

Below denotes the max CEUs an operator from each state can obtain if they attend all 3 days of instruction

Total Idaho drinking water CEUs 1.6
 Total Idaho wastewater CEUs 0.6

Total Oregon drinking water CEUs 1.6
 Total Oregon wastewater CEUs 0.6

Total Washington drinking water (WDOH) CEUs 1.6
 Total Washington wastewater(WDOE) CEUs 1.4

Wednesday, May 3

	All Day Seminar		Morning Pre-Conference Seminar				Mid-Day Seminar	
Room	A	B	C	D	E	F	Convention Center Lobby	H
Hosting Committee	Central WA Subsection		Distribution	Engineering			Water Treatment	
Moderator	Kenny Janssen		Jacki Masters	James Konigsfeld			Scott Johnson	
8:30 -12:00	Aquifer Storage and Recovery (ASR) Technology Overview, Applications and Benefits, and Project Development Needs- Kenny Janssen Pacific Northwest Aquifer Storage and Recovery (ASR) Regulatory Summary and Permitting- Dave Nazy Aquifer Storage and Recovery (ASR) Engineering and Design Considerations- David Kuhns Aquifer Storage and Recovery (ASR) Operations and Maintenance- Joel Cary Aquifer Storage and Recovery (ASR) Alternative Applications and New Frontiers- Jason Melady		Meeting the Challenges of Water Supply Resiliency in the Pacific Northwest: Consolidating and Transferring Water Rights to More Efficient Production Wells- Derek Holom	Main Replacement Selection Methodolgy- Sarah Alton (WDOE CEUs)			Meet in Lobby 9:00 am, Depart 9:30 am City of Kennewick's Columbia River Water Treatment Plant Tour 10:00am-12:00pm	
With two 15-minute breaks or three 10-minute breaks			The Quad Cities Water Right - A Collaboration of the Cities of Richland, Pasco, Kennewick and West Richland- Molly Reid	Transmission Condition Assessment- Nathan Endicott (WDOE CEUs)				
			Estimating Groundwater Resources Of The Republic Of Marshall Islands- Brandon Barkey	Making The Most of Your CIP Budget: Lakewood Water District's Approach To Annual Water Main Replacements & Rehabilitations- Marshall Meyer (WDOE CEUs)				
			Groundwater Replenishment With Purified Water Injection Provides Drought Storage and Environmental Benefits- Todd Reynolds	Adding More Voices to Decisions: How to Successfully Turn a Triple Bottom Line to an Eleven Bottom Line Approach- Corianne Hart				
			Well Design for Optimal Efficiency By Understanding And Minimizing Well Losses At Source- Michael Kenrick	Easy As 1, 2, 3: Coordinating One Site, Two Contractors, and Three Owners- Corianne Hart (WDOE CEUs)				
			Bend's New 10-mile High Pressure Raw Water Transmission Pipeline: Solutions for Permitting, Design, and Construction- Bryan Black					
CEUs			ID-0.3 / OR-0.3 / WA-0.3	ID-0.3 / OR-0.3 / WDOH-0.3 / WDOE-0.2				

	Lunchbreak	Afternoon Pre-Conference Seminar				12:00pm-1:00pm Lunch and travel to second tour	
Room		B	C	D	E		F
Hosting Committee			Distribution	Engineering			
Moderator			Daniel Reisinger	Russ Knutson			
1:00 - 4:30 With two 15-minute breaks or three 10-minute breaks	Kennewick ASR Feasibility Assessment- Lizzi Haas		Have Your Cake: Operator's Guide to Sustainable Asset Management- Ronan Igloria (WDOE CEUs)	Your Best Laid Plans Will Change: Managing & Resolving Change Orders During Construction- David Seymour (WDOE CEUs)			West Pasco Water Treatment Plant Tour 1:00pm-3:00pm
	Kennewick ASR Facility Design and Construction- David Kuhns		Implementing a Risk-Based Main Replacement Strategy at EWEB- Chris Irvin	Managing Change in Pipeline Routing- Joelle Bennett			
	Kennewick ASR Pilot Testing Design- Phil Brown		Northshore Utility District's Approach to the Condition Assessment of Bar Wrapped Pipe- Michelle Kerr (WDOE CEUs)	Using Line-stops To Create Rural Water Service Zones From The Old 14-inch Transmission Main- Dan Johnston			
	Kennewick ASR Pilot Testing, Operations and Maintenance- Kenny Janssen		Squeezing Additional Life Out of a 100-Year-Old Reservoir- Jennifer Garbely	Protect Your Pipe: Invest in the Next 100 Years- Jeff Blakely (WDOE CEUs)			
	Kennewick ASR Facility Tour- David Kuhns		Criticality Analysis: The Important Pipes Below- Joseph Foote	Seattle Public Utilities' Critical Pipeline Protection for Sound Transit's Light Rail Northgate Link Extension- Michael Norton			
Asbestos-Cement Pipe: Asset or Liability- Douglas Schlepp (WDOE CEUs)			Electric Water: PWB/Lucid Energy Hydroelectric Project- Matt Hickey (No ID CEUs)				
CEUs	ID-0.6 / OR-0.6 / WA-0.6	ID-0.3 / OR-0.3 / WDOH-0.3 / WDOE-0.15	ID-0.25 / OR-0.3 / WDOH-0.3 / WDOE-0.1			ID-0.4 / OR-0.4 / WA-0.4	

