

City Administrator Report to Mayor & City Council

July 11, 2014, Edition No. 135

WEEKLY UPDATE:

1. Flooding: City Staff is out each day cleaning up as the river recedes. We are working with Great River Days staff to prepare for their event and have a few "backup" options for the event. A pre-event meeting will be held next Wednesday morning to finalize location and preparation. At this point, the carnival may be on Mississippi Drive while it is closed and the band and concessions will be on the riverfront. Please note the railroad crossing issue below.
2. Community Development: Reminder that we are having an Open House for Steve Boka this coming Tuesday from 3-5 PM in the Council Chambers. Please stop by and wish Steve well in his retirement. Dave Gobin has been on the job since Monday and coordinating with Steve to be brought up to speed on the department and outstanding projects.
3. Miss Drive and Federal Funding: We are working with IDOT to have Miss Drive reclassified from a principal arterial to a minor arterial. This should allow us to move forward with Miss Drive as a local project unless federal funding is acquired.
4. Cedar Street: The state Blue Zones Team has requested a time-lapse video of the Cedar Street round-a-bout construction. They have provided a camera that will be installed on the adjacent property owners fence to capture the project as it unfolds. On a similar note, Dan Burden may be back in town this Fall to provide additional resources and expertise on forthcoming projects.
5. City Week: City Week is the week of October 6th-10th. We have an intern from WIU working on a marketing plan for the week. We plan to have information to share through multiple media outlets to showcase the city. For more information: <http://cityweekiowa.com>
6. RR: The Canadian Pacific has with no notice to the City, nor to IDOT raised the railroad bed and removed two at grade crossings at Iowa and Cedar Street. These were new crossings installed at a cost of \$300,000 2 years ago (60% state, 20% city, 20% railroad). We are working with the IDOT and attempting to have the CP take corrective action. City Staff held a conference call with the IDOT Office of Rail Friday morning and IDOT will attempt to arrange a meeting or conference call next with with DM&E (CP) Railroad.
7. Cemetery Steps: Attached is a copy of the July 9, 2014, Recreation Advisory Commission Agenda with the the Green Wood Cemetery Steps Request listed as item #4. Attached to the agenda is a copy of the Friends of Greenwood Cemetery written request for the Commission to endorse the Cemetery Step Restoration Project. The Friends Group made a presentation to the Commission on the topic and a motion to endorse the project was made subject to the group seeking complete private funding, a maintenance

endowment be part of the project, and the construction part of project would need to meet all current City codes. The motion failed due to a lack of a second.

MEMORANDUM

Confidential—Attorney/Client Privileged—Attorney Work Product

TO: Gregg Mandsager

FROM: Matt Brick and Erin Clanton

DATE: July 2, 2014

SUBJECT: Panhandling

We have been asked to provide a legal opinion with regard to allowing peddlers, solicitors, and/or transient merchants to solicit charitable donations and/or otherwise conduct business within the City's roadways. As more specifically described below, it is our legal opinion that such solicitations can occur in the right-of-way, but that standing or entering into the traveled roadway not only creates a substantial liability for the City, but is also contrary to the City and State traffic and public safety laws.

As an initial matter, pedestrians are subject to all traffic-control signals. *See* Iowa Code §321.325. Any individual who is not in a vehicle is considered a "pedestrian" for purposes of roadway regulations in the state of Iowa. *See* Iowa Code §321.1(51). Where sidewalks are provided, it is unlawful for any pedestrian to walk along and upon the roadway, and if no sidewalk is available, the pedestrian must walk on the left side of the highway or roadway or its shoulder facing traffic that is approaching from the opposite direction. *See* Iowa Code §321.326 and Muscatine Municipal Code §7-9-7. Muscatine Municipal Code also prohibits persons from "obstruct[ing] any street, sidewalk, highway, or other public way, or the entrance or the exit of any business..." *See* Muscatine Municipal Code §7-17-1. Thus, allowing individuals to walk along and upon the roadway is a clear violation of the Iowa Code and Muscatine Municipal Code §7-9-7.

