



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Key Note Speaker - Legislative Update

Presenter: Mark Landauer Title: Legislative Update

Employer: Special Districts Association of Oregon Address: 727 Center St. NE

City: Salem State: OR Zip: 97301 Phone: _____

Summary of Lesson content: General update on Oregon Legislature, budget, including updates on legislative impacting water, wastewater and stormwater utilities

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: _____

DO NOT WRITE BELOW THIS LINE

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



Mark J. Landauer is a graduate from Whitman College in Walla Walla, Washington. He lived and worked on Capitol Hill in Washington D.C. for eight years and served as a Legislative Assistant to U.S. Senator Mark O. Hatfield for 4 ½ years covering a variety of issue portfolios for the Senator. In 1998 he became a Lobbyist for the City of Portland covering housing, economic development, criminal law, fire, emergency communications, public contracting, urban renewal, transportation, finance and taxation among other issues. Mark also served as the interim director for the City of Portland's Office of Government Relations from September 2005 to February 2006. He has represented the Special Districts Association of Oregon since 2008 focusing on water and wastewater issues among others, is the Executive Director of the Oregon Public Ports Association, represents the Oregon Association of Water Utilities and the Columbia River Steamship Operators Association among others.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Centrifugal Pumps for Wastewater and Water

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way #108

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

Summary of Lesson content: Explaining the many available types of centrifugal pumps, and their benefits for different applications.

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: Rich Owens Date: Jan 23 2026 11:56 PST

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Inflow and Infiltration-Manhole Inspections

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 discusses some of the differences between Inflow and Infiltration, where to look, a assessment, and methods and terminology used in manhole inspection as well as a brief discussion into NASSCO and

MACP assessment.

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 experience in sanitary sewer cleaning and inspection, 16 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: Inflow & Infiltration-Manhole Inspectio Date: 10/2025 Event: Oregon APWA Short School, Bend, OR.

Title: AI Technology in Pipe Assessment Date: 10/2025 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 Environmental
Equipment, ou=Sales, email=jbrown@truenorthenviro.com
Date: 2020.01.07 10:24:18 -08'00' Date: 9/18/23

DO NOT WRITE BELOW THIS LINE

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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 organizations 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: Pretreatment Programs & FOG

Presenter: Nicole Morris Title: State Pretreatment Coordinator

Employer: Oregon DEQ Address: 700 NE Multnomah St., Suite 600

City: Portland State: OR Zip: 97232 Phone: 971-282-7057

Summary of Lesson content: Oregon DEQ's Pretreatment Programs & FOG will help you and your staff:

Understand what interest the State and EPA have in the control of FOG sources

Keep up to date on recent FOG happenings at the State and Local level

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: Nicole is the State Pretreatment Coordinator for Oregon DEQ and has worked for two years as the lead inspector for the City of Austin Texas' FOG program.

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

Masters in Environmental Science from the University of Houston Clear Lake

Professional Registration/Certification: _____

Related papers/instruction you have presented:


Title: Pretreatment from a Hazardous Wast Date: 10/16/2025 Event: Pacific Northwest Pretreatment Workshop

Title: Introduction to the Pretreatment Prog Date: 10/16/2025 Event: Pacific Northwest Pretreatment Workshop

Professional Organizations/Activities: ORACWA Date: _____

OAWU Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 2026.01.23 14:41:27 -08'00' Date: 1/23/2026

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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: 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

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Pretreatment and Hazardous Waste

Presenter: Nicole Morris Title: State Pretreatment Coordinator

Employer: Oregon DEQ Address: 700 NE Multnomah St., Suite 600

City: Portland State: OR Zip: 97232 Phone: 971-282-7057

Summary of Lesson content: Oregon DEQ's Pretreatment and Hazardous Waste will help you and your staff:

Understand when POTW is considered a hazardous waste treatment facility

Understand the basics of hazardous waste regulations

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: Nicole is the State Pretreatment Coordinator for Oregon DEQ and has worked in regulatory compliance in pretreatment and water quality programs for the last 8 years.

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

Masters in Environmental Science from the University of Houston Clear Lake

Professional Registration/Certification: _____

Related papers/instruction you have presented:


Title: Pretreatment from a Hazardous Waste Date: 10/16/2025 Event: Pacific Northwest Pretreatment Workshop

Title: Introduction to the Pretreatment Prog Date: 10/16/2025 Event: Pacific Northwest Pretreatment Workshop

Professional Organizations/Activities: ORACWA Date: _____

OAWU Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 2026.01.23 14:33:50 -08'00' Date: 1/23/2026

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Your DEQ Online for DMR entry

Presenter: Mark Bentz Title: Permit Inspector

Employer: Oregon DEQ Address: 700 NE Multnomah St., Suite #600

City: Portland State: OR Zip: 97232 Phone: 503-869-8264

Summary of Lesson content: Introduction of DMR features and entry in the Your DEQ Online interface;

Q&A/presentation on YDO

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: DMR dynamics and Your DEQ Online community outreach;
DMR e-Reporting transition to NetDMR, 2019

Education (High School, Upgrades, Colleges and Degrees): BA in science with a concentration in environmental science
from Marylhurst University; Advanced Non-Commissioned Officer's Academy certificate; US Army Pathfinder School

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Battle of Gowen Heights Date: 2006 Event: 19D ANCOC, Fort Knox, KY

Title: Trolley Bridge Date: 20180621 Event: Marylhurst ENV190P2

Professional Organizations/Activities: 82nd Airborne Association Date: 1992

The Street Trust Date: 2025

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Your DEQ Online account troubleshooting

Presenter: Mark Bentz Title: Permit Inspector

Employer: Oregon DEQ Address: 700 NE Multnomah St., Suite #600

City: Portland State: OR Zip: 97232 Phone: 503-869-8264

Summary of Lesson content: YDO Account setup and associated complications
troubleshooting and effective navigation in Your DEQ Online