Thursday, May 4

Morning	Early Bird Session							
Room	A	B	C	D	E	F	G	H
Hosting Committee		Community Engineering Corps	Distribution	Engineering	Water Quality	ORWARN	Historian	Water Treatment
Moderator		Carrie Pak	Chris Wanner	Greg Loscher	Kim Ervin	Mary Ellen Collentine	Catherine Howells	Josh Kennedy
7:15 - 8:15		Community Engineering Corps®: Two Case Studies from the Pacific Northwest Section- Patrick Weber, Joanie Stultz, John Roth	Optimizing System-Wide Flushing with a UDF Pilot Plan- Aurelie Nabonnand	Water Supply Power Optimization- Bill Carr (WDOE CEUs)	Field & Laboratory Tests To Evaluate Nitrification In the System- Kimberly Gupta (WDOE CEUs)	When The Oil Train Comes Knocking - Derailment and Fire at the Mosier WWTP- Richard Wolf (No ID, WDOH CEUs) (WDOE CEUs)	History of Tri-Cities Water- Catherine Howells	Washington's Tracer Study Project- Nancy Faegin
			Unidirectional Flushing: A Return on Experience- Aurelie Nabonnand	Pilot Testing of Thermal Aquifer Storage and Recovery for Industrial Water Supply- Christopher Augustine	UCMR4 - Where Are We Going and What Will We Find?- Ali Leeds			
CEUs		ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.0 / OR-0.1 / WDOH-0.0 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1

