

Milwaukee County Department of Public Works
Sanitary Sewer Capacity Management, Operation & Maintenance Programs
2016 Departmental Budget Request Recommendations (Created on 4/29/15)

| Description of Work for each department to perform | Percent To Do | Est Cost per Unit | Total all Dispos. | Parks | Grounds | Airports | Zoo | H.O.C. | Transit |
|--|---------------|-------------------|-------------------------|----------|----------|----------|---------|---------|---------|
| Inspect Sanitary Sewer Manholes | | | | | | | | | |
| Total Number of Manholes | | | 1001 | | | | | | |
| Manholes by Stipulated Agreement | 25% | \$75.00 | | 482 | 221 | 157 | 87 | 34 | 20 |
| Cost to Inspect MH | | | | 121 | 55 | 39 | 22 | 9 | 5 |
| Cleaning and Televising | | | | | | | | | |
| Total Linear Feet of Sanitary Sewers | | | 199,133 | | | | | | |
| Estimated Sanitary Sewers to Televis | 10% | \$2.34 | 19,913 | 115,200 | 35,500 | 26,700 | 12,000 | 7,200 | 2,533 |
| Dye Water Testing | | | | | | | | | |
| Estimated Sanitary Sewers to Dye Test | 2% | \$1.10 | | 2,304 | 710 | 534 | 240 | 144 | 51 |
| Mobilization Setups | | \$175.00 | | 2 | 3 | 2 | 1 | 1 | 1 |
| Smoke Testing | | | | | | | | | |
| Estimated Sanitary Sewers to Smoke Test | 2% | \$0.55 | | 2,304 | 710 | 534 | 240 | 144 | 51 |
| Mobilization Setups | | \$175.00 | | 3 | 1 | 1 | 1 | 1 | 1 |
| Field Investigations (based on number of MHs inspected) | | | | | | | | | |
| Training for MH Inspectors (8 hours) | | | | | | | | | |
| Document Organization & Submittal (based on number of MHs inspected) | | | | | | | | | |
| CMOM Annual Meetings (2 @ 6 hours ea) | | | | | | | | | |
| | | | Estimated Internal Cost | \$45,215 | \$16,370 | \$12,047 | \$5,017 | \$3,265 | \$1,588 |

| Sanitary Sewer Technical Services by DTPW with cost distributed to the departments | * Total Cost | Fixed Cost | Variable Cost | Parks | Grounds | Airports | Zoo | H.O.C. | Transit |
|--|--------------|------------|------------------------------|----------|----------|----------|----------|---------|-----------|
| Percent of MHs on County owned property per Dept. | 100% | | | 48.15% | 22.08% | 15.68% | 8.69% | 3.40% | 2.00% |
| Train Departments to Perform Inspections | \$200 | 100% | | \$33 | \$33 | \$33 | \$33 | \$33 | \$33 |
| Record Drawing Search | \$1,880 | 10% | 90% | \$948 | \$405 | \$297 | \$178 | \$99 | \$65 |
| G.I.S. Mapping Updates | \$2,920 | 10% | 90% | \$1,314 | \$629 | \$461 | \$277 | \$138 | \$101 |
| Update & Maintain Inspection Database | \$4,660 | 10% | 90% | \$2,097 | \$1,004 | \$735 | \$442 | \$220 | \$161 |
| Analyze Inspection Data | \$2,630 | 10% | 90% | \$1,184 | \$566 | \$415 | \$250 | \$124 | \$91 |
| Label Inspection Photos | \$3,830 | 10% | 90% | \$1,724 | \$825 | \$604 | \$363 | \$181 | \$133 |
| Add Inspection Reports to City Works | \$2,160 | 10% | 90% | \$981 | \$470 | \$344 | \$207 | \$103 | \$76 |
| Upload, Convert to City Works, and View CCTV video | \$7,130 | 10% | 90% | \$3,209 | \$1,536 | \$1,125 | \$677 | \$337 | \$247 |
| Prepare List of Recommended Projects | \$4,630 | 10% | 90% | \$2,084 | \$997 | \$731 | \$439 | \$219 | \$160 |
| Prepare List of Recommended Inspections for Next Year | \$3,430 | 10% | 90% | \$1,544 | \$739 | \$541 | \$325 | \$162 | \$119 |
| Prepare Plans & Specs for Rehab. | \$8,220 | 10% | 90% | \$3,699 | \$1,770 | \$1,297 | \$780 | \$388 | \$285 |
| Annual CMOM Meetings with Individual Departments | \$4,480 | 100% | | \$747 | \$747 | \$747 | \$747 | \$747 | \$747 |
| Annual CMOM Committee Meetings | \$4,000 | 100% | | \$667 | \$667 | \$667 | \$667 | \$667 | \$667 |
| CMOM Implementation | \$5,680 | 10% | 90% | \$2,556 | \$1,223 | \$896 | \$539 | \$268 | \$197 |
| Update MMSD III Master Plan | \$2,330 | 100% | | \$388 | \$388 | \$388 | \$388 | \$388 | \$388 |
| MMSD III Management Annual Progress Report | \$3,340 | 25% | 75% | \$1,345 | \$692 | \$532 | \$357 | \$224 | \$189 |
| DNR Compliance Maintenance Annual Report | \$4,060 | 50% | 50% | \$1,316 | \$787 | \$657 | \$515 | \$407 | \$379 |
| | | | Estimated DTPW Cost | \$25,733 | \$13,477 | \$10,472 | \$7,184 | \$4,696 | \$4,038 |
| | | | Rounded Total Estimated Cost | \$70,900 | \$29,800 | \$22,500 | \$13,200 | \$8,000 | \$5,600 |
| | | | Grand Total all Departments | | | | | | \$150,000 |