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: DMR dynamics and Your DEQ Online community outreach;
DMR e-Reporting transition to NetDMR, 2019

Education (High School, Upgrades, Colleges and Degrees): BA in science with a concentration in environmental science
from Marylhurst University; Advanced Non-Commissioned Officer's Academy certificate; US Army Pathfinder School

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Battle of Gowen Heights Date: 2006 Event: 19D ANCOC, Fort Knox, KY

Title: Trolley Bridge Date: 20180621 Event: Marylhurst ENV190P2

Professional Organizations/Activities: 82nd Airborne Association Date: 1992

The Street Trust Date: 2025

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The City of Eugene's Regulatory Services Program Overview: Scope of Work & Areas of Growth

Presenter: Contrail Smith Title: Regulatory Services Supervisor

Employer: City of Eugene Address: 410 River Avenue

City: Eugene State: OR Zip: 97404 Phone: 541-281-7216

Summary of Lesson content: Eugene merged their industrial pretreatment and industrial/commercial stormwater programs to embrace the one-water concept. This presentation will discuss the scope of work the program is now responsible for, highlighting the program areas that required additional resources to efficiently and effectively implement both programs.

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: American Water Works Association

Signature of Instructor: Contrail Smith Digitally signed by Contrail Smith
Date: 2026.01.26 16:14:57 -08'00' Date: 1/26/26

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Conrail Smith Instructor Background Addendum

AWWA Short School 2026

Primary Knowledge/Skills/Abilities related to presentation:

- Operations & Maintenance
- NPDES Permit Requirements
- Understanding of Union Contract and Administrative Policy Manuals
- Procurement
- Employee Relations
- Project Management
- Policy Review
- Budget Creation and Management
- Community Outreach
- Recruitment/Hiring Practices
- Union Experience as Shop Steward, and Organizer
- Computer and Database: Microsoft Office Suite, Adobe Photoshop, Laserfiche, Shared Files, Maximo, Safety Applications, ISC Applications, MSDS Online, ArcGIS
- OTHER SKILLS: Urban Forestry Practices, Landscaping and Irrigation, Heavy Equipment

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

California State University, Water Programs, Sacramento, California
Wastewater Collections IV Certification, April 2017
Wastewater Treatment IV Certification, April 2014
Pretreatment Facility Certification, February 2011
Oregon Commercial Driver's License – Class A
IS-100, An Introduction to the Incident Command System
IS-200, Basic Incident Command System for Initial Response
IS-700, An Introduction to the National Incident Management System
IS-800, National Response Framework
ICS 300: Intermediate Incident Command System for Expanding Incidents
ICS 400: Incident Command System for Advance Complex Incidents

Professional Registration/Certification:

Wastewater Collections IV Certification, April 2017
Wastewater Treatment IV Certification, April 2014

Related papers/instruction you have presented:

- NACWA Annual Pretreatment Conference Round Table Moderator for EPA Region 10, 2023, 2024
- Wastewater Division's Equity, Community, & Engagement Representative, 2021-2023
- City of Eugene and AFSCME Joint Labor Management Committee (JLMRC), 2016- 2018
- Pacific Northwest Clean Water Association (PNCWA), Secretary/Treasurer, 2015-2018
- "Bright Idea!" award recipient through City of Eugene's Central Services in 2017 for being a member of the AFSCME Collaborative Collective Bargaining Process in 2016
- City of Eugene and AFSCME Contract Negotiation Team, 2016
- West Central Oregon Section (WCOS) Wastewater Treatment Operator of The Year 2016

- Collective Bargaining Institute Certification, December 2015
- AFL-CIO Summer School-Labor Education Certification and Collective Bargaining Institute, 2015
- Terra Sync and GPS Pathfinder Office Software Training, April 2015
- City of Eugene Public Works Diversity Committee, 2013-2015
- Conference Coordinator for Wastewater, American Water Works Association, April 2012 – 2016
- City of Eugene's Supervisor Development Certificate Program, 2015
- California State University, Water Programs Manage for Success Certification, April 2011
- California State University, Water Programs Utility Management Certification, October 2010
- Certificate of Appreciation Klamath Falls Core Value Project, August 2010

Professional Organizations/Activities:

- American Water Works Association (AWWA)
Cascade to Coast Short School Committee, 2013 – 2015
- Pacific Northwest Clean Water Association (WCOS/PNCWA)
Secretary/Treasurer, 2015 – 2018
- Oregon Association of Clean Water Agencies (OR-ACWA)
Industrial Pretreatment Committee, 2021 – Present
- Water Reuse Pacific Northwest, 2023 – Present
- Oregon Business Certification Network, 2024 - Present



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The City of Eugene's Regulatory Services Program Overview: Scope of Work & Areas of Growth

Presenter: Jon Wilson Title: Regulatory Services Lead

Employer: City of Eugene Address: 410 River Avenue

City: Eugene State: OR Zip: 97404 Phone: 541-682-8616

Summary of Lesson content: Eugene merged their industrial pretreatment and industrial/commercial stormwater programs to embrace the one-water concept. This presentation will discuss the scope of work the program is now responsible for, highlighting the program areas that required additional resources to efficiently and effectively implement both programs.