In addition, allowing persons to solicit contributions, distribute materials or sell merchandise upon City roadways creates a host of liability issues. Specifically, there is concern for the pedestrians as well as distracted motorists, both of whom would look to the City for damages in the event of an accident that was caused by activities "blessed" by the City ordinances. Consequently, we do not recommend allowing peddlers, solicitors, and/or transient merchants to solicit charitable donations and/or otherwise conduct business within the City's roadways. We have drafted proposed ordinance language to effectuate this change.

Please let me know if you have any questions. Thanks!

Title 5 – Business Regulations

Chapter 14 – Peddlers, Solicitor, and Transient Merchants

- 5-14-1 Definitions
- 5-14-2 License Required
- 5-14-3 Application for License
- 5-14-4 License Fees
- 5-14-5 Insurance Required
- 5-14-6 License Issued
- 5-14-7 Display of License
- 5-14-8 License Not Transferable
- 5-14-9 Time Restriction
- 5-14-10 Suspension or Revocation of License
- 5-14-11 Penalty
- 5-14-12 Rebates
- 5-14-13 License Exemptions
- 5-14-14 Prohibited Activities

5-14-1 Definitions. For use in this chapter the following terms are defined:

1. "Peddler" means any person carrying goods or merchandise who sells or offers for sale for immediate delivery such goods or merchandise from house to house or from street to street.
2. "Solicitor" means any person who solicits or attempts to solicit from house to house, business to business, or from street to street for the purpose of obtaining or attempting to obtain orders for: (1) the sale of goods, wares and merchandise, personal property of any nature whatsoever, for future delivery whether or not such individual has, carries or exposes for sale a sample of the subject of such sale; (2) or for services to be performed in the future whether or not such individual is collecting advance payment on such sales or not; or (3) a request, whether vocalized or not, for a donation or contribution other than in response to an inquiry from another person.
3. "Transient merchant" means any person who engages in a temporary or itinerant merchandising business and in the course of such business hires, leases or occupies any building or structure whatsoever, or who operates out of a vehicle which is parked anywhere within the City limits. Temporary association with a local merchant, dealer, trader or auctioneer, or conduct of such transient business in connection with, as a part of, or in the name of any local merchant, dealer, trader, or auctioneer does not exempt any person from being considered a transient merchant.

5-14-2 License Required. Any person engaging in peddling, soliciting or in the business of a transient merchant in the City without first obtaining a license as herein provided is in violation of this chapter.

5-14-3 Application For License. An application in writing shall be filed with the Clerk for a license under this chapter. Such application shall set forth the applicant's name, permanent and local address, and business address if any. The application shall also set forth the applicant's employer, if any, and the employer's address, the nature of the applicant's business, the last three places of such business and the length of time sought to be covered by the license. An application fee in an amount fixed by resolution of the Council and set out in the Schedule of Permits and Fees in

the appendix to this code of ordinances shall be paid at the time of filing such application to cover the cost of investigating the facts stated therein.

5-14-4 License Fees. The fee required for the issuance of a license issued under this chapter shall be set by resolution of the City Council and is listed in the Schedule of Permits and Fees in the Appendix of this Code of Ordinances.

5-14-5 Insurance Required.

A. Before a license under this chapter is issued to a peddler, solicitor, or transient merchant, an applicant shall provide to the Clerk a certificate of insurance naming the City as an additional named insured. Said certificate of insurance shall be in a minimum amount of \$2,000,000.00 providing coverage against any and all property damage, injuries, including injury resulting in death, or wrongful fraudulent or illegal conduct by reason of, or related to, the licensee's use of public streets, sidewalks, right of ways or other public places to engage in activity pursuant to this ordinance. Said insurance shall be maintained throughout the duration of the license period one (1) year thereafter and failure to do so shall be a violation of this ordinance. All certificates of insurance issued pursuant to this chapter shall contain a clause that 10 days' prior written notice of cancellation or change shall be given to the City Clerk of the City of Muscatine.

B. An applicant shall also submit an executed agreement to indemnify and hold harmless the City of Muscatine and its officers, employees, agents and assigns from any and all claims, actions, injuries and damages of every kind and description which may accrue to or be suffered by any person by reason of or related to the vending of merchandise by said applicant or the granting of a license to do so.

