

# SANITARY SEWER SYSTEM ASSESSMENT

## GENERAL INFORMATION

CHECKLIST COMPLETED BY:  CITY STAFF  CONTRACTOR/VENDOR

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contact Information

<b>UTILITY CONTACT INFORMATION</b>	
Utility Name _____	
<b>MAILING ADDRESS</b> _____ Street Address _____ Street Address (continued) _____ City                      State      Zip	<b>CONTACT INFORMATION</b> _____ Name _____ Title _____ Email _____ Phone                      Fax

# GENERAL INFORMATION

<b>PERMITTED TREATMENT &amp; COLLECTION FACILITIES</b>				
NPDES or STATE PERMIT #	<u>PERMITTEE/ CO-PERMITTEE/JURISDICTIONS</u>	<u>CHECK WHICH UTILITIES HAVE PERMIT COVERAGE</u>		
		WWTP Effluent	Collection System	Wet-Weather Facility
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## GENERAL INFORMATION

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What class is the system or facility? **A** **B** **C** **D**

Does appropriate person(s) on city staff have proper wastewater operating license(s) as required by the Minnesota Pollution Control Agency? (*See below*) **YES** **NO**

Which type of certificate(s) does the operator(s) on city staff hold?  
(*Check all that apply*) **A** **B** **C** **D**  
     
**SA** **SB** **SC** **SD**

**Class A Certificate:** Operator must have been certified as a Class B operator for at least two years, and have a high school diploma or equivalent with at least eight years experience in the operation of a Class A or B system or facility; or a bachelor's degree in an appropriate branch of engineering or in a physical or biological science, and satisfactory evidence of at least four years of responsible experience in the operation, including at least two years as a part of the management of a Class A or B system.

**Class B Certificate:** Operator must have been certified as a Class C operator for at least one year; and have a high school diploma or equivalent with at least six years experience in the operation of a Class A, B, or C system or facility; or a bachelor's degree in an appropriate branch of engineering or in a physical or biological science, and satisfactory evidence of at least two years of responsible experience in the operation of a Class A, B, or C system.

**Class C Certificate:** Operator must have a high school diploma or equivalent with at least three years experience in the operation of a Class A, B, C, or D system or facility; or a bachelor's degree in an appropriate branch of engineering or in a physical or biological science, and satisfactory evidence of at least one year of responsible experience in the operation of a Class A, B, C, or D system.

**Class D Certificate:** Operator must have a high school diploma or equivalent, and have at least one year experience in the operation of a Class A, B, C, or D system; or satisfactorily completed a postsecondary program of courses in water or wastewater technology.

**Type S Certificate:** Operator must possess the same education and experience required for a regular wastewater certificate in the same class, except experience must have been gained in a facility or type S facility and an applicant for an S-A type certificate must have been certified as an S-B or B facility operator for at least two years; or an applicant for a type S-B certificate must have been certified as an S-C or C facility operator for at least one year.

# COLLECTION SYSTEM DESCRIPTION

## SYSTEM INVENTORY (ONLY COMPLETE IF MUNICIPAL FACILITY)

Does the utility have a treatment facility?      **YES**      **NO**  
     

If no, where does the waste go?  
 \_\_\_\_\_

<p><b>TREATMENT FACILITIES</b></p> <p><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Treatment Facilities          Number</p> <p><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> WWTP design capacity          MGD</p>	<p><b>COLLECTION FACILITIES</b></p> <p><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Average daily flow      <input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Peak flow          MGD      MGD</p> <p><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Average dry weather flow          MGD</p>
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<p><b>ACCESS &amp; MAINTENANCE</b></p> <p>Manholes      <input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/>          Number</p> <p>Air vacuum relief valves      <input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/>          Number</p>	<p><b>CONVEYANCE &amp; PUMPING</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%; text-align: center;">Gravity Sewers</th> <th style="width: 20%; text-align: center;">Force Mains</th> <th style="width: 30%; text-align: center;">Pump Stations</th> </tr> </thead> <tbody> <tr> <td><b>Pipes &amp; pumps</b> Length/quantity</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> <tr> <td><b>Age of system</b> 0-25 years old</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> <tr> <td>26-50 years old</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> <tr> <td>51-75 years old</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> <tr> <td>&gt;76 years old</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> <tr> <td></td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet</td> <td style="text-align: center;"><input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number</td> </tr> </tbody> </table> <p style="text-align: right;">Number of inverted siphons _____</p>		Gravity Sewers	Force Mains	Pump Stations	<b>Pipes &amp; pumps</b> Length/quantity	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number	<b>Age of system</b> 0-25 years old	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number	26-50 years old	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number	51-75 years old	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number	>76 years old	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number		<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Feet	<input style="width: 80px; height: 30px; border: 1px solid black;" type="text"/> Number
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# COLLECTION SYSTEM DESCRIPTION

