**2020 CDBG SEWER PROJECT TECHNICAL APPLICATION**

Project Name:

Applicant Name:

E-mail: Phone:

Engineer Name:

E-mail: Phone:

NPDES or SOP number: Expires:

Project Type: [ ] Treatment Plant Capacity [ ]  Infiltration/Inflow [ ]  Lift Station Capacity

[ ]  Failing Septic Tanks [ ]  Quality and Operations

Complete the following information for existing and under-construction facilities which relate to the proposed project for MAY 2018 - APRIL 2019.

This technical application should be sealed by a professional engineer, licensed in Tennessee.

1. **Detailed project description, including condition of existing facilities:**
2. **Description of project location:**
	1. Attachment A: Project Map
3. **If this is a wastewater treatment project that will require a permit modification, has a preliminary project discussion been held with TDEC?**
4. **Detailed project cost including proposed funding sources:**
5. **Project Schedule:**
6. **Measurement\*:**
	1. ADDWF=Average of lowest 7 contiguous days average daily flow between MAY 2018 - APRIL 2019 (MGD):
	2. AADF= Average Annual Daily influent Flow (MGD):
	3. ATF= Annual Total influent Flow (MG):
	4. Annual I/I = ((AADF-ADDWF)\*365/ATF) (%):
	5. NPDES or SOP Permitted Volumetric Load (MGD):
	6. Number of Sanitary Sewer Overflows + Releases\*\*: Dry Wet
7. **Mapping**:
	1. Is current sewer system map up to date? [ ]  Yes [ ]  No
	2. Date of last revision:
	3. Does the map include a strategic numbering system for lines and/or manholes?[ ]  Yes [ ]  No If yes, ensure numbering system is shown on the PDF of the map.
	4. Attachment B: PDF of the current sewer system map
8. **Planning/Repair**: Provide a brief description of selected items.
	1. Does the utility:
		1. Locate I/I and Repair lines using a systemized method: [ ]  Yes [ ]  No

Explain method:

* + 1. Have permanent metering devices throughout the system: [ ]  Yes [ ]  No

AND/OR

Track pump run times to determine effect of storm flow: [ ]  Yes [ ]  No

* + 1. Install/Utilize software management to collect and analyze usage in the system:

[ ]  Yes [ ]  No

Name of software:

Explanation of how software is used:

* 1. Will the proposed project:
		1. Locate I/I and Repair lines using a systemized method: [ ]  Yes [ ]  No

Explain method:

* + 1. Install permanent metering devices throughout the system: [ ]  Yes [ ]  No

Provide a map of the proposed locations and meter types.

AND/OR

Track pump run times to determine effect of storm flow: [ ]  Yes [ ]  No

* + 1. Install/Utilize software management to collect and analyze usage in the system:

[ ]  Yes [ ]  No

Name of software:

Explanation of how software will be used:

c. Attachment C: Map of existing or proposed meters and/or pump run time data (if applicable)

\* For applicants without a treatment plant, report I/I values for receiving plant

\*\* Dry = May-Oct 2018, Wet = Nov 2018-Apr 2019

1. **Problem being addressed (complete only sections a-e that apply to the proposed project):**
	1. Treatment Plant Capacity

|  |  |  |
| --- | --- | --- |
|  | Existing | Proposed |
| Permitted Design Capacity (MGD): |  |  |
| Hydraulic Capacity (MGD): |  |  |
| Organic Loading (lbs/day): |  |  |
| Average Daily Loading (MGD): |  |  |
| Peak Daily Loading (MGD): |  |  |

Existing Average Daily Loading/ Existing Hydraulic Capacity (%):

* 1. Infiltration/Inflow (I/I)

Annual I/I = ((AADF-ADDWF)\*365/ATF) (%):

Annual I/I calculated in project location, if measured (%):

* 1. Lift Station Capacity

Average daily pump run time (min):

Wet weather daily pump run time (min):

Wet weather daily run time/Average daily pump time:

* 1. Failing Septic Tanks

Number of Septic Tanks in Project Area:

Number of Failing Septic Tanks in Project Area:

Number of Failing Septic Tanks/ Number of Septic Tanks:

* 1. Quality and Operations

List the categories that best describe your project. Clearly describe how the proposed project will improve the conditions of the selected items, including if the applicant considers this project urgent, high, medium or low priority according to the following descriptions:

Urgent Priority: Problems that are posing health risks now

High Priority: Problems resulting in possible health risk if not corrected

Medium Priority: Problems not posing a health risk but are improvements to the system

Low Priority: Regular maintenance items or issues not affecting water quality

[ ]  Discharge of a pollutant of concern for which the receiving stream is impaired

[ ]  Immediate Threat - Existing facilities are experiencing operational problems due to deterioration of facilities – such problems have resulted degradation of water quality such that the health and wellbeing of customers are affected (Requires detailed and/or appropriate documentation demonstrating an immediate threat.)

[ ]  Addition of nutrient removal

[ ]  Existing facilities are experiencing operational problems due to deterioration of facilities – such problems have the potential to result in degradation of water quality such that the health and wellbeing of water customers may be affected. (Requires detailed documentation of problem.)

[ ]  Addition of redundancy

[ ]  Addition of standby power

[ ]  Upgrading of older facilities not posing a current risk

[ ]  Addition of facilities not affecting stream quality – meets anti-degradation requirements

[ ]  Regular maintenance items – replacement of equipment

[ ]  Other

Technical Application Checklist:

[ ]  Technical application using format above, sealed by a professional engineer licensed in Tennessee

[ ]  Attachment A: Project Map

[ ]  Attachment B: PDF of the current sewer system map with numbering system visible

[ ]  Attachment C: Map of existing or proposed meters and/or pump run time data (if applicable)

[ ]  Attachment D: Engineer’s Opinion of Probable Cost for the proposed project