* For total cost of each technical services task, see page 2.

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Financial Management

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|--|--|--|--|----|--|---|--|----|--|---|---|----|--|--|---|----|--|---|--|----|--|--|
| <p>1. Provider of Financial Information</p> <p>Name: <input style="width: 150px;" type="text" value="Mark Sifuentes"/></p> <p>Telephone: <input style="width: 150px;" type="text" value="(414) 278-5138"/> (XXX) XXX-XXXX</p> <p>E-Mail Address (optional): <input style="width: 300px;" type="text" value="Mark.Sifuentes@milwcnty.com"/></p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>2. Treatment Works Operating Revenues</p> <p>2.1 Are User Charges or other revenues sufficient to cover O&M expenses for your wastewater treatment plant AND/OR collection system ?</p> <p><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> No (40 points)</p> <p>If No, please explain:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>2.2 When was the User Charge System or other revenue source(s) last reviewed and/or revised?</p> <p>Year: <input style="width: 80px;" type="text"/></p> <p><input type="radio"/> 0-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input checked="" type="radio"/> N/A (private facility)</p> <p>2.3 Did you have a special account (e.g., CWFPP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?</p> <p><input checked="" type="radio"/> Yes (0 points)</p> <p><input type="radio"/> No (40 points)</p> | 0 | | | | | | | | | | | | | | | | | | | | | | | | |
| REPLACEMENT FUNDS [PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 3] | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>3. Equipment Replacement Funds</p> <p>3.1 When was the Equipment Replacement Fund last reviewed and/or revised?</p> <p>Year: <input style="width: 80px;" type="text"/></p> <p><input type="radio"/> 1-2 years ago (0 points)</p> <p><input type="radio"/> 3 or more years ago (20 points)</p> <p><input checked="" type="radio"/> N/A</p> <p>If N/A, please explain:</p> <div style="border: 1px solid black; padding: 2px;">We do not have wastewater equipment.</div> <p>3.2 Equipment Replacement Fund Activity</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">3.2.1 Ending Balance Reported on Last Year's CMAR</td> <td style="width: 5%;"></td> <td style="width: 5%; text-align: right;">\$</td> <td style="width: 30%; text-align: right;"><input style="width: 100%;" type="text" value="1.00"/></td> </tr> <tr> <td>3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.3 Adjusted January 1st Beginning Balance</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="1.00"/></td> </tr> <tr> <td>3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.)</td> <td style="text-align: center;">+</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*)</td> <td style="text-align: center;">-</td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="0.00"/></td> </tr> <tr> <td>3.2.6 Ending Balance as of December 31st for CMAR Reporting Year</td> <td></td> <td style="text-align: right;">\$</td> <td style="text-align: right;"><input style="width: 100%;" type="text" value="1.00"/></td> </tr> </table> | 3.2.1 Ending Balance Reported on Last Year's CMAR | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | 3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.) | | \$ | <input style="width: 100%;" type="text" value="0.00"/> | 3.2.3 Adjusted January 1st Beginning Balance | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | 3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.) | + | \$ | <input style="width: 100%;" type="text" value="0.00"/> | 3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) | - | \$ | <input style="width: 100%;" type="text" value="0.00"/> | 3.2.6 Ending Balance as of December 31st for CMAR Reporting Year | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | |
| 3.2.1 Ending Balance Reported on Last Year's CMAR | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | | | | | | | | | | | | | | | | | | | | | | |
| 3.2.2 Adjustments - if necessary (e.g. earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.) | | \$ | <input style="width: 100%;" type="text" value="0.00"/> | | | | | | | | | | | | | | | | | | | | | | |
| 3.2.3 Adjusted January 1st Beginning Balance | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | | | | | | | | | | | | | | | | | | | | | | |
| 3.2.4 Additions to Fund (e.g. portion of User Fee, earned interest, etc.) | + | \$ | <input style="width: 100%;" type="text" value="0.00"/> | | | | | | | | | | | | | | | | | | | | | | |
| 3.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 3.2.6.1 below*) | - | \$ | <input style="width: 100%;" type="text" value="0.00"/> | | | | | | | | | | | | | | | | | | | | | | |
| 3.2.6 Ending Balance as of December 31st for CMAR Reporting Year | | \$ | <input style="width: 100%;" type="text" value="1.00"/> | | | | | | | | | | | | | | | | | | | | | | |