<b>SERVICE AREA CHARACTERISTICS</b>							
Service area	<div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     Sq Miles                 </div>	<b>Number of Service Connections</b>					
Service population	<div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     People                 </div>	Residential <div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     Number                 </div>	Non-Residential <div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     Number                 </div>				
Annual precipitation	<div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     Inches                 </div>	=	TOTAL <div style="border: 1px solid black; padding: 2px; width: 80px; margin: 0 auto;"> <hr style="border: 0; border-top: 1px solid black;"/>                     Number                 </div>				
<p>At what point in the system is the utility responsible for maintenance and repair related to service laterals? (<i>check one</i>) <i>Definition:</i> The service lateral is constructed by a private owner for sewer service to a private property. The service lateral is the extension that connects a private sewer to the city sewer.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; padding: 5px;"><input type="checkbox"/> At main line connection only</td> <td style="width: 50%; padding: 5px;"><input type="checkbox"/> At the building</td> </tr> <tr> <td style="padding: 5px;"><input type="checkbox"/> At the property line or easement</td> <td style="padding: 5px;"><input type="checkbox"/> Other:</td> </tr> </table> <hr style="width: 25%; margin-left: 0;"/>				<input type="checkbox"/> At main line connection only	<input type="checkbox"/> At the building	<input type="checkbox"/> At the property line or easement	<input type="checkbox"/> Other:
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<input type="checkbox"/> At the property line or easement	<input type="checkbox"/> Other:						
<p><b>Combined Sewer Systems</b></p> <p>Is any part of the system served by combined sewers (i.e., sanitary sewage and storm water in the same pipe)?</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;"></td> <td style="text-align: center; padding: 5px;"> <b>YES</b>  <input type="checkbox"/> </td> <td style="text-align: center; padding: 5px;"> <b>NO</b>  <input type="checkbox"/> </td> </tr> </table>					<b>YES</b> <input type="checkbox"/>	<b>NO</b> <input type="checkbox"/>	
	<b>YES</b> <input type="checkbox"/>	<b>NO</b> <input type="checkbox"/>					

# COLLECTION SYSTEM DESCRIPTION

Note the number of feet of the following kinds of pipe in the city's sanitary sewer system:

PIPE DIAMETER			
GRAVITY SEWERS		FORCE MAINS	
8 inches or less	_____ Feet	2 inches or less	_____ Feet
>8 – 12 inches	_____ Feet	>2 – 4 inches	_____ Feet
>12 – 20 inches	_____ Feet	>4 – 6 inches	_____ Feet
>20 inches	_____ Feet	>6 – 8 inches	_____ Feet
		Other	_____ Feet

PIPE MATERIAL			
GRAVITY SEWERS		FORCE MAINS	
Vitrified clay pipe (VCP)	_____ Feet	Ductile Iron Pipe (DIP)	_____ Feet
Polyvinyl Chloride (PVC)	_____ Feet	Polyvinyl Chloride (PVC)	_____ Feet
High density polyethylene (HDPE)	_____ Feet	High density polyethylene (HDPE)	_____ Feet
Reinforced concrete pipe (RCP)	_____ Feet	Other ( <i>Explain</i> ) _____ _____ _____	_____ Feet
Pre-stressed concrete cylinder pipe (PCCP)	_____ Feet		
Other ( <i>Explain</i> ) _____ _____ _____	_____ Feet		

## LIFT STATIONS (LS)

LS-01 Are Standard Operating Procedures (SOPs) and Standard Maintenance Procedures (SMPs) used for each pump station? YES  NO

Components of SOPs and SMPs include:

- Easy availability of original manuals that contain the manufacturers recommended maintenance schedules for all lift station equipment
  - Operating procedures for manipulating pump operations (manually or automatically) during wet weather to increase in-line storage of wet weather flows
  - Setting wet well operating levels to limit pump start/stops
  - Cleaning wet well
  - Calibrating flow meters or conducting draw down tests
  - Regular rotation of lead, lag, and backup pumps
  - Maintenance of operation logs and general records for all lift station activities, including inspections
3. Clean force mains  
4. Identify problem areas/components

LS-02 Does the utility record the number of lift stations, their location, date of installation, and capacity of each pump station?