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: Certified Stormwater Manager - APWA

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: American Water Works Association

Signature of Instructor: Jon Wilson Digitally signed by Jon Wilson
Date: 2026.01.26 16:01:15 -08'00' Date: _____

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City of Eugene: Regulatory Services Lead 2018-2019, 2022 - Present

Lead Worker for the City of Eugene's Industrial Stormwater and Wastewater Programs

- Ensured Federally required programmatic work was properly completed, documented, and reported
- Prioritized and delegated work to meet federal requirements and City/Departmental goals
- Served as the City of Eugene representative on the OR ACWA Industrial Pretreatment Committee
- Ensured compliance local, state, and Federal industrial stormwater and wastewater regulations
- Researched and procured scientific equipment used for stormwater and wastewater pollutant analysis
- Ensured the safety of City staff and the general public with respect to the activities of the workgroup

City of Eugene: Senior Environmental Compliance Specialist 2008-Present

NPDES Industrial Stormwater and Wash Water Discharge Permit Administration

- Provide oversight for 68 NPDES industrial stormwater and 20 Industrial Pretreatment Permits
- Evaluate new and existing businesses to determine NPDES or pretreatment permit applicability
- Conduct site inspections, review laboratory data and other reports to evaluate permit compliance
- Conduct formal enforcement if voluntary compliance with codes or regulations isn't achieved
- Forward instances of non-compliance to Oregon DEQ should voluntary compliance not be achieved

City of Eugene: EOC Sanitation Branch Manager March 2020 – June 2021

- Responsible for portable restrooms and sinks placed by the EOC to slow the spread of COVID-19
- Respond to public concerns by coordinating work with various City Departments and contractors
- Managed work completed by field inspectors, GIS techs, and communicated w/ EOC Management
- Identified potential safety concerns for City staff, motorists, contractors, and the general public

City of Eugene: Industrial Source Control Supervisor 2013 (half-time assignment)

- Supervised 2-6 employees involved in stormwater, pretreatment, and sample team sub workgroups
- Issued notices of non-compliance for stormwater and wastewater violations of Eugene City Code
- Responsible for identifying suitable stormwater sample events and coordinating sampling activities
- Reviewed timesheets, addressed personnel issues, and facilitated weekly work group meetings
- Prepared budget requests and justifications for the purchase of stormwater monitoring equipment

Woolpert Incorporated: Survey Field Technician 2005-2008

NPDES Phase I & II Municipal Storm Water Permit Consultant

- Crew leader for stormwater outfall identification and mapping effort in Spartanburg County, SC
- Trained Spartanburg County Staff to use GIS and GPS to map the municipal stormwater system
- Used ArcGIS to perform QA/QC calculations and generate maps for meetings with regulators
- Designed and drafted the Spartanburg County, SC stormwater outfall inventory field manual
- Mapped stormwater outfalls, performed condition assessment, and conducted stormwater monitoring
- Performed illicit discharge detection and elimination based on stormwater monitoring results
- Performed construction site inspections to ensure adequate erosion control measures were in place

Water Quality Committee Involvement

City of Eugene Stormwater Management Team 2013-PRESENT (Facilitator 2014-2015, 2026)
Eugene/Springfield/Lane County Stormwater Special Operations Team 2008-PRESENT
J.H. Baxter Regulatory/Community Outreach Core & Technical Teams 2021-PRESENT
Oregon ACWA Groundwater Committee 2012-2019
Oregon ACWA Underground Injection Control Technical Advisory Committee 2010-2011
Oregon ACWA Industrial Stormwater Technical Advisory Committee 2011

Water Quality Conference Presentations

StormCon North American Surface Water Quality Conference 2015
Northwest Environmental Business Council Managing Stormwater in Oregon 2015
Oregon Chapter American Water Works Short School 2010-2012, 2014, 2015
Oregon Association of Clean Water Agencies Stormwater Summit 2011

Professional Journal Publications

American Public Works Association Reporter

APWA's Certified Stormwater Manager Designation: Getting over the mental hurdle to benefit your organization and community - 2015

Stormwater – The Journal for Water Quality Professionals

Using GIS to Identify Potential Sources of Illicit Discharges - 2015
Reader Profile - 2016

Storm Water Solutions – The Storm Water and Erosion Control Resource

Administering Industrial Stormwater NPDES Permits on Behalf of the State - 2016

Education, Professional Credentials, Honors

American Public Works Association Public Works Supervision and Management 2015
University of California, Sacramento Pretreatment Facility Inspection 2012
American Public Works Association Certified Stormwater Manager 2011
Lead Worker Supervisor Development Program City of Eugene, Oregon 2010
Greenville Technical College Certificate of Applied Sciences in Advanced GIS 2010
North Carolina State University Bachelor of Science in Natural Resources 2004



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Safe Hydro-Excavation Operator Practices

Presenter: Chris Young Title: Territory Manager - Oregon

Employer: SWS Equipment Address: 28120 SW Boberg Rd

City: Wilsonville State: OR Zip: 97070 Phone: 971-219-1648

Summary of Lesson content: This course will prepare attendees to perform hydro-excavations properly and safely.

Operators will learn how to dig properly around sanitary sewer and storm utilities with proper digging wand techniques and

Pressure control. Additional discussions will revolve around vacuum safety, PPE, Overhead safety, fall protection. Emphas

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: 3+ years selling and training on equipment, 100 plus demos

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

Professional Registration/Certification: Certified trainer through Sewer Equipment, ENZ Nozzles, Rapidview IBAK

Related papers/instruction you have presented:

Title: Nozzles 101 Date: _____ Event: APWA Short Schools

Title: Sewer Inspection Date: _____ Event: APWA Short Schools

Professional Organizations/Activities:

_____ Date: _____

APWA Short School Committee Date: Since 01/01/25

Course sponsor: Sewer Equipment of America

Signature of Instructor: *Chris Young* Date: 1/27/26

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Nozzles 101

Presenter: Chris Young Title: Territory Manager - Oregon

Employer: SWS Equipment Address: 28120 SW Boberg Rd

City: Wilsonville State: OR Zip: 97070 Phone: 971-219-1648

Summary of Lesson content: We will cover sanitary sewer and storm water pipe cleaning basics and safety. Students will learn the basic nozzle construction and jets and how to select the proper nozzle for the application.

