METRO WATER RECOVERY.

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TOTAL TOXIC ORGANICS & TOXIC ORGANIC MANAGEMENT PLAN IMPLEMENTATION POLICY

PURPOSE/SCOPE: This document defines the Industrial Pretreatment Program's approach for managing the authority monitoring requirements for Total Toxic Organics and for evaluating Toxic Organics Management Plans specific to sampling strategies.

Version Number	Approved By	Effective Date
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BACKGROUND

Metro Water Recovery (Metro) operates a US Environmental Protection Agency (EPA) approved Industrial Pretreatment Program (IPP) to prevent the introduction of pollutants into the domestic wastewater treatment works that may cause passthrough, interference, or pose a risk to public health and the environment. Metro's legal authority to implement the IPP is provided in Sections 2, 5, 6 and 10 of the Metro Water Recovery *Rules and Regulations Governing the Operation, Use, and Services of the System* (Rules and Regulations).

This policy establishes the following items:

1. This document outlines requirements and expectations for Categorical Industrial Users that must control and self-monitor Total Toxic Organics (TTOs).
2. The document outlines how Metro meets and applies the requirements of the Region VIII Strategy for Total Toxic Organics (U.S. EPA, 1999) (Region VIII Strategy), protects infrastructure from passthrough and interference, and guides staff in evaluating Toxic Organics Management Plans (TOMPs) to develop appropriate sampling strategies for authority monitoring.
3. Metro's procedures for TTO sampling during authority monitoring.

APPLICABILITY

This policy applies to all existing and new Categorical Industrial Users (CIUs) within Metro's service area that are subject to applicable categorical TTO requirements.

Categorical industries with applicable TTO limits that are eligible to request a TTOs Waiver include:

- Electroplating – 40 CFR Part 413
- Metal Finishing – 40 CFR Part 433
- Electrical and Electronic Components – 40 CFR Part 469

Categorical industries with applicable TTO limits and are **NOT** eligible to request a TTOs Waiver include:

- Copper Forming – 40 CFR Part 468
- Aluminum Forming – 40 CFR Part 467
- Coil Coating – 40 CFR Part 465

This policy supersedes any prior written guidance or correspondence issued by Metro regarding TTO management, recognizing that conditions in Metro's service area may change over time and that Metro must regularly reassess the industrial waste received by its two Publicly Owned Treatment Works (POTWs).

AUTHORITY FRAMEWORK

Metro's EPA-approved Industrial Pretreatment Program (approved August 25, 1986) requires Metro to:

1. Inspect and perform authority monitoring of each Significant Industrial User (SIU) at least annually (40 CFR § 403.8(f)(2)(v)).
2. Issue Wastewater Discharge Permits (Permits) to SIUs, including Categorical Industrial Users (CIUs), as required under 40 CFR § 403.8(f) and § 403.12. Permits include self-monitoring requirements based on applicable categorical standards. The Control Authority, responsible for implementing the IPP, enforces these requirements and approves TOMPs where applicable.

The Control Authority is defined as the entity responsible for implementing and enforcing the IPP, including permitting, monitoring, and enforcement of SIUs within Metro's service area. Per 40 CFR § 403.3(f), the term Control Authority refers to The POTW if the POTW's Pretreatment Program Submission has been approved in accordance with the requirements of 40 CFR § 403.11. Summarized, Metro is the Control Authority for Industrial Users within Metro's service area.

In alignment with the EPA, Region VIII Strategy, Metro enforces a comprehensive approach to monitor and regulate TTO discharges from CIUs. This strategy emphasizes the necessity for the control authority to inspect and sample the effluent from each CIU at least annually, as stipulated in 40 CFR § 403.8(f)(2)(v), and recommends that POTWs sample for all regulated pollutants discharged to the treatment works, ensuring comprehensive oversight and compliance.

Metro's implementation of this strategy includes the following actions, as they specifically pertain to the implementation of this TTOs policy:

- Annual Inspections and Sampling: Conducting thorough inspections and effluent sampling of each SIU at least once a year to assess compliance with discharge standards.
- Comprehensive Pollutant Monitoring: Sampling for all regulated pollutants, including TTOs, to ensure that all potential contaminants are monitored and controlled.
- Enforcement of Compliance: Taking necessary enforcement actions against SIUs that fail to meet discharge standards, including the potential for penalties or other corrective measures.

