



Pacific Northwest Pretreatment Workshop 2024- Presenters and Topics

As has been the case for the past 30 years, the Western States Alliance, FOG Forum has brought together municipal, state, and federal wastewater and pretreatment staff from cities in Oregon, Idaho, Washington, and Alaska. The attendees (approximately 150) are mostly municipal employees responsible for administering Industrial Pretreatment Programs under 40 CFR 403. Under this program, pretreatment staff administer and enforce industrial discharge permits, monitor industrial discharges, develop local limits and implement other programs as needed to protect the publicly owned treatment plants, collection system, and workers.

This year, the pretreatment workshop is applying for 1.45 Wastewater and Collection System CEU's with the Oregon Environmental Services Advisory Council (OESAC). The 2024 Pacific Northwest Pretreatment Workshop will be held in-person in Vancouver, WA October 21, 22 & 23, 2024. The following is a brief outline of the presentations for the 31st Annual Pacific Northwest Pretreatment Workshop and course timelines

Industrial Pretreatment Program Overview: Field and Administration Considerations

Al Garcia
National Pretreatment Coordinator
EPA Region 8
Denver, CO

This presentation is intended to discuss the regulatory background of the Pretreatment program and the authority that the Pretreatment personnel to implement the field and programmatic activities of the Pretreatment program.

Pretreatment is a diverse program that requires a person to know the regulations and legal authorities while gathering expertise in the art of communicating to the public, government, and different levels and positions in industry. In addition to discussing the regulations and authority to implement the Pretreatment field and administrative activities, the presenter will provide real life and humbling stories about trying to gather expertise in the program.

(45 Min)

Working Towards Compliance: Model FOG Ordinance and Survey of Industrial Discharge Facts Sheets

Jill Hoyenga
Pretreatment Coordinator
City of Dalles, OR

An ordinance to abate fats, oils and grease (FOG) is part of a comprehensive approach to Capacity, Management, Operations and Maintenance (CMOM). US EPA found that grease from restaurants, homes, and industrial sources are the most common cause (47%) of reported sewer blockages. FOG abatement is a pretreatment requirement. But overlapping jurisdictions impact utility efforts. Installing FOG abatement equipment is in the jurisdiction of the plumbing code. Oregon Health Authority and the Oregon Dept. of Agriculture requirements cause FOG discharge. The OR-ACWA model ordinance helps utilities adopt an ordinance that collaborates with other jurisdictions.

The U.S. EPA Industrial User Permitting Guidance Manual advises permit writers to create a permanent record of the procedures followed and the basis for the decisions made during the permitting process. Although such documentation might initially seem an unnecessary and a time-consuming task, it will inevitably play a critical role in any permit challenge, and, in the long run, it can save the permit writer a great deal of time and effort. The author of this presentation conducted a survey of fact sheet templates from utilities throughout Oregon.

(1.5 Hours)

Water providers discharge to sewer and landfill challenges

Steve Worley
Director of Public Works
City of Vancouver, WA

A central feature of the facility is the Pasco Resource Recovery Center, which is seamlessly integrated into the PWRF to optimize the recovery of valuable resources from the treatment process. This includes the production of biogas for revenue generation, nutrient recovery for agricultural use, and the application of reclaimed water on nearly 2,000 acres of farm circles. The facility also incorporates an innovative treatment technology utilizing rotating algal biofilm to remove nitrogen from the wastewater stream. This technology harnesses atmospheric carbon to cultivate algae, resulting in annual carbon capture equivalent to 8,000 acres of forest land, significantly benefiting the environment while ensuring the production of high-quality effluent that meets rigorous regulatory standards for land application.

(45 Min)

FOG Software and DATA Management

Morgan Crowell
Strategic Product Manager
SwiftComply
Bend, OR

The key to safeguarding the future of water is by providing compliance experts with the tools, data and customer support you need to make more informed compliance decisions. SwiftComply automates administrative tasks and organizes your data so you can focus on making a greater impact. Conducting inspections is part art, science, communication, and a large part preparation. Inspections

(45 Min)

Online cloud-based platform for FOG professionals

Sam Mcleod
Vice President
BMP Compliance Group

Columbus, OH

FOG BMP is an interactive web-based program that connects Food Service Establishments, Liquid Waste Hauling Companies and Municipalities through the use of tools and training, enabling them to manage all aspects of FOG handling from one central hub. Whether you need to create a FOG program or enhance your current FOG program, FOG BMP provides your municipality with all of the tools to be in full compliance with EPA standards. presentation will provide a basic template of the steps required to sort out the classification (or not) of an industry, resources that are available to understand background and context of categorical processes and will walk through several examples of classification to provide tools and tips that can be applied to Industrial Users in a POTW collection system.

(45 Min)

Enforcement case study

Frank Dick
Wastewater Engineering Supervisor
City of Vancouver, WA

Enforcement is an important factor within an Industrial Pretreatment Program. Establishing the legal authority to condition or prohibit discharges, to control discharges through permitting, to require periodic reports, to inspect non-domestic facilities and to take enforcement action. The case study gives the opportunity to take a closer look on how enforcement works and improves the program all together.

(45 Min)

EPA Update

Jay Pimpore
Pretreatment Coordinator
EPA Region 1
Boston, MA

EPA Update to include what we are seeing in Region 1 - how we are handling NPDES permits with PFAS requirements and an overview of PFAS results to date.