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: 3+ years selling and training on nozzles. #1 sales Rep in NW Nozzles, 100+ Demos

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

Professional Registration/Certification: Certified trainer through Sewer Equipment, ENZ Nozzles, Rapidview IBAK

Related papers/instruction you have presented:

Title: Safe Hydro-excavation Praties Date: _____ Event: APWA Short Schools

Title: Sewer Inspection Date: _____ Event: APWA Short Schools

Professional Organizations/Activities:

_____ Date: _____

APWA Short School Committee Date: 01/01/2025

Course sponsor: ENZ Nozzles

Signature of Instructor: *Chris Young* Date: 01/27/26

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Sewer Inspection - How did it start and where is it going

Presenter: Chris Young Title: Territory Manager - Oregon

Employer: SWS Equipment Address: 28120 SW Boberg Rd

City: Wilsonville State: OR Zip: 97070 Phone: 971-219-1648

Summary of Lesson content: A look at the history of Sewer Inspection systems and how technology has advanced. This class will cover the different technologies used for pipe inspection in a sanitary sewer and stormwater conveyance system

to look at pipe integrity/condition, pipe wear and defects, pipe obstructions. How it has evolved into current times and what

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: 3+ years selling and training on equipment, 100 plus demos

Education (High School, Upgrades, Colleges and Degrees): Southern Oregon University

Professional Registration/Certification: Certified trainer through Sewer Equipment, ENZ Nozzles, Rapidview IBAK

Related papers/instruction you have presented:

Title: Nozzles 101 Date: _____ Event: APWA Short Schools

Title: Safe Hydro-excavation practices Date: _____ Event: APWA Short Schools

Professional Organizations/Activities:

APWA Short School Committee Date: 01/01/25

Course sponsor: Rapidview IBAK

Signature of Instructor: *Chris Young* Date: 01/27/26

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: Working with Older Laterals and Services: Odd Pipe Materials and Where to Find Them

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: Co-Presenters Kenny (C. of Oregon City) and Matt (HBH) leverage their experience with diverse water and sewer systems to provide practical guidance on how to work with several common (and uncommon) historic pipe materials, as well as methods to predict what's in the ground before digging (desk work).

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, 97861 PE)

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: Oregon City I&I Program: Measuring Success and Validating the Approach Date: 9/17/2025 Event: PNCWA 2025 Annual Conference

Professional Organizations/Activities: NASTT, PNW Chapter Conference Presenter Date: February 12, 2025

PNCWA Conference Presenter and Attendee Date: September 17, 2025

Course sponsor: AWWA Oregon Chapter and PNCWA

Signature of Instructor: Digitally signed by Kenneth Cannady-Shultz Reason: I am approving this document with my legally binding signature Date: 1/5/2025

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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 through 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: Working with Older Laterals and Services: Odd Pipe Materials and Where to Find Them

Presenter: Matthew Del Moro Title: Principal Engineer

Employer: HBH Consulting Engineers, Inc. Address: 501 E 1st St

City: Newberg State: OR Zip: 97132 Phone: (503) 654-7950

Summary of Lesson content: Co-Presenters Kenny (C. of Oregon City) and Matt (HBH) leverage their experience with diverse water and sewer systems to provide practical guidance on how to work with several common (and uncommon) historic pipe materials, as well as methods to predict what's in the ground before digging (desk work).

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 Gonzaga University

Professional Registration/Certification: PE (OR, 93836PE)

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: AWWA Oregon Chapter and PNCWA

Signature of Instructor: Matthew Del Moro, PE Date: 1/23/2026

Digitally signed by Matthew Del Moro, PE
DN: c=US, E=mdelmor@hbh-consulting.com, O=HBH Consulting
Engineers, Inc., CN=Matthew Del Moro, PE
Reason: I attest to the accuracy and integrity of this document
Date: 2026.01.23 16:57:54 -0800

DO NOT WRITE BELOW THIS LINE

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Instructor Background And Information Form

Additional Information:

I earned my Bachelor of Science in Civil Engineering from Gonzaga University, beginning with an emphasis on construction management before transitioning to water resources engineering. Early in my career, I provided extensive construction inspection for water and wastewater infrastructure improvements. This work included oversight of well rehabilitation, transmission main upgrades, and distribution system improvements throughout rural Montana, as well as CIPP rehabilitation projects in Billings. These projects exposed me to a wide range of legacy pipe materials installed across multiple eras of system development, giving me practical experience in connecting new infrastructure to aging and often undocumented systems.

After relocating to Oregon, my work shifted toward design engineering and project management, with most of my experience concentrated in communities west of the Cascades. Over the past decade, I have designed and managed construction for approximately ten miles of water main improvements across diverse distribution and collection systems. These projects required working with—and often tying into—an array of pipe materials including wood stave, asbestos cement, cast iron, ductile iron, lead services, copper, CRFP, PVC, HDPE, VCP, Orangeburg, and CIPP. The variability in material type, age, and installation practices has provided a strong technical foundation for understanding the complexities of rehabilitating older systems.

Many municipalities with limited resources face significant challenges in identifying existing pipe materials due to incomplete or deteriorated records. Operators often rely on isolated repair histories to infer system conditions, leaving design engineers with substantial uncertainty when planning connections to existing infrastructure. This lack of reliable information can lead to increased construction costs and change orders once excavation begins.

