

Cheryl Laurenz-Bogue Eric H. Bogue

Respond to Faith Office

June 22, 2012

Tina Artemis Regional Hearing Clerk (8RC) U.S. EPA Region 8 1595 Wynkoop Street Denver, CO 80202-1129

Re: In Re City of Dupree, NPDES Permit No. SDG589116; Docket No. CWA-08-2011-0040 Respondent's Prehearing Information Exchange

Dear Ms. Artemis:

Enclosed please find for filing in your office the Respondent's Prehearing Information Exchange documents and a Certificate of Service on the above referenced matter. These same documents have also been sent via electronic mail to your office at artemis.tina@epa.gov.

I have served a copy of these documents and this letter upon Amy Swanson, Enforcement Attorney for the EPA by both regular mail and via electronic mail at swanson.amy@epamail.epa.gov.

Thank you in advance for your time and consideration on this matter. If you have any questions or concerns, please don't hesitate to contact me at your earliest convenience.

Sincerely,

Eric H. Bogue

EHB/ehb en:

cc:

Client

104 West 1st St.

Faith, SD 57626-0250

P.O. Box 250

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

Janu				
2012 JUN 29	AM 11: 14			

In the Matter of:)	Docket No. CWA-08-2011-0040
)	FREE TO HER BY EARLY
The City of Dupree, South Dakota)	
Dupree, South Dakota	5	
NPDES Permit No. SDG589116	j	
)	
Respondent)	

RESPONDENT'S PREHEARING INFORMATION EXCHANGE

Respondent, City of Dupree, files this RESPONDENT'S PREHEARING EXCHANGE pursuant to 40 CFR §22.19(a) and ORDER TO FILE PREHEARING INFORMATION EXCHANGE of the Presiding Officer issues January 12, 2012, and as revised by ORDER ON RESPONDENT'S MOTION TO RESCHEDULE SECOND PREHEARING CONFERENCE AND FOR EXTENSION OR STAY OF TIME FOR RESPONDENT TO FILE PREHEARING EXCHANGE.

- I. WITNESSES WHO MAY BE CALLED
- A. Raymond Lenk Mayor of Dupree City of Dupree P.O. Box 52 Dupree, SD 57623

Mr. Lenk is the current Mayor of the City of Dupree and may be called to testify regarding the Respondent's knowledge of the City's efforts to repair the alleged discharge and general compliance with the City's NPDES permit.

Sandra Lemke Former Acting Mayor City of Dupree

Ms. Lemke was the Acting Mayor of the City of Dupree and may be called to testify regarding the Respondent's knowledge of the alleged discharge, efforts to repair the discharge and general compliance with the City's NPDES permit.

Ian Pistulka Former Maintenance Manager City of Dupree

Mr. Pistulka was the Maintenance Manger for the City of Dupree during the period of the alleged overflow at issue in this matter and may be called to testify regarding the Respondent's knowledge of the alleged discharge, efforts to repair the discharge and general compliance with the City's NPDES permit.

James Veit Maintenance Manager City of Dupree

Mr. Veit was an employee of the City of Dupree's Maintenance Department during the period of the alleged overflow at issue in this matter and is the current Maintenance Manager and may be called to testify regarding the Respondent's knowledge of the alleged discharge, efforts to repair the alleged discharge and general compliance with the City's NPDES permit.

Mr. Veit may establish through testimony the basis for admitting into evidence Respondent's Exhibit 1 and 2. Chancey E. Shrake, PE Project Engineer Brosz Engineering, Inc. PO Box 23 Pierre, SD 57501

Mr. Shrake is an engineer employed by the City of Dupree an may be called to testify regarding the Respondent's efforts to repair the alleged discharge and general compliance with the City's NPDES permit.

Mr. Shrake may establish through testimony the basis for admitting into evidence Respondent's Exhibits 3 and 4.

II. RESERVATIONS

- A. Respondent reserves the right to add witnesses to rebut Complainant's case, to call as a hostile witness any witness endorsed or noticed by Complainant, to subpoena any witness who is an employee, agent, or contractor of the Complainant or is endorsed or noticed by Complainant and to cross-examine any witness examined by Complainant at any time.
- B. Respondent respectfully reserves the right to supplement this Prehearing Exchange upon adequate notice to Complainant.

III. RESPONDENT'S EXHIBIT LIST

- Municipal Vouchers and Invoices with accompanying photographs demonstrating work performed at municipal lagoon and pump house.
- South Dakota Department of Health, Public Health Laboratory wastewater testing results from period March 22, 2011 to September 20, 2011.
- Draft of Capacity, Management, Operation, and Maintenance (CMOM) report for the City of Dupree, prepared by Brosz Engineering with attachments.
- Draft CMOM Self Assessment Checklist for the CMOM (Exhibit 3 above).

Respectfully submitted this day of ________, 2012.

Eric H. Bogue
Attorney for Respondent
P.O. Box 250
Faith, SD 57626
(605) 967-2529

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 8

In the Matter of:)	Docket No. CWA-08-2011-0040
The City of Dupree, South Dakota)	
Dupree, South Dakota)	CERTIFICATE OF SERVICE
NPDES Permit No. SDG589116	ý	
)	
Respondent	í	
		and correct copies of the Respondent's ntitled matter was served upon the following by
electronic mail and by first-class mail,	postage p	re-paid:
Amy Swanson		Tina Artemis
Enforcement Attorney (8ENF-L)		Regional Hearing Clerk (8RC)
U.S. EPA Region 8		U.S. EPA Region 8

1595 Wynkoop Street

Denver, CO 80202-1129

swanson.amy@epamail.epa.gov

Eric H. Bogue

Attorney for Respondent

1595 Wynkoop Street

artemis.tina@epa.gov

Denver, CO 80202-1129

P.O. Box 250

Faith, South Dakota 57626

(605) 967-2529

City of Dupree PO Box 276 Dupree, SD 57623

Municipal Voucher

Check #

5495

Total

\$2,527.00

Amount

432.5-429 Sewer Other

2,527.00

To:

BENDER'S SEWER & DRAIN

Address:

PO BOX 362 MITCHELL, SD 57301

Date	Itemized description of materials and supplies or personal service and travel information	Quanity	Unit Price	Total
	ľ			
	A -			

I declare and affirm under the penalties of perjury that this claim has been examined by me, and to the best of my knowledge and belief, is in all things true and correct. I further certify that the above services were rendered, or that the attached invoice listed materials were received in an acceptable condition and the above claim is hereby approved by me for payment

Signed:

Finance Officer

December 6, 2011

Date

Audited and approved by City Council

Signed:

Mayor

December 6, 2011

Date



605-996-1765

Invoice

DATE	INVOICE #
11/29/2011	12225

BILL TO

City of Dupree
PO Box 276
Dupree SD 57623

P.O. NO.	TERMS	PROJECT
verb Jim	Net 10	

SERVICED	DESCRIPTION	AMOUNT
11/29/2011	Use of jetting unit to cleanout 4 obstructed drain lines at lagoon site (4 hrs) 2 men, 8 manhours Mobilization	625.00 360.00 1,542.00
The state of the same by		

Thank you for your business.

Total

\$2,527.00

City of Dupree PO Box 276 Dupree, SD 57623

Municipal Voucher

Check # 5547 Total \$2,789,49

Amount

432.5-429 Sewer Other 2,789.49 2,789.49

To:

Dakota Pump & Control

Address: PO Box 725 Watertown, SD 57201

Date	Itemized description of materials and supplies or personal service and travel information	Quanity	Unit Price	Total

I declare and affirm under the penalties of perjury that this claim has been examined by me, and to the best of my knowledge and belief, is in all things true and correct. I further certify that the above services were rendered, or that the attached invoice listed materials were received in an acceptable condition and the above claim is hereby approved by me for payment

Signed:

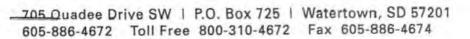
Finance Officer

Audited and approved by City Council

Signed:

Mayor

Date



F.O.B.



P.O. Number

Invoice

Project

7 Tale 4 March 1981		Date	Invoice #
www.dpc.us.com		12/20/2011	16820
Bill To	Ship To	o .	
Dupree (City of) PO Box 276 Dupree, SD 57623-0276			

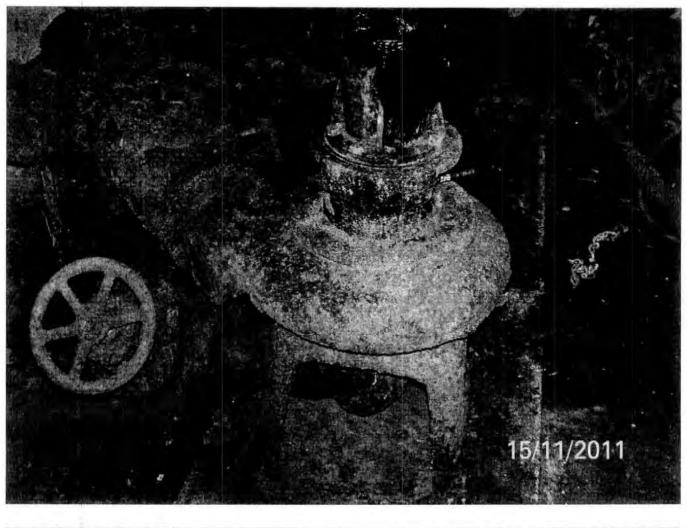
Via

Rep

Ship

Terms

						2.5	
	NET 30 Days		12/20/2011			11.	12.S.014 - Service Call
Quantity		Descr	ription		U/M	Price Each	Amount
245 245 14,25 1 2 1 2 8 16 16 1	Service call 12.14.20 new wires, installed light. Mileage Fuel Surcharge On-Site Labor/Trave Per Diem Expense, 2 30' Normally Closed 50' Normally Closed 4" Red Rubber Gask 1/2" x 3" sst bolts 5/8" x 2 1/2 sst bolts 5/8" SST nuts Misc. Electrical Sup Excise Tax (2.041% Taxes) Sales Tax	new floats a el Time 2 guys, I nig I Float Cone I Float Cone et	nd wired in the extended	erior alarm		1.0 0.5 130.0 225.0 55.0 75.0 4.0 3.12 1.562 0.37 25.0 55.7948	137.2 1,852.5 100 225.0 110.0 110.0 100 75.0 100 8.0 25 25 25.0 25 25.0 100 25.0 100 25.0
						Total	\$2,789.4