### ALARM SYSTEMS

Number of lift stations

Number

LS-03 What type of alarm system(s) does the lift station(s) have?  Telemetered    ■ How many? \_\_\_\_\_  
 Audiovisual only    ■ How many? \_\_\_\_\_

**NO**

**YES**

LS-04 Is the alarm system monitored 24 hours per day?

LS-05 Is there a 24 hour notification of alarms?

LS-06 Does the utility know who manufactured the alarm?

LS-07 Which of the following methods does the utility use when loss of power occurs? (*Check all that apply*)

- On-site electrical generators     Portable electric generators     Alternate power source  
 Vacuum trucks to bypass pump stations     Portable bypass pump     Other

## LIFT STATIONS (LS)

The following assessment can be used to identify the utility's lift stations and how often the alarm systems are monitored. This checklist recognizes that some communities might have a large number of grinder pumps. If this is the case, you could group the number of grinder pumps together and list their monitoring frequency as a whole (e.g. grinder pumps 1-37 are monitored quarterly).

<b>ALARM SYSTEMS (continued)</b>	
<b>Lift Station</b>	<b>MONITORING FREQUENCY</b>
Name _____ Location _____	<input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Other ( <i>explain</i> ) _____
Name _____ Location _____	<input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Other ( <i>explain</i> ) _____
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Name _____ Location _____	<input type="checkbox"/> Daily <input type="checkbox"/> Weekly <input type="checkbox"/> Other ( <i>explain</i> ) _____



## SEWER CLEANING (CLN)

- |  | <b>YES</b>               | <b>NO</b>                |
|--|--------------------------|--------------------------|
| CLN-01 Does the utility have a written schedule in place for routine inspecting/cleaning of the system?  | <input type="checkbox"/> | <input type="checkbox"/> |
| CLN-02 Does the utility have a documented inspection and cleaning program of problem areas?  | <input type="checkbox"/> | <input type="checkbox"/> |
| CLN-03 Does the utility have a documented root control program?  | <input type="checkbox"/> | <input type="checkbox"/> |
| CLN-04 Does the utility have a documented fats, oils, and grease (FOG) program? (FOG usually comes from food service or production industries, but may stem from residential homes and/or other businesses.) | <input type="checkbox"/> | <input type="checkbox"/> |
| CLN-05 Are stoppages plotted on maps and correlated with other data such as pipe size and material or location?  | <input type="checkbox"/> | <input type="checkbox"/> |
| CLN-06 Does the city televise private lines?   | <input type="checkbox"/> | <input type="checkbox"/> |

CLN-07 When does the city televise city lines? *(Check all that apply.)*

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Before cleaning        | <input type="checkbox"/> After a claim has been made | <input type="checkbox"/> When pipe is identified as having a backup,     |
| <input type="checkbox"/> After cleaning routine | <input type="checkbox"/> During weather event        | having a history of backups, or other possible problem identified during |
| <input type="checkbox"/> On a regular schedule  | <input type="checkbox"/> After weather event         | maintenance  |

CLN-08 Which of the following information is included in the sewer cleaning records? *(Check all that apply.)*

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Manhole inspection                    | <input type="checkbox"/> Method of cleaning                                   | <input type="checkbox"/> Public line     |
| <input type="checkbox"/> Date and time                         | <input type="checkbox"/> Location of stoppage or routine cleaning activity    | <input type="checkbox"/> Private line    |
| <input type="checkbox"/> Cause of stoppage necessary/initiated | <input type="checkbox"/> Materials removed from the line (rags, grease, etc.) | <input type="checkbox"/> Further actions |
| <input type="checkbox"/> Identity of cleaning crew             |   |  |

- |  | <b>YES</b>               | <b>NO</b>                |
|--|--------------------------|--------------------------|
| CLN-09 Does the city contract (vendor, contractor, other city) for sewer cleaning? | <input type="checkbox"/> | <input type="checkbox"/> |

If you answered YES to CLN-09, please complete the following:

CLN-10 What services are contracted? \_\_\_\_\_

- |  |                          |                          |
|--|--------------------------|--------------------------|
| CLN-11 Has the current contract between the city and the contractor been reviewed by the League of Minnesota Cities Insurance Trust? | <input type="checkbox"/> | <input type="checkbox"/> |
|  | <input type="checkbox"/> | <input type="checkbox"/> |

CLN-12 Does the contractor televise the lines before and after cleaning?

