

City Administrator Report to Mayor & City Council

2017-08-04, Edition No. 275

WEEKLY UPDATE:

- CSO: Attached please find the July 2017 West Hill Projects progress report. Karmen K. Heim, P.E., Senior Environmental Engineer, Stanley Consultants
- Projects: Please find attached a summation of our Projects Team Meeting from July 26th. Please note that our next meeting will be August 9th. R. Hill
- CAT: We have been invited to make a presentation to the Enhance Iowa Board at its next meeting to present our CAT grant application.
- WPCP: WPCP Director Jon Koch - Attached are comments explaining the issues the WPCP experienced during the recent electrical storms in July. Please let me know if you have any other questions. We are back up and running well with redundant systems in place to better respond to these issues. We are hiring an electrical contractor to trace system failures that did not alarm the SCADA to ensure better monitoring of the system. We are also adjusting our budget to hire these contractors for 24/7 service to respond to these issues on evenings, weekends and holidays to ensure a more rapid return to full treatment should appropriate plant staff be unavailable.
- Meeker Project: Community Development has set a public meeting for this project on August 16th at 5:30. Mailers notifying the neighbors of this will be going out tomorrow. Mr. Meeker has significantly changed his parking scheme for the old Washington School (See attached revision). He is now proposing a much smaller parking lot that, located on the north side of the building, is significantly away from the properties on the south. He would then expand the parking lot, at later date when he gets to remodeling the rest of the building.
- Communications: OpenGov - Communication Manager Kevin Jenison provided a quick update on OpenGov use: In the past 30 days we have had 134 visitors to our transparency site and an average of just over 14 minutes spent on each visit. Our high point came on July 13 (29 visitors) and July 14 (30 visitors). We have had 17 visits in the past seven days with an average time on site of three and a half minutes. Most of the visitors have come from Muscatine but we have also had visits from individuals in Davenport, Moline, Madison, Wis., and Redwood City, Calif.
- Housing: As noted last night, we have three developers interested in doing housing projects in Muscatine - two senior housing projects and one market rate. These are tax credit projects (different programs) and they will likely be requesting abatement or TIF. As is our process, we will have presentations prepared by the developer.



PROJECT STATUS REPORT

Project Name: City of Muscatine - West Hill Sewer Separation **Month:** July 2017
Prepared By: Stanley Consultants **Project Number:** SCI: 17660: 30.02, 40.00, 41.00
"PHASE" refers to Design Package/Construction Contract

Progress for Last Month (July 2017):

PHASE 3 (Phase 3A, 3B, 3C):

Phase 3A/3B/3C – Construction:

- Attended periodic phase 3C construction progress meetings

PHASE 4 Concept Design:

- July 11 - Met with City to discuss concept estimate and received comments to revise estimate.
- Revised concept estimate and provided to public works on July 21.
- Prepared and mailed annual July EPA report – July 14

Work Items for Coming Month (August 2017):

PHASE 3 (3A, 3B, 3C) - Construction:

- Attend Phase 3C coordination meetings.
- Assist as requested with construction topics.

PHASE 4 – Concept Design:

- Meet with Nancy and Gregg to discuss project financing and packaging. August 2nd.
- Determine with City what size of project to proceed with to final design. Seek authorization to proceed with final design.
- Schedule for Phase 4
 - Concept Design and Estimate – submitted June 23, 2017. Revised July 21.
 - Final Design – August 2017 – February 2018 (Pending selection of size of project to finalize)
 - Bid and Construction – 2018

Key Issues & Information Required:

- Continued City updates on construction topics including Hagerty dispute.
- Decision on size of package, number of phases, and duration of construction of the next construction project.
- Authorization to proceed to final design and preparation of bid documents for selected project.

Critical Information:

- None.



