

COMPLIANCE MAINTENANCE ANNUAL REPORT

Facility Name: Madison City

Last Updated:

Reporting Year: 2005

Financial Management

	Questions	Points
1.	Person Providing This Financial Information Name: <input type="text" value="James K. Grey"/> Telephone: <input type="text" value="608-266-9097"/> E-Mail Address (optional): <input type="text" value="jgrey@cityofmadison.com"/>	
2.	Are User Charge or other Revenues sufficient to cover O&M Expenses for your wastewater treatment plant AND/OR collection system ? <input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points) If No, please explain: <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	0
3.	When was the User Charge System or other revenue source(s) last reviewed and/or revised? Year: <input type="text" value="2006"/>	
	<input checked="" type="radio"/> 0-2 years ago (0 points) <input type="radio"/> 3 or more years ago (20 points) <input type="radio"/> Not Applicable (Private Facility)	0
4.	Did you have a special account (e.g., CWFP required segregated Replacement Fund, etc.) or financial resources available for repairing or replacing equipment for your wastewater treatment plant and/or collection system?	
	<input checked="" type="radio"/> Yes (0 points) <input type="radio"/> No (40 points)	0
REPLACEMENT FUNDS (PUBLIC MUNICIPAL FACILITIES SHALL COMPLETE QUESTION 5)		
5.	Equipment Replacement Funds	0
	5.1 When was the Equipment Replacement Fund last reviewed and/or revised? Year: <input type="text" value="2006"/>	

- 1-2 years ago (0 points)
- 3 or more years ago (20 points)
- Not Applicable Explain:

5.2 Equipment Replacement Fund Activity

5.2.1 Ending Balance Reported on Last Year's CMAR:	\$ 0.00
5.2.2 Adjustments - if necessary (e.g., earned interest, audit correction, withdrawal of excess funds, increase making up previous shortfall, etc.)	+ \$ 75,000.00
5.2.3 Adjusted January 1st Beginning Balance	\$ 75,000.00
5.2.4 Additions to Fund (e.g., portion of User Fee, earned interest, etc.)	+ \$ 0.00
5.2.5 Subtractions from Fund (e.g., equipment replacement, major repairs - use description box 5.2.5.1 below*.)	- \$ 0.00
5.2.6 Ending Balance as of December 31st for CMAR Reporting Year	\$ 75,000.00

Calculate

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

* **5.2.5.1.** Indicate adjustments, equipment purchases and/or major repairs from 5.2.5 above

5.3 What is the minimum required replacement fund balance? (If you had a CWFP loan, this balance was originally based on the Financial Assistance Agreement (FAA) and should have been updated in subsequent years.) \$ 0.01

5.3.1 Is the December 31 Ending Balance equal to or greater than the minimum required replacement fund balance (#5.3)?

- Yes
- No Explain:

No segregated replacement fund is required by City ordinance or bond covenant

6. Future Planning

6.1 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, provide major project information)
- No

Add New Project Note: To modify or delete projects, click on the project.

Project Description	Estimated Cost	Approximate Construction Year
<u>State Street Replacements: The project began in 2004 and continues through 2007. The project calls for replacement in the 300 to 600 blocks</u>	775,000.00	
<u>Hudson Park/Lake Monona-Phase 2: This project is a continuation of a project begun in 2005 to repair and/or replace an aged, leaking sewer along the Lake Monona Shoreline.</u>	250,000.00	2006
<u>Additions to collection system: Construction of assessable sewer facilities for new development, Potential projects include the Siggelkow Road Proposed Plat (design and acquisitions in 2006, construction 2007); Hawks Ridge Estates (construction 2006); future phases of the Center for Industry & Commerce Plat; South High Point Road (\$75,000); and the Elderberry Neighborhood Extension (\$375,000).</u>	820,000.00	
<u>Improvement to sewer study areas: Continuing work on I/I problems in specific areas. The major project is the sewer line relining and manhole rehabilitation in the Truax area to reduce clear water inflow and infiltration. An average of \$200,000/year is budgeted.</u>		
<u>Sewer with reconstructed streets: Replacement of older, problematic sanitary sewers in conjunction with street reconstruction projects and street resurfacing. Sewers beneath resurfaced streets are evaluated for replacement on a case-by-case basis. An average of \$4,000,000/year is budgeted</u>	24,500,000.00	
<u>Hoard area sewer replacements: This is for Phase 4. Included streets are E Johnson from North Lawn to E Washington, E Washington from E Johnson to Oak, Oak from E Washington to Hoard, and Hoard from Oak to Street End. Project to be executed in 2008 and 2010</u>	650,000.00	