CLN-13 Does the city receive a copy of the video and a written report summarizing findings and observations before and after lines are cleaned?

## RECORD KEEPING (RK)

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For purposes of this checklist, the term “backup” is defined as an overflow or accumulation in the system due to a stoppage, malfunction, etc. The term “bypass” is defined as the removal of sanitary sewage or storm water within the system for purposes of placing elsewhere.

- |   | YES                      | NO                       |
|---|--------------------------|--------------------------|
| RK-01 Does the utility have a record keeping system in place for tracking maintenance activities? <i>(Either electronic or good paper files.)</i>   | <input type="checkbox"/> | <input type="checkbox"/> |
| RK-02 Are records maintained for a minimum of at least six years? <i>(Claims brought more than six years after the date of accident or injury are likely to be barred by the statute of limitations set forth in Minn. Stat. 541.05, Subd.1.)</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| RK-03 Does the utility keep track of all backup events?   | <input type="checkbox"/> | <input type="checkbox"/> |

RK-04 Which of the following have a program management or tracking system in place? <i>(Check all that apply.)</i>		
<input type="checkbox"/> Work orders	<input type="checkbox"/> Scheduled inspections	<input type="checkbox"/> Equipment/tools tracking
<input type="checkbox"/> Public Education	<input type="checkbox"/> Safety incidents	<input type="checkbox"/> Parts inventory
<input type="checkbox"/> Scheduled maintenance	<input type="checkbox"/> Scheduled monitoring/sampling	<input type="checkbox"/> Public backups
<input type="checkbox"/> Standard operating procedures	<input type="checkbox"/> Compliance/overflow tracking	<input type="checkbox"/> Private backups

RK-05 How often are your records updated? <i>(Check one.)</i>	
<input type="checkbox"/> Immediately (within one business day)	<input type="checkbox"/> Within one week of the “incident”
<input type="checkbox"/> Monthly	<input type="checkbox"/> As time permits

## NEW SYSTEM CONSTRUCTION (NSC)

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- |  | YES                      | NO                       |
|--|--------------------------|--------------------------|
| NSC-01 Are construction sites inspected by qualified personnel to ensure construction is taking place in accordance with plans and specs?  | <input type="checkbox"/> | <input type="checkbox"/> |
| NSC-02 Are new lines televised prior to being hooked into city system?   | <input type="checkbox"/> | <input type="checkbox"/> |
| NSC-03 Are the televised records retained for a minimum of at least 12 years? <i>(Claims brought more than 12 years after the date a system was constructed or modified are likely to be barred by the “improvement to real property” statute of limitations as set forth in Minn. Stat. 541.051, Subd.1.)</i> | <input type="checkbox"/> | <input type="checkbox"/> |

# OVERFLOW EMERGENCY RESPONSE PLAN (OERP)

**YES    NO**

OERP-01 Does the utility have a documented OERP available for utility staff to use?

Components of an OERP include:

- A detailed description of specific responsibilities for personnel who respond to emergencies
- Ongoing training and drills for staff who respond to emergency situations
- Prompt access for work crews to tools and equipment during emergencies
- Standard procedures for notifying state agencies, duty officers, local health departments, the NPDES authority, the public, and drinking water authorities of overflow events
- A public notification plan
- Procedures to limit public access to and contact with areas affected with SSOs (*Procedures can be delegated to another authority.*)
- Containment techniques to protect the storm drainage systems

OERP-02 Is the OERP reviewed and updated at least once a year?

OERP-03 Does the utility keep track of the names, titles, phone numbers, and responsibilities of all personnel involved in emergency situations?

OERP-04 Are hazardous material or petroleum spills reported to the Minnesota Duty Officer at 800-422-0798 in a timely manner (i.e. within 24 hours)?

