- Approve Pay Estimate No. 2 in the amount of \$7,559.30 as the final payment to Josh's Construction of Dubuque, Iowa.

Summary Statement

Josh's Construction has completed the Sanitary Sewer Manhole Rehabilitation 2019 project in accordance with the contract documents. The total cost of the completed work is \$18,674.30.

Expenditure Required

Total Financing for the Project	\$ 40,000
Sanitary Sewer Improvement – CIP Fund #362 \$\text{40,000}\$	
Source of Funds	
Total Cost of the Project	\$ 20,974
Project Design, Admin. & Inspection Est. 2,300	
Construction Cost, Josh's Construction's, final \$ 18,674	

Policy Issues

n/a

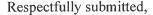
Alternatives

n/a

Background Information

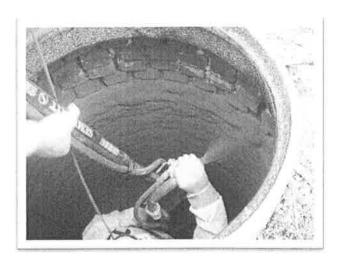
This project involves repairing and installing a protective liner inside sanitary sewer manholes that are deemed to be in poor condition or have storm water infiltration issues.

Nov. 4, 2019	Finalize Project
April – Sept. 2019	Construction Window
March 18, 2019	Award Project
March 5, 2019	Bid Letting



James Bronner City Administrator

Attachment: Statement of Project Completion Pay Application No. 2, Final





City Council Meeting July 1, 2019

SUBJECT:

Citywide Asphalt Patching - Spring 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Citywide Asphalt Patching Spring 2019 project as complete.
- Approve Pay Estimate No. 1 in the amount of \$26,733.24 as the final payment to Heartland Asphalt of Mason City, Iowa.

Summary Statement

Heartland Asphalt has completed the Citywide Asphalt Patching - Spring 2019 project in accordance with the contract documents. The total cost of the completed work is \$26,733.24.

Expenditure Required

Construction Cost, Heartland Asphalt, Bid	\$ 20,514	
Additional Quantity	\$ 6,220	
Total Cost of the Project		\$ 26,734
Source of Funds RUT & Utility Company Reimbursements Total Financing for the Project	\$ 26,734	\$ 26,734

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves repairing asphalt paved streets that have had utility cuts. This project will also include the leveling of an area on 8th Street SW in the Waverly Business Park.

,	Bid Letting
March 18, 2019 April 29 – June 7, 2019	Award Project Construction Window
July 1, 2019	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachment: Statement of Project Completion

Pay Application No. 1, Final



City Council Meeting July 15, 2019

SUBJECT: Dog Park Sidewalk 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Pay Application No. 1 in the amount of a \$29,907.90.
- Accept the Dog Park Sidewalk 2019 as complete.
- Approve Pay Estimate No. 2 in the amount of \$1,574.10 as the final payment to Feldman Concrete of Dyersville, Iowa.

Summary Statement

Feldman Concrete has completed the Dog Park Sidewalk 2019 project in accordance with the contract documents. The total cost of the completed work is \$31,482.00. A final adjustment of quantities is for a net increase of \$2,353.00 to the original contract sum of \$29,129.00.

Expenditure Required

Construction Cost, Feldman - FINAL	\$ 31,482
Project Design, Admin. & Inspection, Estimate	2,000
Final Restoration & Seeding by City, Estimate	_1,500

Total Cost of the Project \$34,9

Source of Funds

Donation by Brian Harvey	\$ 35,000	
Total Financing for the Project		\$ 35,000

Policy Issues

n/a

Alternatives

n/a

Background Information

This project the construction of 4-inch thick x 4-foot wide concrete sidewalk within the Waverly's Dog Park.

July 15, 2019	Finalize Project
May 6 – June 28, 2019	Construction Window
March 18, 2019	Award Project
March 5, 2019	Bid Letting

Respectfully submitted,

James Bronner City Administrator

Attachment:

Pay Application No. 1 Statement of Project Completion Pay Application No. 2



New walking path.



City Council Meeting October 7, 2019

SUBJECT: Downtown Alley Reconstruction 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Downtown Alley Reconstruction 2019 project as complete.
- Approve Pay Estimate No. 1 in the amount of \$27,660.00 as the final payment to Feldman Concrete of Dyersville, Iowa.

Summary Statement

Feldman Concrete of Dyersville, Iowa, has completed the Downtown Alley Reconstruction 2019 project in accordance with the construction documents. The final cost of the completed work is \$27,660.00.

Expenditure Required

Construction Cost, Feldman Concrete, Final	\$ 27,660
Project Design, Admin. & Inspection Est.	3,340
Total Cost of the Project	\$ 31,000
C. C. T.	
Source of Funds	
G.O. Bond – CIP Fund #309 (FY2018-19 Fund Balance as of 6/30/19)	. \$ 65,371
G.O. Bond – CIP Fund #309 (FY2019-20 Funding)	75,000
Total Financing for the Project	\$ 140,371

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves rehabbing or reconstructing the south-side alley in the 100 block of East Bremer Avenue.

Oct. 7, 2019	Finalize Project
Aug Sept. 2019	Construction Window
July 15, 2019	Award Project
July 2, 2019	_Bid Letting

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion, Pay Application No.1 (final pay)



City Council Meeting February 10, 2020

SUBJECT:

E. Bremer Avenue Sanitary Sewer Extension 2019

Finalize Project

Prepared By:

Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 1 in the amount of an \$18,700.19 decrease.
- Accept the E. Bremer Avenue Sanitary Sewer Extension 2019 as complete.
- Approve Pay Estimate No. 1 in the amount of \$156,220.72.
- Approve Pay Estimate No. 2 in the amount of \$8,222.14 as the final payment to Boomerang Corp. of Anamosa, Iowa.

Summary Statement

Boomerang Corp. of Anamosa, Iowa, has completed the E. Bremer Avenue Sanitary Sewer Extension 2019 project in accordance with the contract documents. The total cost of the completed work is \$164,442.86. Change Order No. 1 – Final Adjustment of Quantities is for a net decrease of \$18,700.19 to the contract sum.

Tiedt Nursery of Waverly, Iowa, has agreed to complete the final grading, seeding and mulch of disturbed areas in the spring for the original contract unit prices. The total estimated cost is \$4,050.

Expenditure Required

Design, WHKS & Co., Final	\$ 21,987
Construction Cost, Boomerang, Final	164,443
Seeding and Mulching, Tiedt Nursery, Estimate	4,050
Project Administration & Inspection by City, Estimate	<u>7,500</u>
Total Cost of the Project	\$ 197,980
Source of Funds	

S

Total Financing for the Project		\$ 197,980
Connection Fee - Titan Machinery	20,000	
Local Funding TBD, FY 2019-20	\$177,980	

A 177 000

Policy

The proposed 2019 improvement project is consistent with one or more of the following planning documents:

Waverly Comprehensive Plan Update - October 24, 2011

Project Concern

n/a

Alternative

n/a

Project Concern

The project was an immediate need to accommodate a development project and there are no funds budgeted for the work in FY 2019-20. Additionally, the developer planned to occupy the new facilities by April 2020.

Alternative

The new business could have installed a septic system. This option was not ideal because there was interest in developing the land west of 39th Street NE and the sanitary sewer extension was still needed to serve this area.

Background Information

In 1977 the city limits were expanded eastward to the present boundary. In 1986 the City completed a sanitary sewer extension project that stopped at the waterway approximately 1,300 feet short of 39th Street NE.

July 1, 2019	Approve WHKS Engineering Design Agreement
July 2019	Design Work
Aug. 19, 2019	Set Public Hearing Date
Sept. 23, 2019	_Letting
Oct. 7, 2019	_Hold Public Hearing
Oct. 7, 2019	_Award Contract
Nov. 4, 2019	Approve Contract Documents
Nov. to Dec. 2019	Construction Window
February 10, 2020	Finalize Project
April 2020	Titan Occupancy
May 2020	Complete Seeding and Mulching

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Change Order #1
Pay Estimate #1
Pay Estimate #2 - final



City Council Meeting February 24, 2020

SUBJECT: Infrastructure Modeling – Water Distribution System and Sanitary Sewer Collection System - Presentation and Review of Final Reports

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

Representatives from WHKS & Co. will give a summary review of the updated Water Distribution System and Sanitary Sewer Collection System Reports.

Summary Statement

The new 2020 reports update the 2010 Water Distribution and Sanitary Sewer Collection reports. The City has maintained water and sanitary sewer infrastructure reports for many decades with updates performed every 7-10 years. The reports assess the capacity and condition of the infrastructure, and provide recommendations for addressing existing or emerging concerns.

Expenditure Required

Design, WHKS & Co., Not-to-Exceed	\$ 71,900 	\$ 74,000
Source of Funds		
Water Revenue FY 2019-20 (budgeted \$25,000)	\$ 36,350	
Sewer Revenue FY 2019-20 (budgeted \$25,000)	37,650	
Total Financing for the Project		\$ 74,000

Policy

The proposed 2020 improvement project is consistent with one or more of the following planning documents:

- Water Distribution Modeling and Evaluation Report 2010
- Sanitary Collection System Modeling & WPC Facility Facilities Plan Report 2010
- Waverly Comprehensive Plan Update October 24, 2011

Project Concern

None.

Alternative

N/A.

Background Information

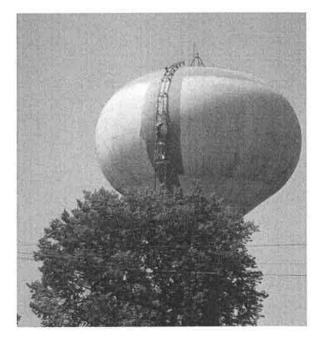
The City has maintained water and sanitary sewer infrastructure reports for many decades with updates performed every 7-10 years.

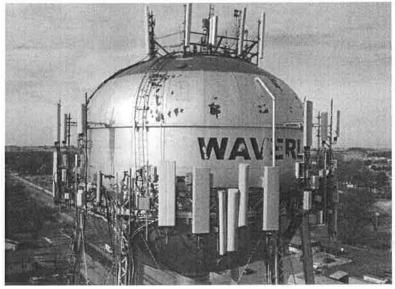
June 3, 2019 Approve WHKS Professional Services Agreement
Summer 2019 Modeling Work
January 2020 Submit Prefinal Reports
February 24, 2020 Review Final Reports

Respectfully submitted,

James Bronner City Administrator









City Council Meeting June 15, 2020

SUBJECT: Airport Obstruction Removal Project 2020

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 4 in the amount of a \$12,067.50 decrease.
- Accept the Airport Obstruction Removal Project 2020 as completed.
- Approve Pay Application No. 4 in the amount of \$6,111.54 as the final payment to Schrader Excavating and Grading Company of Walford, Iowa.

Summary Statement

Schrader Excavating and Grading Company has completed the Airport Obstruction Removal Project 2020 in accordance with the contract documents. The total cost of the completed work is \$122,230.75. Change Order No. 4 is for the final adjustment of quantities.

Expenditure Required

Design & Insp., McClure Engineering, Lump Sum	\$ 31,000
Public Works Administration	3,500
Asbestos Testing, Impact7G, Lump Sum	3,380
Obstruction Removal Cost, Schrader's Bid	106,415
Change Order No. 1	16,575
Change Order No. 2	3,495
Change Order No. 3	7,813
Change Order No. 4	(12,068)
Total Estimated Cost of the Project	

Source of Funds

Total Financing for the Project		\$ 199,400
Acet #331 Land Acquisition FY2019-20	_51,373	
IDOT Airport Development Grant (85% of \$174,150)	\$ 148,027	

Policy

The Airport Obstruction Removal 2020 project follows recommendations cited in the following document for the maintenance and preservation of public infrastructure and facilities:

\$ 160,110

• Waverly Airport 5-year CIP - December 3, 2018

Project Concern

None.

Alternative

NA

Background Information

In the summer of 2017 the City acquired the Clan Properties, LLC parcel west of Runway 11 and Business 218; and in the summer of 2019 the City acquired the Schmidt parcel on the north side of the runway. Both properties have structures and trees that are deemed obstructions and compromise the safety of airport operations.

April 11, 2019	Airport Commission reviewed and approved Airport Development application
April 15, 2019	City Council approves Airport Development application for Obstruction Removal
April 26, 2019	Deadline for filing Iowa DOT Airport Development application
	Notice of Airport Development grants awarded
	Airport Commission reviewed and approved IDOT funding agreement
October 7, 2019	Council Approve IDOT AIP Agreement, McClure's Task #4, Impact7G Agreement
Fall 2019	_Design Work
January 20, 2020	Set Public Hearing Date
February 11, 2020	_Bid Letting
February 17, 2020	_Public Hearing Date
February 17, 2020	
March 2, 2020	_Approve Contract Documents
March 3, 2020	Begin Project
March 16, 2020	_Approve Airspace Easement Agreement for Janssen Property
	_Approve Change Order No. 1
May 4, 2020	Approve Change Orders No. 2 & 3, and Pay App No. 2
Spring 2020	
June 15, 2020	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Change Orders No. 4

Statement of Project Completion (McClure Engineering)

Pay Application No. 4



City Council Meeting September 9, 2019

SUBJECT:

School Ped Ramp Construction 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

Accept the School Ped Ramp Construction 2019 project as complete.

• Approve Pay Estimate No. 1 in the amount of \$13,406.60 as the final payment to Feldman Concrete of Dyersville, Iowa.

Summary Statement

Feldman Concrete has completed the School Ped Ramp Construction 2019 project in accordance with the plans. The total cost of the completed work is \$13,406.60. A final adjustment of quantities is for a net increase of \$1,650.60 to the original contract sum of \$11,756.00.

Expenditure Required

Pedestrian Ramp Construction – Feldman Concrete, Final \$13,407	
Project Administration & Inspection Cost Estimate 1,000	
Total Estimated Cost of the Project	\$ 14,407
Source of Funds	
CIP Acct. #304, Sidewalk Program Const. FY2019-20 \$40,000	
Total Financing for the Project	\$ 40,000

Policy

The School Ped Ramp Construction 2019 project is part of the ongoing citywide program to develop and maintain a pedestrian friendly community for all citizens with or without disabilities. The City's efforts include inspecting and repairing sidewalks and the construction of pedestrian ramps and curbed street crossings. To ensure compliance, the City of Waverly follows recommendations and requirements cited in federal and state documents for the design and construction of pedestrian accommodations.

T		\sim	
Pro	rect	Con	cern

None.

Alternative

None.

Background Information

In 2011 the City implemented the citywide sidewalk repair program and citywide pedestrian ramp construction program. Waverly is divided into 7 districts for sidewalk repairs and pedestrian ramp construction and one district is completed each year. At the February 2019 Council Budget Session, the programs were suspended indefinitely in lieu of a complaint driven approach.

April 15, 2019 W-SR High School class requests Council action to install ped ramps.

July 15, 2019 Approve Quote

July 16 – Aug. 22, 2019 Construction Window

September 9, 2019 Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Pay Application No. 1

Statement of Project Completion

<u>Before</u>



High School



West Cedar



West Cedar/Waverly Homes











City Council Meeting November 18, 2019

SUBJECT: Citywide Asphalt Patching - Fall 2019

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Citywide Asphalt Patching Fall 2019 project as complete.
- Approve Pay Estimate No. 1 in the amount of \$79,786.22 as the final payment to Heartland Asphalt of Mason City, Iowa.

Summary Statement

Heartland Asphalt has completed the Citywide Asphalt Patching - Fall 2019 project in accordance with the contract documents. The total cost of the completed work is \$79,786.22.

Expenditure Required

Construction Cost, Heartland Asphalt, Final	\$ 79,786	
Project Design, Admin. & Inspection Est.	_3,500	
Total Cost of the Project		\$ 83,286
а		
Source of Funds		
RUT & Utility Company Reimbursements	\$ 83,286	
Total Financing for the Project		\$ 83,286

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves repairing asphalt paved streets that have had utility cuts,

August 27, 2019 Bid Letting
September 9, 2019 Award Project
Sept. 16 – Oct. 18, 2019 Construction Window
November 18, 2019 Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachment: Statement of Project Completion

Pay Application No. 1, Final



City Council Meeting July 6, 2020

SUBJECT:

Downtown Alley Reconstruction 2020

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Downtown Alley Reconstruction 2020 project as complete.
- Approve Change Order No. 1 in the amount of a \$1,615.90 decrease as the final adjustment of project quantities.
- Approve Pay Estimate No. 3 in the amount of \$2,156.63 as the final payment to Feldman Concrete of Dyersville, Iowa.

Summary Statement

Feldman Concrete of Dyersville, Iowa, has completed the Downtown Alley Reconstruction 2020 project in accordance with the construction documents. The final cost of the completed work is \$38,235.10.

This project involved rehabbing or reconstructing the south-side alley in the 300 block of West Bremer Avenue. Additionally, there was extensive curb and gutter replacement on the west side of 3rd Street SW to correct poor drainage.

Expenditure Required

\$ 38,235	
4,784	
<u>6,750</u>	
	\$ 49,769
\$ 65,371	
75,000	
(31,000)	
	\$ 109,371
	4,784 6,750 \$ 65,371 75,000 (31,000)

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves rehabbing or reconstructing the south-side alley in the 300 block of West Bremer Avenue.

March 2, 2020	Set Public Hearing Date
March 24, 2020	Bid Letting
April 6, 2020	Hold Public Hearing
April 6, 2020	Award Project
May 4, 2020	Approve Contract, Bonds and Insurance
May – August, 2020	Construction Window
July 6, 2020	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Change Order No. 1 Pay Application No. 3

Alley Reconstruction

Over the past several years the City has been reconstructing alleys in the downtown business district, one at a time. Many businesses have customer access from the back of their building because of the location of the City's public parking lots.





The reconstruction of the alley in the 300 block of West Bremer Avenue, behind the south side businesses such as the Waverly Newspaper office, is shown in these before and after photos. Also, due to poor drainage, the curb & gutter along 3rd Street SW was reconstructed.