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All Sources: This ending balance should include all Equipment Replacement Funds whether held in a bank account(s), certificate(s) of deposit, etc.

3.2.6.1 Indicate adjustments, equipment purchases, and/or major repairs from 3.2.5 above.

3.3 What amount should be in your Replacement Fund? \$

Please note: If you had a CFWP loan, this amount was originally based on the Financial Assistance Agreement (FAA) and should be regularly updated as needed. Further calculation instructions and an example can be found by clicking the HELP link under Info in the left-side menu.

3.3.1 Is the December 31 Ending Balance in your Replacement Fund above, (#3.2.6) equal to, or greater than the amount that should be in it (#3.3)?

- Yes
- No

If No, please explain.

4. Future Planning

4.1 During the next ten years, will you be involved in formal planning for upgrading, rehabilitating, or new construction of your treatment facility or collection system?

- Yes - If Yes, please provide major project information, if not already listed below.
- No

| Project # | Project Description | Estimated Cost | Approximate Construction Year |
|-----------|--|----------------|-------------------------------|
| 1 | Complete construction for manhole and pipe rehabilitation. Complete Management Plan, Overflow Response Plan, Communication Plan, and Audit Plan. Continue to update Cityworks and G.I.S. sanitary sewer mapping and database. | 61,031.32 | 2009 |
| 2 | Departmental work: Training for inspections, inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities. | 33,401.90 | 2009 |
| 3 | A&E work: Train departments to perform inspections, search record drawings, update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD I/I Management Annual Progress Report, Prepare WDNR Compliance Maintenance Annual Report. | 31,066.00 | 2009 |
| 4 | Countywide Sanitary Sewers: Airport, HOC, and Transit Sanitary Sewer Rehabilitation and Countywide CCTV - V009-09605 | 75,252.90 | 2010 |
| 5 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD I/I Management Annual Progress Report, Prepare WDNR Compliance Maintenance Annual Report. | 175,773.44 | 2010 |

