Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Package Lift Stations for FAST Retrofits

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way STE 112

City: Canby State: OR Zip: 97013 Phone: 503-420-8390

Summary of Lesson content: Retrofits of a lift station can be very time consuming, and require expensive engineering in order to do a simple retrofit. Learn how fast and simple you can retrofit your lift station and discuss the advantages to each.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation:

30+ years in the pump business working for distributors and manufactures.

Education (High School, Upgrades, Colleges and Degrees):

1992 Graduate, Western University

Professional Registration/Certification:

Certified Level 2 Training Vogelsang Pumps

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

Return Completed Form To:

OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Large fuel Spills And How do they Affect your water And wastewater Systems

Presenter: MARK LANDAU Title: OPERATIONS MANAGER

Employer: City of Monmouth Address: 401 N. Hogan Rd.

City: Monmouth State: OR Zip: 97361 Phone: 503-838-2173

Summary of Lesson content: fuel Spills in Monmouth. How THE water And wastewater Systems were Affected. Steps TAKEN, Testing, monitoring, Air Quality, Disposal, CLEAN up, DEQ involvement, STAKE holders, meetings held.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: on Site for 19 days on Such incident. in water/wastewater industry for 26+ years.

Education (High School, Upgrades, Colleges and Degrees): High School, Some College, State Certified water/wastewater, 26+ years of CEU classes.

Professional Registration/Certification: State Certified WASTE water C II / T II

WATER D II / T I

Related papers/instruction you have presented:

Title: SAME AS ABOVE Date: Nov. 2021 Event: OAWU @ Spirit Mnt.

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
PNCWA PAST PRESIDENT, CURRENT Board member Date: June 2003 TO CURRENT

_____ Date: _____

Course sponsor: PNCWA - west Central Section

Signature of Instructor: Mark A. Landau Date: Feb 1, 2022

DO NOT WRITE BELOW THIS LINE

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: "LARGE FUEL SPILLS"

Presenter: MATT JOHNSON Title: MONMOUTH WATER OPS MANAGER

Employer: CITY OF MONMOUTH Address: 401 HOGAN RD

City: MONMOUTH State: OR Zip: 97361 Phone: 503 838 2173

Summary of Lesson content: "LARGE FUEL SPILLS" HOW DO THEY AFFECT YOUR WATER AND WASTEWATER SYSTEMS? FUEL IN COLLECTION SYSTEM, TREATMENT PLANT. FUEL IN UTILITY TRENCHES.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: WATER OPERATIONS MANAGER FOR CITY OF MONMOUTH DURING A 14,000 GALLON UNDERGROUND FUEL SPILL IN MONMOUTH

Education (High School, Upgrades, Colleges and Degrees): AMITY HIGH SCHOOL

Professional Registration/Certification: WATER TREATMENT AND DISTRIBUTION 2, WATER FILTRATION ENDORSEMENT, WASTEWATER TREATMENT AND COLLECTIONS 2, CROSSCONNECTION SPECIALIST

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
OAWU BOARD MEMBER Date: 2015 - PRESENT

_____ Date: _____

Course sponsor: CITY OF MONMOUTH

Signature of Instructor: [signature] Date: 2/2/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Eugene's Automotive Sector Stormwater Program

Presenter: Jon Wilson Title: Regulatory Services Workgroup Lead

Employer: City of Eugene Address: 410 River Ave

City: Eugene State: Or Zip: 97402 Phone: _____

Summary of Lesson content: Focus on intial development and ongoing implementation of the automotive sector stormwate program and will also highlight the work group resources needed, along with collaboration with other programs and work groups that have contributed to the program's success for the City of Eugene.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: _____

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Natural Resources and Ecosystems NC State University; Certificate of Applied Sciences Advanced GIS Greenville Technical College.

Professional Registration/Certification: Certified Stormwater Manager from American Public Works Association

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
APWA, ACWA, AWWA Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: 02/24/2025

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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The City of Eugene's Automotive Sector Stormwater Program:

The City of Eugene's municipal stormwater discharge permit was renewed by DEQ in 2021, and new permit requirements necessitated the development of an automotive sector stormwater program. In addition to automotive facilities, the scope of this program also includes the marine and powersports businesses within the City of Eugene's Urban Growth Boundary. This sector was chosen for its high potential to directly impact water quality due to the nature of material used and industrial practices commonly performed at these types of businesses. The focus of this program is to provide education/outreach to identified businesses and conduct inspections to assist with compliance efforts.

Today's presentation will focus on the development, initial, and ongoing implementation of the automotive sector stormwater program and will also highlight the workgroup resources needed, and collaboration with other programs and work groups that have contributed to the program's success.

Presenter Bios:

Contrail Smith is the City of Eugene's Regulatory Supervisor and Industrial Pretreatment Coordinator. He began his public service career in Klamath Falls as a Wastewater Treatment Operator and has been with the City of Eugene for more than thirteen years where he has held several positions including Biosolids Technical Lead and Facilities Maintenance Supervisor. Contrail won Treatment Plant Operator of the Year of the West Central Oregon Section in 2015 and holds Level IV Certifications in both Wastewater Treatment and Collection System Operation in the State of Oregon.

Jon Wilson is the Regulatory Services Workgroup Lead and has been with the City of Eugene for 16 years. The programs this workgroup is responsible for include industrial pretreatment, industrial and commercial stormwater, mobile waste hauling, and the Fats Oils & Grease program. Before moving to Eugene, Jon worked for an environmental consulting firm and helped municipalities comply with their stormwater permit requirements. Jon earned a Bachelor of Science in Natural Resources with a concentration in Ecosystem Assessment from NC State University, a Certificate in Applied Science in Advanced Geographic Information Systems from Greenville Technical College, and has been designated as a Certified Stormwater Manager by the American Public Works Association.

Trevor Polivka is an Environmental Compliance Specialist with the City of Eugene and has been in the role for a bit over a year now. He was initially hired as a limited duration employee for the commercial automotive stormwater program but has since been brought on full time with more focus on the industrial pretreatment part of the program. Some of his more recent experience that has lead him there has been working in QA/QC for a food

manufacturing facility in Springfield, OR and working in a QA/QC, R&D, and EHS role with a large aluminum anodizer out of Fridley, MN. He is originally from the Midwest and earned his Bachelor of Science in Biochemistry with a minor in Neuroscience from the University of Minnesota – Twin Cities.