The alley reconstruction took about 10 days to complete and was finished on June 3, 2020.



City Council Meeting June 1, 2020

SUBJECT:

Sanitary Sewer Lining by CIP Pipe Liner 2020

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Approve Change Order No. 2 in the amount of a \$400.00 decrease to the project cost.
- Accept the Sanitary Sewer Lining by CIP Pipe Liner 2020 project as complete.
- Approve Pay Request No. 2 in the amount of \$23,365.25.
- Approve Pay Request No. 3 in the amount of \$3,734.75 as the final payment to Municipal Pipe Tool of Hudson, Iowa.

Summary Statement

Change Order No. 2 reflects the final adjustment of contract quantities.

Expenditure Required

Source of Funds

Sanitary Sewer Improvement – CIP Fund #362 \$ 90,485	
Total Financing for the Project	\$ 90,485

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves lining 1,740 feet the City's 8-inch and 12-inch sanitary sewer main by CIP Pipe Liner within 2^{nd} Street NW from Bremer Avenue to 5^{th} Avenue NW.

March 24, 2020	Bid Letting
April 6, 2020	Award Project
May 4, 2020	Approve Change Order No. 1
April 2020	Construction Window
June 1, 2020	Finalize Project

Respectfully submitted,

James Bronner City Administrator

Attachments: Statement of Project Completion

Change Order No. 2, Final

Pay Request No. 2 Pay Request No. 3, Final



City Council Meeting June 15, 2020

SUBJECT: Asphalt Patching - Spring 2020

Finalize Project

Prepared By: Mike Cherry, Director of Public Works & City Engineer

Recommended City Council Action

- Accept the Asphalt Patching Spring 2020 project as complete.
- Approve Pay Estimate No. 1 in the amount of \$21,870.53 as the final payment to Kluesner Construction of Farley, Iowa.

Summary Statement

Kluesner Construction has completed the Asphalt Patching - Spring 2020 project in accordance with the bid documents. The total cost of the completed work is \$21,870.53.

Expenditure Required

Construction Cost, Kluesner, Bid	\$ 10,766	
Additional Quantity	11,105	
Total Cost of the Project		\$ 21,871
• • • • • • • • • • • • • • • • • • • •		
Source of Funds		
RUT & Utility Company Reimbursements	\$ 21,871	
Total Financing for the Project		\$ 21,871

Policy Issues

n/a

Alternatives

n/a

Background Information

This project involves repairing asphalt paved streets that have had utility cuts. This project will also include the leveling of an area on 8th Street SW in the Waverly Business Park.

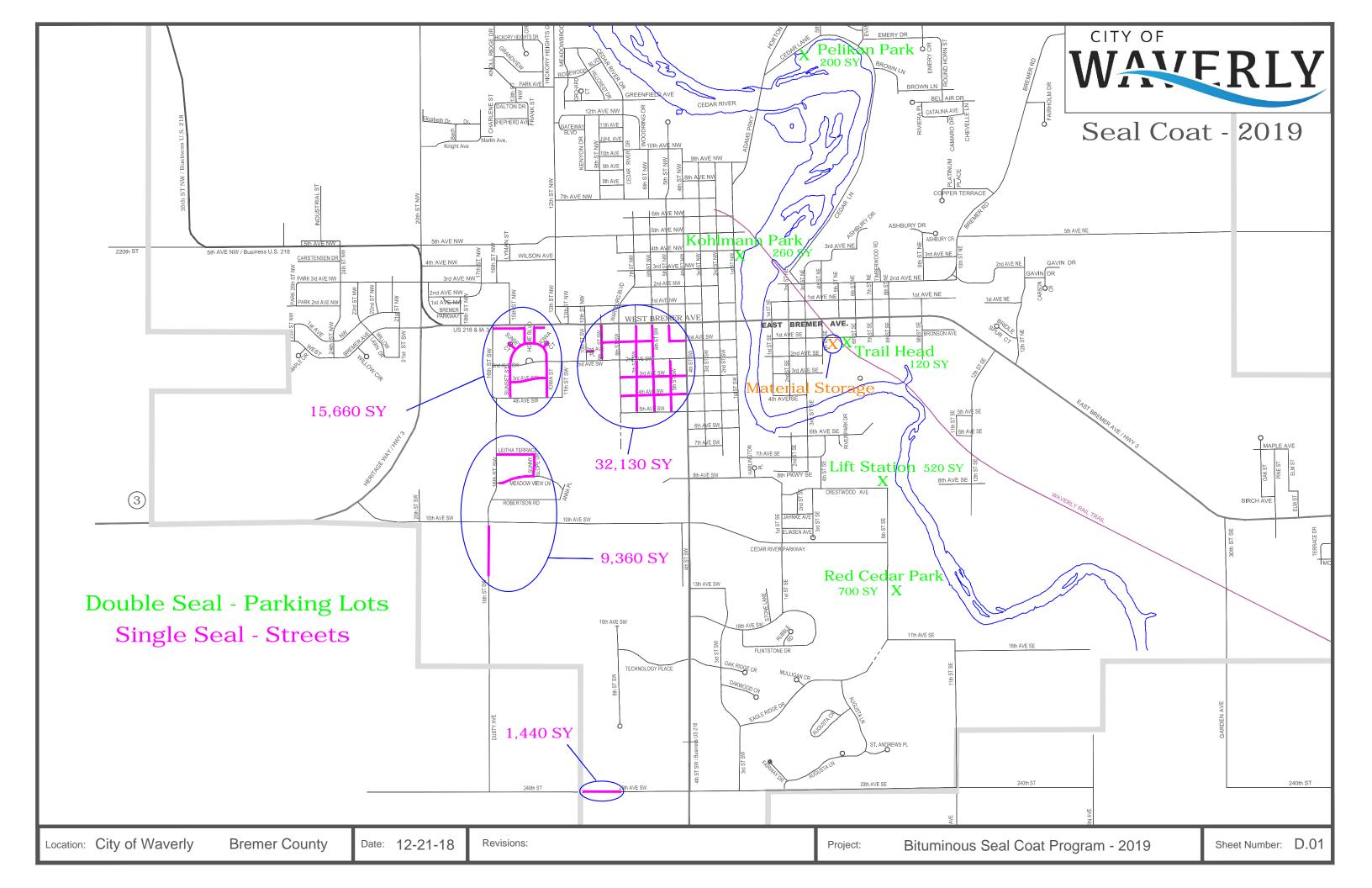
June 15, 2020	Finalize Project
May 2020	Construction Window
May 4, 2020	Award Project
April, 21, 2020	Bid Letting

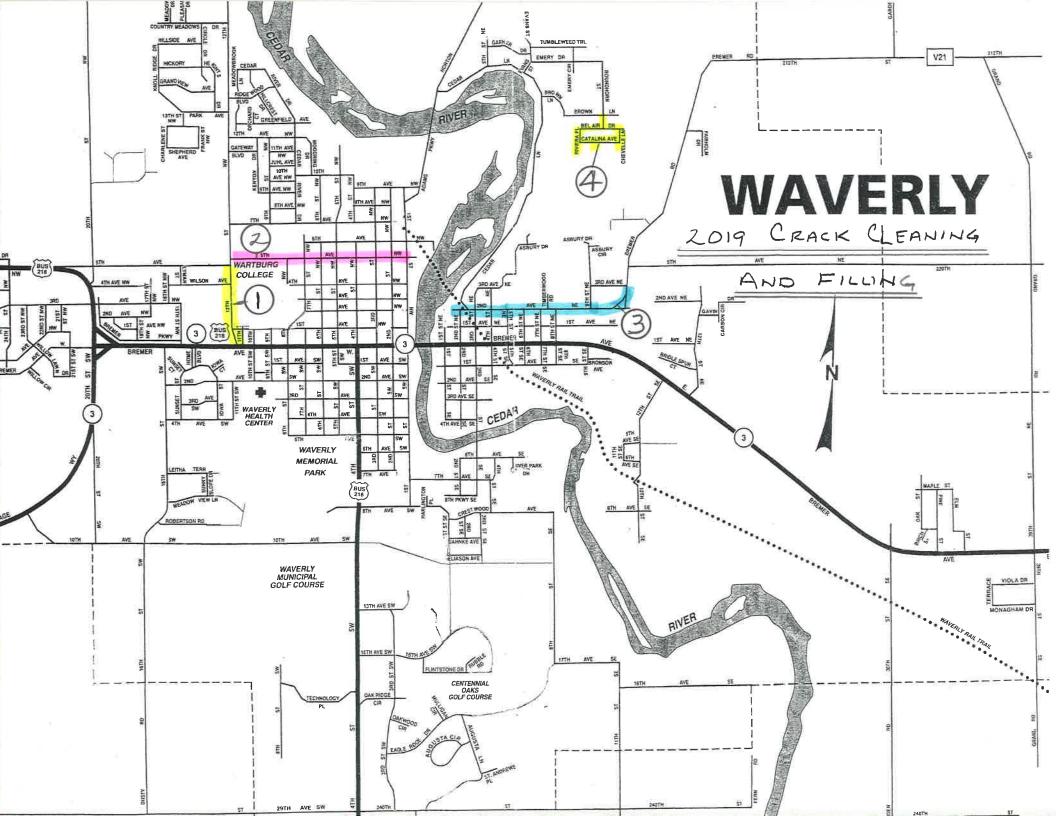
Respectfully submitted,

James Bronner City Administrator

Attachment: Statement of Project Completion

Pay Application No. 1, Final





				City of Waverly													
				City Projects - FY20	019-20												
				Fiscal Year Ending 6/30/													
V Finder	Project			Revised 7/1/2020	2020												
X = Final or Latest Agenda	Packet #											Under Design					
Memo &	Hand-									New	Expense	or Construction	Account				
Contract Summary in	written on	Fund			Original	Ch	nange	Other		Contract	or	in Progress (CiP)	Number			'	
Folder	packet	#		Contractor & Project	Contract	Or	rders	Adjustments		Amount	Capitalize	or Finalized	Expensed		Source of Funds	(from Agenda Memo	os)
X	1	-	Airport	Land Acquisition													
		331	McClu	ire Engineering					emainir	ng parcel for th	e Airport Lan	d Acquisition project.	Actual purchase	to be made in FY2019-20)		
					Approved FAA Gr	rant Agre	eement -	July 15, 2019									
		331	Do	location & Moving Expenses (Schmidt)	Doi: d 626 197 22									Waiting for Crant	Agraamant from EAA		
		331		ncludes Janssen Easement & Trees	Paid \$36,187.33 Paid \$22,889.50						Expense	Complete 4/20/20		-	Agreement from FAA may cover 100% of ex	nenses of \$59.07	¹ 6.83
			'	nerades surissen Edsement & Trees	Total Paid \$59,07	- '6.83					LAPCHISC	Complete 4/20/20		Grane Agreement	u y 00101 10070 01 07	.pe.ises 0. 455,07	0.00
Х	2	ı	A High	vay 3 (Bremer Avenue) Reconstrucion													
		312	WHKS	& Co. (An Iowa DOT project)	\$ 25,000.00			\$ (2,178.1	.0) \$	22,821.90			312-750-6407	CIP Fund 312		\$	4,806,000
			AHTS	(Streetscaping Architects)	\$ 4,560.00				\$	4,077.23				Waverly Utilities (Stree	et Lighting)	\$	236,000
			Iowa	ООТ	\$ 3,041,456.92			s paid in 11/201 has been paid a		sure when or	Capitalize	CiP					
	This is an	IDOT pro	ject. Th	e City will be charged for parking lanes, sidewalk,	water main and stree	et lights.	. There w	vill also be misc.	charge	es, such as Cent						\$	5,042,000
X	3	2	20th St.	NW Recon Ph. 1 RR Crossing Improvement	nts at 20th Street N	IW & 5t	th Avenu	ie NW 2018									
		200	N/aCl.	uro Enginoaving	ć 179.1F0.00			ć 121 700 C	۰ <u>۵</u>	200 000 00			209 750 6407	FY 2017-18 Bond Proc	ands	ć	21 000
		308	IVICCIO	ire Engineering	\$ 178,150.00			\$ 131,700.0	JU \$	309,850.00		CiP	308-750-6407	FY-2017-18 Bond Proc		\$	31,000 1,500,000
			Croell	, Inc. (CO #1, 2 & 3)	\$ 1,092,787.60	\$ (133	3.969.00)		\$	958,818.60		Not Finalized	308-750-6499	State Funding Assistar			279,000
				, (55) = 6. 6,	+ =,cc=,cc:cc	7 (_,,			,	Capitalize					7	
			Terra	con Consultants	\$ 4,550.00	\$	250.00	\$ (257.0	00) \$	4,543.00		Remaining items:	308-750-6407				
												seeding, sidewalk &					\$1,810,000
			Chica	go Central & Pacific (City's 10%)	\$ 16,262.98				\$	16,262.98		smooth roadway over	308-750-6599				
V			Sadan D	D					\$	1,289,474.58		RR tracks					
Х	4	•	.eaar K	iver Parkway (East) Improvements 2018													
		307	Stanle	ey Consulstants	\$ 805,224.00	\$ 1	1,100.00	\$ 695,400.0	00 \$	1,501,724.00			307-750-6407				
			Rento	n's Sand & Gravel (Winter Tree Cutting)	\$ 21,500.00			\$ 1,000.0	nn \$	22,500.00			307-750-6499	FY 2017-18 Bond Proc	eeds	Ś	1,235,000
			Denic	winter free cutting)	Ç 21,300.00			۲,000.0	,U 7	22,300.00			307-730-0433	Future Bond Proceeds		\$	9,000,000
			Crame	er & Associates	\$ 8,147,317.66	\$ (323	3,559.10)		\$	7,823,758.56			307-750-6499			\$	10,235,000
											Capitalize	Finalized 11/4/19					
			Valua	tion Services	\$ 14,250.00			\$ (1,500.0	00) \$	12,750.00			307-750-6499				
			Baker	Enterprises (Spreading mulch on C.R.P.)	\$ 1,120.00				\$	1,120.00			670-840-6499				
			Surve	y Property give to Tim Griggs					Ś	472.89			307-750-6407				
1				. , , 5 - 50-					\$	9,362,325.45							

													1
Latest Agenda	Packet #								Under Design				
Memo & Contract	Hand-						New	Expense	or Construction	Account			
Summary in	written on	Fund		Original	Change	Other	Contract	or	in Progress (CiP)	Number			
Folder	packet	#	Contractor & Project	Contract	Orders	Adjustments	Amount	Capitalize	or Finalized	Expensed	Source of Funds (from Agen	da Memos)	
X	5		Airport Runway 29 Extension 2018										
		330	McClure Engineering	\$ 142,620.00		\$ 159,160.00	\$ 301,780.00			330-750-6407	Federal Grant Request (90%)	\$	1,497,853
											Acct. #330 Extend Runway 29, FY18	\$	5,010
			Contruction Materials Testing (CMT)	\$ 21,301.00			\$ 21,301.00	Capitalize	CiP	330-750-6407	Acct. #330 Extend Runway 29, FY20	\$	24,119
								Capitalize	CIP		Acct. #331 Extend Runway 29, FY21, Proposed	\$	116,645
			J.B. Holland	\$ 1,316,662.60			\$ 1,316,662.60			330-750-6499	Acct. #333 Ostruction Removal, FY 21, Proposed	\$	20,654
												\$	1,664,281
			MidAmerican Energy (Bury powerline)	\$ 24,536.83			\$ 24,536.83						
X	6		Adams Pkwy. Bridge Repair & Horton Road Impr. 2	2019									
			(Horton Road will not be completed with this bridge project)										
	Final Papers	316	WHKS & Co.	\$ 86,810.00		\$ (17,786.53)	\$ 69,023.47			316-750-6407	FY 2018-19, Acct. No. 316	\$	345,000
								Expense	Finalized 8/5/19		FY2019-20, Acct. No. 316	\$	83,000
			Cramer & Associates	\$ 334,196.28	\$ 40,972.37		\$ 375,168.65				FY2019-20, Additional LOST and/or RUT funding	\$	17,606
												\$	445,606
Χ	7		WPC Facility Improvements 2020										
		363	WHKS & Co.	\$ 770,000.00			\$ 770,000.00			363-750-6407	State Revolving Funds - Loan	\$	9,000,000
											WPC Cash Reserves	\$	150,000
			ATC Group Services	\$ 3,250.00			\$ 3,250.00	Capitalize	Under Design	363-750-6499			
								Capitalize	Officer Design				
			Co ntractor							363-750-6499		\$	9,150,000
Х	8		Cedar Lane Reconstruction 2019										
		310	VJ Engineering (Eng. Agreements: 2017 & 2019)	\$ 70,539.50		\$ 24,079.69	\$ 94,619.19	_		310-750-6407	Account #310 LOST FY 2016-17	\$	76,120
								Expense	Finalized 5/4/20		Account #310 Bond FY 2019-20	\$	958,336
			K. Cunningham	\$ 838,114.04	\$ (3,641.10)	\$ 834,472.94			310-750-6499		\$	1,034,456
X	9		Water Main Replacement 2019 (CUNA Water Main Re	alignment)									
		359	VJ Engineering	\$ 42,000.00		\$ (19,515.75)	\$ 22,484.25			359-750-6407	Water Fund (Cash Reserves) FY 2018-19	\$	42,000
								Expense	No longer a project		Water Fund (If Available) FY 2019-20	\$	100,000
									at this time.		LOST, RUT or Other FY 2019-20	\$	320,000
												\$	462,000
V	10		Pituminous Soal Coat Brague 2010										
X	10		Bituminous Seal Coat Program 2019										
		200	Diseites Comisses	ć 107.072.70	ć /7.000.00	A	ć 100.363.01			206 750 6400	200 572040 20		200.000
		306	Blacktop Services	\$ 107,872.70	-	7	\$ 100,263.81	-	Finalized 0/0/40	306-750-6499	306 FY2019-20	\$	200,000
		342	Note: Several Park's Parking Lots were also seal co	ated under Blacktop's c	contract			Expense	Finalized 9/9/19	342-750-6499	306 FY2018-19	\$	(32,000)
											342 FY2017-18	\$	25,000
												\$	193,000