C. Failure to comply with the requirements of this section shall be cause for denial or revocation of the license.

5-14-6 License Issued. If the Clerk finds the application is completed in conformance with the requirements of this chapter, the facts stated therein are found to be correct, and the license fee paid, a license shall be issued immediately.

5-14-7 Display Of License. Each solicitor or peddler shall keep such license in possession at all times while doing business in the City and shall, upon the request of prospective customers, exhibit the license as evidence of compliance with all requirements of this chapter. Each transient merchant shall display publicly such merchant's license in the merchant's place of business.

5-14-8 License Not Transferable. Licenses issued under the provisions of this chapter are not transferable in any situation and are to be applicable only to the person filing the application.

5-14-9 Time Restriction. All peddler's and solicitor's licenses shall provide that said licenses are in force and effect only between the hours of 8:00 a.m. and 8:00 p.m.

5-14-10 Suspension or Revocation of License.

A. Grounds; Notice:

1. The City Clerk may suspend any license issued under this Chapter, pending the outcome of an administrative hearing, for any of the following reasons:

a. The licensee has made fraudulent statements in his/her application for the license or in the conduct of his/her business.

b. The licensee has violated this Chapter or any other Chapter of this Code or has otherwise conducted his/her business in an unlawful manner.

c. The licensee has conducted his/her business in such manner as to endanger the public welfare, safety, order, or morals.

d. The City Clerk has received and investigated multiple written complaints during the licensed period from residents of the City who are dissatisfied with the manner in which the licensee is conducting business.

2. The City Clerk shall have immediately serve notice to the licensee served with notice either in person or by regular mail to the licensee's local address of the license suspension, the specific reason(s) for such action, and date and time of hearing with the City Clerk to review the particulars of the suspension.

B. Hearing: A hearing shall be conducted by the City Clerk not more than five (5) business days after he/she has suspended a license. The licensee and any complainants may be present to determine the truth of the alleged violation of this Chapter. Should the licensee or his/her authorized representative fail to appear without good cause, the City Clerk may proceed with the hearing and make his/her findings to a conclusion.

C. Revocation: After the City Clerk has reviewed the facts, he/she shall revoke a license if he/she finds by the preponderance of the evidence that a violation of this chapter has occurred. The revocation shall be effective immediately.

D. Appeal: If the City Clerk revokes or refuses to issue a license, the licensee or the applicant shall have a right to a hearing before the municipal appeal code hearing officer as provided in Section 4-4-9 of this Code. The municipal appeal code hearing officer may reverse, modify, or affirm the decision of the City Clerk.

E. Effect of Revocation: Revocation or denial of any license shall bar the licensee or applicant from being eligible for any license under this Chapter for a period of one (1) year from the date of the revocation or denial. There shall be no refund of any fees for any revocation.

5-14-11 Penalty. Anyone violating any of the provisions of this Ordinance shall, upon conviction, be subject to imprisonment not exceeding thirty (30) days, or a fine not exceeding one hundred dollars (\$100.00). Each day that a violation continues to exist shall constitute a separate offense.

5-14-12 Rebates. No licensee shall be entitled to a rebate of part of the fee paid if the license is surrendered before it expires.

5-14-13 License Exemptions. The following are excluded from the application of this chapter.

1. Newspapers. Persons delivering, collecting for, or selling subscriptions to newspapers.
2. Club Members. Members of local civic and service clubs, Boy Scout, Girl Scout, 4-H Clubs, Future Farmers of America, and similar organizations.
3. Local Residents and Farmers. Local residents and farmers who offer for sale their own products.
4. Students. Students representing area schools or school districts conducting projects sponsored by organizations recognized by the school.
5. Route Sales. Route delivery persons who only incidentally solicit additional business or make special sales.
6. Resale or Institutional Use. Persons customarily calling on businesses or institutions for the purposes of selling products for resale or institutional use.
7. Authorized representatives of charitable or nonprofit organizations operating under the provisions of Chapter 504 of the Code of Iowa. All such organizations seeking to act as a peddler, solicitor and/or transient merchant are required to submit in writing to the Clerk the name and purpose of the cause for which such activities are sought, names and addresses of the officers and directors of the organization, the period during which such activities are to be carried on, and whether any commissions, fees or wages are to be charged by the solicitor and the amount thereof. If the Clerk finds that the organization is a bona fide charity or nonprofit organization, the Clerk shall issue, free of charge, a license containing the above information to the applicant. In the event the Clerk denies the exemption, the authorized representatives of the organization may appeal the decision to the Council, as provided in Section 5-10-14 of this chapter.