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Get The F.R.O.G. Out

Presenter: Dan Lawrence Title: Western Region Sales Manager

Employer: RootX Address: Po Box 7326

City: Salem State: OR Zip: 97303 Phone: (800) 844-4974

Summary of Lesson content: Chemical root and grease control for sanitary sewer systems.

How & why roots grow in sewers, chemicals used for root control, Microbial vs Enzymes for FOG control and Emulsifier.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 27 yrs. of sewer & wastewater industry experience

Over 150 Seminars, courses taught, Presenter for VA pesticide applicators license recertification.

Education (High School, Upgrades, Colleges and Degrees):

McNary High School, Chemeketa Community College 2 yrs

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: Use Live Microbials To Attack FOG Date: 08/2023 Event: Cleaner Magazine

Title The Solution for the FROG Date: 10/2024 Event: Municipal Sewer & Water Magazine

Professional Organizations/Activities:

To many to list, I work with regional orginizations like this one in 15 states Date:

Date:

Course sponsor:

Signature of Instructor: Date:

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Sampling wastewater and streams for NPDES and WPCF permits

Presenter: Emma Prichard Title: NPDES Permit Writer - Oregon DEQ

Employer: Oregon DEQ Address: 700 NE Multnomah St. Ste 600

City: Portland State: OR Zip: 97232 Phone: 503-875-7301

Summary of Lesson content: Training on DEQ's new Guidance Document titled "Guidance for NPDES and WPCF Permit Monitoring". Sampling of pH, temperature, BOD, TSS, and bacteria.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 7 years of experience in municipal wastewater operations and environmental monitoring for a major municipality prior to current role writing NPDES permits at DEQ.

Education (High School, Upgrades, Colleges and Degrees): Portland State University

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Emma C Prichard Digitally signed by Emma C Prichard Date: 2022.12.06 15:51:56 -08'00' Date: 12/6/2022

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Vendor Tour

Presenter: Moderator: Lisa Erkert Title: Environmental Specialist I

Employer: EWEB Address: 3957 Hayden Bridge Rd

City: Springfield State: OR Zip: 97477 Phone: 541-685-7124

Summary of Lesson content: Interactive time for attendees to learn about new technologies, equipment, and useful tools for water and wastewater sectors by taking a tour of this year's vendors. Signatures from vendors checked and then schedule card will be stamped for attendance.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Three years experience at Delta Environmental operating small wastewater & public water systems and six years in source protection/water quality with EWEB.

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Science in Environmental Science at the U of O

Professional Registration/Certification: Wastewater Collection level 1, Wastewater Treatment level 1, Water Treatment level 1

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: PNWS-AWWA Cascade to Coast Subsection

Signature of Instructor: Lisa Erkert Digitally signed by Lisa Erkert Date: 2025.02.06 11:44:52 -08'00' Date: 2/6/25

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: When dumb PIGS get smart - Innovative tech for inspection of force mains and other pressurized pipe

Presenter: Mike Lemmen Title: Director

Employer: SFEGlobal Address: 1313 East Maple Street

City: Bellingham State: WA Zip: 98225 Phone: 360.220.7224

Summary of Lesson content: Presenting project details from two force main pigging and inline condition assessment projects with Clackamas County WES. Discussion will include planning and preparation, on-site activities, and verified results. Pump station analysis determined reduced pumping capacity was due to the force mains, not the lift stations.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 30 years in the water/wastewater industry

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: _____ Date: March 5, 2025

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Using Artificial Intelligence to Code Sewer Infrastructure

Presenter: Jim Brown Title: Sales Representative

Employer: True North Equipment Address: 3150 SE Century Blvd., Suite 100

City: Hillsboro State: OR Zip: 97123 Phone: 503-319-8488

Summary of Lesson content: This class introduces Artificial Intelligence in Sewer/Stormwater Inspection coding and reporting. With the development of AI reporting software, the class will see how software has been trained to provide accurate observation recognition as compared to the standard we use today.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 17 years experience in sanitary sewer cleaning and inspection, 14 year member of Oregon APWA Education Committee.

Education (High School, Upgrades, Colleges and Degrees): Specialized training with reporting software, attended NASSCO training.

Professional Registration/Certification: none

Related papers/instruction you have presented:

Title: Phased Assessment for Sewer Sys Date: 3/2021 Event: Oregon APWA Short School, Bend, OR.

Title Pipe Assessment 101 Date: 10/2022 Event: Oregon APWA Short School, Newport, OR.

Professional Organizations/Activities:

Oregon APWA Education Committee Member since 2008 Date: started 9/2008

Washington Association of Water & Sewer Districts Date: 9/2019

Course sponsor: _____

Signature of Instructor: Jim Brown Digitally signed by Jim Brown DN: cn=Jim Brown, c=US, o=True North Evironmental Equipment, ou=Sales, email=jbrown@truenorthenviro.com Date: 2020.01.07 10:24:18 -08'00' Date: 2/13/24

DO NOT WRITE BELOW THIS LINE

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Canby, OR 97013-0577

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Advancements in Wastewater Collection System Monitoring

Presenter: Brogan Quist Title: VP of Sales

Employer: SmartCover Systems Address: 2110 Enterprise Street

City: Escondido State: CA Zip: 92029 Phone: 7602078348

Summary of Lesson content: This presentation focuses on how several local Oregon agencies can adopt and utilize unique monitoring technology, which gives them data in the field that they did not have before. Remote monitoring is now a mainstream tool for utilities to monitor level, flows, hydrogen sulfide and more, as they battle several different challenges

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.)
Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Over 12 years of experience in the wastewater and technolog First started in 2008 installing and maintaining devices in the field.

Education (High School, Upgrades, Colleges and Degrees): Bachelor's of Science Degree from Westmont College

Professional Registration/Certification: CWEA, WEF

Related papers/instruction you have presented:

Title: Similar to above Date: June 3-4 2025 Event: Western Washington Short School

Title Similar to above Date: September 23 20 Event: IRWA Fall Conference

Professional Organizations/Activities:
Western WA short school, WEF Collections, WEFTEC, RWAU (rural water associati Date: Various dates in 2025

Date:

Course sponsor:

Signature of Instructor: Date:

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Date Evaluated: By: Approved: Yes_____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Brewery Wastewater Permitting

Presenter: Zach Foster Title: Environmental Compliance Specialist

Employer: City of Eugene Address: 410 River Ave

City: Eugene State: Or Zip: 97402 Phone: _____

Summary of Lesson content: History of the Industrial Pretreatment Program, EPA's "Significant Industrial User" designations, and how wastewater regulations apply specifically to production breweries. Case studies are included with varying permit requirements. Regulatory alternatives and proactive measures, and BMP's are also discussed.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: _____

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: 02/24/2025

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Brewery Wastewater Permitting Abstract:

Breweries produce and discharge large volumes of industrial wastewater with corrosive contaminants that may be easily overlooked but can have large impacts on receiving streams, conveyance systems, and worker health and safety. In this presentation, Zach discusses the history of the Industrial Pretreatment Program, EPA's "Significant Industrial User" designations, and how wastewater regulations apply specifically to production breweries. Case studies are included using several examples with varying permit requirements. Regulatory alternatives and proactive measures are also discussed for breweries that do not necessarily qualify for a permit but still require oversight or Best Management Practices to prevent damage and disruptions to wastewater treatment facilities and conveyance systems.