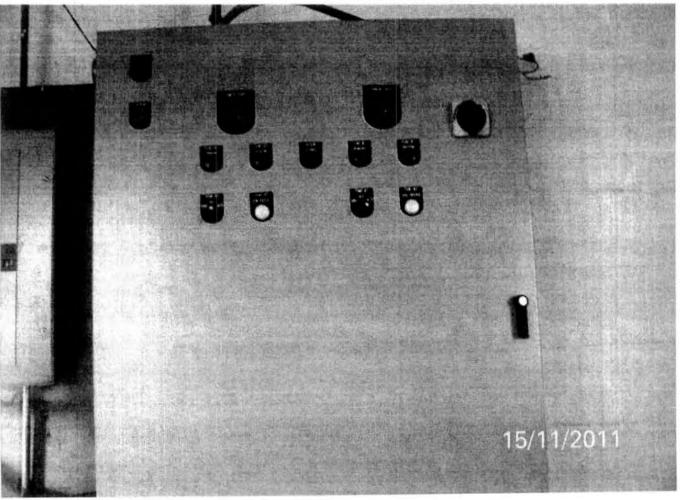


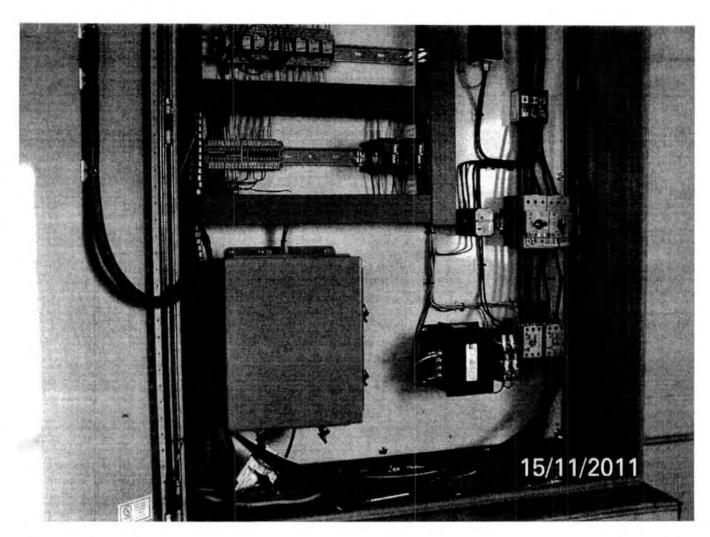




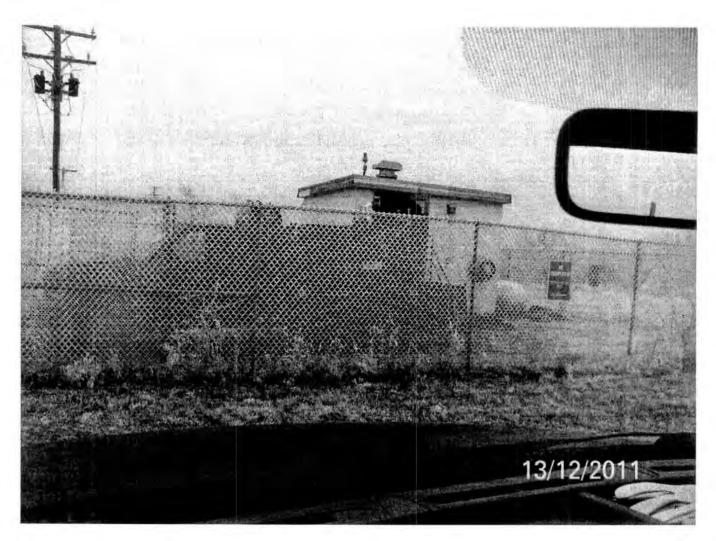




















Public Health Laboratory

615 East Fourth Street Pierre, South Dakota 57501-1700 605/773-3368 FAX: 605/773-6129 www.state.sd.us/doh/lab/index.htm

* Page 1 of 1* Submitter copy to: ** DUPLICATE REPORT ** Date: 3/22/2011

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC001053

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

Source

DUPREE EFFLUENT

Date Rcvd: 3/17/2011 Chlorin Eff?: No Time Rcvd: 0708 Discharging?: Yes Date Coll: 3/16/2011 Field pH: 6.96 Water Temp: 3.1 C Time Coll: 0915 Spec Type: WATER medium WATER

Coll By: IAN PISTULKA pH 6.96

Final Results

BOD-EPA METHOD 405.1

7 mg/L

BOD SET UP 3/17/11 1110 KG

Solids (Suspended) EPA METHOD 160.2

7 mg/L

TSS SET UP 3/17/11 KG

AMMONIA/WW

TOTAL COLIFORM - 25TUBE Total Coliform

1.16 mg/L

9400 / 100 mL



Public Health Laboratory

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* Page 1 of 1* Submitter copy to: ** DUPLICATE REPORT ** Date: 4/27/2011

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC001960

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

Source

DUPREE WWTF EFFLUENT

Date Rcvd: 4/21/2011 Time Rcvd: 0738

Date Coll: 4/20/2011

Time Coll: 0900 Spec Type: WATER

Coll By: IAN PISTULKA

Chlorin Eff?: No

Field pH: 7.5

Site Location: CELL NUMBER 4

Water Temp: 40 F medium WATER

58 mg/L

14 mg/L

pH 7.5

Final Results

BOD-EPA METHOD 405.1

BOD SET UP 4/21/11 1210 KG

Solids (Suspended) EPA METHOD 160.2

TSS SET UP 4/21/11 KG

EPA Method 150.1

AMMONIA/WW

TOTAL COLIFORM - 25TUBE Total Coliform

7.88 pH UNITS

19.7 mg/L

35000 / 100 mL



Public Health Laboratory

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* Page 1 of 1* Submitter copy to: ** DUPLICATE REPORT ** Date: 6/20/2011

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC003442

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

Source

DUPREE WWTF EFFLUENT

Date Rcvd: 6/14/2011 Discharging?: Yes Time Rcvd: 0818 Field pH: 8.6

Date Coll: 6/13/2011 Site Location: CELL NUMBER 4

Time Coll: 1030 Water Temp: 65 F Spec Type: WATER medium WATER Coll By: IAN PISTULKA pH 8.6

Chlorin Eff?: No

Final Results

BOD-EPA METHOD 405.1 13 mg/L

BOD SET UP 6/15/11 835 KG Solids (Suspended) 67 mg/L EPA METHOD 160.2

TSS SET UP 6/14/11 KG

8.87 pH UNITS EPA Method 150.1

4.76 mg/L AMMONIA/WW 24000 / 100 mL 700 / 100 mL TOTAL COLIFORM - 25TUBE Total Coliform FECAL COLIFORM - 25TUBE Fecal Coliform

Specimen Comments:

NO BOTTLE FOR OIL & GREASE TEST RECEIVED



Public Health Laboratory

615 East Fourth Street Pierre, South Dakota 57501-1700 605/773-3368 FAX: 605/773-6129 www.state.sd.us/doh/lab/index.htm

Submitter copy to:

* Page 1 of 1* ** DUPLICATE REPORT ** Date: 6/21/2011

Field pH: 9.0

Sample Type: GRAB

Water Temp: 68 F

Type of Sample: GRAB

Site Location: CELL NUMBER 4

medium WATER

pH 9.0

20 mg/L

41 mg/L

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC003609

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

DUPREE WWTF EFFLUENT

Date Rcvd: 6/16/2011

Time Rcvd: 0731

Date Coll: 6/15/2011

Time Coll: 0830 Spec Type: WATER

Coll By: IAN PISTULKA

Chlorin Eff?: No Discharging?: Yes

Final Results

BOD-EPA METHOD 405.1

BOD SET UP 6/16/11 1100 KG

Solids (Suspended)

EPA METHOD 160.2

TSS SET UP 6/16/11 KG

EPA Method 150.1

AMMONIA/WW

Phosphorus, total

TOTAL COLIFORM - 25TUBE

FECAL COLIFORM - 25TUBE

Total Coliform Fecal Coliform

8.71 pH UNITS

5.26 mg/L

1.71 mg/L

17000 / 100 mL 7900 / 100 mL

Specimen Comments:

NO BOTTLE RECEIVED FOR OIL & GREASE TEST



Public Health Laboratory

615 East Fourth Street
Pierre, South Dakota 57501-1700
605/773-3368 FAX: 605/773-6129
www.state.sd.us/doh/lab/index.htm

Submitter copy to:

* Page 1 of 1* ** DUPLICATE REPORT ** Date: 9/1/2011

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC005990

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

Source

DUPREE WWTF EFFLUENT

Date Rcvd: 8/26/2011 Time Rcvd: 0710

Date Coll: 8/25/2011

Time Coll: 1330 Spec Type: WATER

Coll By: IAN PISTULKA

Chlorin Eff?: No

Discharging?: Yes

Field pH: 8.0

Flow-gpm: 500 GPM

Site Location: CELL NUMBER 4

medium WATER

pH 8.0

Final Results

BOD-EPA METHOD 405.1

22 mg/L

BOD SET UP ON 8/26/11 1015 KD

Solids (Suspended) EPA METHOD 160.2 66 mg/L

TSS SET UP 8/26/11 KD

AMMONIA/WW

TOTAL COLIFORM - 25TUBE Total Coliform

FECAL COLIFORM - 25TUBE

Total Coliform Fecal Coliform 0.05 mg/L

54000 / 100 mL 24000 / 100 mL



Public Health Laboratory

615 East Fourth Street Pierre, South Dakota 57501-1700 605/773-3368 FAX: 605/773-6129 www.state.sd.us/doh/lab/index.htm

Submitter copy to:

* Page 1 of 1* ** DUPLICATE REPORT ** Date: 9/13/2011

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC006245

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

DUPREE WWTF EFFLUENT

Date Rcvd: 9/8/2011 Time Rcvd: 0715 Date Coll: 9/7/2011 Time Coll: 0735 Spec Type: WATER

Coll By: IAN PISTULKA

Chlorin Eff?: No Discharging?: Yes Field pH: 8.4

Flow-gpm: 500 Sample Type: GRAB Type of Sample: GRAB Water Temp: 64 F

medium WATER

pH 8.4

Final Results

BOD-EPA METHOD 405.1

28 mg/L

BOD SET UP 9/8/11 1100 KG

Solids (Suspended) EPA METHOD 160.2

92 mg/L

TSS SET UP 9/8/11 KD, KG

AMMONIA/WW

Total Coliform TOTAL COLIFORM - 25TUBE Fecal Coliform FECAL COLIFORM - 25TUBE

0.70 mg/L

>160000 / 100 mL 54000 / 100 mL



Public Health Laboratory

615 East Fourth Street Pierre, South Dakota 57501-1700 605/773-3368 FAX: 605/773-6129 www.state.sd.us/doh/lab/index.htm

* Page 1 of 1* Submitter copy to: ** DUPLICATE REPORT ** Date: 9/20/2011

Field pH: 8.9

Water Temp: 63 F

Site Location: CELL NUMBER 4

medium WATER

pH 8.9

34 mg/L

98 mg/L

Sample Type: GRAB

Type of Sample: GRAB

DUPREE, CITY OF-0110 PO BOX 276 DUPREE, SD 57623-0276

Spec #: E11EC006568

Subm #:

Lab: ENV CHEMISTRY Tel #: (605)773-3368

DUPREE WWTF EFFLUENT

Date Rcvd: 9/15/2011

Time Rcvd: 0727

Date Coll: 9/14/2011

Time Coll: 0800 Spec Type: WATER

Coll By: IAN PISTULKA

Chlorin Eff?: No Discharging?: Yes

Final Results

BOD-EPA METHOD 405.1

BOD SET UP 9/15/11 945 KG

Solids (Suspended)

EPA METHOD 160.2

TSS SET UP 9/15/11 KG

AMMONIA/WW

TOTAL COLIFORM - 25TUBE FECAL COLIFORM - 25TUBE

Total Coliform Fecal Coliform

0.14 mg/L

>160000 / 100 mL 160000 / 100 mL

Final Report

Capacity, Management, Operation, and Maintenance (CMOM)

Prepared for City of Dupree, SD

February 2012



CITY OF DUPREE CAPACITY, MANAGEMENT, OPERATION, AND MAINTENANCE PROGRAM (CMOM)

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CITY OF DUPREE CAPACITY, MANAGEMENT, OPERATION, AND MAINTENANCE PROGRAM (CMOM)

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INTRODUCTION

This document constitutes the Capacity, Management, Operation & Maintenance (CMOM) Program for the City of Dupree Wastewater System. The format of the CMOM Program follows the outline of the Environmental Protection Agency's Proposed Rule to Protect Communities from Overflowing Sewers, Paragraph 122.42 (2), Components of CMOM Program, dated January 2001.

1.1 PURPOSE

The City of Dupree operates its own wastewater infrastructure facilities, and services customers within the City limits. A sanitary sewer overflow (SSO) in the spring 2011 has caused concern over the procedures that are currently in place to mitigate and eliminate these possible occurrences. The community of Dupree has authorized Brosz Engineering, Inc. (BEI), to prepare a document, which will provide a basis for establishing a proactive quality control program of the current wastewater system.

Implementation of this program will provide for an adequate and dependable wastewater system for existing and future customers. It will also serve as a tool in order for the City to make effective decisions.

1.2 GOALS

The City of Dupree operates and maintains approximately 15,000 linear feet of sanitary sewer and one wastewater lift station. Continuing growth, urbanization, changing hydrologic conditions, and age contribute to strain on this infrastructure. In addition, new regulations have imposed additional issues and constraints. The purpose of this document is to detail a formal Capacity, Management, Operations and Maintenance (CMOM) Program.

The Program's goals are:

- Properly manage, operate and maintain, at all times, all parts of the collection system.
- Install a routine preventive maintenance schedule for lift stations, manholes, and main line sewer to prolong the design life of the collection system and to ensure all components are adequate for their intended uses.
- Take all feasible steps to stop, and mitigate the impact of, sanitary sewer overflows for all parts of the collection system.
- Provide notification to parties with a reasonable potential for exposure to pollutants associated with an overflow event.

1.3 ACKNOWLEDGEMENTS

Brosz Engineering wishes to acknowledge and thank Ray Lenk, Jim Viet, and Jessica Donovan for their assistance and cooperation. Their cooperation and courtesy in obtaining a variety of necessary information was extremely valuable in completing and producing this report.

ADMINISTRATIVE AND MAINTENANCE FUNCTIONS

This chapter presents introductory information regarding the community of Dupree, future population estimates, and all necessary environmental review information required to complete funding considerations by SD DENR and any other applicable funding agencies.

2.1 CITY OF DUPREE ORGANIZATION

The City of Dupree has one full time employee (Jim Viet) on staff to operate and maintain all of the city's water and sewer services. This individual is responsible for water distribution, as well as, wastewater collection and treatment.

2.1.1 OPERATIONS AND MAINTENANCE

All water and sewer related Operations and Maintenance (O&M) activities are performed by the full time employee. Responsibilities related to the sanitary sewer system include response to emergencies such as a sanitary sewer overflow (SSO), response to customer calls; sewer line preventive maintenance; location of underground utilities; identification of system inadequacies; and other related functions. The staff performs maintenance work on both collection and service lines and tap installation.

2.1.2 ENGINEERING

Engineering for wastewater treatment and collection is performed by Brosz Engineering, Inc., Pierre, SD. Brosz is employed, on an as needed basis, to determine that Dupree's water and wastewater infrastructure is sufficient and appropriate to meet the needs of its customer base. Prior wastewater engineering services that have been performed in the last 30 years include:

- Design and construction inspection of smaller lift station (1978).
- Design and construction inspection of main lift station (1986).

2.1.3 BUSINESS SERVICES

The Finance Officer (Jessica Donovan) supports the collection system effort directly through accounting, billing, and customer service duties. Approximately one fourth the efforts of this section support directly the collection system effort.

Additionally, the activities of this Division include the following: 1. Financial planning; 2. Water and sewer rate development; 3. Revenue forecasts and collection; 4. Customer billing; 5. Customer service; 6. Personnel coordination; 7. Customer interaction, and; 8. Accounting.

2.2 SANITARY SEWER OVERFLOW REPORTING REQUIREMENTS

The Sanitary Sewer Overflow Reporting Procedures are designed to comply with the reporting requirements set forth in the South Dakota Surface Water Discharge Permit.

The city is alerted to potential sanitary sewer overflows through telephone calls originating from customers, regulatory agencies, and employees. These calls or notifications are immediately transferred to one of the full time employees in order to assess, control, and remediate the overflow.

All potential sanitary sewer overflows are reported to the full time city employee.

The city maintains an emergency contact list for these types of situations in order to contact all necessary groups and individuals. The standard operating procedures for responses to sanitary sewer overflows are presented later in this document.

CURRENT AND FUTURE MEASURES AND ACTIVITIES

3.1 COLLECTION SYSTEM DESCRIPTION

The city of Dupree wastewater collection system has more than 240 service connection. There are approximately 215 residential connections and 25 commercial connections to the system. It is the responsibility of the city to maintain more than 2.85 miles of sewer lines to serve these customers. Within this large amount of mainline sewer, 85 percent of the mainline piping is made from vitrified clay and the other 15 percent is PVC pipe. Almost the entire mainline sewer within the city of Dupree is between 8 and 10 inches in diameter.

The entire collection system flows into a main lift station on the north part of town. The main lift station is located approximately 100 feet from Bear Creek. This lift station forces wastewater approximately 1.5 miles into the primary cell of the wastewater treatment lagoons.

Within the collection system there are 44 manholes which are either clay brick or precast concrete. All manholes are in varying degrees of condition.

3.2 MAINTENANCE FACILITIES AND EQUIPMENT

All repairs and routine maintenance is performed out of the central shop facility to support all of the public works facilities. All activities are conducted in the central maintenance shop, which houses all equipment, materials, and supplies.

The single lift station is inspected on a daily basis in order to keep it in good working order. Equipment that is readily available and used by the city for routine and emergency repairs include:

- 1 Front End Loader.
- 1 Front End Loader with Backhoe attachment.
- 1 Hydro-Jetter.

Various coupling and pipe sizes are also kept in inventory in case of emergency repairs.

3.3 COLLECTION SYSTEM MAPS

The city of Dupree is in the process of updating the map of the collection system. All lift stations, manholes and main line sewer are documented on this map. The map will be updated regularly to reflect accurate representation of the collection system. This system of record keeping will enable easy and effective updating of the collection system for the city.