5-14-14 Prohibited Activities. No peddler, solicitor, transient merchant, or other person engaged in other similar activities shall conduct business in any of the following manner:

- A. Calling attention to his or her business, the items to be sold or the donations being solicited by means of blowing any horn or whistle, ringing any bell, crying out, or by any other noise, so as to be unreasonably audible within an enclosed structure.
- B. Obstructing the free flow of traffic, either vehicular or pedestrian, on any street, sidewalk, alleyway, or other public right-of-way.
- C. Standing in a street, including any roadway medians, curbs, traffic islands, shoulders or crosswalks, for the purpose of soliciting contributions, donations, distributing materials or selling merchandise.
- D. Acting in a way as to create a threat to the health, safety, and welfare of any specific individual or the general public.
- E. Failing to provide proof of license, or registration, and identification when requested.
- F. Using the license or registration of another person.
- G. Conducting his/her business in such a way as would restrict or interfere with the ingress or egress of the abutting property owner or tenant.
- H. Alleging false or misleading statements about the products or services being sold, including untrue statements of endorsement. No peddler, solicitor, or

transient merchant shall claim to have the endorsement of the city solely based on the city having issued a license or certificate of registration to that person.

- I. Remaining on the property of another when requested to leave.
- J. Otherwise operating their business in any manner that a reasonable person would find obscene, threatening, intimidating or abusive.

AGENDA

**Muscatine Recreation Advisory Commission
Wednesday, July 9, 2014 – 5:30 P.M.
City Hall – Lower Level Conference Room**

1. Call to order
2. Introduction of Commission Members and selection of Chairperson and Vice-Chairperson
3. Approval of the minutes of the June 4, 2014 regular meeting
4. Request – Greenwood Cemetery Steps
5. Request – Pickle Ball Courts
6. Request – Alexander G. Clark Display
7. Presentation – Bill Pearse, Golf Professional
8. Other Business
9. Adjournment

Memo:

To: Parks & Recreation Director, Richard Klimes

From: Friends of Greenwood Cemetery

Mr. Klimes and Advisory Commission Members,

Representatives of the Friends of Greenwood Cemetery request to be placed on the agenda of next week's meeting to present a summary of the restoration and sustainability plans for the Greenwood Cemetery steps.

Project details:

The plan for the physical work of site development includes the following:

- Removal of unsafe trees.
- Removal of some structurally unsound steps.
- Enhancement of the existing tile system to manage underground water that caused settling in a portion of the steps.
- Replacement of removed steps.
- Repairs to some of the retained old steps that have minor deterioration.
- Installation of handrail systems acceptable by the city on both sides of the steps.
- Landscaping will include installing a seating area above the street near the bottom of the steps, as well as a seating area at the top of the steps. A short sidewalk connecting the upper seating area to the cemetery drive will be installed.
- Elements of the landscaping include some perennial planning for us aesthetics and privacy, seating, and some interpretive signing of the historical dynamics of the steps.
- If recommended by city staff, lighting and video surveillance will be installed.

Budget estimate

\$ 1500	Remove unsafe trees-Freers
\$ 2000	Drainage- Carver Construction
\$15,000	Step restoration and repairs-Carver Construction
\$35,000	Double handrail system-Carter Construction
\$ 4000	Landscape plan design-Synnestvedt & Associates
\$10,000	Landscaping installation- Synnestvedt & Associates

\$ 2000	Signage, historical interpretation
\$ 2000	Lighting
\$ 1000	Security
\$20,000	Maintenance endowment-Comn Found of Gr Muscatine
\$90,500	Total

A large portion of the total budget estimate is already secured as in-kind services.