Presenter Bio:

Zach Foster is an Environmental Compliance Specialist with the City of Eugene and manages Industrial Pretreatment Permits. He has been in this role for two years. Prior to coming to work for the City of Eugene, he worked for eight years at Hop Valley Brewing, a regional brewery in Eugene. He was Quality Manager and managed the QA/QC laboratory, as well as performing various other roles including brewing, recipe development, automation programming and IT, and EHS.

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Alternative to Gravity Sewer - Pressure Sewer

Presenter: Tim owens Title: _____

Employer: Correct Equipment Address: 300 S Redwood Street #135

City: Canby State: OR Zip: 97013 Phone: 503.582.0555

Summary of Lesson content: The Industry Misunderstanding of Low-Pressure Sewer: Flow Study and Analysis of Gravity vs Low Pressure Collection Systems.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: _____

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Smart Water Meters and Acoustical L Date: 2021-2023 Event: ERWOW, OAWU, AWWA/PNCWA

Title Cellular Based Telemetry Date: 2015-2023 Event: ERWOW, OAWU, AWWA/PNCWA

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Tim Owens Digitally signed by Tim Owens Date: 2023.10.30 16:29:59 -07'00' Date: 10/30/2023

DO NOT WRITE BELOW THIS LINE

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Bypass Pumping, contingency planning, and dedicated bypass systems.

Presenter: Don Ehly Title: Outside Sales Representative

Employer: Xylem Dewatering Address: 9625 Tualatin-Sherwood Rd

City: Tualatin State: OR Zip: 97062 Phone: 971-429-4250

Summary of Lesson content: basics of bypass pumping including tips to be successful, why it is important to have an emergency plan for your existing pump stations, and what are the benefits of having a dedicated bypass system installed at your pump station.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 15 years of bypass pumping in the rental industry for the oreg

Education (High School, Upgrades, Colleges and Degrees): GED

Professional Registration/Certification: Xylem -Basic Hydraulics and Portable Pump System Design Godwin Pumps 101

Related papers/instruction you have presented:

Title: Bypass Pumping Date: 11/8/23 Event: APWA School

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Matthew Etzel

Signature of Instructor: Don Ehly Digitally signed by Don Ehly Date: 2025.03.03 07:39:15 -08'00' Date: 3/3/25

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Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Oregon City Private Lateral Rehabilitation Program - Challenges and Solutions

Presenter: Kenneth R Cannady-Shultz Title: Project Engineer

Employer: City of Oregon City Address: 13895 Fir St

City: Oregon City State: OR Zip: 97045 Phone: (971) 204-4601

Summary of Lesson content: Private sewer laterals constitute a significant source of I&I for Oregon City's sewer system; the City instituted a Private Lateral Rehabilitation program to address failing laterals at City expense using City funds. Trenchless technologies have proven key to keeping property owners happy and prices low.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See attached.

Education (High School, Upgrades, Colleges and Degrees): BS in Civil Engineering from Oregon Tech, MS in Civil Engineering from Oregon State University

Professional Registration/Certification: PE (OR, 94861PE)

Related papers/instruction you have presented:

Title: Oregon City Inflow and Infiltration Program - Challenges and Solutions Date: 2/12/2025 Event: NASTT PNW Trenchless Symposium

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

NASTT, PNW Chapter Conference Presenter Date: February 12, 2025

APWA, Oregon Chapter Conference Attendee Date: MAy 2-5, 2023

Course sponsor: Pacific Northwest Clean Water Association

Signature of Instructor: Kenneth R Cannady-Shultz
I am the author of this document Date: 2/21/2025

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Instructor Background And Information Form

Additional Information:

My education background is grounded in water resources and environmental engineering, and I've been working and/or performing research related to water resources and quality for about a decade. My professional career has been heavily focused on water and sanitary sewer system design, including piping, pump stations, and treatment plants (both water and sanitary sewer), as well as hydraulic modeling and master planning for these systems.

I've designed and overseen construction of thousands of feet of sewer and water main, both as a consultant and agency engineer. This experience includes expanding systems into new service areas and repairing existing pipes. Some pipes were replaced in a new alignment with old piping abandoned in place, others were replaced-in-place via trenching, and my current focus is on low and no excavation rehabilitation techniques (i.e. pipe bursting, CIPP lining, slip lining, HDD). Through some unique experience I gained while working as a consultant, I've also seen quite well how these systems operate under high stress and unusual conditions, such as post-wildfire, high-volume directional flushing, and highly restrictive discharge requirements.

In my current role as Oregon City's Sanitary and Storm Sewer Capital Project Engineer, my primary duty has been overseeing our I&I program. Clackamas Water Environmental Services (WES) has offered several partner communities, including Oregon City, a 33% funding match for all money spent on reducing I&I. The Tri Cities WWTP will require a substantial expansion if I&I is not addressed by 2040, so we're all working together to reduce I&I by 65% before that deadline. Since Oregon City is the largest community contributor to the WWTP and also has the oldest and most degraded collection system, we've been leading the charge on removing I&I and receiving the WES match funds.

Oregon City has been paving the way for our partners in developing a comprehensive approach to identifying and removing I&I using prior successes by other sewer systems (i.e. Clean Water Services, Sweet Home, Portland, Sandy, McMinnville, St. Helens) and data we collect. As the engineer overseeing the sewer system and this program, I've been spearheading development of programs, policies, design guidelines, specifications, and monitoring plans in concert with Wallis Engineering, our Program Management consultant. I've heavily leveraged my design, research, and educational backgrounds to benefit the program; as a result, almost no decision, policy, or program is made that wasn't substantially influenced and driven by me personally.