3.4 ROUTINE PREVENTIVE OPERATION AND MAINTENANCE

It has been recognized that the city of Dupree needs to implement a routine preventive operation and maintenance schedule. The city already has some routine operation and maintenance procedures in place, however, a detailed plan has not been implemented. This will provide the city with many benefits such as: 1. Advanced awareness of any problems within the collection system; 2. Reduced occurrences of sanitary sewer overflows, and; 3. Increased life of collection system and lift stations.

3.4.1 COLLECTION SYSTEM

Prior maintenance and inspection of the sewer system in Dupree has been previously accomplished on an as-needed basis.

Due to the age and type of material of the collection system, it is imperative that a routine schedule of inspection be implemented in order to circumvent any potential problems that may have occurred due to not inspecting the system on a routine basis.

South Dakota Rural Water Association or a commercial sewer line inspection contractor will be contacted on a yearly basis to conduct TV camera inspection of the collection system. A percentage (10% - 20%) of the collection system will be inspected each year. Previous inspections and current conditions show that TV inspection of the entire system is not required every year.

Emphasis of rehabilitation and replacement will be placed on areas where roots, debris deposition, grease, or other discontinuities within the pipeline restrict design flow conditions with the potential for causing wastewater overflows and spills. In addition, frequent inspections of areas where extraneous flows are thought to be entering the system, primarily along creeks or in other low-lying areas, will be performed. Manholes in critical areas will be inspected more frequently.

3.4.2 INFILTRATION / INFLOW CONTROL

It is currently undetermined if Infiltration and Inflow contribute any significant flow to the collection or treatment systems. Due to the age of the collection system and the type of pipe material (vitrified clay), routine inspection is needed to ensure adequate capacity is maintained and that the integrity of the pipe is not compromised.

Yearly TV camera inspection of the collection system will acknowledge any I/I problems within the system. In addition to TV camera inspection, smoke testing will be performed on a section of the system each year (10% - 20%). These two routine inspections techniques will lead to the repair of virtually all traditional inflow sources within the public portion of the sewer system. Sources associated with individual private residences have generally not been addressed, nor have private sewer lines within apartment complexes, commercial developments, or industrial areas.

3.4.3 LIFT STATIONS

The sole wastewater lift station is the main lift station for the city. This lift station collects all of the flow from the city and transfers it to the treatment system, which is located

approximately 1.5 miles to the Northeast. This lift station is a duplex wet well / dry well system. Each pump has a rated capacity of 400 gallons per minute.

The station has a secondary power source with automatic transfer of power within less than one minute of primary source failure.

Lift station maintenance histories have not been fully maintained. Accurate maintenance records will aid in the development of an appropriate preventive maintenance program and provide data for station evaluation. Weekly, monthly, semi-annual, and annual maintenance activities will be scheduled and tracked by the full time employees.

Monitoring of the lift station is currently done via manual inspection only to verify that the current lift station is in proper working condition.

3.4.4 HYDRAULIC CLEANING / TELEVISION INSPECTION

Television inspection and pipeline hydraulic cleaning has been performed previously on an as-needed basis. As outlined in section 3.4.1, a routine maintenance schedule will be implemented to detect areas where deposition issues are chronic or where flow problems are occurring. Hydraulic cleaning will then be used to eliminate these issues.

3.4.5 ROOT CONTROL

The intrusion of roots into sewer lines, particularly collector sewers in established subdivisions, has not been a concern of the city. However, extensive root intrusion, if allowed to continue without attention, can result in reduced system capacity and, ultimately, blockage of the pipe. Problems associated with root intrusion are sometimes exacerbated by the presence of grease in the flow stream, which tends to attach to any roots present and cause more rapid impact on flow conditions.

Therefore, a routine maintenance schedule which includes TV camera inspection of the system will identify any root control problem areas. After these areas are identified, a commercial contractor will be used to eliminate root control problems.

3.4.6 COLLECTION SYSTEM AND TREATMENT FACILITIES CAPACITY

Capacity requirements for both the wastewater collection and wastewater treatment systems serving the city of Dupree are adequate in meeting average, as well as peak design flows.

TV camera inspection, as well as smoke testing will prolong this adequacy by eliminating significant intrusion of additional water, identifying areas with obstructions, corrosion problems, and potential failure possibilities.

3.4.7 REHABILITATION IDENTIFICATION AND PRIORITIZATION

Areas inspected by TV camera and smoke testing will be coded as either satisfactory, marginal, or needs replacement or rehabilitation. Areas identified by the city of Dupree for sewer rehabilitation will be listed and prioritized. These rehabilitation projects will then be scheduled into the city of Dupree Capital Improvements Plan (CIP) and budgeted.

accordingly. Due to the small revenue generated from sewer service, it will be imperative to detect problem areas as early as possible, in order to budget for any larger than average replacement or rehabilitation projects.

3.4.8 TRAINING

The city of Dupree uses the formal technical training program offered by South Dakota Rural Water Association and the South Dakota Department of Environment and Natural Resources. These training classes have been beneficial to the full time staff and will continue to be utilized on a regular basis.

In addition, the city of Dupree encourages technical competence in the form of water and wastewater certifications. The city recognizes staff members who become certified.

3.4.9 REPLACEMENT PARTS

The city of Dupree maintains the necessary replacement and spare parts inventory that is critical for lift station operation. All other parts are readily available and ordered on an as needed basis from Dakota Pump and Controls, located in Watertown, SD.

MONITORING, MEASUREMENT & PROGRAM MODIFICATIONS

This chapter proposes improvement alternatives to the water storage and distribution facilities. These improvements will be evaluated based on the system's technical requirements, cost effectiveness, and operational reliability. In addition, cost estimating and life cycle analysis are presented herein.

4.1 PROGRAM IMPLEMENTATION AND EFFECTIVENESS

A summary of the anticipated functionality of the system is provided below:

- · Inventory capability for all water, sewer, and treatment facility assets.
- · Reporting and archiving of inspection results.
- Convenient accesses to historical information such as plugged lines and overflows.
- · Preventive maintenance scheduling.

City staff is alerted to corrective maintenance responses through telephone calls originating from customers, regulatory agencies, and others. Calls are received and passed along to the Superintendent. The one full time employee is on call 24 hours per day.

4.2 DEVELOPMENT OF PREVENTIVE MAINTENANCE SCHEDULES

The city wastewater staff regularly conducts inspections of the lift stations on a daily basis. Manholes and the collection system has previously been inspected on an as needed basis. In order to provide for a successful CMOM program, it is necessary to develop preventive maintenance schedules which will accomplish the objectives set forth in this document.

Inspection forms will be developed which will be similar to the forms attached at the end of this document. From these inspection forms, the wastewater staff and Finance Officer will develop preventive maintenance schedules for the main line sewer, manholes, and lift stations. Once these schedules have been developed, they will become an integral part of the CMOM program. All inspection forms and preventive maintenance schedules once finalized, will be attached to the end of this document for reference. If any revisions are made to the forms or schedules, the newest revision of said document will be inserted into this document and the old document will be taken out.

OVERFLOW EMERGENCY RESPONSE PLAN

This chapter establishes protocol for the responses to emergency overflows. Formal recommendations are made based upon system requirements and operational reliability.

5.1 AWARENESS

Emergency contact lists are located in the maintenance shop and finance office. These lists show whom to contact in case of an emergency situation. The full time employee is available to handle any emergency repairs after regular business hours, on weekends, or on holidays.

5.2 RESPONSE

When a wastewater spill has been identified that could be a potential hazard to the environment, standard procedures will be followed as detailed in the NDPES permit, issued to the City of Dupree.

Notification to state government is made within 24 hours of the initial overflow and any individuals in the immediate area are contacted immediately after discovering the overflow. Samples will be taken, whenever possible, in accordance with the Surface Water Discharge Permit.

5.3 OFFICIAL NOTIFICATION

To comply with the NDPES Surface Water Discharge Permit, spills of raw wastewater, whether they originate from a manhole, a broken line, or through a designated bypass, are reported to both Region 8 EPA in Denver and also the CRST Environmental Program Office. Notification of a spill is made at the time of discovery, but no later than 24 hours after the initial discovery of the spill. All sewer backup calls are immediately assessed to determine if there is a related spill.

All SSO events require direct notification to both aforementioned parties whether or not they reach a watercourse.

5.4 TRAINING

All city employees have been trained as to the required overflow emergency response plan. This emergency response plan has not been documented in the past. The series of steps to respond to a sanitary sewer overflow will be documented and become a part of this document for future reference.

5.5 EMERGENCY OPERATIONS

On occasion during emergency events, it is necessary to have repairs performed by approved contractors through an accelerated procurement process using previously

negotiated Unit Price Contracts. City personnel recognize the priority placed on the correction of sewer overflows and respond accordingly.

SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

6.1 HYDRAULIC EVALUATION AND CAPACITY ENHANCEMENT MEASURES

The city of Dupree has not previously maintained a long-range hydraulic evaluation and capacity enhancement measures plan, including a 5-year Capital Improvement Plan (CIP), for all collection system improvements. The long-range plan includes the upgrade of existing lines, the installation of new lines, and the installation of lift stations. The Capital Improvement Plan, when available will be presented in this document for future reference.

6.2 PLAN UPDATES

The City of Dupree through an annual budget process provides funding for operation, maintenance, and upgrade of the sanitary sewer system from system revenues. The approved FY 2012 Operating (non-personnel) Budget for System Maintenance is \$X.XX. If revenue is left over from the previous year, it is put into an emergency use fund. Currently, the city of Dupree has accumulated \$8,000 towards any emergency repair or maintenance activities that cost more than the annual revenue for the city.

6.3 APPENDICES

Appendices are included on the following pages. Appendices 7.4 through 7.6 are in development and will be attached to the end of this document upon completion of those forms.