Hill, Randy <rhill@muscatineiowa.gov>

NEXT PROJECT MEETING: Wednesday, August 9, 2017 --- 7:30 a.m. Minter FO

Hill, Randy <rhill@muscatineiowa.gov>
Draft

Thu, Jul 27, 2017 at 5:47 PM

Gentlemen --- the following are my notes from our Team Meeting on Wednesday, July 26, 2017:

1. West Hill Sewer Separation

- a. Millings placed on Locust to Park
- b. HELLC installing storm sewer around Park
- c. MPW will begin work on E. 5th St.
- d. Paving coordination between Hagerty and Heuer for Park area
- e. Goal: Have project completed by September 30, 2017

2. Mulberry Ave. Reconstruction Project

- a. Subcontractor, All American repairing cracks in walks and street
- b. Will reseed during the Fall "window" that begins in August
- c. Work with WPCP (Koch) for retention basin low-growth plantings
- d. Closeout: September 7, 2017 Council Meeting

3. Mississippi Drive Corridor Project

- a. Rain has resulted in major fluctuations of river level which impacts project
- b. Iowa Ave. and adjacent sidewalks have been paved
- c. Important manhole at Mississippi Dr. and Chestnut installed
- d. Water services issues: Button Factory, Brew and Smith Sales and Service (resolved)
- e. Water Main disconnect underway on south side of RR tracks
- f. Met with Business Owners fronting or adjacent to project area four times
 - Will set meetings for once p/month
 - Next Meeting scheduled for August 10th
- g. Schedule of work (July 27 - August 3)
 - Finish water main switch over between Iowa and Chestnut
 - Sanitary sewer to the west 100 feet and also up Chestnut
 - Will begin work on storm at Chestnut intersection
 - Pour sidewalk between Iowa & Sycamore - north side
 - Installation of duct bank 6" & 2" conduit from Iowa to Chestnut
 - Water service to Mississippi Brew and finish sidewalk
 - Light pole foundations, boxes
 - Install sub vault at Chestnut
 - Coordinating with Merit Const. for sanitary sewer on Chestnut

4. Musser-Wiggens Trail

- a. Houser St. dirt moved to Stewart Road
- b. Millings placed along Grandview
- c. Millings placed on Hahn property
- d. Fence installed around pasture off 33rd St.
- e. CP Rail connection completed
- f. Plan to pour concrete section in Mid-August
- g. Issue: Kinder Morgan & MPW location of water line could cause a delay
- h. 80 day Completion period
- i. Public Works to complete trail around Transfer Station in September

5. Library Relocation Project

- a. OPN (design firm) will break out construction costs from amenities
- b. City will move forward with bid contract for construction
- c. Funding opportunities pursued
- d. Project is part of CAT Grant application

6. Riverfront Master Plan

- a. Received Final Report from SEH

- b. Coordination meeting needed to plan action, if any, on Master Plan concepts

7. Property Acquisition/Demolition

- a. TeStrake building is being demolished

8. Landfill Cell Construction

- a. Start date: August 1st
- b. 50 day completion period

9. Cleveland Ave. Reconstruction

- a. Anticipate an August start date
- b. Public Information meeting needed with business owners

10. 2017 Sidewalk Program

- a. Spring 2018 Project

11. West Hill Sewer Separation Street Tree Restoration Project

- a. Door Hangers have been distributed
- b. This project is now the responsibility of the Parks and Recreation Dept.

12. Grandview Ave. Reconstruction Project

- a. Bolton-Menk proposal still under review

13. 2nd/Mulberry Roundabout Design

- a. Awaiting final EA clearance
- b. Possible Bid Letting/Change Order - January 2018

14. West Side Trail

- a. RFP prepared for distribution
- b. Additional \$70K-80K TAP funds may be available

15. Future Projects

- a. Facilitate the discussion on the future plan for Carver Corner
- b. Riverfront Master Plan Implementation
- c. Grandview Ave. related projects outside EA footprint
- d. Set a timetable to review the Phase IV Sewer Separation Project

16. Continuity Planning

- a. Update - how is it working?
- b. What's next?

Reminder: Next Meeting is Wednesday, August 9th. If you have any questions please contact me. rh

Iowa Department of Natural Resources NPDES Reporting

Facility: City of Muscatine WPCP

NPDES Number: 7048001

Month: July

Year: 2017

Additional comments for Monthly Operating Report:

On July 18th, 2017, the City of Muscatine experienced a severe thunderstorm. Rainfall totaled 1.92” through an extended storm. Since that storm, the plant experienced electrical issues within the control system located in the blower building. A PLC module card malfunctioned twice without sending an error alarm to the SCADA. The first outage was on July 19th after the storm. The card was replaced with the second card malfunctioning on Sunday July 23rd into Monday July 24th. A new card was placed into service on July 25th. The system outage caused the following issues to occur:

Flow Values :

The plant flow results for July 18th through July 25th were not being properly recorded by the controller. Flow values will be estimated based on plant historical data and rainfall.