One key tool the I&I program has developed is the Private Lateral Rehabilitation program. Oregon City modelled it's approach to rehabilitating laterals on private property after Clean Water Services' program, but we've had to heavily modify it to match our community and system needs. We settled upon a contractor-led investigation and design model for private lateral rehabilitation, deciding against doing any advance investigation of private sewer systems. The City performs these inspections and rehabilitations in conjunction with mainline work through public improvement contracts.

Through completing one project using this approach and having two more underway, I've learned a lot about the many fine points that distinguish laterals best suited to rehabilitation by various methods. In particular, I've seen the joint benefits to property owners, the City, and contractors in heavily leveraging pipe bursting for rehabilitating laterals, with other methods (trenching, CIPP, HDD) having more specialized use cases. Performing this work has also given me many insights into the many different and strange ways that older properties' private sewer systems have been cobbled together over many years. Older homes and businesses are often a synthesis of the original drain system built to serve the original (or a neighbor's) home or business and several branches and modifications overlain as the original structure was expanded, rebuilt, or consolidated.

Performing this work has given me a unique perspective on working with old public and private pipe systems - I've developed, through experience, an appreciation for the value of investigating the holistic history of a project area. During construction, I've often found insights derived from the development history of a group of properties much more helpful in predicting how systems are laid out prior to detailed investigation than pouring though reams of as-builts and internal records. Certain patterns of development are quite reliable for buildings constructed at different times; our GIS and other records often don't reflect these patterns, and more often than not, my informed intuition is more accurate than our records. I certainly don't know precisely where the existing pipe was laid (another insight I've gained is how site particulars, most of which aren't knowable until you've started digging, strongly dictate the specific sewer alignment on properties), but I tend to have some idea of what properties are likely to be connected to a sewer main and how they might be partied together.

Finally, overseeing this work has given me an idea of what a realistic budget looks like for this work and how to keep public support strong as we significantly impact dozens or hundreds of properties at once.

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Reducing Operating Costs with Energy Efficiency

Presenter: Nick Lorenz Title: Energy Trust Outreach Manager

Employer: Energy350 Address: 1033 SE Main St #1

City: Portland State: OR Zip: 97214 Phone: 541-760-1562

Summary of Lesson content: An overview of energy use in water and wastewater treatment. By understanding how and where energy is used we can identify common opportunities and utilize Energy Trust incentives to support project completion.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Production efficiency, project management.

Education (High School, Upgrades, Colleges and Degrees): University of Vermont - Bachelor of Science. University of Oregon - Executive MBA.

Professional Registration/Certification: PMP (Project Management Professional)

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: AWWA/PNCWA Cascade to Coast Short School

Signature of Instructor: Nick Lorenz Digitally signed by Nick Lorenz Date: 2025.03.05 15:41:56 -08'00' Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

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Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Case Studies in Computer Vision & Cloud in Sewer Assessment and Rehab Planning

Presenter: Andrew Florita Title: Account Executive

Employer: SewerAI Address: 1646 N. California Blvd Ste 510

City: Walnut Creek State: CA Zip: 94596 Phone: 929-373-6365

Summary of Lesson content: An in-depth look at the use of a new and innovative approach to capital planning and asset management through leveraging AI Computer Vision, Photogrammetry and Cloud software tools by several large utilities, including the City of Houston, Los Angeles County Sanitation Districts, and the City of Phoenix.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Industry Standards & Compliance (NASSCO)

Education (High School, Upgrades, Colleges and Degrees):

BS Agricultural Business from Cal Poly, San Luis Obispo

Professional Registration/Certification: (NASSCO, PACP/LACP/MACP) - Certificatate Number U-0817-07008923

Related papers/instruction you have presented:

Title: Cloud Computing Date: 07/11/2024 Event: CWEA Mid-Summer Collection Systems Seminar and Expo

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: FOG Inspection 101 and One Water concept

Presenter: Destin Ranch Title: Environmental Compliance Specialist

Employer: City of Eugene Address: 410 River Ave

City: Eugene State: Or Zip: 97402 Phone: _____

Summary of Lesson content: Destin will go over the basics of performing FSE Fats, Oils & Grease (FOG) inspections including crucial things to look for the greatest positive impact at reducing FOG in the wastewater conveyance system.

Extra steps to take such as providing education and outreach about stormwater catch basin protection and maintenance.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: All aspects of the City of Eugene's Wastewater Industrial Pretreatment and Stormwater Programs as an Environmental Compliance Specialist for over 10 years.

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Destin Ranch Date: 2/25/2025

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Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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FOG Inspection 101 and One Water Abstract:

Food Service Establishments (FSE's) can very quickly reduce the capacity of your community wastewater conveyance system or potentially cause sanitary sewer overflows in their area. FSE's often fail to effectively implement Best Management Practices and neglect to maintain an important part of their kitchen equipment – the grease interceptor (GI). FSEs can also have a negative impact on the stormwater conveyance system by improperly managing their used cooking oil or by performing kitchen maintenance activities outside, which is unfortunately quite common.

In this presentation Destin will go over the basics of performing FSE Fats, Oils & Grease (FOG) inspections including crucial things to look for to have the greatest positive impact at reducing FOG in the wastewater conveyance system. He'll also talk about extra steps to take such as providing education and outreach about stormwater catch basin protection and maintenance, and some best practices to reduce or eliminate illicit discharges caused by FSEs.

Presenter Bio:

Destin Ranch started in the private sector overseeing the industrial pretreatment compliance activities associated with the wastewater discharge permit for an archery equipment manufacturer. He has since been involved in all aspects of the City of Eugene's Wastewater Industrial Pretreatment and Stormwater Programs as an Environmental Compliance Specialist for over 10 years and currently has the privilege of being solely focused on the FOG program which oversees around 1000 Food Service Establishments.

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Sewer Rehabilitation in Access Limited Sites

Presenter: Brendan O'Sullivan, P.E. Title: Technical Principal

Employer: Consor Address: 1 SW Columbia St., Suite 1700

City: Portland State: OR Zip: 97204 Phone: 503-225-9010

Summary of Lesson content: Overview of how to approach sewer improvements in difficult to access sites. Discussion of developing selection criteria, technology alternatives analysis, design approach, and how to develop contra

documents to address risks and challenges associated with site constrains. Will include project case studies

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 20 years of experience in conveyance engineering, small & large dia. pipeline design (gravity & pressure), and trenchless technologies (rehabilitation and new installation).