Latest Agenda	Packet #								Under Design					
Memo &	Hand-						New	Expense	or Construction	Account				
Contract Summary in	written on	Fund		Original	Change	Other	Contract	or	in Progress (CiP)	Number				
Folder	packet	#	Contractor & Project	Contract	Orders	Adjustments	Amount	Capitalize	or Finalized	Expensed		Source of Funds (from Ag	nda Memos)	
Х	11	SI	urry Seal Program 2019					·						
		306	Fahrner Asphalt Sealers	\$ 50,483.70 \$	(2,321.00)	\$	48,162.70			306-750-6499	306 FY2019-20		\$	200,000
								Expense	Finalized 10/7/19		306 FY2018-19		\$	(32,000)
											342 FY2017-18		\$	25,000
X	12	Cr	ack Cleaning & Filling Project 2019										\$	193,000
		110	Kluesner Construction	\$ 11,186.00		\$ 6,051.30 \$	17,237.30	Expense	Finalized 9/9/19	110-210-6761	RUT Fund 6761		\$	20,000
X	13	Sa	nitary Sewer Manhole Rehab 2019											
		362	Josh's Construction	\$ 18,074.30		\$ 600.00 \$	18,674.30	Expense	Finalized 11/4/19	362-750-6499	San. Sewer Imp C	IP Fund 362	Ś	40,000
 I		302	JOSH S CONSCIDENCE	3 18,074.30		Ç 000.00 Ş	10,074.30	LAPETISE	1 manzed 11/4/15	302-730-0433	San. Sewer mip C	11 1 4114 302	Y	40,000
X	14	As	sphalt Patching - Spring 2019								004 240 6400	6)	, A	40 200 02
			Location of Assistant	ć 20.512.66		ć 6.240.F0 ć	26 722 24	_				Streets	\$	10,309.93
		various	Heartland Asphalt	\$ 20,513.66		\$ 6,219.58 \$	26,733.24					Streets Water	\$ \$	2,521.02 9,182.85
								Expense	Finalized 7/1/2019			Sewer	٠ ,	776.80
								_				Leveling 8th St. SW	\$	3,942.64
											110 210 0433	Leveling out 5t. 5vv	\$	26,733.24
Х	15	De	og Park Sidewalk 2019										T	20,700.2
		001	Feldman Concrete	\$ 29,129.00		\$ 2,353.00 \$	31,482.00			001-430-6799	Donation by Brian F	Jarvey	Ś	35,000
		001	Telumum contract	25,125.00		Ç 2,333.00 Ç	31,402.00	Expense	Finalized 7/15/2019	001 430 0733	Donation by Brian 1	idivey	7	33,000
X	16	4t	h Street SW Improvements 2020											
	th St. SW		Snyder & Associates	\$ 266,250.00		\$	266,250.00	_		315-750-6407	Local - LOST, GO, TI	•	\$	2,950,000
10	Oth St. SW	318	Starting with Invoice #13, Snyder's invoices where charged 789	% to 4th St. SW and 22% to 10th	St. SW					318-750-6407	Transfer in from Acc		\$	763,732
			Wicks Construction - 4th Street SW	\$ 3,234,960.00		٠	3,234,960.00	Canitaliza	CiP	315-750-6499	Transfer in from Acc		\$	120,000 74,315
			Wicks Construction - 4th Street SW	\$ 909,226.00		\$		Capitalize	CIF	318-750-6499	<u> </u>	onal water & sewer funding	٠ ,	120,000
			Wicks construction 15th Street 5W	7 303,220.00		, , , , , , , , , , , , , , , , , , ,	303,220.00			310 730 0433	*	funding for Const. Activities	\$	590,000
								_			IDOT, TSIP Funding		\$	300,000
													\$	4,918,047
X	17	10	oth Street SW Improvements 2020											
		318	Snyder & Associates	\$ 66,800.00		\$	66,800.00			318-750-6407	Local Funding - GO	Bond, FY2019-20	\$	450,000
								Capitalize	CiP					
			Project to be completed with 4th Street SW							318-750-6499				
X	18	20	oth Street NW Improvements 2020 (Between 5th Ave	e. NW & RR Tracks)										
		210	McClure Engineering	\$ 64.000.00		¢ 42,000,00 ¢	107.000.00			210 750 6407	EV 2010 10 Daniel D	enconds		770 204
		319	McClure Engineering	\$ 64,000.00		\$ 43,000.00 \$	107,000.00	Expense	CiP	319-750-6407	FY 2018-19 Bond Pr FY 2020-21 Transfer		\$	770,201 25,923
			Baker Enterprises	\$ 662,524.25		\$	662,524.25	Lybellse	CIF	319-750-6499	1 1 ZUZU-ZI ITAIISIEI	III II OIII ACCL. 306	\$	796,124
				y 002,324.23		,	552,524.25			313 730 0433			7	750,124
						FCTS -FISCAL YEAR	\ C D\ \ / D = 1 = = +							

1							Т							
Latest Agenda Memo &	Packet #									Under Design				
Contract	Hand-							New	Expense	or Construction	Account			
Summary in	written on packet	Fund		Original	Change		Other	Contract	or	in Progress (CiP)	Number			
Folder	рискет	#	Contractor & Project	Contract	Orders	Adjı	ustments	Amount	Capitalize	or Finalized	Expensed	Source of Funds (from Agenda	Memos)	
X	19		Downtown Alley Reconstruction 2019											
		309	Feldman Concrete	\$ 27,556.00		\$	104.00	\$27,660			309-750-6499	GO Bond - CIP Fund 309 FY2018-19	\$	65,371
									Expense	Finalized 10/7/19		GO Bond - CIP Fund 309 FY2019-20	\$	75,000
													\$	140,371
X	20		E. Bremer Avenue Sanitary Sewer Main Extension 2	019										
		364	WHKS &Co.	\$ 22,285.00		\$	(297.55)	\$ 21,987.45			364-750-6407	Local Funding TBD FY2019-20	\$	177,980
												Connection Fee - Titan Machinery	\$	20,000
			Boomerang	\$ 183,143.05		\$ ((18,700.19)	\$ 164,442.86	Capitalize	Finalized 2/10/20	364-750-6499		\$	197,980
			Tiedt Nursery (to complete seeding in Spring 2020)	\$ 4,200.00				\$ 4,200.00	_		364-750-6499			
X	21		Infrastructure Modeling - Water Distribution System	n and San. Sewer Col	lection Syste	em								
	50%		WHKS &Co.	\$ 71,900.00		\$	(3,487.64)	\$ 68,412.36			600-810-6490	Water Revenue FY 2019-20 (budgeted \$25,000)	\$	36,350
	50%	610							Expense	Final Report 2/24/20	610-817-6490	Sewer Revenue FY 2019-20 (budgeted \$25,000)	\$	37,650 74,000
													۶	74,000
Х	22		Airport Avionics Room 2020											
			Applied for GAVI Grant. Did not receive grant.											
			Architect									DOT GAVI Grant Req. 85% of \$184,000 = \$156,400	\$	150,000
									Capitalize	No Funding Rec'd		Airport Cash Reserve FY2019-20	\$	34,000
			Contractor										\$	184,000
Х	23		Airport Obstruction Removal 2020											
		333	McClure Engineering	\$ 31,000.00				\$ 31,000.00			333-750-6407	IDOT Airport Dev. Grant 85% of \$174,150	۲	148,027
		333	ivicciare engineering	\$ 51,000.00				\$ 51,000.00			333-730-0407	Acct. #331 Land Acq. FY2019-20	۶ ¢	51,373
			Schrader Excavating & Grading	\$ 106,415.00		\$	15,815.75	\$ 122,230.75	Expense	Finalized 6/15/20	333-750-6499	Acct. #331 Land Acq. 112013-20	\$	199,400
			Samuel Exertaining & Stating	φ 100,113.00		Ψ	13,013.73	· 122)230.73	2//00/100		333 730 0 133		Ψ	133,100
			Impact7G (Asbestos)	\$ 3,380.00				\$ 3,380.00			333-750-6499			
Х	24		Business 218 North Resurfacing 2020											
		317	WHKS & Co.	\$ 44,424.00		\$	(336.18)	\$ 44,087.82	Expense	Construction Not	317-750-6407	Local Funding CIP Debt Proceeds FY2019-20 Federal Aid (STBG Funding) FY2019-20	\$	462,121 360,000
			Heartland Asphalt	\$ 845,725.66				\$ 845,725.66	Expense	Yet Started	317-759-6499	Local Funding, if necessary, LOST or RUT FY2020-21	\$	108,000
				, ,				,					\$	930,121
Х	25		Rolling Prairie Trail Extension 2021		10. A = = 1 . C	un al At	f CDT (d- t- 2020						
			Applied for TAP & SRT funding through INRCOG. Re						-			CID EV 2020 21	<u> </u>	75 500
			Contractor or Engineer	SRT funds will pay r	nore \$. If City	ıs awar	aea SKT, Cit	y wiii	Canitalias	Maiting for Funding		CIP FY 2020-21	\$.c	75,500
				decline TAP funds.					Capitalize	Waiting for Funding		SRT Funding FY2020-21	\$	220,500 296,000
													۲	230,000

Memo & Contract Summary in Folder X 26	ten on	Fund		The second secon				N1		or Construction	A = =				
Folder packet				Oninin - I	Charact		Other	New	Expense	or Construction	Account				
		#	Contractor & Project	Original Contract	Change Orders		justments	Contract Amount	or Capitalize	in Progress (CiP) or Finalized	Number Expensed		Source of Funds (from Agenda	Memos)	
X 26	20	"		Contract	Gracis	710	justificites	7 illioune	Capitalize		Ехрепзеа		Source of Fullus (Hollingelluu	IVICIII03)	
	20	•	School Ped Ramp Construction 2019												
		304	Feldman Concrete	\$ 11,756	.00	\$	1,650.60	\$ 13,406.60	Expense	Finalized 9/9/19	304-750-6499	CIP Acct. #304, Sidev	walk Program Const FY2019-20	\$	40,000
X 27	27	•	Youth Ballfields 2019 (Cedar River Park)						_						
			i i												
		339	Hall & Hall Engineering	\$ 308,550	.00			\$ 308,550.00			339-750-6407	Local Funding - G.O.		\$	700,000
			20 1 77	ģ 700 04 C	00			¢ 700.046.00	Expense or	C'D	220 750 6400	Other Funding - Inte	rfund transfer or sale of assests		600,000
			Mehmert Tiling	\$ 709,016	.89			\$ 709,016.89	Capitalize	CiP	339-750-6499			\$	1,300,000
			ATC (Geo Tech)	\$ 4,700	.00			\$ 4,700.00	_		339-750-6499				
X 28	28		Asphalt Patching - Fall 2019												
	V	/arious	Heartland Asphalt	\$ 46,170	.13	\$	33,616.09	\$ 79,786.22	_		various		Streets	\$	34,733
									Expense	Finalized 11/18/19			Streets	\$	16,375
													Nater Leveling on Horton Road	\$	2,499 26,180
									_			110-210-7499	Leveling on Horton Road	\$	79,786
X 29	29	(GIS Data Collection 2019												,
									_						
		301	Midland GIS Solutions	\$ 211,564	.00			\$ 211,564.00	F	MUD	301-750-6499				
									Expense	WiP					
									_						
X 30	30	ı	Bituminous Seal Coat 2020												
		306	Blacktop Services	\$ 205,778	.50			\$ 205,778.50	-	Start Project	306-750-6499	Account #306 FY 202		\$	200,000
									Expense	7/13/20		Account #306 FY 201	18-19 (fund balance)	\$	64,555 264,555
									_					7	204,333
X 31	31		Downtown Alley Reconstruction 2020												
									_						
		309	Feldman Concrete	\$ 39,851	.00 \$ (1,615	5.90)		\$ 38,235.10	-	Finalized 7/6/20	309-750-6499		d #309 (FY2018-19 Fund Bal.)	\$	65,371
									Expense	Finalized 7/6/20		Fall 2019 Alley Recor	d #309 (FY2019-20 Funding)	\$	75,000 (31,000)
									_			Tun 2023 Amey Needs	istraction respect	\$	109,371
X 32	32	(Crack Cleaning & Filling 2020												
		110	Kluesner Construction	\$ 12,400	.00			\$ 12,400.00	Evnores	Construction Not	110-210-6761	RUT Fund Palance		\$	10,000
									Expense	Yet Started		RUT Fund Balance - A	AS Needed	\$	4,400 14,400
									-					٠	14,400

1 -44 0	Do alcot #								Under Design						
Latest Agenda Memo &							Name		Under Design or Construction	A					
Contract	Hand-	FI		Oni-in-I	Clara	O41	New	Expense		Account					
Summary in	written on packet	Fund	Combination 9 Discipat	Original	Change	Other	Contract	Or	in Progress (CiP) or Finalized	Number		Course of E	unders a la		
Folder		#	Contractor & Project	Contract	Orders	Adjustments	Amount	Capitalize	or Finalized	Expensed		Source of Fi	unds (from Agenda I	viemos)	
Χ	33	S	anitary Sewer Lining Project 2020												
		362	Municipal Pipe Tool	\$ 64,322.00		\$ 10,373.00	\$ 74,695.00			362-750-6499	Sanitary Sewer I	mprovement - CIP F	und #362	\$	90,485
								Expense	Finalized 6/1/20						
Х	34	А	sphalt Patching - Spring 2020												
			VI. saman Canatau atian	ć 10.766.02		ć 11 104 F1	ć 24.070.F2	-			001 210 6400	Chunata		<u>,</u>	7.542
		various	Kluesner Construction	\$ 10,766.02		\$ 11,104.51	\$ 21,870.53	_		various	001-210-6499	Streets		\$ ¢	7,542
									Finalized 7/C/20		110-210-6499	Streets		\$ ¢	329
								Expense	Finalized 7/6/20		600-810-6499	Water		\$	2,237
								_			610-817-6499	Sewer Line		\$ ¢	6,979
								_			309-750-6499	Downtown Alley	by new C&G	\$	4,784
V	25	^	import T. Hangay Tavilanas Basanstruction 2021	•										\$	21,871
Х	35	A	irport T-Hangar Taxilanes Reconstruction 2021												
			McClure Engineering	\$ -			\$ -				IDOT Airport Do	velopment Grant (8	0% of \$200 SEO)	۲	239,880
			Micciure Engineering	Ş -			\$ -	Evnonco	Waiting for Funding	XX		Acquisition FY2019			
			Contractor					Expense	waiting for Fullding		ACCL. #331 Lanu	Acquisition F12019	-20 Fulla Bal.	\$	59,970 299,850
			Contractor							XX				۶	299,830
Х	36	0	old WPC Dome Demolition 2020												
^	30														
		365	WHKS	\$ 19,000.00			\$ 19,000.00			365-750-6407	CIP Acct. #365 F	V2020_21		Ś	200,000
		303	WIRS	γ 19,000.00			3 19,000.00	Expense	Under Design	303-730-0407	CIF ACCL #303 I	12020-21		۲	200,000
			Contractor					LAPETISC	Officer Design	xx					
			Contractor							^^					
Χ	37	Δ	irport Concrete Apron Rehabilitation 2020												
Λ	37		port concrete Apron Renabilitation 2020												
		004	McClure Engineering	\$ 2,750.00			\$ 2,750.00	-		xx	Airport Fund Ba	lance FY2020-21		\$	30,000
		004	Wester Engineering	φ 2,730.00			2,730.00	Expense	Under Design	AA .	7 iii pore i una bai	141166 1 12020 21		7	30,000
			Contractor					Expense	Onder Besign	xx					
			THE COLUMN TO TH					-		AA .					
X	40	Т	raffic Study 2020												
		345	Snyder & Assoc	\$ 158,100.00			\$ 158,100.00	Expense	Under Contract	345-752-4820	Account #345-7	52-4820 G.O. Bond	FY 2019-20	\$	185,000
				+ 253,200.00			, 100,100.00	ļ		112 102 1020	112000			7	
Χ	41	Р	ublic Services Center - North Addition												
		302	Farnsworth Group	\$ 231,250.00			\$ 231,250.00	-		302-750-6490	Acct. #302				
				+			,	Capitalize	Under Design	112 100 0 100		ter & Solid Waste T	ransfers	Ś	1,000,000
			Contractor						2.120. 200811	302-750-6499	FY2021-22 Bon			Ś	1,900,000
										332 733 0433	1.12321 22 5011	_		\$	2,900,000

City of Waverly **Department of Public Works**FY 2019-20

GENERAL INFRASTRUCTURE MAINTENANCE

A primary responsibility of the General Infrastructure Maintenance Division is to finance and/or inspect the following infrastructure:

- Inspect and perform routine maintenance on the dam.
- Pay for traffic signal maintenance.
- Inspect trail bridges every four years.
- > Finance the USGS Cedar River Gage on Adams Parkway Bridge.
- > Finance community wide street lighting, entrance signs and traffic signals.

Additionally, the local property tax support of the Waverly Municipal Airport is shown as an expense and transfer of monies to the Airport Fund.

City of Waverly **Department of Public Works**FY2019-20

EQUIPMENT SERVICES

The Equipment Services Division is responsible for routine maintenance and repairs for City vehicles; purchases parts utilized and inventoried for vehicles; and performs welding or fabrications that may be needed.

Equipment Services also prepares the specifications and bid documents for the purchasing of new equipment and vehicles and the sale of used equipment and vehicles.