MANHOLE INSPECTION REPORT

				INSPECTOR
MH No.	DEPTH	TO INVERT		CLEANLINESS
TYPE CONSTRUCTION		STREE	T REFERENCES	
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B-7-	3:17			11 11
	YI'			11 11
	71			
	D 7		5	
DEFECTS: (Cover, frame, grou	t stone sh	olf nines	or channels!	
(cover, Trane, grou	it, steps, sile	err, hihes,	or chamers,	
				*
				APP CONTRACTOR
•				
PIPE SIZE LENG	TH TO MH		TYPE FLOW	
PIPE SIZE LENG		EST. FLOW		
PIPE SIZE LENG		EST. FLOW		
PIPE SIZE LENG		EST. FLOW	_	
PIPE SIZE LENG	==	EST. FLOW	_	
PIPE SIZE LENG	==	EST. FLOW	_	
PIPE SIZE LENG	==	EST. FLOW	_	
PIPE SIZE LENG	==	EST. FLOW	_	
PIPE SIZE LENG	==	EST. FLOW	_	

Optimizing Operation, Maintenance, and Rehabilitation of Sanitary Sewer Collection Systems Manhole Inspection Report - Blank Form 10/21/2003 8:47:19 AM Inspection Date: Section Number: Station Number: Interceptor Name: City/Town: SAMS Number: Address: Inspector: Weather: H2S: Gas Meter Readings: MWRA: MET: Other: Manbole Diameter: Manhole Cover Buried: Manhole Cover Conditio Frame and Cover Status: OK: Replace Manhole Type: Manbole Interior Construction Brick: Concrete: Manhole Interior Rungs: Excellent: Root Intrusion (y/n) Grit: Medium: Infiltration into Manhole: DA-1: Manhole Depth: Manhole Access: Police Detail Required (y/n): Connections Entering Manhole: Diameter: Connection Number: Type: Comments:

Appendix F: Inspection Forms

ALEWIFE BROOK STATION

ROVING CREW FACILITY CHECK LIST

DAILY DATE / /

EQUIPMENT DESCRIPTION TASK DESCRIPTION	TIME IN OUT	EMPLOYEE/COMMENTS
PARAMETER SECURITY CHECK	Time in	EMPLOTECIOMMENTS
TOTAL FLOW (10 DIGITS)		
TOTAL LOT (TO DIGITO)	+	
CHART CHANGED	YES / NO ·	
PUMP SEQUENCE	_	
PUMP #1 HOURS		
PUMP #2 HOURS	1	
PUMP #3 HOURS		- St
PUMP #4 HOURS		
UR COMPRESSOR BLOW DOWN	YES / NO	
NNUNCIATOR PANEL CHECKED . NOTIFY NUT ISLAND BEFORE TESTING		
GAS DETECTOR ALARM STATUS		
SCREEN ROOM VISUAL CHECK		
CREEN ACCESS DOORS MUST BE CLOSED DURING OPERATIONS	YES / NO	
CREEN #1	ON / OFF	
CREEN #2	ON / OFF	
RINDER CHUTES CLEAR	YES I NO	
IR EXHAUST FILTER CLEAR	YES I NO	
PUMP ROOM VISUAL CHECK		
1 ELECTRIC READING 2 ELECTRIC READING		
ULTIPLY 8Y <u>320</u>		
ATER READING		
UMP PUMP EMPTY -	YES / NO	-
JMP 1 - 4 PACKING GLAND RAINING PROPERLY	YES / NO	
GENERATOR ROOM		
UEL READING		
REORDER AT 800 OURS ON GENERATOR		
CURITY SYSTEM RE-ACTIVATED		
ERATOR		
EA SUPERVISOR		
NAGER .	H (#	100

Pump Station Standard Operation Inspection

Inspection Tasks:

Daily: Requires one operator. Approx /5 min.

Ensure proper daily operation

Weekly: Requires one operator. Approx. 45 min.

1) Ck. hyd. unit and lines for leaks.

2) Ck. sump pump operation, test alarm float.

3) Ck. HVAC operation in screen room.

4) Inspect screen room, clean-up as needed.

5) Ck. flow and level meter operation.

6) General housekeeping.

7) Ck. pumps and motors for noise or vibration.

8) Ck. alarm page, record data and pursue corrections.

10) Ck. heaters (cold weather).

11) Ck. exhaust fans (warm weather).

12) Visually inspect wet well for debris or excessive grease. Clean as needed.

Monthly: Requires one operator. Approx. 4 hrs.

1) Change lead/lag sequence.

2) Exercise and inspect pumps 2 and 4, on a rotating basis.

Bi-annually: Requires 2 operators. Approx. 2 hrs.

1) Pump down wet well, inspect for grit.

Main Line Sewer TV Camera Inspection Sheet

Dat	son for te		<i>Start</i> me:_AM	/PM	Street		-
. Dat		·					
Ser	vice#		Work order	c#	video	#	
MH	#	то	MH#	*	*		
Ope			Depth of m	ain	Weath	ner conditi	on_
Man	hole cond	lition	Type of mar	nhôle Brick	/Perform	Pipe si	ze
	1					4	
Ston	m / Sanit	ary / combi	nation	<u></u>		Pipe mat	erial
t	1		Com	ment	W.		9
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Exhibit 4

General Information

HECKLIST COM			Date			
Name			_			
Daytime Telephone N	umber					
TILITY CONTACT	TINFORMATION				- M.	- MF
Utility Name						
LOCATION		STAFF			45.61	W. W.
		Name	TIS IN	PL T		
Street Address		Title	Lobo		THE S	
Street Address (contin	nued)	Email			17	
		Eman				
A STATE OF THE		- (- Vista		1000	17 (1)
City S	tate Zip	Phone ()	Fax ()	0 0 10
HIVE BUILD	tate Zip))	
HIVE BUILD		ITES) -		MIT COV Collection System	ERAGE Wet-Weather Facility
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	is .	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	is	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	is	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	is	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	IS	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	IS	PER	Collection	Wet-Weathe
ERMITTED TREA	ATMENT & COLLECTION FACILII	ITES	IS	PER	Collection	Wet-Weathe

Collection System Description

	# of Treatment facilities	Conveyance & Pumping	Gravity Sewers	Force Mains	Pump Stations
Treatment Facilities	WWTP design capacity	Pipes and pumps Length/quantity	MILES	MILES	NUMBER
	Average daily flow Average dry weather fow	Age of system 0 - 25 years old	% PERCENT	% PERCENT	% NUMBER
	Mab	26 - 50 years old	% PERCENT	% PERCENT	% NUMBER
30.00	Manholes	51 - 75 years old	% PERCENT	% PERCENT	% NUMBER
Access & Maintenance	Number of air	>76 years old	%	% PERCENT	% NUMBER

Service area	Number of Service Connections
ACRES	Residential Commercial Industrial TOTAI
Service population	NUMBER + NUMBER + NUMBER = NUMBER
Annual precipitation INCHES	
follection system service lateral responsib	bility (check one)
☐ At main line connection only	Beyond property line/clean out
☐ From main line to property line or ease	ement/cleanout
combined Sewer Systems	
What percent of sewer system is served sewage and storm water in the same pip	

Collection System Description

	Gravity Sewers	Force Mains
PIPE DIAMETER		
8 inches or less	% PERCENT	% PERCENT
9 - 18 inches	% PERCENT	% PERCENT
19 - 36 inches	% PERCENT	% PERCENT
>36 inches	% PERCENT	% PERCENT
PIPE MATERIALS		arcania wa
Prestressed concrete cylinder pipe (PCCP)	% PERCENT	% PERCENT
High density polyethylene (HDPE)	% PERCENT	% PERCENT
Reinforced concrete pipe (RCP)	% PERCENT	% PERCENT
Polyvinyl chloride (PVC)	% PERCENT	N/A PERCENT
Vitrified clay pipe (VCP)	% PERCENT	N/A PERCENT
Ductile iron	% PERCENT	% PERCENT
Non-reinforced concrete pipe	% PERCENT	% PERCENT
Asbestos cement pipe	% PERCENT	% PERCENT
Cast iron	% PERCENT	% PERCENT
Brick	% PERCENT	% PERCENT
Fiberglass	% PERCENT	% PERCENT
Other (Explain)	% PERCENT	% PERCENT

Engineering Design (ED)

ED-01	Is there a document which includes design criteria and standard construction details?	YES	NO	
ED-02	Is there a document that describes the procedures that the utility follows in construction design review?	128	NO	
ED-03	Are WWTP and O&M staff involved in the design review process?	YES	NO	
ED-04	Is there a procedure for testing and inspecting new or rehabilitated system elements both during and after the construction is completed?	V12S	20	
ED-05	Are construction sites supervised by qualified personnel (such as professional engineers or certified engineering technicians) to ascertain that the construction is taking place in accordance with the agreed upon plans and specifications?	$\lambda_{k,i}$	20	
ED-06	Are new manholes tested for inflow and infiltration?	VES	NO	
ED-07	Are new gravity sewers checked using closed circuit TV inspection?	1164	NO	
ED-08	Does the utility have documentation on private service lateral design and inspection standards?	yis	NO	
ED-09	Does the utility attempt to standardize equipment and sewer system components?	YES	No	

Satellite Communities and Sewer Use Ordinance (SUO)