Education (High School, Upgrades, Colleges and Degrees): BS Civil Engineering, University of Portland, Oregon

Professional Registration/Certification:

Professional Engineer, Licensed in OR (75681), WA (51817), TN (128135), and TX (147971)

Related papers/instruction you have presented:

Title: Pipe Ramming for the Environment Date: 2/12/2025 Event: PNW NASTT Symposium

Title LOIS - Buoyant Sewer Inspection Date: 10/3/2025 Event: APWA-OR Fall 2024

Professional Organizations/Activities:

North America Society of Trenchless Technology Date: 2009 to present

WEF/PNWCA Date: 2016 to present

Course sponsor:

Signature of Instructor: Brendan V. O'Sullivan Date: 2/27/2025

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Date Evaluated: By: Approved: Yes No

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: DEQ Wastewater Operator Certification Basics

Presenter: Kimi Grzyb Title: Wastewater Operator Certification Coordinator

Employer: Oregon DEQ Address: 700 NE Multnomah Street, Ste. #600,

City: Portland State: Or Zip: 97232 Phone: 503-229-5349

Summary of Lesson content: This presentation will cover the application and certification process for wastewater operators and provide an opportunity for feedback.

program feedback.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: DEQ Wastewater Operator Certification Program Coordinator

Education (High School, Upgrades, Colleges and Degrees): PhD Environmental Sciences, MS Molecular Biology, BS Biology

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

OESAC Board Member

_____ Date: _____

Course sponsor: Cascade to Coast Short School

Signature of Instructor: Kimi Grzyb Digitally signed by Kimi Grzyb Date: 2018.10.26 08:24:10 -07'00' Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Math for Operators

Presenter: Brian Stevens Title: Operation Specialist

Employer: Oregon Environmental Solutions Address: 89731 Indian Creek Rd

City: Swisshome State: OR Zip: 97480 Phone: 541-720-5179

Summary of Lesson content: : This course will cover math and hydraulics skills used by water and wastewater system operators. Upon finishing the course, the student will demonstrate the ability to solve problems in math and hydraulics in a logical, legible and easily followed format. Topics will include unit conversions, loading, area/volume, dosing, and more.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: Eighteen years experience in water and wastewater. Four years teaching Environmental Technology at LBCC. Eight years of laboratory technician experience.

Education (High School, Upgrades, Colleges and Degrees): AAS Water/WW Technology from LBCC. Siuslaw High School graduate (2005).

Professional Registration/Certification: Oregon WW Treatment IV, Oregon WW Collections IV

Related papers/instruction you have presented:

Title: Date: Event:

Title Date: Event:

Professional Organizations/Activities:

Date:

West Central Oregon Section PNCWA Date: Since 2017

Course sponsor: Cascade to Coast Section of the AWWA

Signature of Instructor: Date: 02/21/2025

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Date Evaluated: By: Approved: Yes No

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Canby, OR 97013-0577

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: WCOS Lab Training

Presenter: APRIL STRATTON Title: LAB TECHNICIAN

Employer: WATERLAB CORPORATION Address: 2603 12th St SE

City: SALEM State: OR Zip: 97302 Phone: 503-363-0473

Summary of Lesson content: LAB PROCEDURES → BOD & TSS & troubleshooting

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I've been employed by waterlab for ~9½ yr and have seen a variety of samples & situations w/ regards to BOD/TSS.

Education (High School, Upgrades, Colleges and Degrees): Central Carolina Comm. College '96 AAS Western Oregon Univ. 2013 Bachelor Degree Chemistry, Minor Forensic Science

Professional Registration/Certification:

Related papers/instruction you have presented:

Title: Date: Event:

Title Date: Event:

Professional Organizations/Activities:

Date:

Date:

Course sponsor:

Signature of Instructor: April Stratton Date: 3/29/23

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Upgrade your Air and Save - Aeration Blower

Presenter: Yunsoo (Ryan) Song Title: Operations Manager

Employer: TNE Global Inc Address: 900-2025 Willingdon,

City: Burnaby State: BC Zip: V5C0J3 Phone: 5095945726

Summary of Lesson content: Blower overview and industry trend for high efficiency and clean technology

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 10 years experience for water and wastewater treatment blower application

Education (High School, Upgrades, Colleges and Degrees): Bachelor of Electrical Engineering and Commerce

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Blower overview and trend Date: 2023.06.12 Event: ACE Toronto 2023

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: Ryan Song Digitally signed by Ryan Song Date: 2025.03.05 20:45:03 -05'00' Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Thickening: Simple Process, Mixed Results

Presenter: Mario Benisch Title: _____

Employer: HDR, Inc. Address: 1050 SW 6th Avenue Suite 1800

City: Portland State: OR Zip: 97204 Phone: _____

Summary of Lesson content: Thickening is simple process but rarely provide consistent performance at any level, let alone consistent high performance. This lesson reviews what different technologies can accomplished, what designers an operators should consider, and what common pitfalls are encountered.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See resume

Education (High School, Upgrades, Colleges and Degrees):

MS in Environmental Engineering, 1998, University of Stuttgart, Germany

Professional Registration/Certification:

PE OR: 58988

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

WEF, PNCWA Date: Since 1998

_____ Date: _____

Course sponsor: HDR

Signature of Instructor: Benisch, Mario Digitally signed by Benisch, Mario DN: E=Mario.Benisch@hdrinc.com, CN="Benisch, Mario", OU=Users, OU=Portland-1050 SW 6th Ave, OU=Oregon, OU=United States, OU=Offices, DC=intranet, DC=hdr Date: 2024.02.28 12:58:26-08'00' Date: 1/27/2025

DO NOT WRITE BELOW THIS LINE

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Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Factors Impacting Dewatering

Presenter: Mario Benisch Title: _____

Employer: HDR, Inc. Address: 1050 SW 6th Avenue Suite 1800

City: Portland State: OR Zip: 97204 Phone: _____

Summary of Lesson content: Dewatering and disposal of biosolids accounts for the second largest operation cost in treatment facilities. This lesson discusses the many factors that impact dewatering (e.g. process design, polymer, external substrate, process chemicals, environmental), and strategies for improvising performance.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See resume

Education (High School, Upgrades, Colleges and Degrees):

MS in Environmental Engineering, 1998, University of Stuttgart, Germany

Professional Registration/Certification: _____

PE OR: 58988

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

WEF, PNCWA Date: Since 1998

_____ Date: _____

Course sponsor: HDR

Signature of Instructor: Benisch, Mario Digitally signed by Benisch, Mario DN: E=Mario.Benisch@hdrinc.com, CN="Benisch, Mario", OU=Users, OU=Portland-1050 SW 6th Ave, OU=Oregon, OU=United States, OU=Offices, DC=intranet, DC=hdr Date: 2024.02.28 12:58:26-08'00' Date: 1/27/2025