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| | | | |
|----|---|------------|------|
| 6 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD CMOM Program Annual Report, Prepare WDNR Compliance Maintenance Annual Report. | 81,626.24 | 2011 |
| 7 | Begin CMOM Readiness Review, sanitary sewer database, and manhole inspection program. | 10,259.71 | 2005 |
| 8 | Create sanitary sewer database, inspect manhole tops, begin abandoning unused sewers, begin SSES, continue CMOM Readiness Review. | 269,444.43 | 2006 |
| 9 | Complete manhole top rehabilitation, abandon more unused manholes and pipes, complete SSES, update sanitary sewer database, complete CMOM Readiness Review, begin Strategic Plan, begin planning and design for 2008 construction projects. | 1,927,033 | 2007 |
| 10 | Planning, design and construction for manhole and pipe rehabilitation identified in SSES. Completed Strategic Plan. Began Management Plan, Overflow Response plan, Communications Plan, and Audit Plan. Incorporated Cityworks software into G.I.S. and pdated sanitary sewer mapping and database. Performed MMSD and CMAR reporting. Conducted internal CMOM meetings. Attended MMSD CMOM meetings. | 171,283.85 | 2008 |
| 11 | McGovern Park Sanitary Sewers: Constructed new sewers to serve existing buildings and abandoned old sewers including sewer under lagoon and sewer from demolished swimming pool. | 346,008.42 | 2008 |
| 12 | Parks North Sanitary Sewer Rehabilitation | 287,980.69 | 2008 |
| 13 | Parks South Sanitary Sewer Rehabilitation | 311,302.81 | 2008 |
| 14 | County Grounds/Zoo Sanitary Rehabilitation | 284,719.27 | 2009 |
| 15 | Countywide Sanitary Sewers: Airport, HOC, and Transit Sanitary Sewer Rehabilitation and Countywide CCTV - V009-09605 | 11,0048.41 | 2009 |
| 16 | 2010 Sanitary Sewers-Multiple Locations - V0090652 | 6,648.58 | 2010 |
| 17 | 2010 Sanitary Sewers-Multiple Locations - V0090652 | 123,479.22 | 2011 |
| 18 | Grant Park Sanitary Lift Station Replacement V029-13808 | 39,255.27 | 2014 |
| 19 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD CMOM Program Annual Report, Prepare WDNR Compliance Maintenance Annual Report. | 43,031.41 | 2012 |
| 20 | Countywide Sanitary Sewers: Airport, HOC, and Transit Sanitary Sewer Rehabilitation and Countywide CCTV - V009-09605 | 3,419.22 | 2011 |
| 21 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD CMOM Program Annual Report, Prepare WDNR Compliance Maintenance Annual Report. | 47,750.63 | 2014 |
| 22 | 2010 Sanitary Sewers-Multiple Locations - V0090652 | 98,619.53 | 2012 |
| 23 | Countywide Sanitary Sewers: Airport, HOC, and Transit Sanitary Sewer Rehabilitation and Countywide CCTV - V009-0605 | 6,196.92 | 2012 |
| 24 | Countywide Sanitary Sewers: Sanitary Sewer Rehabilitation and Countywide CCTV - V009-2610 | 12,234.53 | 2012 |

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| | | | |
|--|---|------------|------|
| 25 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD CMOM Program Annual Report, Prepare WDNR Compliance Maintenance Annual Report. | 42,962.00 | 2013 |
| 26 | Countywide Sanitary Sewers: Sanitary Sewer Rehabilitation and Countywide CCTV - V009-2610 | 153,088.00 | 2013 |
| 27 | Countywide Sanitary Sewers: Sanitary Sewer Rehabilitation and Countywide CCTV - V009-3801 | 918.00 | 2013 |
| 28 | Inspect 25% sanitary sewer manholes, televising, cleaning, dye water testing, smoke testing, field investigations, document organization and submittal, CMOM annual meetings and activities, continually update GIS mapping and databases, upload inspection reports and convert information to City Works, view CCTV video, search record drawings, analyze inspection data, prepare list of recommended projects, prepare list of recommended inspections for following year, annual CMOM meetings, prepare MMSD CMOM Program Annual Report, Prepare WDNR Compliance Maintenance Annual Report. | 175,000 | 2015 |
| 29 | Correct deficiencies identified during previous year's inspections. | 150,000 | 2015 |
| 30 | Countywide Sanitary Sewers: Sanitary Sewer Rehabilitation and Countywide CCTV - V009-2610 | 8,075.57 | 2014 |
| 5. Financial Management General Comments | | | |
| <input type="text"/> | | | |

| | |
|---|----------|
| Total Points Generated | 0 |
| Score (100 - Total Points Generated) | 100 |
| Section Grade | A |