OERP-06 What information is included in the city's overflow records? (*Check all that apply.*)

<input type="checkbox"/> Date and time	<input type="checkbox"/> Location	<input type="checkbox"/> Any corrective efforts/actions
<input type="checkbox"/> Cause(s)	<input type="checkbox"/> How it was stopped	<input type="checkbox"/> Estimated flow/volume discharged
<input type="checkbox"/> Name(s) of affected receiving water(s)	<input type="checkbox"/> Name(s) of employee(s) responding	<input type="checkbox"/> Duration of overflow
<input type="checkbox"/> Weather/rainfall		<input type="checkbox"/> Overflow treatment provided

## SAFETY (SAF)

- |  |                          |                          |
|--|--------------------------|--------------------------|
|  | <b>YES</b>               | <b>NO</b>                |
| SAF-01 Does the utility/city have an active safety program (i.e. safety committee, regular safety meetings, safety training program, records of employee safety training)? | <input type="checkbox"/> | <input type="checkbox"/> |
| SAF-02 Does the utility have a written safety policy that is reviewed and/or revised at least once a year?   | <input type="checkbox"/> | <input type="checkbox"/> |

SAF-03 Does the utility have written safety procedures for the following? <i>(Check all that apply)</i>							
	<b>YES</b>	<b>NO</b>	<b>N/A</b>		<b>YES</b>	<b>NO</b>	
<b>N/A</b>							
Lockout/tagout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Biological hazards in wastewater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material safety data sheets (MSDS)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic control and work site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical handling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical and mechanical systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confined space entry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pneumatic and hydraulic systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trenching and excavations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

SAF-04 Are the following equipment items available and in adequate supply?							
	<b>YES</b>	<b>NO</b>	<b>N/A</b>		<b>YES</b>	<b>NO</b>	<b>N/A</b>
Confined space ventilation equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Portable crane/hoist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respirators and/or self contained breathing apparatus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire extinguishers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5-minute escape breathing devices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic/public access control equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atmospheric testing equipment and gas detectors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protective clothing (PPE)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Full body harness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fiberglass or aluminum ladders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tripods or non-entry rescue equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Antibacterial soap and first aid kit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## SYSTEM MAPPING (MAP)

	<b>YES</b>	<b>NO</b>
MAP-01 Are "as built" plans (record drawings) or maps available for use in the office and in the field?	<input type="checkbox"/>	<input type="checkbox"/>
MAP-02 Is there a procedure to record changes or inaccuracies in the maps and update the mapping system?	<input type="checkbox"/>	<input type="checkbox"/>
MAP-03 Do the maps show the date the map was drafted and the date of the last revision?	<input type="checkbox"/>	<input type="checkbox"/>
MAP-04 Is there a numbering and identification method established to identify manholes, sewer lines, and other items (pump stations, etc.)?	<input type="checkbox"/>	<input type="checkbox"/>

<p>MAP-05 Do you require new "as built" plans to include the following? This recognizes that older as-built plans may not have all the following components. <i>(Check all that apply.)</i></p>		
<input type="checkbox"/> Scale	<input type="checkbox"/> Street names	<input type="checkbox"/> Slope
<input type="checkbox"/> North arrow	<input type="checkbox"/> Flow monitor location	<input type="checkbox"/> Pipe diameter
<input type="checkbox"/> Date the map was drafted	<input type="checkbox"/> Force mains	<input type="checkbox"/> Installation date
<input type="checkbox"/> Date of last revision	<input type="checkbox"/> Pump stations	<input type="checkbox"/> Age of manhole
<input type="checkbox"/> Service area boundaries	<input type="checkbox"/> Lined sewers	<input type="checkbox"/> Manhole depth
<input type="checkbox"/> Property lines	<input type="checkbox"/> Main, trunk, and interceptor sewers	<input type="checkbox"/> Manhole coordinates
<input type="checkbox"/> Other landmarks (roads, water bodies, etc.)	<input type="checkbox"/> Easement lines and dimensions	<input type="checkbox"/> Manhole inverts/drops
<input type="checkbox"/> Location of building laterals	<input type="checkbox"/> Separate/combined sewer	<input type="checkbox"/> Distance between manholes
<input type="checkbox"/> Pipe material	<input type="checkbox"/> Condition of pipe	<input type="checkbox"/> Manhole and other access points
		<input type="checkbox"/> Manhole material