The Friends cemetery would hope that commission advisory commission will endorse this project prior to presentation to the City Council. We have requested to be on July 17th in depth meeting agenda, but that has not yet been finalized. We would request input on how to further serve city staff ongoing maintenance of the steps as well as all of the cemetery property.



STATE OF IOWA

TERRY E. BRANSTAD, GOVERNOR
KIM REYNOLDS, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
CHUCK GIPP, DIRECTOR

July 2, 2014

Randy Hill, Public Works Director
Public Works Dept.
1459 Washington St.
Muscatine, IA 52762

SUBJECT: CSO Inspection Report
Facility No. 6-70-48-0-01

Dear Mr. Hill:

On 6-6-2014, Jeff Thomann of Field Office #6 and I conducted an inspection of Muscatine's combined sewer system (CSO Inspection). Enclosed is a copy of my report. We believe you will find the report to be self-explanatory.

The report is mainly a descriptive update of the consent order, construction projects and the nine minimum controls. Refer to the summary section at the end for any recommendations.

If you have any questions, feel free to contact me at this office.

Sincerely,

FIELD SERVICES & COMPLIANCE BUREAU

A handwritten signature in cursive script that reads "Paul Brandt".

Paul Brandt
Environmental Specialist Senior

J:/pbrandt/ww/musc-0614-ltr

Encl. ~~Inspection~~ Report

xc: DNR Records Section, DNR, Des Moines
File - Muscatine municipal - CSO

IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL SERVICES DIVISION

Field Office 6,
1023 West Madison, Washington, IA 52353-1623
Tel: (319) 653-2135 Fax: 2856

REPORT OF INVESTIGATION

INVESTIGATION DATES: Current: 6-6-2014
Last Inspection: (CSO Inspection) 6-13-2012

TO: City of Muscatine
Public Works Dept.
1459 Washington St.
Muscatine, IA 52762

PERSONS CONTACTED:
Randy Hill, Public Works Director
Matt Chandler, Sewer Maintenance Supervisor
Bill Haag, Project Inspector
Jon Lutz, City Engineer
Scott Swift, WPCP
Matt Foor, WPCP
Mike Beckman, WPCP
Steve Dalbey, Project Inspector
Karmen Heim, Stanley Consultants

RE: CSO Inspection
Facility # 70-48-0-01

INSPECTOR:

Paul Brandt

DATE:

7-1-2014

REVIEWER:

Terry Jover

DATE:

7-7-2014

DISTRIBUTION: FIELD OFFICE: CENTRAL OFFICE: INSPECTED FACILITY

I. GENERAL INFORMATION:

On 6-6-2014, Jeff Thomann, DNR Field Office 6 staff and I conducted a combined sewer system inspection at Muscatine. We first had a meeting with the above listed personnel at the public works office. Purpose of the meeting was to go over the status of the city's CSO program including current construction projects, proposed construction projects, the nine minimum controls (NMC's) and EPA's consent order.

The city's NPDES permit was reissued on 1-8-2009 and expired earlier this year on 1-7-2014. The permit listed 4 CSO outfalls and included a section, "Special Conditions-Combined Sewer Overflows" which requires the city to abide by the "Nine Minimum Controls" and to implement the long term control plan as detailed in the EPA consent order CWA 07-2007-0088.

Since the time the permit was issued, 3 of the CSO outfalls have been eliminated and only 002-Papoose Creek remains. Papoose Creek is a very large system and the city will be working on it for the remainder of the consent order.

II. EPA Consent Administrative Order:

The City signed a consent administrative order with EPA Region 7 in July, 2007 which provided a schedule for separating the remaining combined sewers in the collection system by 12-31-2024.

In a letter dated 8-30-2012, the city requested of EPA an amendment to the order to extend the final deadline by 4 years to 12-31-2028. Rational for the request was that by breaking the four original construction phases into smaller projects in smaller dollar amounts, the projects would appeal to local contractors and give the city the opportunity to continue funding projects for a few more years with the 1% local option sales tax. EPA notified the city via letter dated 10-24-2012 that they were approving the request and subsequently amended the final deadline of the order to 12-31-2028.