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Sanitary Sewer Collection Systems

1. CMOM Program

1.1 Do you have a Capacity, Management, Operation & Maintenance (CMOM) requirement in your WPDES permit?

- Yes
- No

1.2 Did you have a documented (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance (O&M) or CMOM program last calendar year?

- Yes (Continue with question 1)
- No (30 points) (Go to question 2)

1.3 Check the elements listed below that are included in your O&M or CMOM program.

Goals

Describe the specific goals you have for your collection system:

1.) Comply with the conditions of the WPDES permit. 2.) Minimize the occurrence of preventable overflows. 3.) Ensure proper o&M is performed on County collection system assets. 4.) Improve or maintain system reliability. 5.) Reduce the potential threat to human health from sewer overflows. 6.) Provide adequate capacity to convey peak flow. 7.) Manage infiltration and inflow. 8.) Protect collection system worker health and safety. 9.) Operate a continuous CMOM program.

Organization

Do you have the following written organizational elements (check only those that apply)?

- Ownership and governing body description
- Organizational chart
- Personnel and position descriptions
- Internal communication procedures
- Public information and education program

Legal Authority

Do you have the legal authority for the following (check only those that apply)?

- Sewer use ordinance Last Revised Date (MM/DD/YYYY)
- Pretreatment/industrial control Programs
- Fat, oil and grease control
- Illicit discharges (commercial, industrial)
- Private property clear water (sump pumps, roof or foundation drains, etc.)
- Private lateral inspections/repairs
- Service and management agreements

Maintenance Activities (provide details in question 2)

Design and Performance Provisions

How do you ensure that your sewer system is designed and constructed properly?

- State plumbing code
- DNR NR 110 standards
- Local municipal code requirements
- Construction, inspection, and testing
- Others:

Overflow Emergency Response Plan:

Does your emergency response capability include (check only those that apply)?

- Alarm system and routine testing
- Emergency equipment
- Emergency procedures

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Communications/notifications (DNR, internal, public, media, etc.)

Capacity Assurance:
How well do you know your sewer system? Do you have the following?

Current and up-to-date sewer map

Sewer system plans and specifications

Manhole location map

Lift station pump and wet well capacity information

Lift station O&M manuals

Within your sewer system have you identified the following?

Areas with flat sewers

Areas with surcharging

Areas with bottlenecks or constrictions

Areas with chronic basement backups or SSOs

Areas with excess debris, solids, or grease accumulation

Areas with heavy root growth

Areas with excessive infiltration/inflow (I/I)

Sewers with severe defects that affect flow capacity

Adequacy of capacity for new connections

Lift station capacity and/or pumping problems

Annual Self-Auditing of your O&M/CMOM Program to ensure above components are being implemented, evaluated, and re-prioritized as needed

Special Studies Last Year (check only those that apply):

Infiltration/Inflow (I/I) Analysis

Sewer System Evaluation Survey (SSES)

Sewer Evaluation and Capacity Management Plan (SECAP)

Lift Station Evaluation Report

Others:

0

2. Operation and Maintenance

2.1 Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained.

| | | |
|---------------------------|-------|---------------------------|
| Cleaning | 1 | % of system/year |
| Root removal | 1 | % of system/year |
| Flow monitoring | 5 | % of system/year |
| Smoke testing | 0 | % of system/year |
| Sewer line televising | 1 | % of system/year |
| Manhole inspections | 16.15 | % of system/year |
| Lift station O&M | 7 | # per L.S./year |
| Manhole rehabilitation | 1 | % of manholes rehabbed |
| Mainline rehabilitation | 1 | % of sewer lines rehabbed |
| Private sewer inspections | 0 | % of system/year |
| Private sewer I/I removal | 0 | % of private services |