DO NOT WRITE BELOW THIS LINE

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Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Planing for Data Management and Visualization

Presenter: Mario Benisch Title: Senior Process Engineer

Employer: HDR Address: 1050 SW 5th Ave Suite 1800

City: Portland State: OR Zip: 97204 Phone: 503 449 3768

Summary of Lesson content: Many emerging tools like machine learning, digital twins, or advanced data analytics require data. This data should be vetted, interlocked, and include all necessary performance to evaluate performance. Most utiliti do not have the necessary infrastructure to support these tools and require planing to allocate the necessary resources.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: 30 years of managing, processing, and visualizing data for th purpose of evaluating treatment processes. Developed data management systems and treatment plant dashboards

Education (High School, Upgrades, Colleges and Degrees):

MS in Environmental Engineering, University of Stuttgart Germany, 1998

Professional Registration/Certification: PE OR: 58988

Related papers/instruction you have presented:

Title: DMS & DV Date: 2024 Event: PEWEA Conference

Title DMS & DV Date: 2024 Event: Washington Short School, Everett

Professional Organizations/Activities:

Date:

WEF, PNCWA Date: since 1998

Course sponsor:

Signature of Instructor: Benisch, Mario Digitally signed by Benisch, Mario DN: E=Mario.Benisch@hdrinc.com, CN="Benisch, Mario", OU=Users, OU=Portland-1050 SW 6th Ave, OU=Oregon, OU=United States, OU=Offices, DC=intranet, DC=hdr Date: 2025.01.27 08:04:56-08'00' Date:

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Process Control: How do I know if my plant is working correctly?

Presenter: Max Hildebrand Title: Operations Supervisor

Employer: City of Corvallis Address: 1304 NE 2nd St.

City: Corvallis State: Or Zip: 97339 Phone: 541-754-1757

Summary of Lesson content: To help O&M staff understand the importance of how each unit process should be operated. We will discuss the functionality of each process and how to track performance.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See Attached Resume

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:
PNCWA, WEF, AWWA Date: _____

_____ Date: _____

Course sponsor: Cascade to Coast Subsection, AWWA

Signature of Instructor: Max Hildebrand Digitally signed by Max Hildebrand DN: cn=Max Hildebrand, o=Carollo Engineers, ou, email=mhildebrand@carollo.com, c=US Date: 2018.01.09 11:57:15 -08'00' Date: 1/09/2024

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Max H. Hildebrand

Education

BS Business Management, Linfield College, 2003

AS Associate of Applied Sciences, Water/Wastewater Technology, Linn-Benton Community College, 1992

AS Associate of Liberal Arts, St. Leo College, Ft. Eustis, Virginia, 1990

Certifications

Level IV Certification in Wastewater Treatment, State of Oregon. Certification # 7447 issued 7/95

Level IV Certification in Wastewater Treatment State of Washington Certification # 8321

Level IV Certification in Wastewater Treatment, State of California. Certificate # 44195

Professional Associations

Pacific Northwest Clean Water Association, 2001 to present

Water Environment Federation, 2004 to present

Mr. Hildebrand specializes in the Startup and Commissioning of water and wastewater treatment systems. He has over 34 years of experience including more than 23 years of hands-on operational experience at four Class IV Wastewater Treatment Facilities in Oregon. His recent startup and commissioning experience includes:

- Morenci Water Treatment Plant in Morenci, Arizona.
- Water Pollution Control Plant West County Wastewater District in Richmond California.

Recently, Max has worked for over two years in a $2 B CIP Program for San Jose California. He was engaged in helping to prepare the O&M Staff as they move forward on 36 different projects effecting the Regional Wastewater Facility.

His experiences also include Writing Technical Documents that include O&M Manuals, SOPs, APES, Staffing Evaluations, Unit Process Operating Strategies, and Treatment Plant Audits.

In addition to Startup and Commissioning services, he has performed Condition Assessments, conducting Operability Reviews of complex drawings and 3D Models, provided troubleshooting of wastewater systems and optimizing facility processes.

Startup and Commissioning Services

- Performed startup and commissioning for West County Wastewater District, Wastewater Pollution Control Plant in Richmond California.
- Performed startup and commissioning for the Morenci Water Treatment Plant in Morenci, Arizona.
- Performed startup and commissioning for the Design Build Biosolids Management Program for DC Water, Washington DC.
- Performed Progressive Design Build Construction Manager/ General Contractor (CMGC) startup and commissioning Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater Management Commission, Eugene/ Springfield, Oregon.
- Developed startup and commissioning specifications, and language for the Construction Administration Plan for the San Jose Capital Improvement Program.

Plant Operations

- Operational lead for the City of Grants Pass Operational Strategies Initiative.
- Operational lead for the City of Grants Pass migration to the NetDMR electronic regulatory reporting requirement.
- Operations lead in the Clean Water Services Actiflo™ O&M/ APE Project.
- Task lead for the SJCWTP Strategic Initiatives for Albuquerque Bernalillo County Water Utility Authority (ABCWUA), New Mexico.
- Operational lead for Wastewater Treatment Plant Audits for California American Water. The treatment plants included: Indian Springs, Las Palmas, Carmel Valley Ranch, and Pasadera.
- Task lead for the City of Modesto, California's Staffing Evaluation for the Sutter Avenue and Jennings Road Wastewater Treatment Facilities.
- Task lead for the City of Sunnyvale, California's Wastewater Treatment Plant Staffing Evaluation.

Electronic Operations and Maintenance Manuals

- Prepared an OMSConnect Electronic Operations and Maintenance Manual (EOM) for the Lake Oswego/igard Water Program.
- Prepared an OMSConnect EOM LOIS Project for the City of Lake Oswego Oregon.
- Prepared a Wastewater Treatment Plant Operation and Maintenance (EOM) Manual for Three Rivers Longview/Kelso, Washington.

- Prepared an EOM for the Central Wastewater Treatment Facility, City of Tacoma, Washington.
- Prepared an EOM for the Alderwood Water and Wastewater District, Washington.