Afternoon	Afternoon Regular Technical Session							
Room	A	B	C	D	E (Poster Contest-Morning)	F	G	H
Hosting Committee	Water Resources	Customer Service	Distribution	Engineering	Cross-Connection	Water Info Tech	Research	Water Treatment
Moderator	Walt Burt	Tonya Reiss	Doug Schlepp	Erika Murphy	Christine Hollenbeck	Robert Barrett	Alex Mofidi	Bill Evans
1:30 - 2:30	Basin Studies: Projecting Impacts of Climate Change on Water Resources- Jennifer Cuhaciyen	Customer Service & Operator's Perspective- John Roth (WDOE CEUs)	From Layups to Dunks: Rezoning for Operational Efficiency Without Impacting Critical Customers- Tom Malphrus	Commissioning on Steroids in Lake Oswego and Tigard: How We Commissioned 6 Major Facilities, Started Supply to a New City, Maintained Existing Operations, and Lived To Tell About It!- Kari Duncan	Cross Connection Control: Albany's Experience- Jeff Kinney	Pipeline Assessment Technology For the Next Generation- Margaret Cassidy	Treatment in a Trailer: Tool for Resiliency- Andrew Nishihara	How Changing Chlorine Residual Requirements Will Impact DBP Formation- Damon Roth
	Separating the Effects of Climate Change and Groundwater Pumping on Seasonal Low Streamflows in the Spokane River- John Porcello		Three Birds with One Stone: Water System Planning, Operations & Maintenance Manual Updates, and Asset Management- Josh Miner	Chinook WTP: Challenges With Treating The Milk River- Jeff Ashley		Integration of Emerging Technologies: An Innovative Approach- Nicole Kaiser	Water System Resilience- Dave Evonuk	
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
2:30 - 2:45 Break								
2:45 - 3:45	Climate Change – How Will It Impact Your Community's Long-Term Water Supply?- Julie Smitherman	A Better Path to Advanced Metering Infrastructure- Brett Foreman	Resurrecting A Unidirectional Flushing Program: The Real Cost Of Deferred Valve Maintenance- Dave Muto	Sludge Lagoons in the Northwest: Is the Tried-and-True Still Applicable?- Qianru Deng	Public Education and Your Cross Connection Control Program- Mary Howell	Mobile, Cloud, & Cyber Security- Arnab Bhowmich (WDOE CEUs)	Portland's Recent Experiences With the Lead & Copper Rule: An Extension Education & Outreach Program, A Corrsion Control Study, & Working With Schools & Other Public Facilities to Test For Lead- Kimberly Gupta	The Taste of Victory - Taste Testing to Find Lower Cost Solutions to Groundwater Treatment- Benjamin Haws
			Resurrecting A Unidirectional Flushing Program: Getting the Program Up and Running- Paige Igoe	Evaluating Membrane Filtration Performance Guarantees- Nikki Mayer		Utilizing Technology To Secure Critical Water Infrastructure To Comply With Regulations- Jeremy Djajadi (WDOE CEUs)	No Good Deed: Tacoma Water's Search for Lead Goosenecks- Craig Downs	Evaluation and Preliminary Design of Aesthetic Water Quality Treatment Improvements- Milton Larsen
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1
3:45 - 4:00 Break								
4:00 - 5:00	Yakima's Water Supply in Climate Change- David Brown	Setting Up a Customer Sampling Program - One Utility's Experience- KT LaBadie	Meeting The New Guidelines for Main Break Classifications and BMPs - David Stanley	Rapid Alternative Screening and Facility Planning for Project Definition at the JWC WTP- Kim Ervin	Reduced Pressure Principle Backflow Assembly "What Is It? How Does It Work?"- Garrett Yates (WDOE CEUs)	SCADA Remote Access Techniques & Best Practices- Robert Barrett (WDOE CEUs)	Opportunistic Premise Plumbing Pathogens: Applications of the Safe Drinking Water Act to Buildings- Sam Perry	Bend's New High Recovery Membrane Filtration Plant: Overview and First Year of Operation- Bryan Black
	North Santiam Watershed Drought Contingency Plan: Collaborative Planning for Changing Conditions- Brent Stevenson	Achieving Good Internal Customer Service is Essential in Every Organization- Tonya Reiss (WDOE CEUs)	Large Diameter Wet Taps vs. The Cut & Section- Nathan Morgan	Advancing the Design of a New 60 MGD Water Treatment Plant- Austin Peters (No ID CEUs)		Building Redundancy Into Critical SCADA Communications Infrastructure- Andrew C. Degner (WDOE CEUs)	Risk Assessment and Control of Legionella and Pathogens of Emerging Concern for Buildings and Small Systems- Alex Mofidi	Inline Coagulation to Control DBP Formation in Membrane Filtration Plants- Dan Hugaboom (WDOE CEUs)
CEUs	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.1 / OR-0.1 / WA-0.1	ID-0.05 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05