SUO-01	Does the utility receive flow from satellite communities? IF NO, GO TO PAGE 6	YES	NO
SUO-02	What is the total area from satellite communities that contribute flow to the collection system? (Acres or square miles)		
SUO-03	Does the utility require satellite communities to enter into an agreement? IF NO, GO TO QUESTION SUO-06.	VES	30
SUO-04	Does the agreement include the requirements listed in the sewer use ordinance (SUO)?	YES	NO)
SUO-05	Do the agreements have a date of termination and allow for renewal under different terms?	YES	NO
SUO-06	Does the utility maintain the legal authority to control the maximum flow introduced into the collection system from satellite communities?	YES	20
SUO-07	Are standards, inspections, and approval for new connections clearly documented in a SUO?	YES	NO
SUO-08	Does the SUO require satellite communities to adopt the same industrial and commercial regulator discharge limits as the utility?	VES	NO
SUO-09	Does the SUO require satellite communities to adopt the same inspection and sampling schedules as required by the pretreatment ordinance?	VES	70
SUO-10	Does the SUO require that satellite communities or the utility to issue control permits for significant industrial users?	YES	80
SUO-11	Does the SUO contain provisions for addressing overstrength wastewater from satellite communities?	yes	NO
SUO-12	Does the SUO contain procedures for the following? (Check all that apply) Inspection standards Pretreatment requirements Building/sewer perm	nit issues	
SUO-13	Does the SUO contain general prohibitions of the following materials? (Check all that at a Fire and explosions hazards Corrosive materials Obstructive materials Oils or petroleum Material which may cause interference at the wastewater treatment		
SUO-14	Does the SUO contain procedures and enforcement actions for the following? (Check al	l that ap	ply)
	☐ Fats, oils, and grease (FOG) ☐ Storm water connections to sanitary lines (do ☐ Infiltration and inflow ☐ Defects in service laterals located on private ☐ Building structures over the sewer lines ☐ Sump pumps, air conditioner connections		s)

Organizational Structure (OC)

OC-01	Is an organizational chart available that shows the utility, including operation and maintenance staff?		YES	NO
OC- 02	Are up-to-date job descriptions available that delir for each position?	eate responsibilities and authority	YES	NO
OC-03	Are the following items discussed in the job descri	ptions? (Check all that apply)		
	☐ Nature of work to be performed	Examples of the types of work		
	☐ Minimum requirements for the position	List of licenses required for the	position	
	☐ Necessary special qualifications or certifications	Performance measures or promo	otion poter	ntial
OC-04	What percent of staff positions are currently vacan	t?		%
OC-05	On average how long do positions remain vacant?	(months)		
OC-06	What percent of utility work is contracted out?			%

Internal Communications (IC)

IC-01	Which of the following methods are used to communicate with utility staff? (Check all that apply)						
	☐ Regular meetings	☐ Bulletin boards	☐ E-mail	Other (walk	ie talkie/j	pager)	
IC-02	How often are staff mee	etings held? (e.g., Daily, We	eekly, Monthly, etc.,)			
IC-03	Are incentives offered t	o employees for performan	ce improvements?		YES	NO	
IC-04	Does the utility have an	"Employee of the Month/0	Quarter/Year" prog	ram?	YES	NO	
IC-05	How often are performa	nce reviews conducted? (e	g. Semi-annually,	Annually, etc.)	_		
IC-06	Does the utility regularly	y communicate/coordinate	with other municip	oal departments?	YES	NO	

Budgeting (BUD)

BUD-01	What is the average annual fee for residential users?	\$	
BUD-02	How often are user charges evaluated and adjusted? (e.g. annually, biannually, etc.)	_	
BUD-03	Are utility-generated funds used for non-utility programs?	VES	NO
BUD-04	Are costs for collection system operation and maintenance (O&M) separated from other utility services such as water, storm water, and treatment plants? IF NO, GO TO QUESTION BUD-07.	VES	NO
BUD-05	What is your average annual (O&M) budget?	\$	
BUD-06	What percentage of the utility's overall budget is allocated to maintenance of the collection system?		%
BUD-07	Does the utility have a Capital Improvement Plan (CIP) that provides for system repairs/replacements on a prioritized basis?	YES	NO
BUD-08	What is your average annual CIP budget?	\$	
BUD-09	What percentage of the maintenance budget is allotted to the following maintenance?		
	Predictive maintenance (tracking design, life span, and scheduled parts replacements)		%
	Preventive maintenance (identifying and fixing system weaknesses which, if left unaddressed, could lead to overflows)	_	%
	Corrective maintenance (fixing system components that are functioning but not at 100% capacity/efficiency; for example partially blocked lines)	_	%
	Emergency maintenance (reactive maintenance, overflows, equipment breakdowns)	_	%
BUD-10	Does the utility have a budgeted program for the replacement of under-capacity pipes?	YES	NO
BUD-11	Does the utility have a budgeted program for the replacement of over-capacity pipes?	YES	NO

Training (TR)

TR-01	Does the utility have a formal job knowledge, skills, and abilities (KSA) training program?			YES	NO	
TR-02	Does the training program acutility?	Does the training program address the fundamental mission, goals, and policies of the utility?				NO
TR-03	Does the utility have mandat	Does the utility have mandatory training requirements identified for key employees?				
TR-04	What percentage of employees met or exceeded their annual training goals during the past year?				_	%
TR-05	Does the utility provide train	ing in the follo	wing areas? (Checo	k all that apply)		
	☐ Safety	☐ Traff	ic control	Public relations		
	Routine line maintenance	Reco	rd keeping	SSO/Emergency	y respons	e
	Confined space entry		rical and imentation	Pump station op		
	☐ Other	☐ Pipe	repair	CCTV and trend	ch/shorin	g
		☐ Burst	ing CIPP			
TR-06	Are operator and maintenanc QUESTION TR-08	e certification p	orograms used? IF	NO, GO TO	VES	NO
TR-07	Are operator and maintenance	e certification p	orograms required?		YVS	NO.
TR-08	Is on-the-job training progres	s and performa	ance measured?		YES	NO
TR-09	Which of the following method (Check all that apply)	ods are used to	assess the effective	eness of the training?		
	□ None □ Period	dic testing	☐ Drills	☐ Demonstrations		
TR-10	What percentage of the training o	ffered by the u	tility is in the form	of the following?		
	Manufacturer training	%	În-house	classroom training	%	
	On-the-job training	%	Ind	ustry-wide training	%	

Safety (SAF)

SAF-01	Does the utility have a written safety policy	y?	YES	SO
SAF-02	How often are safety procedures reviewed and revised? (e.g. Semiannually, Annually, etc.)		YES	NO
SAF-03	Does the utility have a safety committee?		VES	NO
SAF-04	Are regular safety meetings held with the u	itility employees?	YES	NO
SAF-05	Does the utility have a safety training prog	ram?	YES	NO
SAF-06	Are records of employee safety training kept up to date?		YES	NO
SAF-07	Does the utility have written procedures for the following? (Check all that apply)			
	☐ Lockout/tagout	☐ Biological hazards in wastewater		
	☐ Material safety date sheets (MSDS)	☐ Traffic control and work site safety		
	☐ Chemical handling	☐ Electrical and mechanical systems		
	☐ Confined spaces permit program	Pneumatic and hydraulic systems safe	ety	
	☐ Trenching and excavations safety			
SAF-08	What is your agency's lost-time injury rate?	% or		hours
SAF-08 SAF-09	Are the following equipment items availab			_ hours
	Are the following equipment items availab apply)	le and in adequate supply? (Check all that		_ hours
	Are the following equipment items availab			hours
	Are the following equipment items availab apply) Rubber/disposable gloves	le and in adequate supply? (Check all that		_ hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment	le and in adequate supply? (Check all that Full body harness Protective clothing		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots Antibacterial soap and first aid kit	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment 5-minute escape breathing devices		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots Antibacterial soap and first aid kit Tripods or non-entry rescue equipment	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment 5-minute escape breathing devices Life preservers for lagoons Safety buoy at activated sludge plants Fiberglass or wooden ladders for		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots Antibacterial soap and first aid kit Tripods or non-entry rescue equipment Fire extinguishers	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment 5-minute escape breathing devices Life preservers for lagoons Safety buoy at activated sludge plants		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots Antibacterial soap and first aid kit Tripods or non-entry rescue equipment Fire extinguishers Equipment to enter manholes	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment 5-minute escape breathing devices Life preservers for lagoons Safety buoy at activated sludge plants Fiberglass or wooden ladders for		hours
	Are the following equipment items availab apply) Rubber/disposable gloves Confined space ventilation equipment Hard hats, safety glasses, rubber boots Antibacterial soap and first aid kit Tripods or non-entry rescue equipment Fire extinguishers Equipment to enter manholes Portable crane/hoist Atmospheric testing equipment and	le and in adequate supply? (Check all that Full body harness Protective clothing Traffic/public access control equipment 5-minute escape breathing devices Life preservers for lagoons Safety buoy at activated sludge plants Fiberglass or wooden ladders for electrical work Respirators and/or self contained		hours

Customer Service (CS)