These summary bullets are not intended to represent Metro's full scope of training, monitoring, or enforcement activities. By adopting the EPA Region VIII Strategy in this manner, Metro ensures a focused and consistent framework for the management and regulation of TTOs, aligning with federal guidelines and enhancing pretreatment protection efforts.

GENERAL APPROACH

This section describes how:

1. Metro receives TOMP applications from CIUs; - *TOMP Applications (Waiver Request)*
2. Metro reviews and acts on TOMP applications; - *TOMP Review*
3. CIUs implement TOMP requirements; - *TOMP Implementation Requirements*
4. CIUs implement when not eligible for a TOMP or elect not to utilize a TOMP; - *TTOs Sampling for CIUs without an Approved TOMP*
5. Metro oversees approved TOMPs through authority monitoring and inspections. – *Authority Monitoring Events*

Each of these items is discussed below under the following headings.

TOMP Applications (Waiver Request)

As part of Metro's general approach to managing TTOs, authorized CIUs may submit a TTO certification in lieu of monitoring by preparing and submitting a TOMP in accordance with 40 CFR §403.12(e). A TOMP must address the following elements:

1. **Process Engineering Analysis**
   - Identify all sources of TTOs, including raw materials, chemical additives, process by-products, leaks, spills, and other potential contributors to the wastestream.
   - Include flow diagrams or other documentation to show how toxic organics may enter the wastestream.
2. **Pollutant Control Evaluation**
   - Assess control options to eliminate or reduce TTOs discharge, such as operational changes, chemical substitution, recycling, or neutralization.
   - Evaluate feasibility and select appropriate measures to prevent TTOs from entering the wastestream.
3. **TOMP Preparation**
   - Provide a complete inventory of TTOs in use.
   - Describe methods of disposal (e.g., reclamation, contract hauling, incineration) for all TTOs.
   - Include procedures to prevent spills or leaks into wastestreams.
   - Provide estimates of quantities used and discharged, and any other measures to ensure compliance.
4. **Submission and Certification**
   - Submit the TOMP to Metro with a signed certification statement by an officer or responsible manager confirming that the plan is implemented and TTOs are not being discharged.
   - Include the certification with subsequent periodic reports as required by the Permit.

Note: For detailed guidance on TOMP preparation, including step-by-step instructions and examples, see *EPA Guidance Manual for Implementing Total Toxic Organics, Section 4*. Metro

may request additional supporting information or perform site visits to verify completeness of the TOMP as part of its review process.

TOMP Review

Metro will review and act on TOMP applications based on the following:

1. Metro evaluates each TOMP utilizing *The Guidance Manual for Implementing Total Toxic Organics (TTO) Pretreatment Standards* (U.S. EPA September 1985).
2. Metro will review the list of pollutants reasonably expected to be present in the CIU's wastestream, supported by documentation such as material inventories, engineering studies, or process balances. Metro will review this list for completeness and appropriateness. This review may include site visits or other requests for information.
3. Metro will approve, conditionally approve, or deny TOMP applications formally in writing.
    - If approved or conditionally approved, Metro will:
        - establish a list of TTO pollutants to be monitored for authority monitoring and for CIU self-monitoring and integrate these requirements into the Permit;
        - establish conditional implementation or operational requirements and integrate these requirements into the Permit; and
        - maintain records of TOMP approvals, granted TTO sampling waivers, and CIUs required to sample under Permit conditions to ensure historical tracking and regulatory compliance.
    - If denied, Metro will issue a decision letter to the CIU.