Throughout my career, I have navigated these challenges in a variety of contexts, including supporting communities recovering from wildfire related infrastructure loss and helping rebuild distribution systems that evolved incrementally over decades. These experiences have strengthened my ability to interpret development patterns, anticipate subsurface conditions, and make informed predictions about existing infrastructure. By integrating historical research, field observations, and engineering judgment, I have developed practical strategies to reduce uncertainty during design and mitigate cost impacts during construction.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Excavation Safety: Awareness and Refresher

Presenter: Jim Johnson, D2000 Safety, Inc. Title: CEO

Employer: D2000 Safety, Inc. Address: PO Box 2939

City: Eugene State: OR Zip: 97402 Phone: 541-915-3671

Summary of Lesson content: In this session we will review the basic safety requirements and best practices when excavating. This includes soil classification, selecting protective systems, and emergency preparedness. The program is designed for anyone working around excavations or serving as competent persons.

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: 1/27/26

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Confined Spaces: Identification and Alternate Entry Procedures

Presenter: Jim Johnson, D2000 Safety, Inc. Title: CEO

Employer: D2000 Safety, Inc. Address: PO Box 2939

City: Eugene State: OR Zip: 97402 Phone: 541-915-3671

Summary of Lesson content: Identifying and evaluating confined spaces in water treatment facilities can pose challenges. given the variety of spaces and possible hazards. In this session we will examine the process for identifying confined spaces, permit-required confined spaces, and using alternate entry procedures to ensure worker safety.

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: [Handwritten Signature] Date: 1/27/26

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Professional Experience

D2000 Safety, Inc. 2001 – Present

- Chief Executive Officer
- Instructional designer and trainer

Holbrook Communications 1996-2001

- Owner and C.E.O. Developed policy/procedures, training manuals and other technical documentation for a variety of clients.

D2000 Safety Solutions 1991 – 1996

- Manager of Technical Communications. Developed training and compliance tools for confined space and rescue programs.

Wilson Learning Company 1987-1991

- Consultant and instructional designer. Developed training programs for a variety of Fortune 500 clients.

Minneapolis Heart Institute Foundation 1985-1987

- Communication Coordinator responsible for marketing and educational materials.

Education / Certifications

OSHA Training Institute

- Instructor: Fall Protection 3110, 2008
- Fall Protection 3110, 2007
- Trenching and Excavation – 3010, 2007

Florida Institute of Technology

- B.S. Oceanographic Technology, 1980



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Water and Wastewater Jeopardy

Presenter: James Green Title: Wastewater Operator

Employer: City of Corvallis Address: 1304 NE 2nd Street

City: Corvallis State: OR Zip: 97339 Phone: 541-766-6569

Summary of Lesson content: Triva Style oriented learning opportunity for a variety of topics such as water/wastewater terminology, Math Equations, troubleshooting, common operational mistakes, reporting requirements, etc. History of H2O

& Wastewater treatment Techniques, fun facts about legislation, bodies of water, etc. Equipment type questions.

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: AAS in Water/wastewater Technology, Bachelors in Graphic Design, Grade IV WW Treatment License with 15 years experience in the field.

Education (High School, Upgrades, Colleges and Degrees): West Salem High School Diploma, Kirkwood community College AAS (Water/Wastewater Technology), George Fox Univerisyt BA Graphic Design

Professional Registration/Certification: Oregon Grade IV Wastewater Treatment License

Related papers/instruction you have presented:

Title: Degradation of Sodium Hypochlorite Date: 2013 Event: PNCWA

Title: Hach Wims First Impressions Date: 2025 Event: AWWA-CASCADE to Coast

Professional Organizations/Activities: WCOS Board member Date: 2025-Present

AWWA Board Member Date: 2015-2017

Course sponsor: AWWA

Signature of Instructor: James Green Digitally signed by James Green Date: 2026.01.23 13:50:42 -08'00' Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Clean Water Act and NPDES Permits

Presenter: Rajeev Kapur Title: Principal

Employer: Kapur Environmental LLC Address: 5070 NW 126th Terrace

City: Portland State: OR Zip: 97229 Phone: 503-703-5244

Summary of Lesson content: Regulatory framework and content of the NPDES permit program

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: Regulatory and water quality professional with 35 years of experience with state and local agencies, and consulting firms.

Education (High School, Upgrades, Colleges and Degrees): M.S Environmental Engineering - Portland State University; B.S. Petroleum Engineering - Pennsylvania State University

Professional Registration/Certification: None

Related papers/instruction you have presented:

Title: Clean Water Act & NPDES Permits Date: 12/2/2025 Event: ACWA WQ Committee Meeting

Title: Water quality based limits in NPDES Date: Various Event: Various

Professional Organizations/Activities:
Oregon Association of Clean Water Agencies (OR ACWA) Date: _____

Date: _____

Course sponsor: Matthew Etzel

Signature of Instructor: Rajeev Kapur Digitally signed by Rajeev Kapur Date: 2025.12.23 08:40:36 -08'00' Date: 12/23/2025

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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

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Adaptive mixing for efficiency and process resiliency.

Presenter: Alden Meade Title: Product Manager

Employer: Xylem Inc. Address: _____

City: _____ State: _____ Zip: _____ Phone: _____

Summary of Lesson content: Adaptive mixing continuously adjusts the mixer speed, so the output thrust precisely matches dynamic process conditions, such as fluctuating flow rates or aeration demands. This technology delivers continuous thrust variation for energy-efficient, demand-based operation.

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: Wastewater treatment process basic knowledge. rotating equipment basic knowledge

Education (High School, Upgrades, Colleges and Degrees): BS Mechanical Engineering

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: Adaptive mixing for efficiency and pro Date: 2025 Event: PNCWA

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 12/17/2025

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Positive Displacement Pumps for Water Applications

Presenter: Rich Owens Title: President

Employer: Owens Pump & Equipment Address: 138 S Hazel Dell Way #108

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

Summary of Lesson content: Benefits and applications for Positive Displacement Pumps.