Friday, May 5

Morning Regular Technical Session								
Morning	A	B	C	D	E	F	G	H
Room	Water Resources\Water Conservation	Wastewater	Distribution	Engineering	Water Quality (must attend all 3 hours for credit)	ORWARN	Utility Management	Water Treatment
Moderator	Patrick Craney	Eric Schey	Tom Keown	Tom Boland	Kyle Thompson	Mary Ellen Collentine	Barry Buchanan	Bob Bergstrom
7:30 - 8:30	From DSL to IWA/AWWA Best Practice Water Loss Audit in Spokane- Jeanne Finger	Oxidation Ditch Management- Chad Clay (Wastewater CEUs Only)	These Customers Won't Go Thirsty: Improving Water System Operations and Redundancy with a Replacement Water Pump Station and Seismic Upgrades- Daphne Marcyan	Design And Construction Of A Backup Power System To Supply The New Ridgewood View Park Pump Station- Nicholas Augustus (WDOE CEUs)	Flint Michigan Distribution System Water Quality and Corrosion Control Assessment (3 hour panel)- Melinda Friedman, Dr. Steve Reiber, Dr. Stephen Booth, Andrew Hill, Damon Roth	Emergency Water Supply Guidebook For Commercial, Industrial & Institutional Customers- Jill Hoyenga (No ID CEUs)	Workforce Development and University Students- Catherine Howells (WDOE CEUs)	Disinfection Data Integrity - Accuracy and Precision in Treatment- Steve Deem
	Outdoor Water Conservation as a Source of Supply: Survey of Northwest Communities & Vancouver Case Study- Rachael Lanigan	Biosolids Management for Lagoons- Chris Chesson (Wastewater CEUs Only)	Seismic Upgrade to a Reservoir Foundation - Managing the Project Hurdles to Completion- Michael Grimm	Evaluating The Emergency Power Needs And Recent Emergency Power Installations At A Large Water Utility- Tyler Clary			Willamette Water Supply Program's Proactive Communication Approach to Right-of-Entry- Marlys Mock (No ID CEUs)	Lessons Learned from Walla Walla: Eastern Washington's Largest GC/CM Water Project- Pierre Kwan
CEUs	ID-0.1 / OR-0.1 / WA-0.1	DW ID-0.0 / OR-0.0 / WDOH-0.0 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05		DW ID-0.0 / OR-0.1 / WDOH-0.1 WW ID 0.0 / OR-0.1 / WDOE-0.0	ID-0.05 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.1 / OR-0.1 / WA-0.1
8:30 - 8:45 Break								
8:45 - 9:45	Bend's Strategies for Making Conservation a Reliable Part of It's Long Term Water Supply Portfolio- Patrick Griffiths	Process & Instrumentation Diagrams- Bud Titus (Approved for water CEUs in ID & WA)	Seismic Resiliency: Upgrading a Treated Water Reservoir and Transmission Pipelines for the Big One- Deborah Russell	Cascadia Lifelines Program- Carrie Pak (WDOE CEUs)	Flint Michigan Distribution System Water Quality and Corrosion Control Assessment (3 hour panel)- Melinda Friedman, Dr. Steve Reiber, Dr. Stephen Booth, Andrew Hill, Damon Roth	Resilient Asset Management For Emergency Management- Arnab Bhowmick (WDOE CEUs)	The Path to Potable Reuse- Kim Ervin (No ID CEUs) (WDOE CEUs)	Full Scale Performance Demonstration of New Media Configuration at the JWC WTP- Enoch Nicholson
	M50, Water Resources Planning: Spotlight on Sustainability- Alena Thurman (No ID CEUs)		Planning For Seismic Resilience In Gresham's Water System- Rachel Lanigan	What Does It Take for a Large Regional Water Supply System to Achieve Seismic Resiliency?- Mike Britch		Maintaining Service Through Resiliency And Emergency Response- Chris McMeen	Blueprint for One Water- Wendy Broley (WDOE CEUs)	Getting to Non-Detect PFCs in Drinking Water as Fast as Possible: the City of Issaquah, WA Experience- Beth Mende
CEUs	ID-0.05 / OR-0.1 / WA-0.1	DW ID-0.1 / OR-0.0 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05		DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID 0.0 / OR-0.1 / WDOE-0.05	ID-0.05 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1
9:45 - 10:00 Break								
10:00 - 11:00	Making the Case for Cost-Effective Conservation Programs- Edward Cebron (WDOE CEUs)	Network Fundamentals- Bud Titus (Approved for water CEUs in ID & WA)	SERP's Up! (Seismic Evaluation and Resiliency Planning) Are You Catching The Wave?- Brian Murphy	A Collaborative Approach to Infrastructure Reliability- Jason Chen	Flint Michigan Distribution System Water Quality and Corrosion Control Assessment (3 hour panel)- Melinda Friedman, Dr. Steve Reiber, Dr. Stephen Booth, Andrew Hill, Damon Roth	Providing Emergency Services - Grants Pass' Approach to Drinking Water Supply- Craig Kuhnert	One Water Los Angeles 2040 Plan: Managing All Water as One Water Using a Water Balance Model- Mathew Huang (WDOE CEUs)	Innovative WTP Upgrades Reduce DBPs and Improve Water Quality- Todd Reynolds
			When the Drought Takes Your Supply Out: Quickly Designing and Constructing Pump Stations with Existing Equipment to Address a Water Supply Shortage- Marshall Meyer	Alternatively Delivering the Best Value- Jenn Minton (No ID CEUs)			OWUC Ozone Coalition – Collaborating with Regulators to Protect Public Health- Eric Mende	
CEUs	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE 0.1	DW ID-0.1 / OR-0.0 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.3 / OR-0.3 / WA-0.3	DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID 0.0 / OR-0.1 / WDOE-0.0	ID-0.05 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.1 / OR-0.1 / WA-0.1