Operations and Maintenance Manuals

- Prepared an O&M Manual for the City of Redmond, Oregon's Wastewater Treatment Facility.
- Prepared an O&M Manual for the Odor Control System for Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Prepared an O&M Manual for the Linneman Pump Station, City of Gresham, Oregon.
- Prepared an O&M Manual for Foothills Road Pump Station for the City of Lake Oswego, Oregon.

Technical Reports

- Operating Strategies for Salem WTP including SOPs
- Prepared Sampling Analysis Plan for the City of Grants Pass WRP.
- Prepared Unit Process Operating Strategies for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared Unit Process Isolation Analysis for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared O&M Data, Work Sequence and Restriction, Training, Testing, and Startup Specifications for San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Prepared
- Prepared the Laboratory Testing Evaluation for Clackamas County Water Environment Services, Oregon.
- Performed an Operational Audit for the Starlink Facility for the City of Portland, Oregon.
- Prepared a Plan of Operation for the Alderwood Water and Wastewater District, Washington.

Owners Representative

- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations Coordinator for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Served as San Jose-Santa Clara Regional Wastewater Facility CIP Operations and Maintenance Liaison for the San Jose-Santa Clara Regional Wastewater Facility, San Jose California.
- Served as Owner's Representative for the Wilsonville Wastewater Treatment Facility, City of Wilsonville.
- Served as Owner's Representative for the Lake Oswego, Oregon Water and Wastewater Systems.
- Provided project management for DC Water, Washington, DC
- Served as Owner's Representative for the SCADA System Upgrade for the City of Newport, Oregon.
- Provided Program Management services for San Jose California Capital Improvement Program.

Operability Design Review

- Grants Pass Wastewater Restoration Plant Upgrade, Grants Pass Oregon.
- Influent Pump Station and Pretreatment Structure, Metropolitan Wastewater Management Commission, Eugene/Springfield, Oregon.
- Odor Control, Metropolitan Wastewater Management Commission (MWMC), Eugene-Springfield, Oregon.
- Biosolids Management Program, DC Water, Washington DC.

Troubleshooting

- City of Wilsonville, Headworks and Barscreen issues.

Awards

2002 Oregon Operator of the Year

2006 WEF Hatfield Award Recipient

Presentations:

- March 2017 AWWA Coast to Cascade Short School "Math for Operators, O&M Project Engagement"
- August 2014 Oregon Region Operators Conference "Math for Operators, "There is an App for that."
- May 2013 WEA of Utah: "There is an App for that."
- March 2013 Cascade to Coast Subsection Short School: Math for Operators.
- March 2012 Clackamas Short School: O&M Manuals: Good-Better-Best.
- March 2011 Cascade to Coast Subsection Short School: "The Wastewater Way."

Publications:

02/2013 WE&T Magazine: What every operator should know about Standard Operating Procedures (SOPs).

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Revolutionizing Sludge Dewatering

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way STE 112

City: Canby State: OR Zip: 97013 Phone: 503-420-8390

Summary of Lesson content: Why dewater your sludge? Find out how sludge can be dewatered and with what types of equipment. Each type of equipment has its positives and negatives. What are the essential features you want in your plant.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation:

30+ years in the pump business working for distributors and manufactures.

Education (High School, Upgrades, Colleges and Degrees):

1992 Graduate, Western University

Professional Registration/Certification:

Certified Level 2 Training Vogelsang Pumps

Related papers/instruction you have presented:

Title:_____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor:_____

Signature of Instructor: _____ Date: _____

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

Return Completed Form To:

OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Basics of Membrane Bioreactor (MBR) Technology

Presenter: Hiro Kuge Title: MBR Technology Manager

Employer: Kubota Water and Environment Address: 19910 N Creek Pkwy, Suite 100, WA 98011, USA

City: Bothell State: WA Zip: 98011 Phone: USA

Summary of Lesson content: Overview of Membrane Bioreactor (MBR) Technology, covering key aspects of its design, operation, and troubleshooting. Produce effluent that meets Class A recycled water standard. Achieve nitrogen and phosphorus limits.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: See Attached Resume

Education (High School, Upgrades, Colleges and Degrees): MS in Environmental Engineering, Osaka University
BS in Environmental Engineering, Osaka University

Professional Registration/Certification: See Attached Resume
See Attached Resume

Related papers/instruction you have presented:

Title: See Attached Resume Date: _____ Event: _____

Title See Attached Resume Date: _____ Event: _____

Professional Organizations/Activities:
See Attached Resume Date: _____
See Attached Resume Date: _____

Course sponsor: Goble Sampson

Signature of Instructor: _____ Date: 3/10/2025

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

Hiro Kuge

19910 N Creek Pkwy, Suite 100, Bothell, WA 9801 1

Mobile: +1 425 919-3308 Email: hiroo.kuge@kubota.com

AREAS OF EXPERTISE

Management of Plant Construction
Commissioning wastewater treatment plant
Troubleshooting of MBR process
Design and application engineering of MBR process including design calculation, developing layout drawings and P&ID in AUTO CAD, creating control philosophy
Developing O&M manuals
Searching, Negotiating, and Developing a Business Partner Company in South East Asia
Searching, Negotiating, and Developing a Sales Representative Network in US
Sales Presentation
Technical Presentation at Local WEA Conference
Coordinating and Teaching at either Public and Private Operator Workshop
Hiring New Employee
Education and Management of New Employee

PROFESSIONAL EXPERIENCE

KUBOTA Membrane USA Corporation August 2010 – present
Technology Manager, R&D Plant Operation, Business Development, Regional Sales Manager, After Service, Application Engineering

- Design and application engineering of MBR process including developing design calculation, layout and section drawings, P&ID, and creating control philosophy
- Developing Technical documents such as Submittals, O&M manuals, SPEC documents, and drawings
- Troubleshooting and after service of MBR process
- Operating pilot MBR plant for R&D purpose including sampling, lab testing, mechanical equipment maintenance
- Coordinating and Teaching at either Public and Private Operator Workshop providing operators with CEU credits
- Searching, Negotiating, and Developing a Sales Representative Network in US
- Providing Technical Presentation at Local WEA Conference
- Providing technical Assistance on MBR project that are under design
- Hiring New Employees
- Education and Management of New Employees

KUBOTA Corporation April 2004 – August 2010
Technical Coordinator, Application Engineer, After Service, Business Development, Construction Manager, Commissioning Engineer

