

## ATTACHMENT G – GENERIC TOXICITY REDUCTION EVALUATION (TRE) WORK PLAN

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### I. OPERATIONS AND PERFORMANCE REVIEW

- A. NPDES permit requirements
  - 1. Effluent limitations
  - 2. Special conditions
  - 3. Monitoring data and compliance history
- B. FOTW design criteria
  - 1. Hydraulic loading capacities
  - 2. Pollutant loading capacities
  - 3. Biodegradation kinetics calculations/assumptions
- C. Influent and effluent conventional pollutant data
  - 1. Biochemical oxygen demand (BOD<sub>5</sub>)
  - 2. Chemical oxygen demand (COD)
  - 3. Suspended solids (SS)
  - 4. Ammonia
  - 5. Residual chlorine
  - 6. pH
- D. Process control data
  - 1. Primary sedimentation – hydraulic loading capacity and BOD and SS removal
  - 2. Activated sludge – Food-to-microorganism (F/M) ratio, mean cell, residence time (MCRT), mixed liquor suspended solids (MLSS), sludge yield, and BOD and COD removal
  - 3. Secondary clarification – hydraulic and solids loading capacity, sludge volume index and sludge blanket depth
- E. Operations information
  - 1. Operations logs
  - 2. Standard operating procedures
  - 3. Operations and maintenance practices
- F. Process sidestream characterization data
  - 1. Sludge processing sidestreams
  - 2. Tertiary filter backwash
  - 3. Cooling water
- G. Combined sewer overflow (CSO) bypass data
  - 1. Frequency
  - 2. Volume

H. Chemical coagulant usage for wastewater treatment and sludge processing

1. Polymer
2. Ferric chloride
3. Alum

**II. FOTW INFLUENT AND EFFLUENT CHARACTERIZATION DATA**

- A. Toxicity
- B. Priority pollutants
- C. Hazardous pollutants
- D. SARA 313 pollutants
- E. Other chemical-specific monitoring results

**III. SEWAGE RESIDUALS (RAW, DIGESTED, THICKENED AND DEWATERED SLUDGE AND INCINERATOR ASH) CHARACTERIZATION DATA**

- A. EP toxicity
- A. Toxicity Characteristic Leaching Procedure (TCLP)
- B. Chemical analysis

**IV. INDUSTRIAL WASTE SURVEY (IWS)**

- A. Information on IUs with categorical standards or local limits and other significant non-categorical IUs
- B. Number of IUs
- C. Discharge flow
- D. Standard Industrial Classification (SIC) code
- E. Wastewater flow
  1. Types and concentrations of pollutants in the discharge
  2. Products manufactured
- F. Description of pretreatment facilities and operating practices
- G. Annual pretreatment report
- H. Schematic of sewer collection system
- I. FOTW monitoring data
  1. Discharge characterization data
  2. Spill prevention and control procedures
  3. Hazardous waste generation
- J. IU self-monitoring data
  1. Description of operations
  2. Flow measurements
  3. Discharge characterization data
  4. Notice of sludge loading

- 5. Compliance schedule (if out of compliance)
- K. Technically based local limits compliance reports
- L. Waste hauler monitoring data manifests
- M. Evidence of FOTW treatment interferences (i.e., biological process inhibition)

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