Afternoon	Afternoon Regular Technical Session							
Room	A	B	C	D	E	F	G	H
Hosting Committee	Water Conservation\Water Info Tech	Wastewater	Distribution	Engineering	Water Quality	Water Info Tech	Competitions	
Moderator	Mike Buettner	Eric Schey	Logan Fesenmair	Carmen Brown	Mike Grimm	Rob Barrett	Doug Priest	
1:30 - 2:30	Conservation Targeted at Low Income Customers: Evaluating a Pilot Program- Edward Cebron (No ID CEUs)	Ballasted Sedimentation- Jeff Marrs, Tina Hastings (Approved for water CEUs in all 3 states)	Using Pressure Data Loggers To Improve Hydraulic Model Accuracy And To Troubleshoot Distribution System Problems- Ryan Withers	Bridging the Gap between Master Planning and Design of a 5 MG Reservoir to Better Serve Customers- Alena Thurman (No ID CEUs)	DBP Formation Study in Groundwater Wells- Jolyn Leslie	Integrating Asset Management: Internet of Things (IoT)- Arnab Bhowmick (WDOE CEUs)	Gimmicks & Gadgets (No ID CEUs)	
	GIS: A Tool for Water Conservation Planning & Tracking- Rachel Lanigan		Pocatello Master Planning – Balancing System Pressures and Fire Protection- David Stangel	Union Regional Water System - Consolidation of Six Small Water Systems- Karl Johnson	Balancing DBP Formation with Corrosion Control Concerns for a Blended Water Supply on Maui- Bill Persich	Automated Meter Reading Systems: Broken to Fixed- Mark Cummings		
CEUs	ID-0.05 / OR-0.1 / WA-0.1	DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.05 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.0 / OR-0.1 / WA-0.1	
2:30 - 2:45 Break								
2:45 - 3:45	New Automated Leak Detection and Resolution Solutions for Non-AMI and AMI Environments- Brett Foreman	Operator Involvement in Capital Facility Planning- Ed Griffenberg (Approved for water CEUs in all 3 states)	Portland Water Bureau's Water Quality Corrosion Study- Kimberly Gupta	Overcoming Inertia: Advancing from Concepts And Planning To Delivery Of Infrastructure- David Kraska (No ID CEUs)	Lead Sampling Strategies- Damon Roth	Turning Data to Knowledge- Barry Buchanan (WDOE CEUs)	Top Ops (No ID CEUs)	
			The Circuitous Path to Success – WWSP Design, Construction, and Coordination Challenges- Mike Britch (No ID CEUs)	Splitting The Watermelon – WWSP Packages \$1.0 B In Infrastructure- Tim Tekippe (No ID CEUs)	A Holistic Look at the Presence of Lead in Water Distribution Systems- Benjamin Klayman			
CEUs	ID-0.1 / OR-0.1 / WA-0.1	DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.05 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	ID-0.0 / OR-0.1 / WA-0.1	
3:45 - 4:00 Break								
4:00 - 5:00	Automated Metering Infrastructure: Five Years In- Jesse Engum (WDOE CEUs)	Remote Control of Treatment & Pumping Facilities- Chad Clay (Approved for water CEUs in all 3 states)	City of San Bruno Glenview Water Tank 3: Building a Critical Piece of Infrastructure Adjacent to the San Andreas Fault- Jeffrey Wanlass	Construction Partnering Between Agencies – Who Takes the Lead?- Joelle Bennett (No ID CEUs)	Practical Training Methods for Water Main Disinfection- Eloise Eccles	Aquadvanced Energy - Suez Water Idaho, Paving the way to System Optimization- Michael Espejo		
		Jump Start Plant Maintenance Efficiency with Appropriate Equipment Disconnects- Kolby Hoaglund, Mike Hetzler (Approved for water CEUs in all 3 states)	TVWD/City of Tualatin's 10 MGD Portable Emergency Pump Station: Providing Supply Redundancy to a Single-Source Service Area and Adjacent City- Peter Boone	Davis-Woodland Water Supply Project: Quest for Reliability, Innovation & Affordability Becomes A Reality- Lindsay Smith (No ID CEUs)	Managing Hypochlorite to Reduce Chlorate Formation: A Utility Case Study- Kimberly Gupta (WDOE CEUs)			
CEUs	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.1	DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	ID-0.1 / OR-0.1 / WA-0.1	ID-0.0 / OR-0.1 / WA-0.1	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	ID-0.1 / OR-0.1 / WA-0.1		
Legend:	ID-0.1 / OR-0.1 / WA-0.1	This denotes the amount of drinking water CEUs in all three states	ID-0.1 / OR-0.1 / WDOH-0.1 / WDOE-0.05	This denotes the amount of drinking water CEUs in all three states and waste water CEUs in WA only	DW ID-0.1 / OR-0.1 / WDOH-0.1 WW ID-0.1 / OR-0.1 / WDOE-0.1	This denotes the amount of drinking water and wastewater CEUs in all states	WDOH = Washington Department of Health (drinking water)	WDOE = Washington Department of Ecology (wastewater)