Vehicle Repairs

2015-16	2016-17	2017-18	2018-19	2019-20
			2010-13	2019-20
564	676	597	386	561
86	94	101	102	115
33	49	40	30	32
3	30	15	12	18
74	67	35	26	20
194	198	148	117	102
467	496	504	638	667
\$ 77,076	\$ 115,810	\$ 96,052	\$ 99,832	\$ 103,337
\$ 38,487	\$ 52,308	\$ 51,770	\$ 55,864	\$ 54,362
	86 33 3 74 194 467 \$ 77,076	86 94 33 49 3 30 74 67 194 198 467 496 \$ 77,076 \$ 115,810	86 94 101 33 49 40 3 30 15 74 67 35 194 198 148 467 496 504 \$ 77,076 \$ 115,810 \$ 96,052	86 94 101 102 33 49 40 30 3 30 15 12 74 67 35 26 194 198 148 117 467 496 504 638 \$ 77,076 \$ 115,810 \$ 96,052 \$ 99,832

Fuel Purchased

	2015-16	2016-17	2017-18	2018-19	2019-20
Unleaded Fuel (Gals)	24,415	22,988	21,010	25,936	26,833
Unleaded Fuel (\$)	\$ 53,826	\$ 47,099	\$ 59,116	\$ 66,793	\$ 63,161
Diesel Fuel (Gals)	44,284	45,910	41,791	46,500	44,026
Diesel Fuel (\$)	\$ 185,553	\$ 101,284	\$ 123,358	\$ 140,020	\$ 119,452

City of Waverly - Public Works

Equipment Services

Vehicles & Equipment Purchased

FY 2019-20

Department / Division	Vehicle or Equipment Purchased & Make / Model	Bid Date	Low Bidder	Low Bid \$	Trade-In \$	Net Bid \$	Trade-In	Date Received
Public Works / Sewer Maint	2019 H&H Skid Load Trailer	07/25/19	Patten Trailers Urbana	\$6,067	\$1,500	\$4,567	1997 Stokes Welding Skid Loader Trailer	July 2019
Public Works / Streets	2020 Freightliner 108SD Cab & Chassis	11/12/19	Don's Truck / Fairbank	\$80,050	\$22,000	\$58,050	2007 Sterling Hook Lift Dump Truck	June 2020
Public Works / Streets & Solid Waste	2020 Gehl AL750 Compact Wheel Loader	12/31/19	Star Equipment Cedar Rapids	\$71,095	\$12,296	\$65,198	2003 Bobcat Skid Loader	April 2020
Public Work / Streets	2020 Massey Ferguson 7720S 4WD Tractor w/Cab	01/20/20	Deike Imp Waverly	\$140,798	\$35,000	\$105,798	2001 Fendt 411 w/Loader	May 2020
Public Works / Equip Services	2020 Dodge Ram 2500 3/4 ton 4x4 Pickup	01/15/20	Krueger Auto Waverly	\$28,870	-	\$28,870	-	May 2020
Public Works / Sewer Maint	2020 Dodge Ram 3500 1-ton pickup	01/15/20	Krueger Auto Waverly	\$33,954	\$10,125	\$23,829	2009 Ford F350 Pickup	May 2020
Public Works / Sewer Maint	Brand X Fiberglass Body for Dodge Cab & Chassis	02/03/20	Stellar Truck Mason City	\$15,998	-	\$15,998	-	July 2020
Public Works / Streets	Skeleton Grapple /Bucket Attachment	02/03/20	Star Equipment Cedar Rapids	\$4,700	-	\$4,700	-	Feb. 2020
Public Works / Streets	2020 Kage Innovation SBK96 Snowfire System (Snow Pusher)	04/01/20	Star Equipment Cedar Rapids	\$7,550	-	\$7,550	-	April 2020
Public Works / Streets & Solid Waste	2006 Doosan G25E-5 Fork Lift	04/24/20	Big River Equip Waterloo	\$21,050	-	\$21,050	-	May 2020

Sale of Used City Vehicles & Equipment

FY 2019-20

	Vehicles or Equipment			
Division	Sold	Bid Date	Winning Bidder	Bid \$
Airport	2 Small End Tables	07/26/19	Scott Brown	\$ 20.00
Airport	Gray Office Chair	07/26/19	Sally Petersen	\$ 41.00
Airport	Drafting Table	07/26/19	Kenny Epley	\$ 25.00
Airport	Rocker Recliner	07/26/19	Darrel Hirsch	\$ 11.00
Airport	6 Black Guest Chairs	07/26/19	Karen Thalacker	\$ 90.00
Airport	Two-Drawer File Cabinet	07/26/19	Mike Gabe	\$ 5.25
Airport	Pop Machine	07/26/19	Seth Engelbrecht	\$ 101.00
Water	Stanley Power Hydraulic Unit	12/27/19	Chad Heim	\$ 1,360.00
Streets	2002 GMC Sierra	06/12/20	Lori Winters	\$ 2,002.00

City of Waverly **Department of Public Works**

FY 2019-20

STREETS - RUT

The Street Division involves many diverse areas. These areas will be summarized individually to overview the annual events. The Street Division maintains approximately 75+ miles/ 1,162 blocks of primary streets, 10 miles of gravel roads and alleys, and numerous municipal-owned parking lots.

Street Maintenance and Reconstruction

Seal Coat Program
Pothole Repair
Crack Sealing

Snow Removal

Painting

Line Striping Curb Painting School Crossing Signs Dry Run Walk Bridges

Special Collection Week (Furniture, Appliances, Tires, Yard Waste, & Brush)

Fall Leaf Pickup

Mowing

Street Sweeping

Road Grading

Alley Maintenance

Street Signs

Maintenance Replacement

Emergency Response

Flash Flooding

Storm Damage Cleanup Other Manpower Needs

Parking Lot Maintenance

City of Waverly - Public Works

Streets - RUT

Work Hours Per Core Services

FY 2019-20

<u>Streets</u> Shoulder Work/Recon	<u>Hours</u> 1,231	<u>Painting</u> Line Striping,	<u>Hours</u>
Road Grading Alleys Cold Mix Patching /	21 59	Curbs & X-Walks	540
Durapatching Street Sweeping Weed Mowing / Tree Trimming Rock / Chips Hauling	866 754 1,553 239	Snow Removal Sand Hauling Snow Fence Snow Plowing Snow Removal Sanding	35 38 436 270 203
Maintenance Catch Basins Bridges Culverts Manholes Dry Run Building Maintenance Equipment Maintenance	168 4 11 455 0 145 804	Signs Repair &/or Replace New Installations Special Projects Airport Yard Waste Spring Clean-up & Fall & Winter Clean-up Mulch & Compost Deliveries Water Dept Solid Waste Dept Sewer Maintenance WPC Dept Recycling Center Cemetery Dept Golf Course Dept Equip Services	127 162 14 168 32 55 1,091 13 40 20 2
		Parks Dept Hospital Meetings / Training	21 1 84

City of Waverly - Public Works Streets - RUT

Street Maintenance & Construction

2019-20

MATERIAL COMPARISON REPORT

Fiscal Year	2015-16	2016-17	2017-18	2018-19	2019-20
Asphalt Patch					
Tons	152	145	154	161	192
Cost (\$)	\$16,723	\$15,918	\$16,585	\$18,300	\$22,464
Road Rock					
Tons	779	509	254	994	1,147
Cost (\$)	\$7,156	\$4,681	\$2,375	\$9,446	\$11,123
3/8" Chips					
Tons	56	92	173	64	151
Cost (\$)	\$665	\$1,116	\$2,106	\$795	\$1,502
CRS-2 Oil					
Gallons	2,714	1,480	5,474	1,665	3,308
Cost (\$)	\$4,750	\$2,591	\$8,072	\$3,163	\$5,956

STREET MAINTENANCE (BLOCKS)

Fiscal Year	2015-16	2016-17	2017-18	2018-19	2019-20
Single Seal Coat (Bid)	100	100	100	100	90
Double Seal Coat	3	0	1	0	0
Slurry Seal Coat	0	8	22	10	7

STREET RECONSTRUCTION

	Linear Feet	Miles
2015-16		
2nd Avenue SW Reconst. (10th Ave. SW to 4th St. SW)	1,056	0.2
2nd Street NW Reconst. (Bremer Ave. to 3rd Ave. NW)	298	0.06
2016-17		
16th Street SW (4th Ave. SW to Meadow View)	1,420	0.27
2017-18		
no street project	0	0
2018-19		
no street project	0	0
2019-20		
Cedar Lane (2nd Ave. NE to Brown Lane)	4,814	0.91

Note: The 20th St. NW Reconstruction - Ph. 1 RR Crossing Improvements at 20th St. NW & 5th Ave. NW 2018 - project has not yet been finalized (1,100 LF)

NEW STREET CONSTRUCTION

	Linear Feet	Miles
2015-16		
Cedar River Parkway (4th St. SW to 8th Street SE	4,456	0.84
2019-20		
Cedar River Parkway (8th Street SE to E. Bremer)	5,721	1.08

Note: Whitetail Bluff subdivision started street construction in 2020.

SNOW REMOVAL MATERIAL COMPARISON

Fiscal Year	2015-16	2016-17	2017-18	2018-19	2019-20
Rock Salt					
Tons	661	989	821	852	729
Cost (\$)	\$54,360	\$79,073	\$61,172	\$69,367	\$64,195
Ice Sand					
Tons	0	321	30	8	120
Cost (\$)	\$0	\$1,900	\$270	\$188	\$1,082

City of Waverly

Department of Public Works

FY 2019-20

AIRPORT

Airport Commission Members (Since)

Eric Bagelmann (January 2018)	Active
Dennis Hansen (May 2006)	Active
Lee Hinrichs (September 2018)	Active
Mike Sherer (December 2019)	Active
Jane Wollenzien (May 2014)	Active

Irvin Swieter, Swieter Aircraft Services – FBO (November 2018 – October 2023) 5-yr Agreement Irvin Swieter, Waverly Air Services – Airport Manager (November 2018 – October 2023) 5-yr Agreement

Kris Glaser, Council Liaison (January 2020)

Tim Kangas, Council Liaison (March 2015 – December 2019)

Mike Cherry, City Engineer (April 1997)

Highlights for July 2019 - June 2020

Land Acquisition

The Airport Land Acquisition 2012 project requires acquisition of real property and easements in order to expand the safety zone and also lengthen the runway 400 feet. The following parcels have been purchased or an easement (E) has been obtained (see attached drawing):

Parcels #2, 4 & 7 – William Lowe - \$570,000

Parcels #3 & 10 – James & Sandra Janssen - \$155,500

Parcels #6 & 6E – Glen & Kathy Burkle - \$150,000

Parcel #8E – Mueller Farms - \$6,965

Parcels #1 & 9 - Eugene & Jolene Miller (Clan Properties, LLC) - \$393,856

Parcel #5 – Marvin & Margene Schmidt - \$380,000

Airport Obstruction Removal

Removal of Clan (Milller) & Schmidt structures and trees by Schrader Excavating of Walford, lowa for \$122,231.

Airport Runway 29 Extension 2018

➤ On April 15, 2019 Council approved a contract with J.B. Holland of Decorah, lowa for the construction of the Runway 29 Extension project. This project will extend the runway eastward by 400 feet.

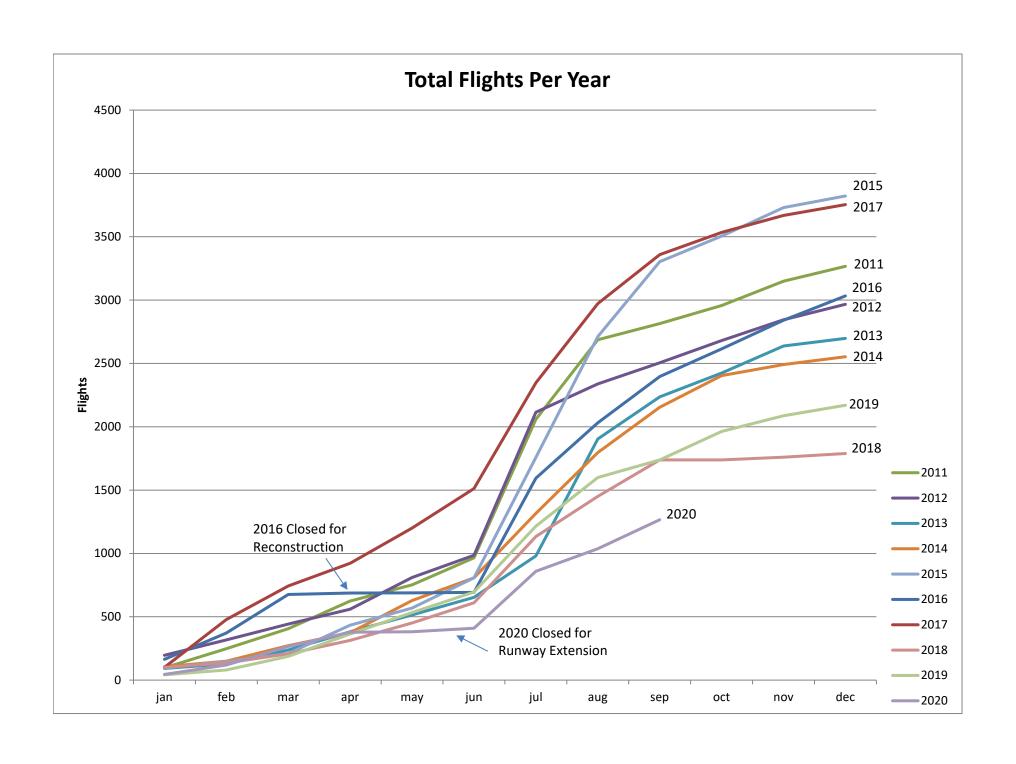
The Runway 29 Extension project was approved by the FAA and the cost will be funded 90% by the Federal Aviation Trust Fund and funded 10% locally through the city's urban renewal authority.

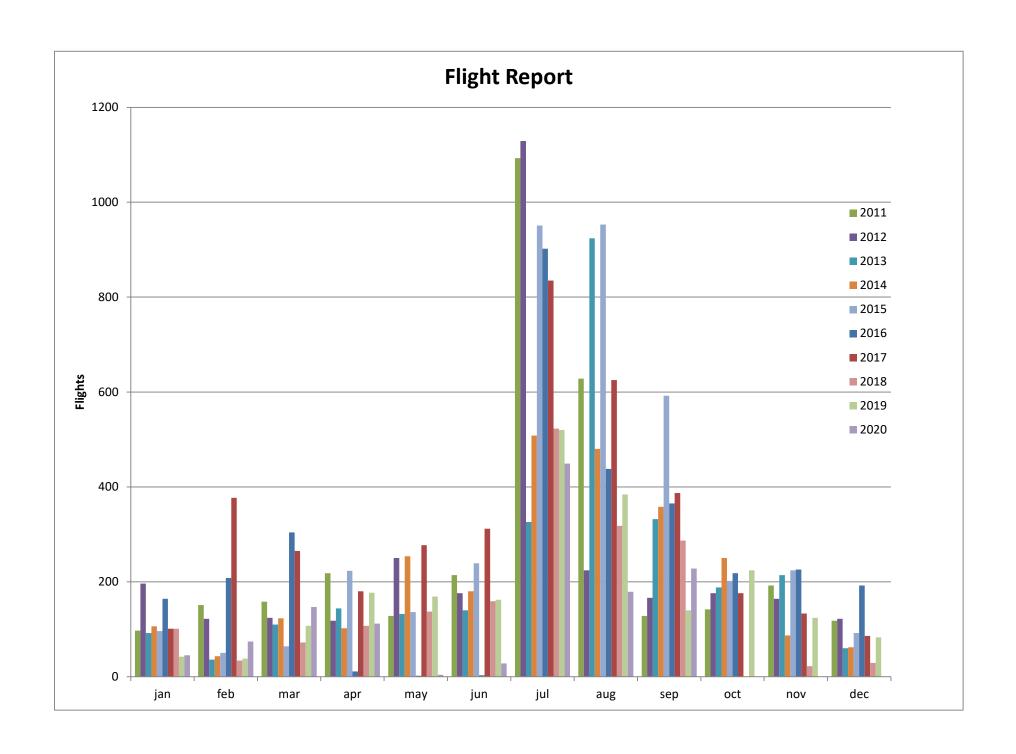
Looking to the Future:

- Winter 2020 Addition of Credit Card Fueling (by FBO)
- Add Avionic Maintenance Room
- Replace Obsolete Security Cameras
- ➤ Upgrade Electrical Power Supply to T-Hangars and Individual Hangars
- Reconstruct Hangar Taxiways
- Construct New T-Hangars

Report Summary:

The Waverly Airport continues providing valued services to the community and the surrounding region. The Airport Commission is proud of the advancements that have been made and appreciate the City's support and help in those efforts. Waverly is a steadily growing community and the Airport continues to provide a significant economic benefit at minimal cost to the City's tax payers.





City of Waverly **Department of Public Works**FY 2019-20

WATER

The Water Division is responsible for the operation and maintenance of the total water system including wells, towers, piping, pumps, controls, hydrants, and other equipment within the City of Waverly. This division performs or provides programs as follows: replacement of older system valves and hydrants, valve box raising and replacement, valve turning, hydrant flushing and flow testing, water main repair, water main testing and installation, water quality testing, answers customer complaints on taste, smell, usage, or questions regarding water quality as per articles that appear in the newspapers.

The Water Division supplies water to Waverly residents and industry utilizing four wells, three towers, and approximately 76 miles of water main. This includes 709 fire hydrants, 1379 water main valves, over 552 hydrant valves, and 4,333 meters. The pumping capacity of the system is approximately 5,300 gallons per minute and total storage of 1,750,000 gallons elevated. The average daily pumpage for FY 2019-20 was 955,333 gallons per day.

During FY 2019-20, the Water Division continued to locate and correct water leaks. The Water Division also responded to 1,813 lowa One Calls and located underground utilities for water, sanitary sewer and storm sewer. Our billing to pumpage accountability has been calculated at 74.3%.

FUTURE PROJECTS

- 1. Continue replacement of older system valves and hydrants.
- 2. Continue education on the ever-changing regulations set forth by the IDNR and USEPA to insure a safe drinking water system.
- 3. Continue with the Source Water Protection Plan to reduce or eliminate certain contaminates from entering our ground water source and to educate the public on the importance of such a plan.