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Please include additional comments about your sanitary sewer collection system below:

3. Performance Indicators

3.1 Provide the following collection system and flow information for the past year.

| | |
|-------|--|
| 32.11 | Total actual amount of precipitation last year in inches |
| 34.76 | Annual average precipitation (for your location) |
| 42.55 | Miles of sanitary sewer |
| 32 | Number of lift stations |
| 1 | Number of lift station failures |
| 1 | Number of sewer pipe failures |
| 2 | Number of basement backup occurrences |
| 4 | Number of complaints |
| | Average daily flow in MGD (if available) |
| | Peak monthly flow in MGD (if available) |
| | Peak hourly flow in MGD (if available) |

3.2 Performance ratios for the past year:

| | |
|------|--|
| 0.03 | Lift station failures (failures/year) |
| 0.02 | Sewer pipe failures (pipe failures/sewer mile/yr) |
| 0.00 | Sanitary sewer overflows (number/sewer mile/yr) |
| 0.05 | Basement backups (number/sewer mile) |
| 0.09 | Complaints (number/sewer mile) |
| | Peaking factor ratio (Peak Monthly:Annual Daily Avg) |
| | Peaking factor ratio (Peak Hourly:Annual Daily Avg) |

4. Overflows

LIST OF SANITARY SEWER (SSO) AND TREATMENT FACILITY (TFO) OFERFLOWS REPORTED **

| Date | Location | Cause | Estimated Volume (MG) |
|---------------|----------|-------|-----------------------|
| None reported | | | |

** If there were any SSOs or TFOs that are not listed above, please contact the DNR and stop work on this section until corrected.

5. Infiltration / Inflow (I/I)

5.1 Was infiltration/inflow (I/I) significant in your community last year?

- Yes
- No

If Yes, please describe:

5.2 Has infiltration/inflow and resultant high flows affected performance or created problems in your collection system, lift stations, or treatment plant at any time in the past year?

- Yes
- No

If Yes, please describe:

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| |
|--|
| 5.3 Explain any infiltration/inflow (I/I) changes this year from previous years: <div style="border: 1px solid black; padding: 5px;">We are not aware of any changes in regards to I/I between this year and last year.</div> |
| 5.4 What is being done to address infiltration/inflow in your collection system? <div style="border: 1px solid black; padding: 5px;">Our on-going maintenance: which includes inspections, investigations and corrections will continue to improve our sewer system in regards to the elimination of infiltration and inflow.</div> |

| | |
|---|----------|
| Total Points Generated | 0 |
| Score (100 - Total Points Generated) | 100 |
| Section Grade | A |

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Grading Summary

WPDES No: 0047341

| SECTIONS | LETTER GRADE | GRADE POINTS | WEIGHTING FACTORS | SECTION POINTS |
|--------------------------------------|--------------|--------------|-------------------|----------------|
| Financial | A | 4 | 1 | 4 |
| Collection | A | 4 | 3 | 12 |
| TOTALS | | | 4 | 16 |
| GRADE POINT AVERAGE (GPA) = 4 | | | | |

Notes:

- A = Voluntary Range (Response Optional)
- B = Voluntary Range (Response Optional)
- C = Recommendation Range (Response Required)
- D = Action Range (Response Required)
- F = Action Range (Response Required)

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Resolution or Owner's Statement

| | |
|---|---|
| Name of Governing Body or Owner: | <input type="text" value="Milwaukee County"/> |
| Date of Resolution or Action Taken: | <input type="text"/> |
| Resolution Number: | <input type="text"/> |
| ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO SPECIFIC CMAR SECTIONS (Optional for grade A or B. Required for grade C, D, or F. Regardless of grade, required for Collection Systems if SSOs were reported): | |
| Financial Management: Grade = A | |
| <input type="text"/> | |
| Collection Systems: Grade = A | |
| <input type="text"/> | |
| ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE AND ANY GENERAL COMMENTS (Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) | |
| G.P.A. = 4 | |
| <input type="text"/> | |