(45 Min)

Environmental Compliance

Nick Jenness
Utilities Department
Environmental Compliance Analyst
City of Bend, OR

The presentation titled "Understanding NELAC and NEFAP Certifications: Ensuring Data Integrity and Ethics in Industrial Pretreatment" delves into the crucial role that these certifications play in maintaining high standards of environmental data quality, with a specific focus on industrial pretreatment processes. NELAC (National Environmental Laboratory Accreditation Conference) and NEFAP (National Environmental Field Activities Program) certifications are pivotal in ensuring the accuracy and reliability of environmental testing and field sampling, respectively. This presentation

contrasts the two certifications, highlighting their distinct scopes, standards, and accreditation processes, while underscoring their shared goal of fostering trustworthy environmental data.

(45 Min)

PFAS Source Control Strategies

Amanda McGarry
Environmental Services Specialist
Clean Water Services
Hillsboro, OR

With regulatory uncertainty surrounding per- and polyfluoroalkyl substances (PFAS) for wastewater utilities, PFAS monitoring efforts are critical to understand the regional scope and impact on Oregon wastewater treatment facilities. Starting in 2019, Clean Water Services (CWS) developed an internal multi-departmental group called the PFAS Investigation Team. The team started monitoring CWS' influent, effluent, biosolids, and select industrial users within the Pretreatment Program.

(45 Min)

Breweries and wastewater challenges

John Mercer
Brewery Wastewater Design
Owner
Tucson, AZ

In the past 20 years, craft breweries have gone from a novelty and a destination to being ubiquitous. It's hard to find a town anywhere that doesn't have a brewery- or two. However, 1 small packaging brewery can have a BOD load equivalent to 100 houses. Not to mention solids, temperature, and pH concerns. Come learn about beer, breweries, wastewater, and common methods breweries use to achieve compliance with local discharge limits.

(45 Min)

Pretreatment's role in Enterprise Compliance – Keeping the Boss Happy

Eric Snell
Product Lead for NJBSoft Pretreatment
SAMS
Phoenix, AZ

Keeping the utility compliance manager or management team informed and up to date on the overall utility compliance status can be a challenge for any program manager. It can also interfere with the daily required activities that 'must' be done to keep the compliance engine running. Inspections, sampling, survey and review cannot be skipped to gather information for the management team. NJBSoft has been providing a purpose-built pretreatment module in its SAMS solution for over 10 years. Creating individual workflows for the pretreatment team, industries,

haulers and food service establishments including stakeholder portals and mobile applications has been our focus.

(45 Min)

Criminal Case Study

Eric Martenson
Resident Agent in Charge
Criminal Investigation Division, US EPA
Portland, OR

Mr. Martenson will give a presentation on a plating shop that was discharging to an approved POTW in violation of pretreatment standards after employees tried to fool inspectors with non- functioning equipment. The plating shop's owner also made multiple false statements in an attempt to illegally dispose of hazardous wastes as non-hazardous waste in order to save money.

(45 Min)

Enhancing Pretreatment Program with Smart Utilities and Digital Solutions

Joshua Balentine
Manager, Client Services
Brown and Caldwell
Memphis, TN

This presentation will discuss the status quo for pretreatment programs across the country, and detail how these programs can be enhanced with digital solutions. These digital solutions include smart sensors which provide real-time and continuous analysis of water quality parameters such as BOD, TSS, COD, nutrients, and pH. This smart utility network can be expanded to serve as an early warning system for the POTW, such as detecting abnormal loadings discharged from industrial users

(45 Min)

PFAS Contamination in Wastewater and Biosolids Subplot

Jean Waters
Program Manager, PPRC
City of Everett, WA

This presentation will share the results of a survey conducted in EPA Regions 8, 9, and 10 by the pollution prevention (P2) professionals who were part of the 2023 P2 West task force on PFAS in wastewater. Small (less than 14 MGD) treatment plants were queried as to their concern and readiness to deal with PFAS. The presentation will be interactive, helping all in the attendance strategically plan for surveying of potential industrial PFAS sources, sampling of potential sources, providing education to industrial, commercial, and residential PFAS sources, providing best management practices, and planning for the future.

(45 Min)

Industrial Wastewater Compliance

Zachary Foster
Environmental Compliance Specialist
City of Eugene, OR

The Beer brewery wastewater constituents, and options for regulators for permitting or otherwise. The presentation has case studies from breweries as well as examples of how the City of Eugene handles these waste streams.

(45 Min)

All Things Samplers

Jason Morse
VP of Sales and Service
Whitney Equipment
Portland, OR

Whitney Equipment has supplied ISCO Samplers to customers in the PNW for 50 years. During this time, we have helped with common wastewater sampling needs, industrial discharge monitoring, watershed monitoring, COVID monitoring, and most recently illicit drug monitoring at Oregon Correction Facilities. Where there is a sampling need, we can help. Sampling isn't just about the sampler; we are often challenged with many needs to facilitate taking the sample.

(45 Min)

Pretreatment 101/Breweries

Randy Bean
RAB Consulting & Services
Williston, VT

Discharges from breweries, similar beverage businesses, and specialty food industries have been rapidly growing in the past decade. The process wastewater discharged from these industries is very different from domestic sewage. The discharges from these industries into a WWTF can have significant impacts on its operations and costs, the ability to connect future projects to the system, and compliance with NPDES permit limitations. This class will provide an understanding of the pollutants discharged from these industries, their impacts on WWTFs, and guidance and tips on how to inspect, sample, and control the discharges from these industries

(45 Min)