City of Waverly - Public Works Water

Core Services

FY 2019-20

Water Meters	Totals
New Meter Installations	74
Meters Replaced	25
Seasonal In	54
Seasonal Out	58
ERTs	125
Meters Tested & Repaired	69
Hyd. Meters / Hose Bib Meter	97

Water Service Lines	Totals
Capped Services	3
Service Line Taps	3
Sound Detection	25

Water Mains	Totals
Repaired	12
Replaced	0
Sound Detection	21
Large Taps (4"-6"-8")	0

Water Valves	Totals
Valves Operated	169
Valves Installed	3
Valves Repaired	3
Valves Replaced	2

Water Valve Boxes	Totals
Boxes Repaired	24
Boxes Installed	4
Boxes Cleaned	34
Boxes Raised	16
Boxes Lowered	6

Number of Locates	Totals
Iowa One Call Tickets	1,813
Structures Located from IOC Tickets	5,439
Responses Entered	1,813

Hydrants	Totals
Flushed	406
Repaired	125
Replaced	0
Installed	1
Painted	82
Flagged	5

Water Towers	Visits
Interior	89
Exterior	89
Exterior Maintenance (hours)	10

Wells	Visits
Interior	1,120
Exterior	1,120
Exterior Maintenance (hours)	35

Other Projects	Total
Contractors	394
Other City Departments	100

Service Center	Hours
Record Keeping (# of Hours)	510
Equipment Maintenance (Hrs)	88
Building Maintenance (Hrs)	40
Customer Care	121
Call Outs (Law Center/SCADA Alarms)	41

Number of Samples Taken	Totals
Bacteria	126
Chlorine	1,550
Fluoride	1,580
Nitrate	62

City of Waverly - Public Works Water

Operational Data & Gallons Pumped

FY 2019-20

Operational Data for Water System Repairs

	2015-16	2016-17	2017-18	2018-19	2019-20
Main Lines	14	12	24	14	12
Service Lines	12	13	32	11	4
4" Valves Installed	2	1	2	2	1
6" Valves Installed	2	1	1	1	2
8" Valves Installed	1	1	1	0	0
12" Valves Installed	0	0	0	0	0
Service Lines Capped	8	4	6	3	3
3/4" Taps Made	3	5	2	2	2
1"-2" Taps Made	13	15	30	3	1
4" Taps Made	1	0	0	0	0
6" Taps Made	8	5	0	0	0
8" Taps Made	2	4	0	0	0

Gallons Pumped Versus Gallons Billed

	Gallons Pumped	Estimated Unmetered Gallons*	Gallons Billed	Percent
				Accountable
2019-20	349,624,000	9,521,000	250,099,000	74%
2018-19	341,884,000	13,058,000	243,332,000	75%
2017-18	358,615,000	19,588,000	250,852,000	75%
2016-17	356,489,000	46,187,000	247,064,000	82%
2015-16	352,702,000	46,184,000	254,403,000	85%

^{*} Estimated Unmetered Gallons are for hydrant flushing, watermain flushing, sewer jet machine, street sweeper, Fire Department, water leaks, etc.

Water Consumption

Salesman Gallons	94,800
Salesman Revenue	\$480
City Consumption Gallons	9,521,000
Highest Pumping Day	1,411,000
Lowest Pumping Day	724,000
Average Pumping Day	955,333
Total Gallons Pumped	349,624,000

City of Waverly **Department of Public Works**FY 2019-20

WATER POLLUTION CONTROL

The Water Pollution Control Division operates and maintains the wastewater treatment facilities for the City. These facilities are the treatment plant, main lift station, and nine smaller lift stations. The testing and monitoring of industrial discharges plus disposal of biosolids are also the responsibility of the WPC Division. The efficient operation and maintenance of these facilities are required by permits and monitored by State and Federal agencies, DNR and EPA. The daily average treatment of wastewater for fiscal year 2019-20 was 1,404,000 gallons.

The WPC Facility and staff conducted several tours throughout the school year to elementary, high school, and Wartburg College classes. Staff has also made classroom or site presentations to different classes or interested groups.

This completes a brief overview of the past fiscal year. Although not a complete summary, it does not represent the knowledge and expertise needed to operate and maintain an efficient WPC Facility. It is our method of recycling the very precious resource of water. This is one reason that some cities are referring to their waste treatment facilities as Water Reclamation Facilities.

CURRENT PROJECTS

 Upgrade of WPC Plant to Activated Sludge Process (from Trickling Filter/RBC Process), for Nutrient Reduction.

FUTURE PROJECTS

- 1. Eastgate Lift Station
- 2. Flow measurement at each outfall as well as influent.

PROBLEM AREAS OR AREAS OF CONCERN

- 1. Shortage of qualified and accessible land for biosolids application.
- 2. The need to upgrade process controls.
- 3. Budgets must continue to reflect the need to upgrade lift stations and aging equipment.

Date: July, 2019

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

		MGD		CBOD 5	DAY 20 °C							SUSP	TAL ENDED LIDS	1	IONIA OGEN			
DAY OF MONTH	DAY OF WEEK	GOLF COURS E FLOW	EFF. FLOW MGD	EFF. MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	EFF. PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F.	E. COLI #/100 MI
1	Mon.	0.000	2.120		T											8.1	62	
2	Tues	0.000	2.360	6	118							13	256	<0.50	0	8.3	62	
3	Wed.	0.000	2.380	6	119	1.81	35.93	14.4	285.83	0.0246	0.4883	13	258	<0.50	0	8.3	62	7.5
4	Thurs.	0.000	2.260		1.04		00.00	<u> </u>	200,00	3.02.10	3.4000		200	10.00	<u> </u>	8.1	62	7.5
5	Fri	0.000	2.240													8.1	62	
6	Sat.	0.000	2.100													J.,		
7	Sun.	0.000	2.130															
8	Mon.	0.000	2,090													8.1	61	
9	Tues	0.000	2,090													8.1	61	
10	Wed.	0.000	1.940	6	97	1.78	28.80	15.1	244.31	0.0348	0.5631	15	243	<0.50	0	8.3	62	5.2
11	Thurs.	0.000	1.860													8.0	62	
12	Fri.	0.283	1,497	4	50							13	162	<0.50	0	8.3	62	
13	Sat.	0.220	1,410															
14	Sun.	0.286	1.404															
15	Mon.	0.285	1.395													8.0	64	
16	Tues.	0.282	1.268													8.0	64	
17	Wed.	0.278	1.392	7	81	2.21	25.66	17.4	202.00	0.0226	0.2624	13	151	<0.50	0	8.3	65	1.0
18	Thurs.	0.063	1.667													8.0	65	
19	Fri.	0,000	1.790	7	105							16	239	<0.50	0	8.3	67	
20	Sat.	0.000	1,670															
21	Sun.	0.000	1.710															
22	Mon.	0.000	1.540						li .							8.0	65	
23	Tues.	0.000	1.660													8.0	65	
24	Wed	0.195	1.385	4	46	2.51	28.99	17.6	203.30	0.0275	0.3176	14	162	<0.50	0	8_0	64	8.6
25	Thurs,	0.278	1.232		-											7.9	64	
26	Fri.	0.265	1.215	6	61							15	152	<0.50	0	8.0	65	
27	Sat.	0.306	1.094															
28	Sun.	0.247	1.363															
29	Mon.	0.275	1.245													7.8	66	
30	Tues.	0.270	1.190				0.170		100.00	0.040-	0.070-		400	10.50		7.9	65	2.4
31	Wed.	0.271	1.129	6	56	2,63	24.76	21.1	198.67	0.0400	0.3766	14	132	<0.50	0	8.2	64	3.1

TOTAL	3.8	51.826	52.0	733	144.14	1134.11	2.0080	126.0	1754	0.0	0.0			25.4
AVERAGE	0.1	1.672	5.8	81	28.83	226.82	0.4016	14.0	195	<0.50	0.0	8.1	64	5.1
MAX	0.3	2.380	7.0	119	35.93	285.83	0.5631	16.0	258	<0.50	0.0	8.3	67	8.6
MIN	0.0	1.094	4.0	46	24.76	198.67	0.2624	13.0	132	0.0	0.0	7.8	61	1.0

7 DAY AVERAGE														
WEEK 1	0.0	2.227	6.0	119	35.93	285.83	0.4883	13.0	257	<0.50	0.0	8.2	62	7.5
WEEK 2	0.1	1,756	5.0	74	28.80	244.31	0.5631	14.0	202	<0.50	0.0	8.2	62	5.2
WEEK 3	0.1	1.556	7.0	93	25.66	202.00	0.2624	14.5	195	<0.50	0.0	8.1	65	1.0
WEEK 4	0.2	1.356	5.0	54	28.99	203.30	0.3176	14.5	157	<0.50	0.0	8.0	65	8.6

<u>Date: August, 2019</u> MONTHLY MONITORING REPO DISCHARGE SERIAL # 001 - # 002 Facility Number_0990001 Note: 0.0 = <MDL of 0.5

		MGD		CBOD 5 I	DAY 20 °C							SUSP	TAL ENDED LIDS		ONIA OGEN			
DAY OF MONTH	DAY OF WEEK	GOLF COURS E FLOW	EFF. FLOW MGD	EFF. MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	EFF. PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F,	E. COLI #/100 ML
1	Thurs.	0.255	1,145												T 1	8.0	64	
2	Fri.	0.281	1.079	7	63							16	144	<0.50	0	8.2	65	
3	Sat.	0.222	1.048									10	1.7.7	-0.00		0.2	1 00	
4	Sun.	0.250	1.120															
5	Mon.	0.250	1.140								\vdash					8.0	66	
6	Tues.	0.263	1.127													7.9	66	
7	Wed.	0.261	1.089	6	54	2.93	26,61	19.4	176.20	0.0288	0.2616	13	118	<0.50	0	8.2	66	
8	Thurs.	0.245	1.045													7.9	67	
9	Fri.	0.242	1.008	5	42							11	92	<0.50	0	8.2	67	
10	Sat	0.083	1.057															
11	Sun.	0.000	1.190															
12	Mon.	0.000	1.330													8.0	67	
13	Tues	0.000	1,230													8.0	67	
14	Wed.	0.000	1.180	7	69	3.03	29.82	20.9	205.68	0.0353	0.3474	16	157	<0.50	0	8.2	68	
15	Thurs.	0.000	1.260													7.9	67	
16	Frí.	0.000	1.190	6	60							13	129	<0.50	0	8.3	67	
17	Sat.	0.000	1.260															
18	Sun.	0.000	1.220															
19	Mon.	0.000	1.230													7.9	67	
20	Tues.	0.000	1.390													8.0	67	
21	Wed.	0.000	1.210	5	50	3.27	33.00	22.1	223.02	0.0311	0.3138	14	141	<0.50	0	8.2	68	
22	Thurs.	0.000	1,250													7.9	67	
23	Fri.	0.000	1.190	5	50							9	89	<0.50	0	8.2	67	
24	Sat.	0.000	1,070															
25	Sun,	0.000	1.170															
26	Mon.	0.000	1.140													8.0	67	
27	Tues.	0.000	1.160													7.9	67	
28	Wed.	0.000	1.120	7	65	3.48	32.51	23.6	220.44	0.0351	0.3279	9	84	<0.50	0	8.2	66	
29	Thurs.	0.188	0.952								0.0000					7.9	66	
30	Fri.	0.257	0.823	. 8	55							10	69	<0.50	0	8.1	67	
31	Sat.	0.201	0.819															11

TOTAL	3.0	35.242	56.0	508	121.93	825.34	1.2507	111,0	1024	0.0	0,0			0.0
AVERAGE	0.1	1.137	6.2	56	30.48	206.33	0.2501	12.3	114	<0.50	0.0	8.1	67	0.0
MAX	0.3	1.390	8,0	69	33.00	223.02	0.3474	16.0	157	0.0	0.0	8.3	68	0.0
MIN	0.0	0.819	5.0	42	26.61	176.20	0.0000	9.0	69	0.0	0.0	7.9	64	0.0

7 DAY AVERAGE														
WEEK 1	0.3	1.107	6.5	59	26.61	176.20	0.2616	14.5	131	<0.50	0.0	8.1	65	0.0
WEEK 2	0.1	1.149	6.0	55	29.82	205.68	0.3474	13.5	125	<0.50	0_0	8.1	67	0,0
WEEK 3	0.0	1.251	5.5	55	33.00	223.02	0.3138	13.5	135	<0.50	0.0	8.1	67	0.0
WEEK 4	0.0	1.157	6.0	58	32.51	220.44	0.3279	9.0	87	<0.50	0.0	8.0	67	0.0

MONTHLY MONITORING REPORT

Date: September, 2019

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

			DIGEST	ER CONT	ENTS			BOD 5 D	AY 20 °C							TO ⁻ SUSPE SOL	NDED		
DAY OF MONTH	DAY OF WEEK	FLOW MGD	TEMP °F	ph	VOL. ACID MG/L	ALKALIN. MG/L	TRICKLIN G FILTER RECIRC. FLOW MGD	INF. MG/L	INF. LBS/DA Y	INF. PHOS. MG/L	INF. PHOS. LBS/DA Y	INF. TOTAL N (as N) MG/L	INF. TOTAL N (as N) LBS/DA Y	INF. TKN (as N) MG/L	INF. TKN (as N) LBS/DAY	INF. MG/L	INF. LBS/DA Y	RAW ph	RAW TEMP.°F
1	Sun.	1.080	r				1.08								1		_		
2	Mon.	1,070	98	7.05			1 09						-				1	7.4	63
3	Tues.	1.150	98	7.09	270	2920	1.01		\vdash									7.4	63
4	Wed.	1.070	98	7.05	210	2020	1.09											7.4	63
5	Thurs	1.160	97	7.08			1.00	155	1500	4.78	46.24	35,4	342.47	32.5	314.42	212	2051	7.4	63
6	Fri.	1.090	96	7.08	165	2810	1.07	155	1409	- 1,1.4	10121		0 (2.1)	02.0		236	2145	7.4	63
7	Sat.	1_020					1.14												
8	Şun.	1.110					1.05												
9	Mon.	1.280	97	7.04	165	2680	0.88											7,5	63
10	Tues.	1.250	97	7.01			0.91											7.6	65
11	Wed.	1,200	97	7.08			0.96	159	1591	5.11	51.14	30.1	301.24	26.7	267,21	232	2322	7.5	64
12	Thurs.	1.310	97	7.02			0.85											7.4	66
13	Fri.	1.160	97	7.05	155	2540	1.00	295	2854							572	5534	7.4	66
14	Sat.	1.570					0.59								1				
15	Sun.	2.050					0.11												
16	Mon.	1.630	97	7.00	145	2450	0.53											7.4	62
17	Tues.	1.490	97	6.98			0.67											7.6	64
18	Wed.	1,460	97	7.05			0.70	137	1668	4.54	55.28	27.4	333.63	24.6	299.54	180	2192	7,5	62
19	Thurs,	1.950	97	7.09	140	2500	0.21	114	1854							168	2732	7.5	63
20	Fri.	1.750	98	6.93			0.41											7.4	64
21	Sat.	1.790					0.37												
22	Sun.	1.720					0.44												
23	Mon.	1.580	97	6.98	140	2430	0.58											7.6	64
24	Tues.	1.570	97	6,95			0.59											7.4	62
25	Wed.	1,470	97	7.02			0.69	133	1631	5.24	64.24	24.1	295.46	20.9	256.23	200	2452	7.5	63
26	Thurs.	1.430	98	6.94			0.73											7.3	64
27	Fri.	1,350	97	7.03	140	2420	0.81	149	1678							220	2477	7.5	62
28	Sat.	1,290					0,87												
29	Sun.	1.350					0.81											7.0	
30	Mon.	1.380	97	6.95	140	2420	0.78											7.6	64

TOTAL	41.780			23.020	1297.0	14184	216.91	1272.81	1137.40	2020.0	21905		
AVERAGE	1.393	97.2	7.0	0.767	162.1	1773	54.23	318.20	284.35	252.5	2738	7.5	63.5
MAX	2.050	98.0	7.1	1_140	295.0	2854	64.24	342.47	314.42	572.0	5534	7.6	66.0
MIN	1.020	96.0	6,9	0.110	114.0	1409	46.24	295.46	256.23	168.0	2051	7.3	62.0

7 DAY AVERAG	GE										
WEEK 1	1.091	1.069	155.0	1454	46.24	342.47	314.42	224.0	2098	7.4	63.0
WEEK 2	1.269	0.891	227.0	2223	51.14	301.24	267.21	402.0	3928	7.5	63.0
WEEK 3	1.731	0.429	125.5	1761	55.28	333.63	299.54	174.0	2462	7,5	63.0
WEEK 4	1.487	0.673	141.0	1654	64.24	295.46	256.23	210.0	2464	7.5	63.0

