ATTACHMENT G

GENERIC TOXICITY REDUCTION EVALUATION (TRE) WORKPLAN **POTW**

1. **Information and Data Acquisition**

- **Operations and performance review**
 - NPDES permit requirements
 - Effluent limitations (1)
 - Special conditions (2)
 - Monitoring data and compliance history (3)
 - POTW design criteria ii.
 - Hydraulic loading capacities (1)
 - Pollutant loading capacities (2)
 - Biodegradation kinetics calculations/assumptions (3)
 - iii. Influent and effluent conventional pollutant data
 - Biochemical oxygen demand (BOD₅) (1)
 - (2) Chemical oxygen demand (COD)
 - (3) Suspended solids (SS)
 - (4) Ammonia
 - (5) Residual chlorine
 - (6) pН
 - iv. Process control data
 - 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
 - Secondary clarification hydraulic and solids loading capacity, sludge (3) volume index and sludge blanket depth
 - Operations information v.
 - (1) Operating logs
 - (2) Standard operating procedures
 - (3) Operations and maintenance practices
 - vi. Process sidestream characterization data
 - (1) Sludge processing sidestreams
 - (2) Tertiary filter backwash
 - Cooling water (3)
 - vii. Combined sewer overflow (CSO) bypass data
 - Frequency (1)
 - Volume (2)
 - Chemical coagulant usage for wastewater treatment and sludge processing viii.
 - (1) Polymer
 - Ferric chloride (2)
 - (3) Alum

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b. POTW influent and effluent characterization data

- i. **Toxicity**
- ii. Priority pollutants
- iii. Hazardous pollutants
- iv. SARA 313 pollutants,
- Other chemical-specific monitoring results v.

c. Sewage residuals (raw, digested, thickened and dewatered sludge and incinerator ash) characterization data

- i. EP toxicity
- ii. Toxicity Characteristic Leaching Procedure (TCLP)
- iii. Chemical analysis

d. **Industrial waste survey (IWS)**

- i. Information on lUs with categorical standards or local limits and other significant non-categorical lUs
- ii. Number of 1Us
- iii. Discharge flow
- iv. Standard Industrial Classification (SIC) code
- v. Wastewater flow
 - (1) Types and concentrations of pollutants in the discharge
 - Products manufactured (2)
- vi. Description of pretreatment facilities and operating practices
- vii. Annual pretreatment report
- viii. Schematic of sewer collection system
- ix. POTW monitoring data
 - (1) Discharge characterization data
 - Spill prevention and control procedures (2)
 - Hazardous waste generation (3)
- IU self-monitoring data Χ.
 - (1) Description of operations
 - (2) Flow measurements
 - (3) Discharge characterization data
 - **(4)** Notice of sludge loading
 - Compliance schedule (if out of compliance) (5)
- xi. Technically based local limits compliance reports
- xii. Waste hauler monitoring data manifests
- xiii. Evidence of POTW treatment interferences (i.e., biological process inhibition

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