<p><u>Felland area sewer ext. to Nelson Rd:</u> <u>Extension of sanitary sewer service to the North of the Felland Neighborhood and to Nelson Road. This shall provide service to the developing area North of Burke Road and both East and West of Felland. This will also relieve the Nelson Road Lift Station which is nearing capacity. Design and acquisition shall occur in 2006 with construction in 2007.</u></p>	504,500.00			
<p><u>Lower Barger Mill Creek sewer Ext:</u> <u>Extension of sanitary sewer service to the Lower Badger Mill Creek Watershed, from a proposed lift station at Mid Town Road to just North of Mineral Point Road. Preliminary plans were completed in 2005. The budget reflects Lift Station design and easement acquisitions in 2006, along with establishment of an Impact Fee District. This shall be followed by construction in 2007.</u></p>	5,850,000.00			
<p><u>Lead sewer replacement: Replacement of existing water services that were installed using lead pipe. The goal of the program is to replace all lead services within 10 years commencing in 2001. An average of \$528,015/year is budgeted until 2009</u></p>	2,112,062.00			
<p><u>E. Washington Ave. sanitary sewer replacement: Replacement of existing, aged sanitary sewer facilities in the East Washington Avenue street right-of-way and some adjoining side streets, in conjunction with a proposed major street reconstruction project, over several years. Construction will start in 2006. Subsequent phases are preliminarily identified in future years. Cost estimates shall be refined in future budgets as engineering work progresses.</u></p>	3,200,000.00			
7. Financial Management General Comments:				
<p>Annually the City adopts a Capital Budget, which funds the equipment replacement and other infrastructure improvements and lists them in a project format. Each project is reviewed and the founding amount for the current budget year is determined. In addition, the budget details annual future estimates for five additional years for each project.</p>				

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

Sanitary Sewer Collection Systems

Questions		Points
1.	Do you have a Capacity, Management, Operation & Maintenance (CMOM) requirement in your WPDES permit?	
	<input type="radio"/> Yes <input checked="" type="radio"/> No.	
2.	Did you have a <u>documented</u> (written records/files, computer files, video tapes, etc.) sanitary sewer collection system operation & maintenance or CMOM program last calendar year?	
	<input checked="" type="radio"/> Yes (go to question 3) <input type="radio"/> No. (30 points) (go to question 4)	0
3.	Check the elements listed below that are included in your Operation and Maintenance (O&M) or CMOM program.:	

	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Goals: specific identification of major goals of your O&M/CMOM program such as I/I reduction, basement backup and SSO reductions, repair and rehabilitation of sewers, system cleaning and monitoring, etc. <input checked="" type="checkbox"/> Organization: identification of those managers and persons who are responsible for implementing your O&M/CMOM program and reporting sanitary sewer overflows <input checked="" type="checkbox"/> Legal Authority: sufficient authority, through sewer use ordinances, service agreements or other legally binding documents to control infiltration/inflow sources, proper design, construction, inspection and testing of new and rehabilitated sewers and laterals and address flows from satellite collection systems, if present. <input checked="" type="checkbox"/> Maintenance Activities: routine preventative O&M activities, including adequate maintenance of facilities and equipment. By the use of: sewer system monitoring; inspections; a system to identify infiltration/inflow sources (including private property); a system for replacement part inventories; control of fat, oil & grease; employee training program; and a management system for the collection and use of information to establish O&M priorities <input checked="" type="checkbox"/> Design and Performance Standards: establish requirements and standards for design, installation and inspection of new sewers, service laterals, pump stations and sewer rehabilitation projects. <input checked="" type="checkbox"/> Overflow Emergency Response Plan: documented procedures for responding to SSOs, power outages, lift station failures sewer blockages or any other similar events of an emergency nature. <input type="checkbox"/> Capacity Assurance: a program to assess the current capacity of the collection system to identify problems or bottlenecks ; and if required, a System Evaluation and Capacity Assurance Plan (SECAP). <input checked="" type="checkbox"/> Annual Self-Auditing of your O&M/CMOM Program to ensure above components are being implemented, evaluated, and re-prioritized as needed. <input checked="" type="checkbox"/> Special Studies (if applicable): any special studies undertaken such as I/I Analysis, Sewer System Evaluation Surveys (SSES), I or sewer pipe studies. Please list the study reports of the last year below: 	
	<p>The City of Madison has commissioned the following I/I studies: Truax Area (2004), Midvale Boulevard and University Avenue (2003), pump stations 9, 12 and 16 basins (1999 in conjunction with MMSD), Baldwin Street and Elizabeth Street Area (1998) and Hoard Street and Kedzie Street Area (1997).</p>	