At this point, the order is rather open ended and has no interim "milestone" deadlines, just completing all projects to eliminate the CSO's by 12-31-2028. Progress reports are due every year on July 15. (Last year's report was submitted on time on 7-12-2013).

III. Construction Projects: Separation of combined sewers connected to the Papoose Creek tunnel is known as the "West Hill Area" separation project. The original design report called for the project to be completed in 4 phases. At the time of the last CSO inspection two years ago (6-13-2012), Phase 1 was just getting started. However, as noted above in Section II, the city is now dividing the original 4 phases into smaller projects. Phase 1 was divided into two projects. The first segment was completed in September 2013, with a final acceptance date of 12-10-2013.

The second segment (now called Phase 2) is nearly finished and is expected to be completed in Aug/Sept 2014. Mr. Thomann and I viewed the on-going construction on this project - see Section V below.

The next construction project will be the "old phase 3" which has been divided into several smaller projects called phase 3, A, B & C. The first of these (3-A) is on Chestnut, 5th and Pine Streets. The city hopes to send it out for bids in Dec. 2014/Jan. 2015. Phase 3-B will probably occur in 2016 and 3-C in 2017.

As far as spending goes:	Phase 1 (first ½ of old phase 1)	\$3,717,992
	Phase 2 (second ½ old phase 1)	\$3,686,579
	Phase 3, A,B,C **	\$5.5 million

** The projects skip from old phase 1 to old phase 3. Old phase 2 will be picked up in the future.

IV. NINE MINIMUM CONTROLS: The City continues to operate the NMC's. Many of the NMC's (like pretreatment, maximum storage, public notification, dry weather CSO's, maximum flow to the treatment plant, pollution prevention, control of solids and floatables) are "status quo" items and once established or implemented, don't change much from year to year.

1. Proper Operation and Maintenance

Muscatine's collection system consists of about 100 miles of sewer pipe and 21 lift stations. The wastewater treatment plant staff (WWTP) operate and maintain the lift stations. The Public Works Department staff operate and maintain the collection system piping.

All of the 21 lift stations, except for 2 small residential stations, are on the treatment plant SCADA system. Seven of the lift stations have stationary emergency generators and the others have a dual feed electrical system. Papoose Creek is the largest lift station and Mad Creek is the next largest.

The collection system is operated and maintained by a staff of 6, including the supervisor. The Public Works Department has 2 jet-vac trucks and sewer cameras. Cleaning lines is conducted on a 5 year rotation, doing about 20 miles per year. Certain "hot spots" and grease lines are cleaned more frequently - this consists of about 30 manholes.

Basement backups are infrequent. A tally of them is as follows:

2010 - 6
2011 - 4
2012 - 5
2013 - 3
2014 - 4 so far

The Public Works Department has extensive GIS mapping of the collection system.

2. Maximum use of collection system storage

There is not much opportunity for storage in the Muscatine system; some storage is provided in the Papoose Creek tunnel.

3. Pretreatment Requirements

The city has an approved pretreatment program. Most of the regulated industries are not intense water users. The city has a fat/oil/grease (FOG) program. The city has not had to make adjustments to its pretreatment program with regard to combined sewers.

4. Maximize flow to the WWTP

Maximum capacity at the plant is 18-20 MGD. There are no "bottle necks" in the system and SSO's out in the collection system are infrequent. There were 2 CSO events at the Papoose Creek lift station last year.

5. Elimination of dry weather CSO's

Dry weather overflows are not occurring. The last pump failure to occur at papoose Creek lift station was on 3-30-2012 when lightning knocked out the pumps. They were down for about 50 minutes and about 100,000 gallons of wastewater was bypassed.

6. Control of solid and floating materials

Solids and floating materials are for the most part captured in the wet well at the Papoose Creek lift station. This debris is removed on a routine basis.