CS-01	Does the utility have a customer service and pub QUESTION CS-03	lic relations pro	gram? IF 1	10 GO TO	VES	NO	
CS-02	Does the customer service program include giving formal presentations on the wastewater field to the following? (Check all that apply)						
	☐ Schools and universities ☐ Local office	cials 🗆 M	ledia	☐ Build	ing Inspec	ctor(s)	
	☐ Community gatherings ☐ Businesses	s 🗆 C	itizens	☐ Public			
CS-03	Are employees of the utility specifically trained i	n customer serv	vice?		YES	NO	
CS-04	Are there sample correspondence, Q/A's, or "scri written or oral responses to customers?	pts" to help gui	de staff thr	ough	ves	NO	
CS-05	What methods are used to notify the public of ma work? (Check all that apply)	ajor construction	n or mainte	nance			
	☐ Door hangers ☐ Newspaper ☐ Fl	liers 🗌 Sign	ns 🗆 (Other	None		
	☐ Public radio or T.V. announcements						
CS-06	Is a homeowner notified prior to construction tha	t his/her proper	ty may be	offected?	VES	N()	
CS-07	Do you provide information to residents on clean basement backups and overflows from manholes			following	71.8	NO	
CS-08	Does the utility have a customer service evaluation the community?	on program to o	btain feedb	oack from	YES	5(2	
CS-09	Do customer service records include the following	g information?	(Check all	that apply)		-	
	Personnel who received the complaint or request	☐ Name, add	ress, and tel	ephone numb	er of cust	lomer	
	☐ Nature of the complaint or request	☐ Location of	f the probler	n			
	☐ To whom the follow-up action was assigned	Date the fo	llow up acti	on was assig	ned		
	☐ Date of the complaint or request	☐ Cause of th	e problem				
	☐ Date the complaint or request was resolved ☐ Feedback to customer						
	☐ Total days to end the problem						
CS-10	Does the utility have a goal for how quickly custo calls) are resolved? IF NO, GO TO THE NEXT		s (or ermer	gency	5758	Nu	
CS-11	What percentage of customer complaints (or emetimeline goals?	ergency calls) ar	e resolved	within the		%	

Equipment and Collection System Maintenance (ESM)

ESM-01	Is a maintenance card or record kept for each the collection system? IF NO, GO TO QUEST		YES	NO
ESM-02	Do equipment maintenance records include th	e following information? (Check all that	apply)	
	☐ Maintenance recommendations	☐ Maintenance schedule		
	Instructions on conducting the specific maintenance activity	 A record of maintenance on the equipment to date 		
	Other observations on the equipment			9
ESM-03	Are dated tags used to show out-of-service eq	aipment?	VES	NO
ESM-04	Is there an established system for prioritizing	equipment maintenance needs?	VES	NO
ESM-05	What percent of repair funds are spent on eme	rgency repairs?		%
ESM-06	Are corrective repair work orders backlogged	more than six months?	YES	NO
ESM-07	Do collection system personnel coordinate wit	h state, county, and local personnel on	SES	NO

Equipment Parts Inventory (EPI)

EPI-01	Have critical spare parts been identified?	YES	NO	
EPI-02	Are adequate supplies on hand to allow for two point repairs in any part of the system?	YES	NO	
EPI-03	Is there a parts standardization policy in place?	YES	NO	
EPI-04	Does the utility have a central location for storing spare parts?	VES	90	
EPI-05	Does the utility maintain a stock of spare parts on its maintenance vehicles?	yys.	80	
EPI-06	Does the utility have a system in place to track and maintain an accurate inventory of spare parts?	VES	So	
EPI-07	For those parts which are not kept in inventory, does the utility have a readily available source or supplier?	VF3	NQ	

Management Information System (MIS)

MIS-01	Does the utility have a management information system (MIS) in place for tracking maintenance activities? (Either electronic or good paper files) IF NO, GO TO PAGE 15.			YES	NO
MIS-02	Are the MIS records maintained	Are the MIS records maintained for a period of at least three years?			NO
MIS-03	Is the MIS able to distinguish activities taken in response to an overflow event?			YES	NO
MIS-04	Are there written instructions (Check all that apply)	for managing and tracking the	following information?		
	☐ Complaint work orders	☐ Scheduled inspections	☐ Compliance/over	flow track	ing
	Scheduled work orders	☐ Sewer system inventory	☐ Equipment/tools	tracking	
	Customer service	☐ Safety incidents	Parts inventory		
	Scheduled preventive maintenance	Scheduled monitoring/ sampling			
MIS-05	Do the written instructions for apply)	tracking procedures include t	the following information?	(Check o	ıll that
	☐ Accessing data and informa	tion U	pdating the MIS		
	☐ Instructions for using the tra	acking system	eveloping and printing reports	S	
MIS-06	How often is the management	information system updated?	(Check one)		
	☐ Immediately	☐ Within one week	of the "incident"		
	☐ Monthly	As time permits			

System Mapping (MAP)

MAP-01	Are "as built" plans (record draw office and in the field?	wings) or maps available for use by fi	eld crews in the			
MAP-02	Is there a procedure for field cre update the mapping system?	ws to record changes or inaccuracies	in the maps and NO			
MAP-03	Do the maps show the date the r	nap was drafted and the date of the la	sst revision?			
MAP-04	Do the sewer line maps include	the following? (Check all that apply)				
	☐ Scale	Street names	Pipe material			
	☐ North arrow	SSOs occurrences/CSOs outfalls	Pipe diameter			
	☐ Date the map was drafted	☐ Flow monitors	 ☐ Installation date ☐ Slope ☐ Manhole rim elevation 			
	☐ Date of last revision	☐ Force mains				
	 Service area boundaries 	Pump stations				
	☐ Property lines ☐ Other landmarks (Roads, water bodies, etc.)		Manhole coordinates			
		☐ Lined sewers ☐ Main, trunk, and interceptor	Manhole invert elevation			
	 Manhole and other access points 	Easement lines and	Distance between manholes			
	Location of building laterals	unicisions				
MAP-05	Are the following sewer attribute	es recorded? (Check all that apply)				
	☐ Size ☐ Inve	rt elevation Separate/combine	ed sewer			
	☐ Shape ☐ Mate	erial Installation Date				
MAP-06	Are the following manhole attrib	outes recorded? (Check all that apply)				
	☐ Shape ☐ Depti	n 🖂 Age				
	Type (e.g., precast, cast in place	e, etc.) Material				
MAP-07		and identification method/system esta				

Internal TV Inspection (TVI)

		annual in the second se				
TVI-01	Does the utility have a stand	ardized pipeline co	ondition assessment program?		YES	NO
TVI-02	Is internal TV inspection use PAGE 17.	ed to perform cond	ition assessment? IF NO, GO TO)	YES	NO
TVI-03	Are there written operation program?	procedures and guid	delines for the internal TV inspe	ection	ves	NO)
TVI-04	Do the internal TV record lo	gs include the follo	owing? (Check all that apply)	===		
	Pipe size, type, length, and	d joint spacing	☐ Internal TV operator nar	me		
	Distance recorded by internal TV		☐ Cleanliness of the line			
	☐ Results of the internal TV inspection ☐ Location and identification of line (including a structural rating) ☐ Location and identification of line vised by manholes			ion of line	being to	ele-
TVI-05	Is a rating system used to determine the severity of the defects found during the inspection process?				VES	80
TVI-06	Is there documentation expla	ining the codes us	ed for internal TV results reporti	ng?	VES	No
TVI-07	A				_	-
1 41-07	the past 5 years were the foll		s determined by TV inspection de	uring		
1 VI-U/			Line deflection	uring %		
1 41-07	the past 5 years were the foll	owing?				
1 VI-U/	the past 5 years were the foll Failed coatings or linings	owing? %	Line deflection	%		
t vi-u/	Failed coatings or linings House connection leaks	% %	Line deflection Joint separation	%		
1 VI-U/	Failed coatings or linings House connection leaks Illegal connections	% %	Line deflection Joint separation Crushed pipes	% %		
1 VI-U/	House connection leaks Illegal connections Pipe corrosion (H ₂ S)	% %	Line deflection Joint separation Crushed pipes Collapsed pipes	% % %		
1 VI-U/	House connection leaks Illegal connections Pipe corrosion (H ₂ S) Fats, oil, and grease	% % % %	Joint separation Crushed pipes Collapsed pipes Offset joints	% % % %		

TVI-08 Are main line and lateral repairs checked by internal TV inspection after the repair(s) have been made?



Sewer Cleaning (CLN)

CLN-01	What is the system cleaning frequency? (the entire system is cleaned every "X" years)	_	
CLN-02	What is the utility's plan for system cleaning (% or frequency in years)?		
CLN-03	What percent of the sewer lines are cleaned, even high/repeat cleaning trouble spots, during the past year?		%
CLN-04	Is there a program to identify sewer line segments, with chronic problems, that should be cleaned on a more frequent schedule?	YES	NO
CLN-05	Does the utility have a root control program?	VES	3(1)
CLN-06	Does the utility have a fats, oils, and grease (FOG) program?	VES	NO
CLN-07	What is the average number of stoppages experienced per mile of sewer pipe per year?	_	%
CLN-08	Has the number of stoppages increased, decreased, or stayed the same over the past 5 years? ☐ Increased ☐ Decreased ☐ Stayed the same		
CLN-09	Are stoppages plotted on maps and correlated with other data such as pipe size and material or location?	1,63	SQ
CLN-10	Do the sewer cleaning records include the following information? (Check all that apply)		
	☐ Date and time ☐ Method of cleaning ☐ Identity of cleaning cree	ew	
	☐ Cause of stoppage ☐ Location of stoppage or rou- ☐ Further actions time cleaning activity ☐ Further actions necessary/initiated		
CLN-11	If sewer cleaning is done by a contractor are videos taken of before and after cleaning?	[vis]	NO

Manhole Inspection and Assessment (MAN)

MAN-01	Does the utility have a routine manhole inspection and assessment program? IF NO, GO TO QUESTION MAN-06. Are the results and observations from the routine manhole inspections recorded? Does the utility have a goal for the number of manholes inspected annually?		YFS	NO	
MAN-02			YES	NO	
MAN-03			VES	80	
MAN-04	How many manholes were inspected during the past y	vear?			
MAN-05	Do the records for manhole/pipe inspection include the	e following? (Check all that app	oly)		
	Conditions of the frame and cover	Presence of corrosion			
	☐ Evidence of surcharge	☐ If repair is necessary			
		is repair to necessary			
	Offsets or misalignments	☐ Manhole identifying num	ber/location	n	
	Offsets or misalignments Atmospheric hazards measurements (especially hydrogen sulfide) Details on the root cause of cracks or breaks in the	Manhole identifying num Wastewater flow characte	ristics (flov	ving	
	Offsets or misalignments Atmospheric hazards measurements (especially hydrogen sulfide)	Manhole identifying num Wastewater flow characte freely or backed up)	ristics (flow	ving grit	

MAN-06 Does the utility have a grouting program?