Signature:_____ Certification Number: 3989

Date: October, 2019

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001
Note: 0.0 = <MDL of 0.5

		MGD		CBOD 5	DAY 20 °C							SUSP	TAL ENDED LIDS	II .	IONIA OGEN			
DAY OF MONTH	DAY OF WEEK	GOLF COURS E FLOW	EFF. FLOW MGD	EFF. MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	EFF. PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F.	E. COLI #/100 ML
1	Tues.	0	1.870				r -									7.0	T 67	
2	Wed.	0	2.180	9	164	3,36	61.09	22.2	403.62	0.0382	0.6945	17	309	0,56	10	7.9 8.1	67	C40.0
3	Thurs	0	2.030	-	104	3.30	61.08	22.2	403,62	0,0362	0.0945	17	309	0.56	10	8.0	66	649.0
4	Fri.	0	2.380	9	179							13	258	<0.50	0	8.2	62	
5	Sat.	0	2.570	- 5	113							13	250	<0,50	Ū	0.2	02	
6	Sun.	0	2.410		-		-					_	_				_	
7	Mon.	0	2.450				-	-					1		_	8.1	61	
8	Tues.	0	2.460	1												8.1	60	
9	Wed.	0	2.210													8.1	60	
10	Thurs.	0	2.310	9	173	1.81	34.87	17.1	329,44	0.0254	0,4893	16	308	<0.50	0	8.3	62	40.0
11	Fri.	0	2.030	7	119	1.01	0 1.01	11.41	020.11	0,0204	0.4000	12	203	<0.50	0	8.2	60	70.0
12	Sat.	0	1.890	-			ļ					144	200	10.00	1	0.2	- 55	
13	Sun.	0	1.880										1	-				
14	Mon.	0	1.810													8.2	58	
15	Tues.	0	1.820													8.1	57	
16	Wed.	0	1.620		1											8.1	58	
17	Thurs.	0	1.620	7	95	2.23	30.13	20.9	282.38	0.0269	0.3634	12	162	<0.50	0	8.2	59	24.1
18	Fri.	0	1.590	7	93							10	133	<0.50	0	8.2	59	
19	Sat.	0	1.500															
20	Sun.	0	1,580															
21	Mon.	0	1,710													8.1	61	
22	Tues.	0	1.660													8.2	59	
23	Wed.	0	1.790	6	90	2.40	35.83	17.7	264.24	0.0227	0.3389	13	194	<0.50	0	8.3	59	10.9
24	Thurs.	0	1.820													8.1	57	
25	Frí.	0	1.740	7	102							11	160	<0.50	0	8.3	57	
26	Sat.	0	1.650															
27	Sun,	0.	1.600															
28	Mon.	0	1.530													8.1	57	
29	Tues.	0	1.470													8.1	56	
30	Wed.	0	1.430	6	72	2.64	31.49	20.5	244.49	0.0233	0.2779	9	107	<0.50	0	8.3	57	16.0
31	Thurs.	0	1.540													8.2	55	
ा-	OTAL	0.0	58.150	67.0	1084		193.40		1524.16		2.1641	113.0	1834	0,6	10.2			740.0
A 3.7F	-DACE	0.0	4 976	7.4	120		20.60		204.92		0.4229	126	204	0.6	1.1	8.2	60	1/18 0

TOTAL	0.0	58.150	67.0	1084	193.40	1524.16	2.1641	113.0	1834	0,6	10.2			740.0
AVERAGE	0.0	1.876	7,4	120	38.68	304.83	0.4328	12.6	204	0.6	1.1	8.2	60	148.0
MAX	0.0	2.570	9,0	179	61.09	403.62	0.6945	17.0	309	0.6	10.2	8.3	67	649.0
MIN	0.0	1,430	6.0	72	30.13	244.49	0.2779	9.0	107	0.6	0.0	7.9	55	10.9

7 DAY AVERAGE														
WEEK 1	0.0	2.270	9.0	171	61.09	403.62	0.6945	15.0	284	0.6	5.1	8.1	64	649.0
WEEK 2	0.0	2.084	8.0	146	34.87	329.44	0.4893	14.0	256	<0.50	0.0	8.2	60	40.0
WEEK 3	0.0	1.634	7.0	94	30.13	282.38	0.3634	11.0	147	<0.50	0.0	8.1	59	24.1
WEEK 4	0.0	1.684	6.5	96	35.83	264.24	0.3389	12.0	177	<0.50	0.0	8.2	58	10.9

MONTHLY MONITORING REPORT

Date: November, 2019

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

		MGD		CBOD 5 [DAY 20 °C							SUSP	TAL ENDED LIDS		ONIA OGEN			
DAY OF MONTH	DAY OF WEEK	GOLF COURS E FLOW	EFF. FLOW MGD	EFF. MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	EFF. PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F.	E. COLI #/100 ML
1	Fri.		1,340	7	78							10	112	<0.50	0	8.3	55	
2	Sat.		1.390		10							10	112	10,00	-	0.0	- 55	-
3	Sun.		1.380															
4	Mon.		1.300		1											8.1	58	
5	Tues.		1.290		f d											8.1	56	
6	Wed.		1.320	9	99	2.77	30.49	25.6	281.83	0.0291	0.3204	11	121	<0.50	0	8.2	56	
7	Thurs.	i i	1.330													8.1	53	
8	Fri.		1,230	9	92							15	154	<0.50	0	8,2	54	
9	Sat,		1,160															
10	Sun.		1.140															
11	Mon.		1.040													8.1	53	
12	Tues.		1,020													8.1	51	
13	Wed.		1.150	9	86	2.94	28.20	27.4	262.79	0.0317	0.3040	15	144	<0.50	0	8.2	52	
14	Thurs.		1,130													8,1	53	
15	Fri.		1.120	9	84							14	131	<0.50	0	8.2	54	
16	Sat.		1.090															
17	Sun.		1.120															
18	Mon.		1.140													8.0	55	
19	Tues.		1,180													8.0	55	
20	Wed.		1.310	14	153	3.37	36.82	29.0	316.84	0.0355	0.3879	16	175	<0.50	0	8.1	55	
21	Thurs.		1.230													7.9	57	
22	Fri.		1.260	9	95							14	147	0.56	6	8.1	54	
23	Sat.		1.230															
24	Sun.		1.290															
25	Mon.		1.300	16	173	3.89	42.18	29.7	322.01	0,0363	0.3936	20	217	4.65	50	8.1	55	
26	Tues.		1.290											_	-	8.0	55 54	
27	Wed.		1.240													8.0		_
28	Thurs.		1.100										-			8.1	52	
29	Fri.		1.200										-			8.0	54	
30	Sat.		1.230															-

TOTAL	0.0	36.550	82.0	861	137.69	1183.46	1.4058	115.0	1200	5.2	56.3			0.0
AVERAGE	0.0	1.218	10.3	108	34.42	295.87	0.3515	14.4	150	2.6	7.0	8.1	54	0.0
MAX	0.0	1.390	16.0	173	42.18	322.01	0.3936	20.0	217	4.7	50.4	8.3	58	0.0
MIN	0.0	1.020	7.0	78	28.20	262.79	0.3040	10.0	112	0.6	0.0	7.9	51	0_0

7 DAY AVERAGE					7-7-7-									
WEEK 1	0.0	1.336	8.0	89	30.49	281.83	0.3204	10,5	116	<0.50	0.0	8.2	56	0.0
WEEK 2	0.0	1.124	9.0	89	28.20	262.79	0.3040	15.0	149	<0.50	0,0	8.1	53	0.0
WEEK 3	0.0	1.170	11.5	119	36.82	316.84	0.3879	15.0	153	<0.50	0,0	8.0	55	0.0
WEEK 4	0.0	1.244	12.5	134	42.18	322.01	0.3936	17.0	182	2.6	28.2	8.1	54	0.0

MONTHLY MONITORING REPORT

Date: December, 2019

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

TOTAL SUSPENDED **AMMONIA** MGD CBOD 5 DAY 20 °C SOLIDS **NITROGEN** GOLF EFF. EFF. EFF. EFF. DAY DAY COURS EFF. EFF. PHOS. **TOTAL N** TOTAL N EFF. EFF. Cu FINAL OF **FLOW** EFF. OF Е EFF. PHOS. LB\$/DA (as N) (as N) Cu LBS/DA EFF. LBS/DA FINAL LBS/DA EFF. EFF. E. COLI MONTH WEEK FLOW MGD MG/L LBS/DAY MG/L MG/L LBS/DAY MG/L MG/L MG/L Υ Υ Υ ph TEMP.°F. #/100 ML Sun. 1.300 2 Mon. 1.300 8.1 52 3 Tues. 1.380 53 8.1 4 Wed. 1.340 10 112 2.92 32.63 25.4 283.86 0.0421 0.4705 <0.50 16 179 0 8.2 54 5 1.340 Thurs. 8.0 54 Frí. 1.220 92 6 9 13 132 <0.50 54 0 8.2 1.260 Sat. 1.240 8 Sun. 9 Mon. 1.130 8.0 55 1.050 10 Tues. 8.1 53 11 Wed. 1.030 8 69 3.27 28.09 27.8 238.81 0.0345 0.2964 13 112 <0.50 0 8.2 51 12 Thurs. 1.120 8.1 51 13 Fri. 1,090 8 73 13 118 <0,50 0 8.2 52 14 Sat. 1.010 15 Sun. 1.010 1.060 8.0 52 16 Mon. 17 Tues. 1.080 8.0 53 18 Wed. 1.030 60 3.67 31.53 26.6 228.50 0.0486 0.4175 14 120 <0.50 0 8.2 51 51 19 1.120 8.0 Thurs. 20 69 139 <0.50 0 8.2 52 Fri. 1.040 8 16 21 Sat. 0.960 22 Sun. 1.040 8.2 51 23 Mon. 1,050 8.1 51 24 Tues. 1.030 53 25 Wed. 0.970 8.1 0.990 50 3.75 30.96 27.2 224.58 0.0322 0.2659 11 91 < 0.50 0 8.1 53 26 Thurs. 6 0,960 48 9 72 < 0.50 0 8.1 51 27 Fri. 6 28 Sat. 1.150 1.050 29 Sun. 8.0 52 1.080 30 Mon. 1.200 7.9 49 31 Tues.

										7		7		
TOTAL	0.0	34.630	62.0	572	123.21	975.75	1.4502	105.0	963	0.0	0.0			0.0
AVERAGE	0.0	1.117	7.8	71	30.80	243.94	0.3626	13.1	120	<0.50	0.0	8.1	52	0.0
MAX	0,0	1.380	10.0	112	32.63	283.86	0.4705	16.0	179	<0.50	0.0	8.2	55	0.0
MIN	0.0	0.960	6.0	48	28.09	224.58	0.2659	9.0	72	0.0	0.0	7.9	49	0.0

7 DAY AVERAGE														
WEEK 1	0.0	1.306	9.5	102	32.63	283.86	0.4705	14.5	156	<0.50	0.0	8.1	53	0.0
WEEK 2	0.0	1.096	8.0	71	28.09	238.81	0.2964	13.0	115	<0.50	0.0	8.1	52	0.0
WEEK 3	0.0	1.043	7.5	65	31.53	228.50	0.4175	15.0	130	<0.50	0.0	8.1	52	0.0
WEEK 4	0.0	1.027	6.0	49	30.96	224.58	0.2659	10.0	81	<0.50	0.0	8.1	52	0.0

MONTHLY MONITORING REPORT

Date: January, 2020

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

			DIGEST	ER CONT	ENTS	.,,		BOD 5 D	AY 20 °C							SUSPE	TAL ENDED LIDS		
DAY OF MONTH	DAY OF WEEK	FLOW MGD	TEMP °F	ph	VOL. ACID MG/L	ALKALIN. MG/L	TRICKLIN G FILTER RECIRC. FLOW MGD	INF. MG/L	INF. LBS/DA Y	INF. PHOS. MG/L	INF. PHOS. LBS/DA Y	INF. TOTAL N (as N) MG/L	INF. TOTAL N (as N) LBS/DA	INF. TKN (as N) MG/L	INF. TKN (as N) LBS/DAY	INF. MG/L	INF. LBS/DA Y	RAW ph	RAW TEMP.°F
1	Wed.	1.330	95	6.78			0.83											7.4	54
2	Thurs.	1.250	97	6.98		1	0.91	108	1126	4.30	44.83	23.7	247.07	18.2	189.74	180	1877	7.6	53
3	Fri.	1.170	97	6.97	170	2650	0.99	74	722	4,00	44.00	20.7	247.07	10.2	103.74	132	1288	7.4	53
4	Sat.	1.090		0.01	110	2000	1.07	- ' -								102	1200		
5	Sun.	1.190					0.97								1		1		=
6	Mon.	1,130	96	7.03			1.03										1	7.0	60
7	Tues.	1.070	97	6.96	323	2720	1.09										1	7.9	54
8	Wed.	1.050	97	6.98			1.11	103	902	4.58	40.11	30.4	266.21	24.5	214.55	176	1541	7.5	53
9	Thurs,	1.130	97	6.96			1.03				1							7.5	53
10	Fri.	1,000	97	7.00	170	2750	1.16	121	1009							176	1468	7.5	53
11	Sat.	0.990					1.17												
12	Sun	1.030					1.13										1		
13	Mon.	1.000	97	6.93	175	2650	1.16											7.8	53
14	Tues	0.990	97	6,91			1.17											7.6	53
15	Wed.	0.910	97	6.97			1.25	104	789	4.56	34.61	31.4	238.31	24.2	183.66	176	1336	7.5	53
16	Thurs.	0.910	97	6.92			1.25											7.8	52
17	Fri.	0.950	97	6,99	175	2630	1.21	123	975							198	1569	7.4	52
18	Sat.	0.920					1.24												
19	Sun.	0.860					1.30												
20	Mon.	0.910	97	6.91	175	2560	1.25											7.7	53
21	Tues.	0,980	97	6.90			1.18											7.9	53
22	Wed.	1.020	97	6.97			1.14	154	1310	4.45	37.86	38.1	324.11	35.9	305.39	228	1940	7.5	52
23	Thurs.	0.960	97	6.91			1,20											7.8	54
24	Fri.	1.010	97	6.92	165	2480	1.15	163	1373							268	2257	7,5	54
25	Sat.	0.900					1.26												
26	Sun	0.940					1.22												
27	Mon.	1.000	97	6.88	278	2360	1.16											7.8	53
28	Tues.	0.910	97	6.90			1.25											7.9	52
29	Wed.	0.900	97	6.89			1.26	168	1261	6.60	49.54	41.2	309.25	39.9	299.49	230	1726	7.6	52
30	Thurs	0.930	97	6.90			1.23											7.8	53
31	Fri.	0.880	97	6.91	160	2360	1.28	144	1057							208	1527	7.5	53

TOTAL	31.310			35.650	1262.0	10524	206.94	1384.95	1192.83	1972.0	16528		
AVERAGE	1.010	96.9	6.9	1.150	126.2	1052	41.39	276.99	238.57	197.2	1653	7.6	53.3
MAX	1.330	97.0	7.0	1,300	168.0	1373	49.54	324_11	305.39	268.0	2257	7.9	60.0
MIN	0.860	95.0	6.8	0.830	74.0	722	34.61	238.31	183.66	132.0	1288	7.0	52.0

7 DAY AVERAGE													
WEEK 1	1.176			0.984	91.0	924	44.83	247.07	189.74	156.0	1582	7.5	54.8
WEEK 2	1.027			1.133	112.0	956	40.11	266.21	214.55	176.0	1505	7.6	54.6
WEEK 3	0.920			1.240	113.5	882	34.61	238.31	183.66	187.0	1452	7.7	54.6
WEEK 4	0.963			1.197	158.5	1342	37.86	324.11	305.39	248.0	2099	7.7	53.0

Signature:_____ Certification Number: 3989

MONTHLY MONITORING REPORT DISCHARGE SERIAL # 001 - # 002

Date: February, 2020

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

TOTAL SUSPENDED **AMMONIA** MGD CBOD 5 DAY 20 °C SOLIDS **NITROGEN** GOLF EFF. EFF. EFF. EFF. DAY DAY COURS EFF. PHOS. TOTAL N EFF. EFF. TOTAL N EFF. **FINAL** OF OF E FLOW EFF. EFF. PHOS. LBS/DA (as N) (as N) Cu LBS/DA EFF. LBS/DA FINAL LBS/DA EFF: EFF. E. COLI MONTH WEEK FLOW MGD MG/L LBS/DAY MG/L MG/L Υ LBS/DAY MG/L Υ MG/L Υ MG/L Υ ph TEMP.°F. #/100 ML 0.950 Sat. 2 1.010 Sun. 1.020 3 Mon. 7.8 51 0.920 4 Tues. 7.9 49 Wed. 0.910 14 106 3.09 23.45 23.3 176.83 0.0283 0.2148 46 5 6 2.91 22 8.1 49 6 Thurs. 1.010 8 67 6 51 2.02 17 8.1 50 Fri. 0.870 7.9 50 Sat. 0.840 9 Sun. 0.880 10 Mon. 0.900 7.9 51 11 Tues 0.890 8.1 50 12 Wed. 0.860 5 36 3.63 26.04 28.1 201.54 0.0296 0.2123 50 <0.50 0 8.2 49 13 Thurs. 0,810 8.1 47 14 Гń. 0.910 4 30 5 38 < 0.50 0 8.2 45 Sat. 15 0.870 16 Sun. 0.960 17 0.970 8.0 50 Mon. 8.1 49 18 Tues. 0.920 34 3.60 24,32 25.0 168.89 0.0252 0.1702 6 41 < 0.50 8.3 48 19 Wed. 0.810 5 47 8,1 20 Thurs. 0.930 47 29 5 36 <0.50 8.3 21 Fri. 0.870 4 22 Sat. 0.960 23 Sun. 1.010 8.0 50 Mon. 1.030 24 50 0.950 8.1 25 Tues. 3.73 28.00 26,8 201.16 0.0226 0.1696 30 <0.50 0 8.3 50 0.900 30 4 26 Wed. 4 8.1 48 27 Thurs. 0.940 0.840 28 5 35 <0.50 0 8.3 48 Fri. 4 28 0.890 29 Sat.

