

Monitoring and Research Goals and Objectives for 2020

Goal: Locate three (3) new Significant Industrial Users (SIU) and/or Large Commercial Industrial Users (LCIU) that discharge to any of the Metropolitan Water Reclamation District of Greater Chicago's (District) Water Reclamation Plants (WRP).

Objective

Locating and regulating new SIUs and LCIUs will result in continued and comprehensive pretreatment, minimization, and control of pollutants at their sources so that they are not discharged to the collection system, thereby helping to insure the highest quality biosolids as an end-product of the treatment process.

Description

Industrial Waste Division Field Services Section staff will conduct surveillance throughout the District's service area. Unknown or new facilities conducting business with possible process discharges to the sewerage system will be reviewed to verify reference in the iPACS database. If not referenced, the facility will be classified, inspected, and sampled (if necessary).

Measurability

Progress toward meeting the Goals and Objectives for 2020 will be tracked and measured using the Industrial Waste Division's pretreatment management software and outreach program, along with directives to the Field Services Section (FSS), to perform regular door-to-door inspections of industrial parks, corridors, and other areas of dense industrialization in an effort to locate new SIUs and LCIUs.

Effect on Biosolids Production

New facilities are inspected to determine if they have the capability to adversely impact the operation of the receiving WRP or the quality of biosolids. If so, the facility will be placed on a monitoring schedule to protect the aforementioned WRP operations and maintain biosolids quality.

Relevant EMS Outcomes

Monitoring of facilities will increase regulatory compliance, protect the receiving WRP, and reduce unwanted contaminants in biosolids.

Action Plans

Facilities will be identified through municipal contacts, review of IEPA Tier II reports, and drive-by surveillance. Newly identified facilities will be required to complete a Facility Classification Questionnaire and will be inspected and sampled within 30 days if warranted.

Tracking Progress

The Senior Environmental Specialist in each field office will schedule surveillance, verify that inspections are conducted, reports written, and data entered into the pretreatment program database.

Responsible Person(s)
Senior Environmental Specialist

Funds/Resources
Sufficient funds are budgeted to accomplish these tasks in 2020.

Target Date
Program status is reported quarterly to the M&O Department during each calendar year, and the effort to locate new SIUs/LCIUs is consistent and ongoing throughout the year

Goal: Locate three (3) new sources of High Strength Organic Material (HSOM) for the Enhanced Biological Phosphorus Removal Program or Biogas Utilization Program.

Objective
To locate any new facilities that could contribute hauled HSOM to enhance District biological phosphorus removal and biogas utilization through its resource recovery initiative.

Description
Industrial Waste Technical Services Section staff will seek out prospective HSOM sources. All potential HSOMs will be chemically pre-screened by the Analytical Laboratories Division to ensure that they are not contaminated with pollutants of concern and that they meet strength criteria. Approved sources will be issued an Organic Material Delivery Authorization (OMDA).

Measurability
Number of new HSOM sources that have been issued OMDAs.

Effect on Biosolids Production
Chemical pre-screening of potential HSOMs will determine any capability to adversely impact the operation of the receiving WRP or the quality of biosolids. Prospective HSOMs must meet stringent pollutant criteria to be approved for delivery.

Relevant EMS Outcomes
Pre-screening and sampling and monitoring of actual HSOM loads by Technical Services Section staff will increase regulatory compliance, protect the receiving WRP, and reduce unwanted contaminants in biosolids.

Action Plans
Prospective HSOM sources will be identified through public and on-line outreach efforts as well as via municipal contact and Industrial Waste user database search.

Tracking Progress
The Supervising Environmental Specialist in the Industrial Waste Technical Services Section will track HSOM deliveries, monitor activities, and maintain a database of all approved sources and haulers.

Funds and Resources

Sufficient funds are budgeted to accomplish these tasks in 2020.

Responsible Person(s)

Supervising Environmental Specialist

Target Date

December 2020