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: Rich Owens Date: Jan 23 2026 11:56 PST

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Oregon Department of Environmental Quality Water Reuse Program Overview

Presenter: Grace Silver Title: Water Reuse Program Developer

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

City: Portland State: OR Zip: 97232 Phone: 971.300.3261

Summary of Lesson content: The presentation will provide an overview of DEQ's water reuse program, including history, current work, future direction, and interagency collaboration.

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 Reuse, Water Conservation, Water Scarcity, Water Treatment

Education (High School, Upgrades, Colleges and Degrees): Bachelor of science from California Polytechnic University San Luis Obispo, CA

Professional Registration/Certification: AWWA Water Use Efficiency Practitioner - Grade 1

Related papers/instruction you have presented:

Title: Agency Water Reuse Collaboration Date: Sept 2025 Event: PNW Regulators Meeting

Title: DEQ's Reuse Program Date: June 2025 Event: PNW WaterReuse Summer Summit

Professional Organizations/Activities: National Blue Ribbon Council Commissioner Date: Dec 2024

Date: _____

Course sponsor: _____

Signature of Instructor:  Date: 1/26/26

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Bend Beneficial Reuse.

Presenter: Roy Bradley Title: Lead Operator

Employer: City of Bend Address: 22395 McGrath Rd.

City: Bend State: OR Zip: 97701 Phone: 541-323-8538

Summary of Lesson content: The presentation provides an overview of the City of Bend's recycled water program. It includes: How the program started, construction and development, operational challenges, logistical challenges with A,B,C water and how the program operates currently.

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: Activated Sludge Wastewater Treatment Operations, Maintenance and Process Control.

Education (High School, Upgrades, Colleges and Degrees): Associates of Applied Science in Water Environment Technology from Linn Benton Community College.

Professional Registration/Certification: Class IV Wastewater Treatment Class I Collections Class I Water Treatment Class I Distribution.

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: Ops Challenge Committee Chair PNCWA Date: 2021-present

City of Bend Employees Association Board Member. Date: 2019- 2025

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: City of Molalla Upgrade

Presenter: Seth Kelly Title: Water Quality Superintendent

Employer: City of Molalla Address: 117 N Molalla Ave

City: Molalla State: OR Zip: 97038 Phone: 5033-302-3600

Summary of Lesson content: NPDES Permit Renewal

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: Just went through DEQ NPDES Permit renewal process in 2025.

Education (High School, Upgrades, Colleges and Degrees): High School, 100+ CEU's,

Professional Registration/Certification: Wastewater Treatment Operator IV, Water Treatment Operator III

Related papers/instruction you have presented:

Title: NPDES Permit Renewal Date: 12/4/2025 Event: ACWA Water Quality Committee

Title: _____ Date: _____ Event: _____

Professional Organizations/Activities: ACWA Water Quality Committee - Member Date: 04/2025 - Current

PNCWA - Member Date: 02/2020 - Current

Course sponsor: Matthew Etzel

Signature of Instructor: Seth Kelly Digitally signed by Seth Kelly
DN: CN=Seth Kelly, O=City of Molalla, E=skelly@cityofmolalla.com
Reason: I am the author of this document
Location:
Date: 2026.01.13 08:38:44-08'00'
Front PDF Editor Version: 2025.3.0 Date: _____

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: The Original Process Control Toolkit: Applying the EPA's 1974 & 1977 Manuals Today

Presenter: Mark Walter Title: Senior O&M Specialist

Employer: Waterdude Solutions Address: 13290 Squire Drive

City: Oregon City State: Or Zip: 97045 Phone: 9714134126

Summary of Lesson content: This workshop draws on the classic EPA activated sludge process control manuals from 1974–1977 to reinforce a practical “see–test–trend–adjust” approach. Operators work through common symptoms using a portable set of checks and a shared troubleshooting language. The session is interactive with demos, breakouts.

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): See Resume

Professional Registration/Certification: See Resume

Related papers/instruction you have presented:
Title: STEP Clarifier Startup Date: 09/15/25 Event: PNCWA Annual Conference, PDX
Title: _____ Date: _____ Event: _____

Professional Organizations/Activities:

Date: _____

Date: _____

Course sponsor: _____

Signature of Instructor: _____ Date: _____

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The Original Process Control Toolkit: Applying the EPA's 1974 & 1977 Manuals Today

Training Outline (2 Hours)

Topic: Activated Sludge Process Control using classic EPA manuals (1974–1977)

Audience: 20–30 operators from multiple cities (mixed experience)

Format: PowerPoint + props + table breakouts

1) Welcome + goals (0:00–0:10)

- Purpose: shared regional “process control language” and portable decision method
- Quick room poll: process types + top challenges (foam, bulking, washout, rising sludge, wet weather)

2) Core method: See → Test → Trend → Adjust (0:10–0:25)

- Observations that matter (aeration + clarifiers + effluent)
- Core checks (settleometer/blanket/DO/effluent clarity + optional microscope)
- Why trending and small staged changes prevent overcorrection

3) Symptom language workshop (0:25–0:40)

- Table exercise: identify symptoms from cards/photos
- Each table lists: “next checks” + “safe first move” for assigned symptoms
- Group share-out; facilitator captures top items

4) Settleometer demo + interpretation drill (0:40–1:00)

- Prop demo: what to watch at 1–5 minutes and at 30 minutes
- Pair exercise: settleometer descriptions → next checks → do-not-do actions

5) Break + question parking lot (1:00–1:10)

- Collect questions by theme (foam, bulking, wet weather, nitrification swings)

6) Regional case studies: same scenario, different plant constraints (1:10–1:45)

- Mixed-city tables work one scenario with two contexts (Plant A vs Plant B)
- Deliverable: symptom → checks → likely causes → immediate move → stabilization plan → “don’t do”
- 90-second report-outs; capture “If X-limited, do Y” rules

7) Build the regional “playbook page” (1:45–1:55)

- Group harvest: top Next Checks, Safe First Moves, and Overcorrections to avoid
- Convert into a one-page takeaway for all attendees

8) Wrap-up + feedback (1:55–2:00)

- 1-minute evaluation: confidence ratings + one takeaway + topic for next regional session

Mark D. Walter
13290 Squire Drive, Oregon City, Oregon 97045
971-413-4126
markw@waterdudesolutions.com

January 2026

PROFILE

Mr. Walter has extensive experience ranging from small system operations to management at advanced wastewater treatment facilities. He is skilled in modern operations, maintenance, and communication. His background enables him to adapt quickly and deliver results in complex settings.