4.	<p>Did your sanitary sewer collection system maintenance program include the following maintenance activities? Complete all that apply and indicate the amount maintained:</p>																																		
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Cleaning</td> <td style="width: 15%; border: 1px solid black; text-align: center;">53.07</td> <td style="width: 55%;">% of system/year</td> </tr> <tr> <td>Root Removal</td> <td style="border: 1px solid black; text-align: center;">2.25</td> <td>% of system/year</td> </tr> <tr> <td>Flow Monitoring</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>% of system/year</td> </tr> <tr> <td>Smoke Testing</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>% of system/year</td> </tr> <tr> <td>Sewer Line Televising</td> <td style="border: 1px solid black; text-align: center;">5.99</td> <td>% of system/year</td> </tr> <tr> <td>Manhole Inspections</td> <td style="border: 1px solid black; text-align: center;">1.04</td> <td>% of system/year</td> </tr> <tr> <td>Lift Station O&M</td> <td style="border: 1px solid black; text-align: center;">77</td> <td># per L.S/year</td> </tr> <tr> <td>Manhole Rehabilitation</td> <td style="border: 1px solid black; text-align: center;">0.29</td> <td>% of manholes rehabed</td> </tr> <tr> <td>Mainline Rehabilitation</td> <td style="border: 1px solid black; text-align: center;">0.35</td> <td>% of sewer lines rehabed</td> </tr> <tr> <td>Private Sewer Inspections</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>% of system/year</td> </tr> <tr> <td>Private Sewer I/I Removal</td> <td style="border: 1px solid black; text-align: center;">0</td> <td>% of private services</td> </tr> </table> <p>Please include additional comments about your sanitary sewer collection system below:</p> <p>The City of Madison has an aggressive sewer maintenance and inspection program. The City's program provides for every section of sanitary sewer main to be cleaned at least once every three (3) years. This has resulted in a significant decrease in the number of sewer back ups. The City is adding a second CCTV unit to perform internal inspections of pipes. This will enable the City to internally inspect the entire wastewater collection system once every 10 years. The City performs point repairs to address issues identified during inspection. This data is also used to identify and prioritize mains for reconstruction and lining by contractors.</p>			Cleaning	53.07	% of system/year	Root Removal	2.25	% of system/year	Flow Monitoring	0	% of system/year	Smoke Testing	0	% of system/year	Sewer Line Televising	5.99	% of system/year	Manhole Inspections	1.04	% of system/year	Lift Station O&M	77	# per L.S/year	Manhole Rehabilitation	0.29	% of manholes rehabed	Mainline Rehabilitation	0.35	% of sewer lines rehabed	Private Sewer Inspections	0	% of system/year	Private Sewer I/I Removal	0	% of private services
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5.	<p>Provide the following collection system and flow information for the past year:</p>	0																																	

Total Actual Amount of Precipitation Last Year
 Annual Average Precipitation (for your location)

Miles of Sanitary Sewer
 Number of Lift Stations
 Number of Lift Station Failures
 Number of Sewer Pipe Failures
 **Number of Sanitary Sewer Overflow (SSO) Occurrences:
(10 points per occurrence)**
 Number of Basement Backup Occurrences
 Number of Complaints
 Average Daily Flow in MGD (if available)
 Peak Monthly Flow in MGD (if available)
 Peak Hourly Flow in MGD (if available)

Calc PERFORMANCE INDICATORS
 Lift Station Failures (failures/ps/year)
 Sewer Pipe Failures (pipe failures/sewer mile/yr)
 Sanitary Sewer Overflows (number/sewer mile/yr)
 Basement Backups (number/sewer mile)
 Complaints (number/sewer mile)
 Peaking Factor Ratio (Peak Monthly:Annual Daily Avg)
 Peaking Factor Ratio (Peak Hourly:Annual Daily Avg)

6. Was infiltration/inflow (I/I) significant in your community last year?
 Yes
 No
If Yes, please describe:

7.	<p>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?</p> <p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p> <p>If Yes, please describe:</p> <div style="border: 1px solid black; height: 40px; width: 100%;"></div>	
8.	<p>Explain any infiltration/inflow (I/I) changes this year from previous years?</p> <p>The City has reconstructed aging sanitary sewers and installed more effective stormwater drainage systems. These efforts have focused on areas with I/I problems and have significantly reduced the City's I/I problem over the past 5 years.</p>	
9.	<p>What is being done to address infiltration/inflow in your collection system?</p> <p>The City uses CCTV to inspect the condition of its sanitary mains and identify areas of inflow and infiltration. The City is adding a second CCTV unit which will allow us to inspect the entire system once every 10 years. CIPP lining, and reconstruction are used to address these problems. Chimney seals are installed in manholes in low areas. We are also looking to establish an annual contract for manhole rehab to waterproof structures.</p>	

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

Compliance Maintenance Annual Report 2005

Facility Name Madison City

WPDES No. 0047341

GRADING SUMMARY				
SECTIONS	LETTER GRADE	GRADE POINTS	WEIGHTING FACTORS	SECTION POINTS
Financial Management	A	4.0	1	4
Collection Systems	A	4.0	3	12
TOTALS			4	16
GRADE POINT AVERAGE (GPA) = 4.00		4.00		

Notes:

A = Voluntary Range



B = Voluntary Range

C = Recommendation Range (Response Required)

D = Action Range (Response Required)

F = Action Range (Response Required)

Resolution or Owner's Statement

NAME OF GOVERNING BODY OR OWNER	DATE OF RESOLUTION OR ACTION TAKEN
RESOLUTION NUMBER	
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):	
Financial Management: Grade= A	
	
Collection Systems: Grade= A	
	
ACTIONS SET FORTH BY THE GOVERNING BODY OR OWNER RELATING TO THE OVERALL GRADE POINT AVERAGE	
(Optional for G.P.A. greater than or equal to 3.00, required for G.P.A. less than 3.00) G.P.A. = 4.00	