TOTAL	0.0	26.630	48.0	361	101.80	748.42	0.7670	44.0	326	4.9	39.1			0.0
AVERAGE	0.0	0.918	6.0	45	25.45	187.11	0.1917	5.5	41	2.5	4.9	8.1	49	0.0
MAX	0.0	1.030	14.0	106	28.00	201.54	0.2148	7.0	51	2,9	22.1	8.3	51	0.0
MIN	0.0	0.810	4.0	28	23.45	168.89	0.1696	4.0	30	2.0	0.0	7.8	45	0.0

7 DAY AVERAGE														
WEEK 1	0.0	0.956	11.0	87	23.45	176.83	0.2148	6.0	48	2.5	19.6	8.0	50	0.0
WEEK 2	0.0	0.870	4.5	33	26.04	201.54	0.2123	6.0	44	<0.50	0.0	8.1	48	0.0
WEEK 3	0.0	0.904	4.5	31	24.32	168.89	0.1702	5.5	38	<0.50	0.0	8.2	48	0.0
WEEK 4	0.0	0.947	4.0	29	28.00	201.16	0.1696	4.5	33	<0.50	0.0	8.2	49	0.0

Date: March, 2020

DISCHARGE SERIAL # 001 - # 002

Facility Number_0990001 Note: 0.0 = <MDL of 0.5

		MGD		CBOD 5 I	DAY 20 °C							SUSPI	TAL ENDED LIDS		ONIA OGEN			
DAY OF MONTH	DAY OF WEEK	GOLF COURS E FLOW	EFF. FLOW MGD	EFF. MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	EFF. PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F.	E. COLI #/100 ML
1	Sun.		1,070		r d													
2	Mon.		0.910													8.1	50	
3	Tues.		1.060		1 1													
4	Wed.		1,130	3	28	3.55	33,46	24.6	231.84	0.0203	0.1913	5	47	<0.50	0	8.2	50	
5	Thurs.		1.120													8.2	50	
6	Fri.		1.080	3	27							4	36	<0.50	0	8.3	49	
7	Sat.		1.050													8.2	49	
8	Sun.		1.210															
9	Mon,		1.500													8.2	53	
10	Tues.		2.000													8.2	50	
11	Wed.		2.200	5	92	2.29	42.02	17.3	317.42	0.0247	0.4532	12	220	<0.50	0	8.3	51	
12	Thurs.		1.830													8.2	50	
13	Fri.		1,670	4	56							7	97	<0.50	0	8.3	50	
14	Sat.		1.560															
15	Sun.		1.510															
16	Mon.		1.400													8,2	51	
17	Tues.		1,400													8.2	50	
18	Wed_		1.520	3	38	2.51	31.82	17.2	218.04	0.0210	0.2662	5	63	<0.50	0	8.3	51	
19	Thurs.		2.450													8.1	51	
20	Fri.		2.070	5	86							9	155	<0.50	0	8.3	49	
21	Sat.		2.010															
22	Sun.		1.910															
23	Mon.		1.750													8.2	49	
24	Tues		1.670													8.2	50	
25	Wed.		1,610	3	40	2.05	27.53	15.6	209.47	0.0182	0.2444	6	81	<0.50	0	8.3	51	
26	Thurs.		1,580													8.2	51	
27	Fri.		1,580	4	53							6	79	<0.50	0	8,3	52	
28	Sat.		1.640															
29	Sun.		1.580															
30	Mon.		1.630													8.2	51	
31	Tues.		1.730		1											8.2	52	11

TOTAL	0.0	48.430	30.0	420	134.82	976.76	1.1551	54.0	779	0.0	0.0			0.0
AVERAGE	0.0	1.562	3.8	53	33.70	244.19	0.2888	6.8	97	<0,50	0.0	8.2	50	0.0
MAX	0.0	2.450	5.0	92	42.02	317.42	0.4532	12.0	220	<0.50	0,0	8.3	53	0.0
MIN	0.0	0.910	3.0	27	27.53	209.47	0.1913	4.0	36	<0.50	0.0	8.1	49	0.0

7 DAY AVERAGE														
WEEK 1	0.0	1.060	3.0	28	33.46	231.84	0.1913	4.5	42	<0.50	0.0	8.2	50	0.0
WEEK 2	0.0	1.710	4.5	74	42.02	317.42	0.4532	9.5	159	<0.50	0.0	8.2	51	0_0
WEEK 3	0.0	1.766	4.0	62	31.82	218.04	0.2662	7,0	109	<0.50	0.0	8.2	50	0.0
WEEK 4	0.0	1.677	3.5	46	27.53	209.47	0.2444	6.0	80	<0.50	0.0	8.2	51	0.0

Date: April, 2020

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

			DIGEST	ER CONT	TENTS			BOD 5 D	AY 20 °C							TO SUSPI SOL	NDED		
DAY OF MONTH	DAY OF WEEK	FLOW MGD	TEMP °F	ph	VOL. ACID MG/L	ALKALIN. MG/L	TRICKLIN G FILTER RECIRC. FLOW MGD	INF. MG/L	INF. LBS/DA Y	INF. PHOS. MG/L	INF. PHOS. LBS/DA Y	INF. TOTAL N (as N) MG/L	INF. TOTAL N (as N) LBS/DA Y	INF. TKN (as N) MG/L	INF. TKN (as N) LBS/DAY	INF. MG/L	INF. LBS/DA Y	RAW ph	RAW TEMP.°F
1	Wed.	1.620	97	6.90			0.54	90	1216	3.36	45.40	19.8	267.51	13.3	179.69	152	2054	7.6	51
2	Thurs.	1,630	96	6.84			0.53		1210	0.00	40.40	10.0	207,01	10.0	170.00	102	2004	7.6	51
3	Fri.	1,470	97	6.85			0.69	108	1324						1	182	2231	7.7	51
4	Sat.	1,410					0.75												
5	Sun.	1.420					0.74												
6	Mon.	1.410	97	6.86			0.75											7,6	51
7	Tues.	1,410	97	6.88	254	1720	0.75											7.7	51
8	Wed.	1,340	97	6.86	185	1710	0.82	109	1218	4.26	47,61	23.8	265.98	16.0	178.81	176	1967	7.8	51
9	Thurs.	1.270	97	6.89	185	1710	0.89	122	1292				-			228	2415	7.7	51
10	Fri	1.290					0.87												
11	Sat.	1.270	97	6.88			0.89											7,7	51
12	Sun.	0.750					1.41												
13	Mon.	2.330	96	6.82			-0.17											7.7	52
14	Tues.	1.330	97	6.91			0.83											7.8	51
15	Wed.	1.280	96	6.90	232	1840	0.88	89	950	5.53	59.03	26.1	278.62	19.2	204.96	240	2562	7.8	52
16	Thurs.	1.290	97	6.89			0.87											7.8	51
17	Fri.	1.210	98	6.85	158	1910	0,95	213	2149							376	3794	7.7	52
18	Sat.	1,260					0.90												
19	Sun.	1.300		1			0.86												
20	Mon.	1.170	97	6.88	330	2160	0.99											7.7	52
21	Tues.	1.240	97	6.88			0.92											7.8	53
22	Wed.	1.280	97	6.86	153	1980	0.88	99	1057	4.89	52.20	29.6	315.99	23.5	250.87	268	2861	7.8	52
23	Thurs.	1.230	97	6.89			0.93											7.7	52
24	Fri.	1.170	97	6.87	153	1980	0.99	92	898							178	1737	7.8	53
25	Sat.	1.150					1.01												
26	Sun.	1.220					0.94												
27	Mon.	1.130	97	6.87	345	2280	1.03											7.8	54
28	Tues.	1.150	97	6.86			1.01											7.7	55
29	Wed.	1.090	97	6.87	169	1970	1.07	76	691	5,14	46,73	31.0	281.81	25.9	235.45	244	2218	7.7	53
30	Thurs.	1.120	97	6.89			1.04											7.8	53

TOTAL	39.240				25.560	998.0	10795	250.97	1	409.91	1049.78	2044.0	21839		
AVERAGE	1.308	96.9	6.9		0.852	110.9	1199	50.19	2	281.98	209.96	227.1	2427	7.7	52.0
MAX	2.330	98.0	6.9		1.410	213.0	2149	59.03	3	315.99	250.87	376.0	3794	7.8	55.0
MIN	0.750	96.0	6.8		-0.170	76.0	691	45.40	2	265.98	178.81	152.0	1737	7.6	51.0

7 DAY AVERAGE											
WEEK 1	1.481	0.679	99,0	1270	45.40	267.51	179.69	167.0	2142	7.6	51.0
WEEK 2	1.369	0,791	115.5	1255	47.61	265.98	178.81	202.0	2191	7.7	51.0
WEEK 3	1,250	0.910	151_0	1550	59.03	278.62	204.96	308.0	3178	7.8	51.0
WEEK 4	1.190	0.970	95.5	977	52.20	315.99	250.87	223.0	2299	7.8	53.2

Signature:_____ Certification Number: 3989

MONTHLY MONITORING REPORT

Date: May, 2020

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

TOTAL SUSPENDED **DIGESTER CONTENTS** BOD 5 DAY 20 °C SOLIDS INF. TRICKLIN INF. **TOTAL** G INF. INF. TOTAL N INF. **FILTER** DAY DAY VOL. INE. INF. PHOS. TKN TKN INF. RAW RECIRC. Ν (as N) OF OF **FLOW TEMP** ALKALIN. ACID INF. LBS/DA PHOS. LBS/DA (as N) LBS/DA (as N) (as N) INF. LBS/DA RAW TEMP.°F FLOW MONTH WEEK MGD °F MG/L MG/L MG/L Υ MG/L Υ MG/L MG/L LBS/DAY MG/L Υ Υ ph ph MGD Fri. 1.090 2070 1.07 827 198 91 212 1927 2 Sat. 1.160 97 6.87 1.00 7.7 53 3 Sun. 0.960 1.20 4 1,050 Mon. 97 6.89 450 2340 1.11 54 7.8 5 Tues. 1,330 97 6.87 0.83 7.7 55 6 Wed. 1.050 97 6.87 1.11 7.5 53 1.090 41.63 Thurs. 97 6.88 1.07 169 1536 4.58 28.3 257.26 23.1 209,99 270 2454 7.4 53 8 Fri. 1.010 97 6.88 338 2260 1.15 126 200 1061 1685 7.4 53 9 Sat. 0.970 1.19 10 1.030 Sun. 1.13 97 6.83 353 2220 11 Mon. 1.000 1.16 7.6 54 12 Tues. 0.990 97 6.82 1.17 7,8 54 13 Wed. 1.130 97 6.87 1.03 150 1414 6.13 57.77 27.8 261.99 25.1 236,55 208 1960 7.5 54 1.090 6.84 1.07 7.8 56 14 Thurs. 97 338 2290 216 1819 15 Fri. 1.010 97 6.89 1,15 136 1146 7.4 54 16 Sat. 1.010 1.15 17 1,660 0.50 Sun. 2630 7.6 56 18 Mon. 1.300 97 6.90 308 0.86 7.5 55 19 Tues. 1.530 97 6.90 0.63 243.84 164 2312 7.5 55 20 Wed. 1.690 97 6.97 0.47 120 1691 3.82 53.84 22.4 315.72 17.3 21 Thurs. 1.620 97 6.91 0.54 7.6 56 144 1741 22 Fri. 1.450 97 6.98 375 2710 0.71 101 1221 7.5 55 23 Sat. 1.410 0.75 24 1.410 0.75 Sun. 25 Mon. 1.430 96 6.93 0.73 7.5 56 26 1,550 96 6.95 360 2730 0.61 7.6 57 Tues. 27 1.560 96 6.99 0.60 143 1860 3.85 50.09 22.8 296,64 16.6 215.97 206 2680 7.6 56 Wed. 7.6 58 28 2.040 97 6,95 0.12 Thurs. 7.4 57 97 7.00 465 2910 -0.02 29 Fri. 2.180 30 1.970 0.19 Sat. 0.30 1.860 31 Sun.

TOTAL	41.630			25.330	1036.0	10757	203.34	1131.61	906.35	1620.0	16579		
AVERAGE	1.343	96.9	6.9	0.817	129.5	1345	50.83	282,90	226.59	202.5	2072	7.6	55.0
MAX	2.180	97.0	7.0	1.200	169.0	1860	57.77	315.72	243.84	270.0	2680	7.8	58.0
MiN	0.960	96.0	6.8	-0.020	91.0	827	41.63	257,26	209.99	144.0	1685	7.4	53.0

7 DAY AVERAGE											
WEEK 1	1.104	1.056	130.0	1182	41.63	257.26	209.99	241.0	2191	7.6	53.6
WEEK 2	1.031	1,129	138.0	1237	57.77	261.99	236.55	204.0	1822	7.6	53.5
WEEK 3	1.403	0.757	128.0	1418	53.84	315.72	243.84	190.0	2065	7.5	53.6
WEEK 4	1.550	0.610	122.0	1541	50.09	296.64	215.97	175.0	2211	7.6	56.4

Signature:_

Certification Number: 3989

Date: June, 2020

DISCHARGE SERIAL # 001 - # 002

Facility Number 0990001 Note: 0.0 = <MDL of 0.5

OF NONTH	Mon. Tues.	GOLF COURS E FLOW	EFF. FLOW MGD	EFF.			EFF.											
2	Tues.			MG/L	EFF. LBS/DAY	EFF. PHOS. MG/L	PHOS. LBS/DA Y	EFF. TOTAL N (as N) MG/L	EFF. TOTAL N (as N) LBS/DAY	EFF. Cu MG/L	EFF. Cu LBS/DA Y	EFF. MG/L	EFF. LBS/DA Y	FINAL MG/L	FINAL LBS/DA Y	EFF. ph	EFF. TEMP.°F.	E. COL #/100 M
2	Tues.		1,620		T T											8.2	58	
			1.600										-			8.2	60	
	Wed.		1.590	6	80	2.68	35,54	22.2	294.39	0.0394	0.5225	19	252	<0.50	0	8.3	61	
4	Thurs.		2.360				33,57			3.000 T	J.OLLU	-10	202	-0.00		8.1	60	
5	Fri.		1.850	7	108							24	370	<0.50	0	8.3	60	
6	Sat.		1.750															
7	Sun.		1,690															
8	Mon.		1.490													7.9	61	
9	Tues.		4.070													8.0	61	
10	Wed.		2.490	14	291	2.30	47.76	17,3	359.26	0.0472	0.9802	48	997	0.73	15	8.1	62	
	Thurs.		2.450													8.0	60	
12	Fri.		2.330	9	175							22	428	<0.50	0	8.2	60	
13	Sat.		2.050															
14	Sun.		1.990															
	Mon.		1.800													8.0	60	
	Tues.		1.800													7.9	61	
	Wed.		1.690	15	211	3.60	50.74	28.9	407.33	0.102	1.4376	67	944	2.30	32	8.2	61	
	Thurs.		1.790													8.0	62	
19	Fri.		1.960	12	196							30	490	0.78	13	8.2	63	
20	Sat.		2.160															
21	Sun.		2,340															
	Mon.		4,160													8.0	62	
	Tues.		3.000													8.0	62	
	Wed.		2.570	12	257	1.54	33.01	13.0	278.64	0,0364	0.7802	30	643	<0.50	0	8.3	61	
	Thurs		2.560										140			8.0	62	
26	Fri.		2.400	9	180							22	440	<0.50	0	8.3	62	
27	Sat.		3.080														-	
28	Sun.		2.200													0.1	63	_
29	Mon.		2.040	ļ						-						8.1		
30	Tues.		2.000 0.000													8.1	63	

TOTAL	0.0	66.880	84.0	1498	167.05	1339.62	3.7205	262.0	4565	3.8	60.3			0.0
AVERAGE	0.0	2.157	10.5	187	41.76	334.91	0.9301	32.8	571	1.3	7.5	8.1	61	0.0
MAX	0.0	4.160	15.0	291	50.74	407.33	1.4376	67.0	997	2.3	32.4	8.3	63	0.0
MIN	0.0	0.000	6.0	80	33.01	278.64	0.5225	19.0	252	0.7	0.0	7.9	58	0.0

7 DAY AVERAGE														
WEEK 1	0.0	1.780	6.5	94	35.54	294:39	0.5225	21.5	311	<0.50	0,0	8.2	60	0.0
WEEK 2	0.0	2.410	11.5	233	47.76	359.26	0.9802	35.0	712	0.7	7.6	8.0	61	0.0
WEEK 3	0.0	1.934	13.5	204	50.74	407.33	1.4376	48.5	717	1.5	22.6	8.1	61	0.0
WEEK 4	0.0	2.853	10.5	219	33.01	278.64	0.7802	26.0	542	<0.50	0.0	8.1	62	0.0

City of Waverly **Department of Public Works**

FY 2019-20

STORM AND SANITARY SEWER LINE MAINTENANCE

The Storm/Sanitary Sewer Maintenance Division was established in FY 1990-91. Its function is to maintain the sewer systems and assist the Street, WPC, and Water Divisions as needed with major projects. Its purpose is two-fold: to establish an effective annual maintenance program to control long-term upkeep costs and to establish a more efficient operation of our sewer systems. This will utilize the budgeted money more efficiently, reduce waste water treatment costs, and upgrade instead of maintain our storm/sanitary sewers.

The following is a brief overview of some projects during FY 2019-20. This is not a total summary, but does give an idea of the versatility of this division and the expertise required. Of our 310,000 feet of sanitary sewer mains, over 86,000 feet were cleaned and 6,600 feet were televised. Several problem areas are being scheduled for repair or replacement as time and funds become available.

FUTURE PROJECTS

- 1. Update sanitary and storm sewer GIS mapping as more discrepancies are found.
- 2. Continue upgrade of existing sanitary manholes to decrease infiltration problems.
- 3. Continue work on storm sewer intakes and catch basins and replace old brick structures with poured concrete structures.
- 4. Continue televising of sewer lines to locate problem areas.
- 5. Continue cleaning and maintaining storm and sanitary sewer lines.
- 6. Continue routine cleaning of maintenance lines.
- 7. Maintain a five-year sanitary sewer cleaning schedule.

AREA OF CONCERN

- 1. Infiltration and inflow problems must continue to be addressed with some major financing.
- 2. Tree roots in sanitary sewer lines.
- 3. Undersized storm water collection system.