For nine years at Waterdude Solutions, he has provided process troubleshooting, optimized operations, and offered technical support for planning, design, and system evaluation.

Waterdude Solutions information can be found at www.waterdudesolutions.com

PROFESSIONAL EXPERIENCE

Senior Operations, Maintenance and Management Specialist, Owner

Waterdude Solutions, LLC

- O&M manual development.
- Maintenance of operation during construction planning
- Startup and commissioning planning and training.
- Asset condition and operational status assessment.
- CMMS and process data management implementation.
- Unit process optimization, program development, and staff training.
- Alternative's analysis in support of facility planning.

Operations Manager

Oak Lodge Sanitary District, Oak Grove Oregon

- Responsible for WWTP, collection and stormwater O&M with 16 staff.
- Operations coordination for multiyear WWTP improvements.
- Created and updated standard operating procedures for new and existing systems.

Maintenance Division Manager

Clean Water Services (CWS), Hillsboro, Oregon

- Manage facilities and mechanical maintenance for WWTPs, 42 pump stations & offices.
- Evaluated and prioritized system repairs and replacements.
- Implemented CMMS update, maintenance and capital planning improvements.

Manufacturer's Equipment Representative

Beaver Equipment Specialty Company, Inc., Vice President

Goble Sampson Associates, Sales Engineer

- Evaluated feasibility of various equipment applications.
- Developed comparative equipment lifecycle cost reports for evaluation.
- Performed equipment commissioning and training services.

Project Manager

CH2MHill, Operations Management International, Inc
City of Lebanon, City of Philomath and Freeway Properties

- Supervision and management of two water and three wastewater treatment systems.
- Identified and coordinated improvement projects between CH2MHill and clients.
- Performed offsite O&M evaluations and support of other CH2MHill facilities.

Operations Supervisor

CH2MHill, Operations Management International, Inc
Gresham Wastewater Treatment Plant

- Coordinated operations and maintenance activities.
- Developed O&M programs and provided staff training.

Wastewater Treatment Plant Operator

- Clackamas County Department of Utilities, Oregon City, Oregon
- Orange County Sanitation District, Fountain Valley, California
- Michelson Water Reclamation Plant, Irvine, California

CERTIFICATION

- Wastewater Treatment System Operation, Oregon Grade IV #7091
- Wastewater Collection System Operation, Oregon Grade IV #12219
- Oregon Emerging Small Business Certification # 10792 Waterdude Solutions, LLC.

VETERAN

- United States Army, 82nd Airborne Division, 1/325 Infantry
- United States Army Reserve, 104th Training Division, Infantry Instructor

EDUCATION

Clackamas Community College and Chemeketa College, Oregon

- Water Quality, Management, Human Relations, and Business Law

PROFESSIONAL DEVELOPMENT

- EPA Advanced Asset Management Training; Managing Multiple Projects; Conflict Resolution; Effective Negotiating; Project Management; Coaching and Teambuilding; Building Better Training Programs; Emergency Response Planning; Leading with Emotional Intelligence; Performance Management; Technology of Participation (ToP) Facilitation; Taylor Protocols Core Value Index (CVI) facilitation.

REGIONAL LEADERSHIP

- Presenter and trainer at regional and national technical and management conferences.
- Pacific Northwest Clean Water Association (PNCWA: Past President, Operations Challenge Chair, Awards Committee Chair, Plant Operations and Maintenance Committee Chair, Oregon Region Director; Lower Columbia Section President.
- Past Director, Chair of Oregon Water Education Foundation Water Environment School.



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Inflow and Infiltration a DEQ Perspective

Presenter: Bradley Eagleson, PE Title: Senior Environmental Engineer

Employer: Oregon DEQ Address: 4026 Fairview Industrial Dr.

City: Salem State: OR Zip: 97302 Phone: (971) 258-6458

Summary of Lesson content: The lesson will include a discussion of how to use EPA's method to determine excessive inflow and infiltration, its potential downstream compliance concerns from an cost, operational and regulatory standpoint, DEQ's regulatory approach, and financial resources available to aid cities.

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): 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: Common DMR Reporting Errors Date: 4/2025 Event: Cascade to Coast Short School

Title: Novel backup of Influent Lift Station Date: 9/22 Event: PNWCA Spokane

Professional Organizations/Activities: _____ Date: _____
_____ Date: _____

Course sponsor: _____

Signature of Instructor: Bradley Eagleson, PE Digitally signed by Bradley Eagleson, PE
DN: c=US, e=bradley.eagleson@deq.oregon.gov, o=Department of
Environmental Quality, cn=Bradley Eagleson, PE
Date: 2025.10.21 16:16:47 -0700 Date: 10/21/2025

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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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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Operator Math Review

Presenter: Caleb Trammell Title: Project Manager

Employer: Jacobs Address: 1264 Lori Lane E

City: Monmouth State: OR Zip: 97361 Phone: 541-530-3698

Summary of Lesson content: This presentation will feature a variety of math review questions based on material from the ABC wastewater operator certification exams. It is designed to help operators develop math skills that will help them pass their tests.