TOMP Implementation Requirements

CIUs with approved TOMPs must annually qualify for a TTOs sampling waiver. To qualify, the CIU must meet all of the following requirements:

1. The CIU must have previously demonstrated the absence of TTOs in its discharge (e.g., Baseline Monitoring Reports or 90-Day Compliance Reports).
    - Other analytical data sets may also qualify provided they are representative of normal operations and demonstrate that TTOs are not present in the discharge.
    - Acceptable demonstrations may include prior annual self-monitoring, corrective action sampling, or other Metro-approved data showing no reasonable potential for TTOs.
    - If the CIU has modified equipment, materials, or processes in a way that could introduce TTOs since the last demonstration, Metro will require a new evaluation such as targeted resampling for pollutants reasonably expected to be present or an updated TOMP review before the waiver can continue.
2. Authority Monitoring must not register a TTO violation at the permitted facility.
3. Metro must document annually during an on-site inspection that no TTOs are reasonably expected in current operations. Annual inspections consider:
    - Raw materials used;
    - Manufacturing or production processes;

- Waste management practices;
- Chemical storage and handling procedures;
- Wastewater discharge documentation.
- Prevention, notification, and reporting of irregular or non-routine discharge practices, as described in the CIU's Slug Discharge Control Plan (SDCP) and associated permit conditions.
    - Slug Discharge Considerations
        - "Slug Discharge" refers to non-routine, accidental, episodic, batch, or slug discharges not anticipated in permit development.
        - CIUs are required to submit Slug Discharge Notifications and Reports, which Metro may use to require supplemental monitoring.
        - Metro may require TTO sampling if an inspection or other evidence indicates TTOs may be present or insufficiently controlled.

Waiver conditions:

1. **TTO Sampling Waiver Scope:**
   A TTOs Sampling Waiver relieves a CIU from monitoring the pollutants addressed in an approved TOMP if the approved TOMP conditions are maintained and no operational or chemical changes occur that could introduce TTOs. When authorized, the CIU must:
   - Implementation of the TOMP;
   - Maintaining accurate TOMP information;
   - Complying with self-monitoring requirements; and
   - Notifying Metro of operational or chemical changes that may affect TTO discharges. Metro must approve in writing all operational or chemical changes impacting a TOMP prior to implementation.
2. **Self-Monitoring Triggers:**
   CIUs must conduct self-monitoring when:
   - Any inspection, CIU report, operational review, enforcement actions, or other evidence indicates a change in discharge conditions from those present in the approved TOMP;
   - Authority monitoring identifies TTOs in exceedance of Permit limits; or
   - The CIU makes operational or chemical changes that could affect TTOs presence.
   - TOMP is Revoked or Invalidated:
       - Metro may revoke the TOMP due to enforcement actions, changes in categorical applicability, or other regulatory reasons.
       - Automatic Invalidation Conditions: A previously approved TOMP is automatically invalidated if any of the following occur:
           - The CIU implements unapproved operational or chemical changes that could introduce TTOs.
           - Authority monitoring detects TTOs above applicable Permit limits or identifies new toxic organics not included in the approved TOMP.
           - The CIU fails to maintain procedures, controls, or certifications required by the approved TOMP.

        - The CIU fails to submit its annual TTOs certification or otherwise demonstrate continued qualification during inspection.
        - Metro revokes the TOMP due to enforcement actions, changes in categorical applicability, or other regulatory reasons.
    - If a previously approved TOMP is revoked or invalidated, the CIU must immediately resume sampling for the full list of TTOs specified in its Permit. Metro may also require additional monitoring or corrective actions.
    - In cases where a TOMP is revoked or invalidated, sampling requirements are governed by the same requirements outlined in TTO Sampling for CIUs without an Approved TOMP (below). This approach ensures consistency in the type, frequency, and validity of self-monitoring required under the Permit until a revised TOMP is approved.
3. **TOMP Revision Timing Considerations:**
    - **Pre-change submission:** If a CIU submits a TOMP revision before implementing a change, additional sampling may or may not be required. Please consult with Metro. The approved TOMP and waiver remain valid until Metro reviews and approves the revision. Only after receiving written approval from Metro, the CIU may implement the operational changes.
    - **Post-change submission:** If a CIU makes a change before submitting a TOMP revision, self-monitoring is required immediately upon implementing the process change. Essentially, the approved TOMP becomes invalid by implementing the process change. Sampling requirements are governed by the same principles outlined in TTO Sampling for CIUs without an Approved TOMP (below) until Metro reviews and approves the revised TOMP.