Storm and Sanitary Sewer Line Maintenance

Fiscal Year 2019-20

	2015-16 ¹	2016-17	2017-18 ²	2018-19	2019-20	Units
Sanitary Sewer Maintenance						
Lines Flushed	25,182	97,579	61,503	29,698 ³	86,403	Feet
Manholes Cleaned		217	3	5	34	Each
Storm Sewer Maintenance						
Lines Flushed		384	6,578	5,287	6,632	Feet
Intakes & MH Cleaned		28	21	57	29	Each
Televising Lines						
Sanitary Sewer	2,405	8,707	7,689	3,450	4,169	Feet
Storm Sewer		33	120	360	2,231	Feet
Jetting Sewer Mains						
Water Used	26,500	260,937	133,200	95,925	189,750	Gallons
<u>Lines Repaired</u>						
Sanitary Sewer		1	0	1	5	Each
Storm Sewer		3	7	3	8	Each
Intakes Repaired		0	0	2	0	Each
Manholes Repaired		2	18	0	0	Each
Sewer Call-Outs						Each
During & after hours		27	10	12	18	
Other Division Work						
Streets - Snow Plowing		69.8	36.6	18.2	20	Hours
Water - Leak Repairs		126.7	100.4	200.6	180	Hours
WPC - Lift Stations		19.6	16.6	19	4	Hours
Leisure Serv Cem. Graves	8	1	13	40	27	Each
Leisure Serv Golf Course		0	0	0	3	Hours
Engineering - Inspections		1	0	0	1	Hours

Note: Removed "IA One Call Locates" line for the FY2019-20 Annual Report. The locates now show up in the Water Division.

¹ For 2015-16 the Line Maintenance crew did not keep good records; hence the many blanks.

² During 2017-18: September, February & March records were missing.

³ Designated area of focus was smaller and contains newer lines than prior years.

Storm and Sanitary Sewer Line Maintenance

Fiscal Year 2019-20

Miscellaneous:

Cleaned out waterways, detention areas & Dry Run. Cleaned drains for Water Dept., Law Center, bike trail bathrooms, hospital pits & drains and pumped Airport septic. Started root-treating problem sewer mains ourselves (over 1,995 LF done last year).

City of Waverly **Department of Public Works**

FY 2019-20

SOLID WASTE

Recycling

Voluntary Drop-Off Program Curbside Collection Program

Refuse Collection

Residential Commercial Yard Waste – Drop-Off Site

Refuse Container (Dumpster)

Repair

Special Collections

Waverly Horse Sale – Fall & Spring Chamber – Agriculture Appreciation Day Bremer County Fair Special Collection Weeks – Spring Other Special Events

The Solid Waste Division collects refuse once a week from residential customers and up to five days per week from commercial. Garbage to be pickup in the City of Waverly needs to be in a City-owned garbage container or dumpster. Residential customers are able to rent a 35- or 65-gallon City-owned garbage container. Commercial customers can use either a City dumpster or a city-owned garbage container. Curbside recycling runs every other week. The average stops per day is 364. It is a one-man operation, which one refuse collector runs each month. Consideration needs to be given to weekly curbside recycling.

The Recycling Center is open Monday through Friday from 7:00 a.m. to 5:30 p.m. and from 8:00 a.m. to 4:00 p.m. on Saturdays. Local civil volunteer groups, when available, continue to work during Recycling Saturdays as a community service.

Two part-time employees operate the Recycling Center each day, each working half a day, including each Saturday. There is a total of four part-time employees who work in the center. The average number of cars through the center each day is 159.

Yard Waste Site

Along with the Recycling Center, the City also operates a Yard Waste Site from April through November. Four part-time employees also operate the Yard Waste Site. Leaves, grass clippings, garden waste, trees, and branches are accepted at no charge. Appliances, furniture, tires, and carpeting are also collected here for a fee while it is open.

City of Waverly - Public Works Solid Waste Division

Recycling Statistics

FY 2019-20

Recycling Center Car Count – Monday - Saturday Total 46,872 Daily Average____ Recycling Center Car Count – Saturday only Total 10,499 Monthly Average 875 Curbside Recycling Stops Monthly Average 3,939

Total Weight of the Recycled Products from the Recycling Center and Curbside

Recycling Route: 1,026 tons Total Weight of the Recycled Products from the Curbside Recycling Route:

852,880 pounds (376 tons)

Revenue from the recycled products: \$22,924.60

• In April 2020 the City started receiving revenue from the paper products recycled again. This included: office paper (white and colored), cardboard, magazines, newspapers, and books.

Other items or material recycled by the City of Waverly:

- 11 tons of steel, old sewer castings, signs, poles, plow blades, and miscellaneous pieces
- 56 tires

Total 40,273

- 470 appliances
- 2,800 gallons of oil
- 369 electronics (computers, televisions, monitors, and printers)

Yard Waste Site car count: 22,896

(July - Nov 2019 and March – June 2020):

Monthly average: 2,289

Busiest months were October 2019 and May 2020

470 tons of yard waste were turned into compost.

1759 tons of brush and trees were ground up to make wood mulch.

City of Waverly - Public Works Solid Waste Division

Employee Hours

FY 2019-20

Refuse Collections	Hours
Residential	1,611
Commercial	2,199
Black Hawk Co. Landfill	967
Temporary Dumpsters	439
Corrugated Collection	452
Special Pickups	108
Curbside Recycling Pick-up	893
Recycle Center Duties	652
Container Exchanges	210
Building/Vehicle Maintenance	372
Dumpster Repairs	536
Misc. Activity (training, etc)	19
Other Divisions	
Street Division	006
Snow Plowing & Removal	236
Other (Patching, Mowing, Tree Trimming, Etc)	196
Water Division Projects	0
Sewer Maintenance Projects	24
Other Departments	176

Car Count

Recycling Center and Yard Waste Site

FY 2019-20

Recycling Center

	Recycling center													
Month		Weel	kdays	Satu	rdays	Monthly	Daily							
Month	# of Days	# of Cars	% of Total	# of Cars	% of Total	Total	Average							
July '19	26	4,045	82%	885	18%	4,930	190							
Aug '19	27	3,680	77%	1,079	23%	4,759	176							
Sep '19	24	2,898	77%	876	23%	3,774	157							
Oct '19	27	3,351	80%	812	20%	4,163	154							
Nov '19	24	3,012	72%	1,165	28%	4,177	174							
Dec '19	24	3,560	79%	967	21%	4,527	189							
Jan '20	26	3,350	79%	865	21%	4,215	162							
Feb '20	25	2,693	69%	1,234	31%	3,927	157							
Mar '20	26	2,260	77%	657	23%	2,917	112							
Apr '20	13	1,326	80%	333	20%	1,659	128							
May '20	25	2,959	77%	860	23%	3,819	153							
Jun '20	26	3,239	81%	766	19%	4,005	154							
Totals		36,373		10,499		46,872	159							

Recycling Center - Car Count History

Fiscal Year	2015-16	2016-17	2017-18	2018-19	2019-20
Weekdays	27,733	29,126	30,434	32,839	36,373
Saturdays	8,479	8,858	9,658	10,241	10,499
Totals	36,212	37,984	40,092	43,080	46,872

Yard Waste Site - Car Count History

Fiscal Year	2015-16	2016-17	2017-18	2018-19	2019-20
Totals	23,400	25,010	20,767	22,123	22,896

City of Waverly - Public Works

Solid Waste Division

Curbside Recycling Number of Residental/Commercial Stops

FY 2019-20

Week Beginning	_Mon_	Tues	Wed	Thurs	Fri	Weekly Totals	Total
07/01/19	322	<u>254</u>	323	240	308	1,447	3,074
07/15/19	321	<u>291</u>	321	358	336	1,627	
07/29/19	336	295	342	408	393	1,774	5,314
08/12/19	325	300	365	395	372	1,757	
08/27/19	345	315	351	391	381	1,783	
09/10/19	361	346	373	413	367	1,860	3,662
09/24/19	335	393	346	368	360	1,802	
10/08/19 10/22/19	<u>422</u> <u>393</u>	506 453	413 401	456 378	423 368	2,220 1,993	4,213
11/05/19	335	385	351	386	372	1,829	3,557
11/19/19	338	312	344	376	358	1,728	
12/03/19	352	316	363	<u>416</u>	378	1,825	3,551
12/17/19	366	269	363	<u>385</u>	343	1,726	
12/31/19	343	341	331	415	381	1,811	5,366
01/14/20	355	365	342	391	350	1,803	
01/28/20	315	351	358	383	345	1,752	
02/11/20 02/25/20	362 358	444	351 320	376 408	327 324	1,860 1,817	3,677
03/11/20	315	317	340	381	341	1,694	3,554
03/25/20	338	362	357	398	405	1,860	
04/08/20 04/22/20	355 351	357 327	390 381	416	378 390	1,896 1,867	3,763
05/06/20	326	333	331	415	<u>405</u>	1,810	3,707
05/20/20	345	331	348	424	<u>449</u>	1,897	
06/01/20	403	370	354	399	423	1,949	3,835
06/15/20	381	345	390	444	326	1,886	

Total for the FY 2019-20 47,273

Average Daily Stops 364

Recycling Quantities

2019-20

Sorted Recycling Collected at Recycling Center

		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	TOTAL
Paper, Bond	lbs.	3,395	3,945	3,785	2,525	950	3,330	2,395	2,650	5,730	-	6,515	-	35,220
Slick Paper / Magazines	lbs.	6,275	6,485	5,085	4,320	6,180	3,725	6,105	6,485	6,560	-	8,200	-	59,420
Newsprint	lbs.	6,095	7,435	5,395	4,845	7,850	6,370	13,285	8,730	9,760	-	8,380	-	78,145
Corrugation/Chipboard	lbs.	84,365	77,340	74,775	93,245	76,515	83,365	71,325	73,847	70,120	56,720	68,260	79,040	908,917
#3, 4, 5, 6, 7 Plastics	lbs.	9,340	5,640	3,980	8,260	8,940	4,320	4,340	8,540	5,000	-	10,700	5,760	74,820
Steel / Alum	lbs.	215	215	140	180	90	215	415	55	-	-	8,172	12,301	21,998
Books	lbs.	2,520	5,530	2,720	1,905	2,020	845	3,455	3,365	7,245	-	3,145	-	39,450
Styrofoam**	lbs.	620	560	480	560	480	1,000	520	720	560	400	800	880	7,580
Clear Glass*	lbs.	8,960	9,100	4,460	8,280	4,500	4,100	9,160	4,120	4,420	4,480	9,120	9,220	79,920
Totals - Sorted Recycling		121,785	116,250	100,820	124,120	107,525	107,270	111,000	108,512	109,395	61,600	123,292	107,201	1,298,770
*City takes glass to City of Čedar Falls and they recycle at no cost to us.											649			

Commingled Recycling Picked up Curbside

		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	TOTAL
Totals - Commingled	lbs.	69,380	56,820	72.520	62.940	56,860	59,060	71,220	57.240	73.740	62,500	46.380	64.220	752,880
Recycling	103.	05,560	30,820	72,320	02,540	30,800	33,000	71,220	37,240	73,740	02,300	40,300	04,220	732,880
Aluminum, Cardboard, Slick Paper, Newspapers, Bond Paper, Plastics & Metal Cans Total Tons												376		

TOTAL RECYCLING

		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	TOTAL
TOTALS - Sorted & Commingled Recycling	lbs.	191,165	173,070	173,340	187,060	164,385	166,330	182,220	165,752	183,135	124,100	169,672	171,421	2,051,650
				•	•								Total Tons	1,026

Motor Oil Collected at Recycling Center

		July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	April	May	June	TOTAL
Motor Oil	gal.	250	200	250	350	600	225	100	50	100	50	300	325	2,800

^{**}City takes styrofoam to City of Cedar Falls and they recycle at no cost to us.

Solid Waste and Recycling Revenues

FY 2019-20

		Solid	Waste		Recyclable	s Collected a	it Recycling C	enter & YWS	1		Total
	Utility	Sticker	Temp.	Total				Recycled	Total	SOLI	D WASTE
	Billing	Sales	Dumpsters	Solid Waste	Paper	Steel &	Metro	Bulky	Recyclable	& REC	CYCLABLE
Date	670-840-4500	670-840-4552	& Misc.	Revenue	Products	Aluminum	Redemption	Items*	Revenue	RE	VENUE
Jul-19	\$ 124,807.21	\$ 1,180.00	\$ 475.00	\$ 126,462.21	\$ -	\$ 126.30	\$ 148.90	\$ 1,354.00	\$ 1,629.20	\$	128,091.41
Aug-19	123,602.36	4,310.00	352.93	128,265.29	-	50.40	431.85	1,386.00	1,868.25	•	130,133.54
Sep-19	117,215.52	2,362.93	576.65	120,155.10	-	100.50	104.85	1,335.16	1,540.51	•	121,695.61
Oct-19	130,470.42	195.00	901.20	131,566.62	-	54.20	260.75	2,371.45	2,686.40	•	134,253.02
Nov-19	118,577.56	1,170.00	126.20	119,873.76	-	215.20	198.30	1,043.00	1,456.50	•	121,330.26
Dec-19	132,201.05	207.00	429.20	132,837.25	-	86.20	143.05	625.00	854.25	•	133,691.50
Jan-20	128,248.03	2,838.75	132.71	131,219.49	-	63.30	259.50	707.00	1,029.80	•	132,249.29
Feb-20	117,155.50	34.00	175.00	117,364.50	-	232.80	295.45	433.50	961.75	•	118,326.25
Mar-20	128,829.96	2,165.00	225.00	131,219.96	-	9.09	-	296.00	305.09	•	131,525.05
Apr-20	122,341.00	195.00	331.61	122,867.61	176.85	74.40	149.35	977.60	1,378.20	•	124,245.81
May-20	124,631.98	2,145.00	402.93	127,179.91	834.60	94.20	100.30	1,527.00	2,556.10	•	129,736.01
Jun-20	126,816.62	4,779.50	857.88	132,454.00	491.46	77.85	213.75	2,295.20	3,078.26	,	135,532.26
TOTALS	\$1,494,897.21	\$21,582.18	\$ 4,986.31	\$ 1,521,465.70	\$ 1,502.91	\$ 1,184.44	\$ 2,306.05	\$ 14,350.91	\$19,344.31	\$ 1,5	540,810.01
		Receiv	ed from Blac	k Hawk County La	ndfill to assist v	vith funding o	f recycling & v	vaste reduction:	8/1/2019	\$	3,580.29
								TOTAL REVEN	NUES	\$ 1,	544,390.30

^{*}Residents pay the City to dispose or recycle any of their bulky items (appliances, furniture, etc.). The City then pays a disposal fee to the Black Hawk County Landfill or a fee to a specific recycling company to recycle appliances, electronics, etc.

City of Waverly **Solid Waste Landfill Disposal Quantities**

		2015-16	2016-17	2017-18	2018-19	2019-20
		Tons	Tons	Tons	Tons	Tons
July	Residential:	164	140	159	164	180
,	Commercial:	204	183	210	234	252
		368	323	369	398	431
August	Residential:	146	169	176	173	174
	Commercial:	199	251	233	258	238
		345	420	409	431	412
September	Residential:	136	160	149	149	156
	Commercial:	223	268	224	235	256
		358	428	372	383	412
October	Residential:	152	140	159	156	161
	Commercial:	217	233	248	266	263
		369	372	407	423	425
November	Residential:	147	149	155	165	150
	Commercial:	209	225	217	222	217
		355	374	372	387	367
December	Residential:	140	145	143	146	167
	Commercial:	214	205	179	209	219
		354	350	322	355	386
January	Residential:	124	144	155	138	152
	Commercial:	171	205	234	189	226
		295	349	389	327	378
February	Residential:	125	124	123	144	121
	Commercial:	202	189	197	195	199
		327	313	320	339	320
March	Residential:	122	153	145	138	136
	Commercial:	211	217	214	224	225
		333	370	359	362	361
April	Residential:	138	133	133	158	174
	Commercial:	224	221	242	258	187
		362	354	375	416	361
May	Residential:	134	166	158	173	173
	Commercial:	247	252	267	267	213
		381	419	425	440	386
June	Residential:	155	163	134	152	173
	Commercial:	237	228	221	220	250
		391	391	355	372	423
Total Reside		1,683	1,787	1,788	1,858	1,919
Total Comm		2,556	2,677	2,684	2,777	2,745
Grant	Total	4,239	4,464	4,472	4,635	4,663

City of Waverly - Public Works Solid Waste Division

Bulky Items Collection

FY 2019-20

	2019						2020							
											Special Collection			
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Week	May	June	Total
Appliances w/Freon						*Yard Waste Site Closed			sed					
Refrigerators	4	5	9	5	11	1	2	2	2	3	4	9	4	61
Freezers	0	2	3	2	0	1	0	0	1	2	1	2	1	15
Air Conditioners	1	6	0	0	3	1	0	1	0	0		0	3	15
Dehumidifiers	11	9	2	8	8	2	1	1	1	1	3	9	10	66
Appliances w/out Freon														
Water Heater/Furnace	1	1	1	0	1	5	1	2	0	1	1	1	1	16
Water Softener	0	0	2	3	4	1	0	1	1	0		1	0	13
Stove	2	0	1	4	3	2	1	1	0	2	2	2	2	22
Washer	3	4	5	1	6	1	1	2	0	2	6	6	3	40
Dryer	0	1	0	1	1	3	1	1	1	4	5	3	5	26
Dishwasher	3	3	0	4	4	3	2	2	1	2	1	3	4	32
Humidifier	1	0	1	0	1	0	0	0	0	0		0	1	4
Gas Grill	5	3	4	3	2	0	1	0	0	4	11	14	9	56
Microwave	9	16	9	7	8	5	4	7	2	3	5	21	8	104
Electronics														
Televisions	40	37	37	25	27	22	11	12	18	19	21	36	35	340
Monitors	0	0	0	0	0	0	0	1	0	0		3	1	5
Printers	2	1	3	1	0	1	0	1	2	2	1	3	4	21
Computers	0	0	0	0	1	0	0	1	1	0		0	0	3
Tires														
Car	7	4	6	8	2	4	0	0	0	2	3	8	3	47
Truck	0	1	0	0	0	0	0	3	3	0		1	0	8
Tractor	0	0	0	0	0	0	0	0	0	0		1	0	1
TOTAL	89	93	83	72	82	52	25	38	33	47	64	123	94	895

^{*}Bulky Items are collected at the Public Services site during the winters months that the Yard Waste Site is closed.