- Management of Plant Construction

Hiro Kuge

11807 North Creek Parkway S., Suite B-109, Bothell, WA 98011

Mobile: +1 425 919-3308 Email: hiroo.kuge@kubota.com

- Commissioning wastewater treatment plant
- Toubleshooting of Industrial MBR process
- Design and application engineering of MBR process including developing design calculation, layout and section drawings, P&ID, and creating control philosophy
- Developing Technical documents such as Submittalls, O&M manuals, SPEC documents, and drawings
- Searching, Negotiating, and Developing a Business Partner Company in South East Asia
- Technical Presentation at sales meeting

TECHNICAL PRESENTATION

2014.5.1 Water Environment Association of Utah (WEAU) Annual Conference
2014.11.6 Kentucky – Tennessee Water Environment Association Wastewater (KYTN WEA) Technical Conference
2015.3.17 South Carolina Environmental Conference (SCEC)
2015.7 Georgia Water Professional (GAWP) Annual Conference
2015.8 Kubota MBR Operator Workshop in Georgia (GA)
2015.10 GRWA (Georgia Rural Water Association) Fall Conference
2016.5 Idaho Water and Wastewater Operator Conference
2016.6 Western Washington Short School
2016.7 AMTA NWMOA WEF Technology Transfer Workshop (WA)
2016.7 Kubota MBR Operator Workshop in Ohio (OH)
2016.11 Kubota MBR Operator Workshop in Oregon (OR)
2016.12 Kubota MBR Operator Workshop in Washington (WA)
2017.6 Western Washington Short School
2017.10 WEFTEC Mobile Session (MBR)
2017.11 Kubota MBR Operator Workshop in Washington (WA) and Oregon (OR)

EDUCATION

MS in Environmental Engineering April 2002 – March 2004
Osaka University, Osaka Japan

BS in Environmental Engineering April 1998 – March 2002
Osaka University, Osaka Japan

Biography

Hiro Kuge, M.S. Environmental Engineering

Hiro Kuge is Technology Manager (or Chief Technology Officer) of Kubota Water and Environment, and is in charge of Membrane Bio-reactor (MBR) design, technical service, and regional sales. He has worked with municipal and industrial wastewater treatment design, system integration, project management, construction, commissioning, after service and troubleshooting for over 19 years. He has designed, commissioned, and serviced multiple MBR plants in North America and has been a speaker at WEFTEC, PNCWA, OAWU, IRW, AZ Water, and multiple other operator conferences. He is affiliated with PNCWA.

Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Common DMR Reporting Errors

Presenter: Bradley Eagleson, PE Title: Sr. Environmental Engineer

Employer: Department of Environmental Quality Address: 4026 Fairview Industrial Dr. SE

City: Salem State: OR Zip: 97333 Phone: (971)258-6458

Summary of Lesson content: The lesson will touch on some of the more common errors DEQ sees and how to ensure ensure that operators are reporting accurately. Topics will include bacterial resampling, mass load suspension, and weekly average calculation. Session will provide resources on reporting.

Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.) Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: I work at DEQ as a senior environmental engineer. My responsibilities include compliance, inspection, and plan review. As such I'm familiar with DMR reporting and methods.

Education (High School, Upgrades, Colleges and Degrees): B.S Chemical Engineering Oregon State University M.S. Environmental Engineering University of California, Davis

Professional Registration/Certification: Registered Professional Engineer since 2019

Related papers/instruction you have presented:

Title: Novel backup of a influent lift station Date: 09/23 Event: PNWCA

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Date Evaluated: _____ By: _____ Approved: Yes_____ No _____

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P.O. Box 577
Canby, OR 97013-0577

Email: info@oesac.org
Phone: 503-698-6486

BRADLEY EAGLESON, P.E.

26004 SW Nicole Drive, Corvallis OR 97333 | Cell: 541-954-0243 | bradleyalan@gmail.com

Summary

Process mechanical engineer committed to collaborative engineering design and cost-effective, sustainable infrastructure. A dedicated professional focused in the field of environmental engineering along with bringing the diverse skill-set of a chemical engineering background.

Experience

Lead Process Engineer **10/2015 to Current**
3/2010 to 9/2011
Jacobs Engineering Group Inc. **Portland and Corvallis, Oregon**

- Designed chemical facilities, clarifiers, lift stations, and screening facilities for water and wastewater treatment plants, as well as process cooling water, vacuum, air, waste and bulk chemical storage and delivery systems for semiconductor fabrication plants.
- Developed plant gravity flow hydraulic models using Win Hydro to determine pipe size, identify shortcomings of existing systems, and deliver recommendations for remediation.
- Created P&IDs, layouts and piping plans for construction of chemical systems, wastewater treatment facilities, process cooling water, instrument air, and vacuum systems.
- Analyzed applicable IFC, IBC, HIS, NFPA, ASME and EU standards to develop code compliant, safe, and efficient designs in both the US and Europe.
- Analyzed current systems to identify cost reductions and functionality improvements.
- Coordinated across structural, architectural, electrical, and instrumentation disciplines to deliver a well-coordinated project.
- Developed detailed designs for hydraulic systems using PIPE-FLO.
- Mentored young engineers on processes, systems, and client package delivery protocol.

Research Chemist II **05/2015 to 10/2015**
Moses Lake Industries **Portland, Oregon**

- Evaluated the effects of organic additives on superfill characteristics of through silicon vias.
- Adapted current methods with a Tauguchi factorial to statistically analyze and optimize performance while reducing screening time.

Rural Health and Sanitation Volunteer **02/2013 to 04/2015**
United States Peace Corps **Caaguazú, Paraguay**

- Educated a rural community in Paraguay, using Spanish and Guaraní, regarding a variety of health issues including: nutrition, parasite prevention, trash management, and gardening practices.
- Budgeted and facilitated electrical and sanitation improvements to a rural school.

Graduate Research Assistant **10/2011 to 12/2012**
University California at Davis **Davis, California**

- Researched the use, application, and transport of pyrethroid pesticides in urban environments.
- Designed apparatus to study the time movement of pyrethroids and surfactants during rain events.
- Analyzed trace compounds using a GC-ECD, LC-ELSD, and SPE.

Intel Corporation **04/2008 to 09/2008**
MECOP Intern **Hillsboro, Oregon**

- Trained to verify, analyze, and solve various failures on Intel motherboards.
- Developed experimental techniques to analyze copper creep corrosion.

Yeungnam University and Oregon State University **06/2006 to 04/2008**
Research Intern **South Korea and Oregon**

- Researched scientific journals regarding zinc sulfide and zine oxide thin films for use in solar cells.
- Worked with graduate students using clean rooms and spin coating devices to deposit film on silicon wafers.