Pump Stations (PS)

PS-01	Are Standard Operation Procedures (SOPs) and Standard Maintenance Procedures (SMPs) used for each pump station?	YES	NO
PS-02	Are there enough trained personnel to properly maintain all pump stations?	VES	NO
PS-03	Is there an emergency operating procedure for each pump station?	YES	20
PS-04	Is there an alarm system to notify personnel of pump station failures and overflow?	VES	NO
PS-05	Percent of pump stations with back up power sources		%
PS-06	Does the utility use the following methods when loss of power ocurs? (Check all that a	pply)	
	☐ On-site electrical generators ☐ Portable electric generators ☐ Alternate power source ☐ Vacuum trucks to bypass pump station	e 🗆 O	ther
PS-07	Is there a procedure for manipulating pump operations (manually or automatically) during wet weather to increase in-line storage of wet weather flows?	VES	NO
PS-08	Are wet well operating levels set to limit pump start/stops?	¥1/8	NO
PS-09	Are the lead, lag, and backup pumps rotated regularly?	YES	NO
PS-10	Are operation logs maintained for all pump stations?	ves	NO
PS-11	Are the original manuals that contain the manufacturers recommended maintenance schedules for all pump station equipment easily available?	YES	20
PS-12	On average, how often were pump stations inspected during the past year?	yes	NO
PS-13	Are records maintained for each inspection?	VES	NO
PS-14	Average annual labor hours spent on pump station inspection		
PS-15	Percent of pump stations with pump capacity redundancy		%
PS-16	Percent of pump stations with dry weather capacity limitations		%
PS-17	Percent of pump stations with wet weather capacity limitations		%
PS-18	Percent of pump stations calibrated annually		%
PS-19	Percent of pump stations with permanent flow meters		%

Capacity Assessment (CA)

CA-01	Does the utility have a flow monitoring program?	YES	NO
CA-02	Does the utility have a comprenhensive capacity assessment and planning program?	V E.8	NΩ
CA-03	Are flows measured prior to allowing new connections?	VES	NO
CA-04	Do you have a tool (hydraulic model, spreadsheet, etc.) for assessing whether adequate capacity exists in the sewer system? IF NO, GO TO QUESTION CA-06.		
CA-05	Does your capacity assessment tool produce results consistent with conditions observed in the system?		NG
CA-06	What is the ratio of peak wet weather flow to average dry weather flow at the wastewater treatment plant?	_	
CA-07	How many permanent flow meters are currently in the system? (Include meters at pump stations and wastewater treatment plants)	_	
CA-08	How frequently are the flow meters checked? (e.g. Daily, Weekly, Monthly, etc.)		
CA-09	Do the flow meter checks include the following? (Check all that apply) ☐ Independent water level ☐ Velocity reading ☐ Downloading data ☐ Checking the desiccant ☐ Cleaning away debris ☐ Battery condition		
CA-10	Are records maintained for each inspection? IF NO, GO TO QUESTION CA-12.	res	NO
CA-11	Do the flow monitoring records include the following? (Check all that apply) Descriptive location of flow meter Frequency of flow meter inspection Type of flow meter Frequency of flow meter calibration		
CA-12	Does the utility maintain any rain gauges or have access to local rainfall data?	VES	80
CA-13	Does the utility have any wet weather capacity problems?	VES	NO
CA-14	Are low points or flood-plain areas monitored during rain events?	Yes	80
CA-15	Does the utility have any dry weather capacity problems?	YES	NO
CA-16	Is flow monitoring used for billing purposes, capacity analysis, and/or inflow and infiltration investigations?	NES.	80

Tracking SSOs (TRK)

TRK-01	How many SSO events have been reported in the past 5 years?				
TRK-02	What percent of the SSOs were less than 1,000 gallons in the past 5 years?				
TRK-03	Does the utility document and report all SSOs regardless of size?				
TRK-04	Does the utility document basement backups?				
TRK-05	Are there areas that experience frequent basement or street flooding?				
TRK-06	Approximately what percent of SSOs discharges were from each of the following in the last 5 years? Manholes	<u>%</u>			
TRK-07	Approximately what percent of SSOs discharges were caused by the following in the last 5 years? Debris buildup				
	Collapsed pipe % Capacity limitations % Fats, oil, and grease	%			
TRK-07A	What percentage of SSOs were released to: Soil Basements % Paved area Surface water (rivers/lakes/streams) % Coastal, ocean, beaches	<u>%</u> %			
TRK-07B	For surface water releases, what percent are to areas that could affect: Contact recreation (beaches, swimming, areas)	%			
TRK-08	How many chronic SSO locations are in the collection system?				
TRK-09	Are pipes with chronic SSOs being monitored for sufficient capacity and/or structural condition?	YES NO			
TRK-10	Prior to collapse, are structurally deteriorating pipelines being monitored for renewal or replacement?	YES			

Overflow Emergency Response Plan (OERP)

OERP-01	Does the utility have a documented OERP available for utility staff to use? IF NO, GO TO QUESTION OERP-04.				NO
OERP-02	How often is the OERP				
OERP-03	Are specific responsibilities detailed in the OERP for personnel who respond to emergencies?				80
OERP-04	Are staff continuously trained and drilled to respond to emergency situations?				
OERP-05	Do work crews have imm	VES	Ner		
OERP-06	Does the utility have standard procedures for notifying state agencies, local health departments, the NPDES authority, the public, and drinking water authorities of significant overflow events?				NO
OERP-07	Does the procedure include a current list of the names, titles, phone numbers, and responsibilities of all personnel involved?				No
OERP-08	Does the utility have a public notification plan?				NO
OERP-09	Does the utility have procedures to limit public access to and contact with areas affected with SSOs? (Procedure can be delegated to another authority)				500
OERP-10	Does the utility use containment techniques to protect the storm drainage systems?			YES	Sq
OERP-11	Do the overflow records	include the following infor	mation? (Check all that apply)		
	☐ Date and time	☐ Location	☐ Any remediation efforts		
	☐ Cause s) ☐ How it was stopped ☐ Estimated flow/volume discharg				
	☐ Names of affected receiving water(s) ☐ Duration of overflow				
OERP-12	Does the utility have sign	nage to keep public from et	fected area?	VES	No

Smoke and Dye Testing (SDT)

SDT-01	Does the utility have a smoke testing program to identify sources of inflow and infiltration?	YES	NO
SDT-01A	Does the utility have a smoke testing program to identify sources of inflow and infiltration in illegal connectors?	YES	NO
SDT-01B	Does the utility have a smoke testing program to identify sources of inflow and infiltration in house laterals (private service laterals)?	YES	NO
SDT-02	Are there written procedures for the frequency and schedule of smoke testing?	YES	302
SDT-03	Is there a documented procedure for isolating line segments?	VES	80
SDT-04	Is there a documented procedure for notifying local residents that smoke testing will be conducted in their area?	YES	50
SDT-05	What is the guideline for the maximum amount of the line to be tested at one time? (Feet or Miles)	_	
SDT-06	Are there guidelines for the weather conditions under which smoke testing should be conducted?	YES	Ma
SDT-07	Does the utility have a goal for the percent of the system smoke tested each year?	VES	Nu
SDT-08	What percent of the system has been smoke tested over the past year?		%
SDT-09	Do the written records contain location, address, and description of the smoking element that produced a positive result?	VES	NO
SDT-10	Does the utility have a dye testing program?	7766	80
SDT-11	Are there written procedures for dye testing?	1/1/5	10
SDT-12	Does the utility have a goal for the percent of the system dye tested each year?	VES	NO
SDT-13	What percent of the main collection system has been dye tested over the past year?		%
SDT-14	Does the utility share smoke and dye testing equipment with another utility?	VES	80

Hydrogen Sulfide Monitoring and Control (HSMC)

HSMC-01	How would you rate the systems vulnerability for hydrogen sulfide corrosion? (Check only one)						
	☐ Not a problem	Only in a few isolated areas	□Ап	najor problem			
HSCM-02	Does the utility have	a corrosion control program?			1,522	NO	
HSCM-03	Does the utility take hydrogen sulfide corrosion into consideration when designing new or replacement sewers?				VES	MO	
HSCM-04	Does the utility have	Does the utility have written procedures for the application of chemical dosages?				80	
HSCM-05	Are the chemical dosages, dates, and locations documented?			VES	NO		
HSCM-06	Does the utility document where odor is a continual problem in the system?				VES	NΩ	
HSCM-07	Does the utility have a program in place for renewing or replacing severely corroded sewer lines to prevent collapse?			YES	70		
HSCM-08	Are the following methods used for hydrogen sulfide control? (Check all that apply)						
	Aeration	☐ Chlorine		Potassium perma	nganate		
	☐ Iron salts	☐ Sodium hydroxide		Biofiltration			
	□ Enzymes	☐ Hydrogen peroxide		Other			
	☐ Activated charco	oal canisters					
HSCM-09	Does the system con	tain air relief valves at the high points o	of the force	main system?	(ES	NO	
HSCM-10	How often are the va	lves maintained and inspected? (Weekly	, Monthly,	etc.)			
HSMC-11	Does the utility enfor	ce pretreatment requirements?			VES	NO	

Infrastructure Security

Although outside the scope of a CMOM program, municipal wastewater utilities should also consider security vulnerabilities. To reduce the threat of both intentional and natural disasters, the utility should take steps to implement appropriate countermeasures and develop or update emergency response plans.