7. Pollution prevention

The City of Muscatine conducts the various pollution prevention methods employed by many cities. These include tasks such as street sweeping, curb-side recycling, city leaf removal and storm sewer intake cleaning. Most of the storm sewer intakes are labeled or stenciled to indicate they are storm water. The city's recycling center accepts household hazardous waste and E-waste. City-wide cleanup days are conducted every spring. The recycling center gives over 100 tours per year and publishes a monthly news letter.

8. Public Notification

A warning sign is posted at Papoose Creek lift station outfall. There is a public boat ramp shortly downstream of the Papoose Creek outfall that should have a warning sign posted.

9. Monitoring to characterize CSO events

The Papoose Creek lift station is not equipped for sampling or flow measurement.

V. Inspection:

Following the meeting at Public Works, we visited the Papoose Creek lift station, the Mad Creek lift station, the inlet end of the Papoose tunnel, the Phase 2 construction site and the storm sewer outlet on Muscatine Slough.

The Papoose Creek lift station is part of the combined sewer system and receives runoff from a 1200 acre watershed. The lift station is equipped with 3 VFD pumps. They consist of 1-75 HP, 2800 GPM and 2-250 HP, 8600 GPM. These pumps are on the SCADA system and can be monitored and controlled from the WWTP. They pump into two 24" lines that eventually merge into one 30" line to the treatment plant. Normally, the smaller pump runs all the time. It was pumping 1720 GPM at the time of this inspection.

The wet well is pumped down on Tuesday mornings to remove debris. The #1, small pump was rebuilt last month. The 2 large pumps are original and their motors were replaced in 1995. The lift station has no form of alternate power.

During an intense rain event, if the pumps cannot keep up with the influent flow and the level of the wet well rises higher than the river level, the hydraulic pressure will push open the two railroad tie gates and allow flow out to the Mississippi River.

Since the last inspection, the Public Works Dept. has installed gates on the inlet end of the Papoose Creek tunnel to keep out tree limbs and other large pieces of debris. A photo (taken by city staff) is attached. We drove up to the upper end of the tunnel to observe this.

The Mad Creek lift station is the next largest lift station in the system. It serves a sanitary only part of the collection system and does not receive any water from combined sewers. The collection system in this area is mostly residential. The lift station is equipped with 4 pumps - 3 are on VFD and the other has a "soft start". Normal procedure is to run one pump; pump usage is automatically rotated among the four. Three of the pumps were replaced in 2002. The lift station has a dual feed power source.

As noted earlier, construction is in progress on "Phase 2" and will probably be finishing up later this summer. Mr. Thomann and I went out to view construction activities in the far end of the line. This is known as the "ravine fill" and runs from Locust & W. 6th St. back up to roughly 902 W. 8th St. This is a timbered ravine that had a 3'x 4' concrete box, combined sewer running down through it. The box sewer is being replaced with a 10" ductile iron sanitary sewer and a 54" concrete storm sewer running side by side. In addition, the ravine is being filled in so that the new sewers will sit about 15' above the old box sewer to provide a better grade.

It should be noted that sewer separation projects involve more than just replacing sewer lines. In most cases, the roads and side walks are torn up and have to be replaced too.

We also observed the storm sewer outfall on Muscatine Slough. This was constructed as part of the Hersey Ave. sewer separation project (which was completed before the last inspection). This is a large outfall structure with manually cleaned bar screens. The collection system staff checks it after rainfall events. Silt is cleaned out twice per year.

VI. Summary:

- * The city is nearing completion on the Phase 2 separation project.
- * The original 4 phased approach is being broken down into smaller projects.
- * The city is, for the most part, implementing the Nine Minimum Controls (see recommendations below).
- * An emergency power source is recommended for the Papoose Creek lift station.
- * It is recommended a warning sign be posted at the old boat ramp.
- * Next item due on the order is the annual report which is due soon, 07-15-2014.

J:/pbrandt/ww/musc-cso-0614-roi



Ravine Fill - green vegetation is location of old box sewer



More of the ravine fill



Upper end of ravine fill - 10" sanitary sewer pipe



Muscatine Slough storm sewer outfall