TTO Self-Monitoring by CIUs without an Approved TOMP

If a CIU does not request to utilize a TTO certification in lieu of monitoring, if Metro does not approve a TOMP submitted by a CIU, or if the TOMP is revoked or invalidated, the CIU is required to self-monitor at the frequency indicated in the Permit. In this case, the CIU must sample for the full list of TTOs applicable to its categorical or sub categorical requirements. This approach ensures that all potentially relevant toxic organics are evaluated, maintains compliance with EPA categorical standards, and allows Metro to verify that no unauthorized discharges occur.

CIUs are expected to collect representative samples and follow approved analytical methods and QA/QC procedures consistent with 40 CFR Part 136. If a self-monitoring event fails to produce valid analytical data (e.g., due to laboratory QA/QC issues, sample preservation errors, or other invalid conditions), the Event shall be deemed a failure and the CIU must promptly notify Metro. A failure is defined as a sampling Event in which analytical data are invalid, inconclusive, or do not meet established Quality Assurance/Quality Control (QA/QC) criteria. For TTOs, which are evaluated as the sum of individual compounds across multiple analytical methods, the success of the Event is contingent upon the validity of all individual pollutant constituent methods. If any single required method fails for the TTO list, the entire TTO Event shall be considered a failure. Although issues may originate from a single parameter or method,

a failure determination is made at the Event level. Individual pollutant success shall be assessed in accordance with the requirements of the applicable analytical method.

A failed or invalid self-monitoring event does not fulfill the CIU's Permit requirement unless Metro determines otherwise formally in writing. Repeated failures, lack of notification, or delayed resampling may be considered noncompliance with the CIU's Permit and may result in enforcement actions under Metro's Rules and Regulations.

Authority Monitoring Events

Metro conducts at least one authority monitoring event (Event) per calendar year for each CIU. Metro's authority monitoring always includes TTOs at CIUs which have a categorical requirement for TTOs included in the permit. Where a CIU has a Metro approved TOMP, the pollutants reasonably expected to be present in the wastestream, as identified in the approved TOMP, shall serve as the basis for the authority monitoring. In the absence of an approved TOMP, Metro shall conduct sampling for the full list of TTO pollutants specified under the applicable regulation.

If a scheduled Event does not yield valid pollutant sample analysis data (e.g., due to QA/QC deficiencies), the Event shall be deemed a failure and a subsequent Event shall be scheduled. A failure is defined as a sampling Event in which analytical data are invalid, inconclusive, or do not meet established Quality Assurance/Quality Control (QA/QC) criteria. For TTOs, which are evaluated as the sum of individual compounds across multiple analytical methods, the success of the Event is contingent upon the validity of all individual pollutant constituent methods. If any single required method fails for the TTO list, the entire TTO Event shall be considered a failure. Although issues may originate from a single parameter or method, a failure determination is made at the Event level. Individual pollutant success shall be assessed in accordance with the requirements of the applicable analytical method.

In some cases, multiple authority monitoring Events may fail. If both the first and second sampling Events fail:

- **With an approved TOMP**: Metro will implement the EPA Region VIII Strategy to fulfill the Control Authority's annual monitoring requirement for TTOs. This implementation includes:
  - Reviewing the CIU's TOMP to verify that the plan accurately identifies TTOs reasonably expected in the wastestream.
  - Conducting inspections to verify operational practices and confirm that no TTOs are being discharged.
  - Documenting observations, sampling results, and any corrective actions taken, in accordance with 40 CFR § 403.8(f)(2)(v).

    These actions are undertaken specifically to implement this TTO policy and do not represent the full scope of Metro's monitoring, inspection, or enforcement activities.

Specific steps are outlined below (see TTO Sampling Waiver for CIUs with an Approved TOMP).

- **Without an approved TOMP**: Metro will continue to schedule Events until valid pollutant data are obtained. If sampling cannot be completed within the calendar year, Metro documents all attempts and submits the information to EPA in accordance with 40 CFR §403.12(i).

These Region VIII Strategy procedures are applied solely to satisfy the annual monitoring requirement when valid analytical data cannot be obtained. These procedures do not substitute for regular compliance monitoring or modify any existing permit requirements.