Blower Outage:

The Muscatine WPCP experienced control module issues that caused aeration basin blowers to work improperly causing incomplete treatment. The system went down late July 23rd and through the 24th continued to fail without producing an alarm. On July 24th when it was realized the failure would not create an alarm the blowers were put in hand to run continuously. A replacement module was placed into service on July 25th. This outage caused a lack of oxygen for the activated sludge to properly treat the wastewater on July 23rd and July 24th.

The aeration basin outage caused an elevation in the CBOD of the plant effluent.

Date	Influent BOD mg/L	Influent COD mg/L	Influent Ratio $\frac{BOD\ mg/L}{COD\ mg/L}$	Effluent CBOD mg/L	Effluent COD mg/L	Estimated CBOD mg/L
7/23/17	57.6	141	0.409	>25.1	46.8	19.1
7/24/17	55.5	134	0.414	>23.5	69.6	28.8

Iowa Department of Natural Resources NPDES Reporting

Facility: City of Muscatine WPCP

NPDES Number: 7048001

Month: July

Year: 2017

Additional comments for Monthly Operating Report:

UV Gate Motor Malfunction:

July 3rd – July 6th - The gate motor contact malfunctioned July 3, 2017.

The City of Muscatine WPCP had discovered the UV system's gate was not properly working on the morning of July 3, 2017. The system was bypassed to discover the problem with the UV gate motor.

The Iowa DNR was contacted by Scott Swift, Operations Supervisor/Pretreatment Coordinator, on Monday afternoon July 3, 2017.

Keokuk (drinking) Water and the City of Burlington Water Department were contacted around 2:30 pm about the UV bypass. A Public Notice was issued per the Iowa DNR on July 3, 2017 by Patti Fuller-Bloechl, Chemist, to Iowa DNR, Muscatine Journal, Voice of Muscatine, Keokuk Water and City of Burlington Water Department in a single email.

July 5, 2017

Maintenance took the gate motor apart and discovered that the Contact and Forward/Reversing Contactor Motor Controller had malfunctioned. Similar parts from a different motor were installed into the existing system at 5 pm. The UV system ran for approximately 20 minutes on Wednesday evening. Due to time of day at 5:30 pm, plant personnel did not want to risk damage to the \$200,000 UV system without being monitored for the evening, so the system was bypassed for the evening.

July 6, 2017

On July 6, 2017 the UV system was placed into service at 7:40 am. After monitoring the system, a Public Notice was released at 1:00 pm by Kevin Jenison, Communications Manager, stating the UV system was working.

River samples upstream and downstream of the discharge, were collect at 8:00 am by plant staff. Plant Operations sampled a pre-UV and Post UV sample after 12:00 pm were taken and analyzed for E. coli.

Burlington and Keokuk drinking water facilities were contacted via email by Patti Fuller-Bloechl, Chemist.

E. coli and Total Coliform Testing –

Below is the results the Muscatine WPCP Effluent Pre UV Disinfection is occasionally analyzed with the plant effluent after the UV disinfection system. The sample on July 6 was taken immediately after the UV disinfection system was returned to service. With the low flows due to the July 4th holiday and the reduced use from industries, the Pre-UV results from July 6, 2017, are pretty indicative of the results from July 3 & 4th. A pre-UV effluent sample from June 29th had an E. coli result of 1,600 MPN and Total Coliform of 39,000 MPN.

Sample Date	July 6, 2017	July 7, 2017
WPCP Post UV Effluent	E. coli 14 MPN Total Coliform 770 MPN	E. coli 7.4 MPN Total Coliform 980 MPN
WPCP Pre- UV Effluent	E. coli 1,900 MPN Total Coliform 99,000 MPN	
Mississippi River Up Stream (Gas Dock)	E. coli 52 MPN Total Coliform 2,800 MPN	E. coli 85 MPN Total Coliform 4,900 MPN
Mississippi River Downstream (Earl Street)	E. coli 10 MPN Total Coliform 3,400 MPN	E. coli 63 MPN Total Coliform 5,800 MPN