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: 5 years experience in the wastewater treatment field. Numerous wastewater review courses sponsored by community colleges.

Education (High School, Upgrades, Colleges and Degrees): Philomath High School - 2012 Oregon State University B.S. Microbiology - 2017

Professional Registration/Certification: Oregon Wastewater Treatment Operator III - no. 14800

Related papers/instruction you have presented:

Title: Operator Math Review Date: 9/19/25 Event: Rogue Community College Operator Review

Title: Wastewater Certification Review Class Date: 3/24 - 3/25/25 Event: Umpqua Community College Operator Review

Professional Organizations/Activities: West Central Operator Section - Board Member Date: Current

Date: _____ Date: _____

Course sponsor: WCOS - PNCWA

Signature of Instructor: Caleb Trammell Date: 1/26/26

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Flammable Gas Systems Purging Practices- Incorporating Federal Standards

Presenter: Spencer Goodro Title: RNG Lead Operator

Employer: City of Eugene Address: 410 River Ave

City: Eugene State: OR Zip: 97404 Phone: 541-682-8600

Summary of Lesson content: Purging flammable gas systems in and out of service using federal standards found in NFPA

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: Lead Operator RNG system, 4+ years. Certified Wastewater

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

Professional Registration/Certification: Oregon Wastewater Treatment System Operation Grade 2 cert. # 9528

Related papers/instruction you have presented:

Title: MWMC Renewable Natural Gas Project Date: Feb 28, 2023 Event: AWWA/PNCWA Cascade to Coast Short Sch

Title: Flammable gas systems purging prac Date: Apr 10, 2024 Event: AWWA/PNCWA Cascade to Coast Short Sch

Professional Organizations/Activities: PNCWA WCOS Board Member Date: July 2023 - present

Course sponsor: ACWA

Signature of Instructor: _____ Date: 2025.11.10 10:14:49 -08'00'

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Activated Sludge Treatment Basics

Presenter: Jonathan Gasik, MS, PE Title: Wastewater Engineer

Employer: Retired. Formerly Oregon DEQ Address: 265 Tiffany Avenue

City: Central Point State: OR Zip: 97502 Phone: 541-840-5022

Summary of Lesson content: An overview of the history of activated sludge treatment development, activated sludge treatment theory, and activated sludge treatment facility configurations.

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): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Cascade to Coast Oregon Operators Conference

Signature of Instructor: *Jonathan Gasik* Date: 2/26/2025

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Activated Sludge Process Control

Presenter: Jonathan Gasik, MS, PE Title: Wastewater Engineer

Employer: Retired - Formerly Oregon DEQ Address: 265 Tiffany Avenue

City: Central Point State: OR Zip: 97502 Phone: 541-840-5022

Summary of Lesson content: This class is based on Michigan DEQ's training manual for wastewater treatment plant operators "Activated Sludge Process Control". The class covers calculations of organic loading, food-to-microorganism ratio, cell residence time, and wasting; and using of settlometer, OUR, and microscopic examination.

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): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: Cascade to Coast Oregon Operators Conference - PNCWA

Signature of Instructor: *Jonathan Gasik* Date: 2/26/2025

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Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Activated Sludge Process Control - Practical Workshop

Presenter: Jonathan Gasik, MS, PE Title: Wastewater Engineer

Employer: Retired - Formerly Oregon DEQ Address: 265 Tiffany Avenue

City: Central Point State: OR Zip: 97502 Phone: 541-840-5022

Summary of Lesson content: This workshop is a practical continuation of "Activated Sludge Process Control". It will include three 40 minute sessions at the wastewater treatment plant: A) plant walkthrough with use of sludge judge and DO measurements, B) microscopic examination, and C) Settrometer, OUR, and calculations.

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): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities: _____ Date: _____

_____ Date: _____

Course sponsor: Cascade to Coast Oregon Operators Conference - PNCWA

Signature of Instructor: *Jonathan Gasik* Date: 2/26/2025

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Jonathan Gasik, MS, PE

Jon has been a senior environmental engineer with the Oregon Department of Environmental Quality since 1994. Jon has a bachelor's degree in biochemistry from the University of California at Los Angeles and a master's degree in Civil Engineering from the University of Southern California. Jon is an Oregon registered professional engineer and has a certificate in project management from Portland State University. Prior to his current position, Jon has been a hazardous waste inspector, a pollution liability specialist, and a laboratory supervisor.

Jon is a principle author of the following DEQ documents:

- Preparing Hauled-Waste Acceptance Plans, October 2015 (Oregon ACWA and Oregon DEQ)
- Natural Treatment Systems – A Water Quality Match for Oregon's Cities and Towns (A report on Natural Treatment Systems prepared jointly by Oregon DEQ and the Oregon ACWA, July, 2014)
- Guidelines for the Preparation of Wastewater Planning Documents (Oregon DEQ, 2013).
- Preparation of Operations and Maintenance Manuals for Domestic Wastewater Treatment Facilities (Oregon DEQ, 2012)
- Instructions for Completing Discharge Monitoring Reports (DMRs) (Oregon DEQ, 2012)
- Internal Management Directive for implementing Oregon's Recycled Water Use Rules (Oregon DEA, 2009). System design section.
- Oregon Standards for Design and Construction of Wastewater Pump Stations (Oregon DEQ, 2001)

Jon has presented the papers above at PNCWA conferences and short schools, and has also instructed courses on NPDES basics, laboratory QA, TMDLs, and other topics at various gatherings.

Professional Organizations:

- Oregon Registered Professional Engineer 17037
- Water Environment Federation
- Pacific Northwest Clean Water Association
- South Central Oregon Section of The Pacific Northwest Clean Water Association