Suggested Environmental Information Document Outline

1. PROPOSED PROJECT AND FUNDING

1.1 Project Description

a. Project summary

(1) Planning area description (including a map with facilities)

(2) Planning period (time period)

(3) Description of project construction phases

b. Project-related infrastructure (proposed)

(1) Owner and operator of the facilities

(2) Location of the facilities (include an 8.5 x 11 inch, black and white project map suitable for distribution)

(3) Capacity information

1.2 Relevant Design Parameters

a. Design information

(1) Description of major unit processes – including, for storm water projects, description of major storm water components (structural and non-structural)

(2) Flow diagram

(3) Estimated pollutant removal capability (i.e., performance criteria of structural components)

(4) Sewer/water pipe lengths, sizes, and locations

(5) Basic design criteria (e.g., design storm events for storm water components)

(6) Other

b. Energy, water, and sustainability

(1) Calculate annual energy requirements *

(2) Determine sources of energy *

(3) Calculate GHG emissions *

(4) Calculate annual water requirements *

(5) Describe water efficiency measures (if applicable) *

(6) Describe energy efficiency measures (if applicable) *

(7) Describe renewable energy produced (if applicable) *

*Encouraged but not required.

(8) Describe green infrastructure (if applicable) *

(9) Describe reuse program implemented (if applicable)

1.3 Funding Information

a. Proposed total project cost

b. Portion of total project cost funded by EPA

c. List of amount, sources, and status of all funding sources

2. PURPOSE AND NEED FOR PROPOSED PROJECT

2.1 Project Purpose and Need (Select at Least One)

a. Water quality/water quantity problems

b. Public health concerns

c. Inadequate system or system components

d. More stringent effluent limits (wastewater only)

(1) Existing effluent limitations

(2) Proposed effluent limitations

e. Other (specify):

2.2 Expanded Description of Need

a. Description of the following (as applicable):

(1) Land use projections/impervious cover/pollutant sources

(2) Population forecast/projections

(3) Calculations and assumptions for forecasted flow and waste load

(4) Future environment without the project

3. EXISTING INFRASTRUCTURE

3.1 General Description of Wastewater Collection and Treatment and Storm Water

a. Include a system description and map

3.2 Existing Wastewater System (Wastewater Only)

a. Description of wastewater system to include (as applicable):

(1) Wastewater flows (current average, peak, wet weather)

(2) Influent characteristics

(3) Major industrial users

(4) Residuals (sludge) disposal

*Encouraged but not required.

(5) Service area

(6) Infiltration and inflow

(7) Present capacity (e.g., describe whether there is excess capacity in digesters [if applicable])

(8) Calculate annual energy requirements*

(9) Determine source of energy and GHG emissions*

(10) Calculate annual water requirements*

(11) Describe water efficiency measures (if applicable)*

(12) Describe energy efficiency measures (if applicable)*

(13) Describe renewable energy produced (if applicable)*

(14) Describe green infrastructure (if applicable)*

(15) Describe reuse programs implemented (if applicable)

3.3 Existing Drinking Water System (Drinking Water Only)

a. Description of treatment and distribution system to include (as applicable):

(1) Water demand (average, peak)

(2) Surface water source (intake locations, permitted and actual withdrawal)

(3) Ground water source (wells and well fields)

(4) Water storage

(5) Raw water characteristics

(6) Residuals (sludge) and backwash disposal

(7) Service area

(8) Calculate annual energy requirements*

(9) Determine source of energy and GHG emissions*

(10) Calculate annual water requirements*

(11) Describe water efficiency measures (if applicable)*

(12) Describe energy efficiency measures (if applicable)*

(13) Describe renewable energy produced (if applicable)*

(14) Describe green infrastructure (if applicable)

3.4 Existing Storm Water System (Storm Water Only)

a. Detailed description of existing storm water system to include (as applicable):

(1) Description of major structural components

(2) Description of non-structural components/actions-full cost pricing

(3) Description of design parameters/performance criteria/permits

*Encouraged but not required.

(4) Description of existing capacity and reuse program

(5) Description of green infrastructure (if applicable)*

3.5 Existing System Performance

a. National Pollutant Discharge Elimination System (NPDES) violations

b. Safe Drinking Water Act violations

c. Other system problems

4. ANALYSIS OF ALTERNATIVES

4.1 Development of Alternatives

a. No-Action Alternative

b. Optimum utilization of existing facility

(1) Describe renewable energy produced (if applicable) *

(2) Describe reuse program implemented (if applicable) *

(3) Describe water and energy efficiency measures (if applicable) *

(4) Describe green infrastructure (if applicable) *

c. New construction alternatives

d. Source reduction

e. Non-structural and structural storm water system components

4.2 Alternative Screening (Include discussion for each Alternative)

a. Criteria for evaluating alternatives

b. Assigning weights for criteria

(1) Present worth or equivalent annual cost

(2) Reliability

(3) Complexity

(4) Environmental factors

(5) Feasibility (constraints)

(6) Flexibility

(7) Water/energy use comparison *

4.3 Identification of Preferred Alternative

5. EXISTING ENVIRONMENT (AS PERTAINS TO PROJECT)

5.1 Water Resources

a. Water quality

*Encouraged but not required.

(1) Public health problems due to water quality

(2) Water quality problems, fish kills, etc.

(3) Water quantity problems (i.e., drought, arid conditions, groundwater overdrafts, location of water source from site, if applicable)

b. Surface and ground water hydrology

c. Drinking water sources and supply

d. Floodplains and wetlands

5.2 Physiography, Topography, Geology, and Soils

5.3 Federally Endangered and Threatened Species

5.4 Air Quality

a. If in a non-attainment area, include information about any required state sign-off

5.5 Environmental Justice Information

a. Minority and low-income areas (include median family income)

b. Census maps

5.6 Land Use and Development, Percent Impervious Cover, Pollutant Sources

6. ENVIRONMENTAL CONSEQUENCES AND MITIGATION MEASURES FOR PREFERRED, NO ACTION, AND ALTERNATIVES

6.1 Impacts Discussion

a. Direct impacts

b. Indirect or secondary impacts of future growth and development

(4) GHG emissions *

(5) Water/energy use comparison *

c. Unavoidable adverse impacts

6.2 Mitigation

a. Minimization of adverse impacts

6.3 Cross-Cutter Environmental Laws (Coordination and Consultation Process)

a. Archeological resources

b. Air quality

c. Coastal barrier resources

d. Coastal zones

*Encouraged but not required.

e. Endangered species
f. Environmental justice
g. Floodplains
h. Wetlands
i. Protected farmlands
j. Fish and wildlife
k. National historic resources
l. Drinking water supplies
m. Wild and scenic rivers
n. Essential Fish Habitat

6.4 Reviews, Permits, and Authorizations

a. Intergovernmental review per Executive Order 12372
b. Necessary permits (NPDES, wetlands) issued
c. Necessary inter-municipal agreements executed

7. PUBLIC PARTICIPATION

7.1 Summary of Public Participation

7.2 Documentation of any Public Participation

a. Public meeting date and record if applicable
b. Copy of any publication/copy of newspaper advertisement