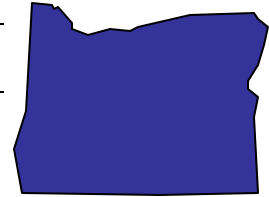




State of Oregon and ITRC

“ITRC – Promoting better decisions while shaping the future of regulatory acceptance for innovative environmental technologies and approaches”



The Interstate Technology and Regulatory Council (ITRC) is a state-led coalition working together with federal partners, industry, academia and stakeholders to achieve regulatory acceptance of innovative environmental technologies and approaches. Through the development of consensus-based tools and resources ITRC’s state-led technical teams provide information to facilitate confident technical decision-making on environmental issues in the states. The ITRC was created in 1995 by the Committee to Develop On-Site Innovative Technologies under the Western Governors’ Association. Today, ITRC is a committee formed under the bylaws of the Environmental Research Institute of the States (ERIS), which is the research and educational arm of the Environmental Council of the States (ECOS).

ITRC tools and resources help Oregon save time and money:

- ***Solvent Cleanup enhanced through ITRC training-*** Bruce Gilles applied knowledge learned from ITRC Classroom Training and guidance document *Enhanced In Situ Bioremediation of Chlorinated Solvents in Groundwater* in the cleanup of solvents at several dry-cleaning sites in the Portland area. Mr. Gilles implemented an ITRC backed in situ bioremediation remedy to a chlorinated solvent plume emanating from the Mears Trust site, migrating toward nearby Beaverton Creek.
- ***Phytoremediation technology implemented with ITRC help-*** ITRC’s *Guidance for Phytoremediation* was useful in evaluating proposals and implementing Phytoremediation technology at the Rhodia Inc. and Cascade Corporation sites in Portland. Groundwater contamination poses a threat to both human and ecological receptors at both sites.
- ***In Situ Chemical Oxidation (ISCO) training from ITRC proves valuable-*** Participating in an ITRC internet-based training on ISCO, Dan Hafley of the Oregon DEQ found valuable assistance in assessing a proposal to use the technology to treat chlorinated solvent contamination in groundwater at one of his cleanup sites. “Several ITRC guidance documents have proven useful in assessing the potential remediation strategies at several sites in the Portland area,” states Mr. Hafley.
- ***Diffusion Sampler Bags information helpful to Mt. Scott Creek Cleanup-*** ITRC internet training on Polyethylene Diffusion Bags provided valuable information to Max Rosenberg, an Oregon DEQ Project Manager, who used the information to determine if the technology would be applicable at a Department of Transportation site with chlorinated solvent contaminated groundwater migrating toward Mt. Scott Creek.

- ***ITRC helpful in assessment and cleanup of Small Arms Firing Ranges***- Internet-based training on Small Arms Firing Range cleanup is being applied successfully to contaminated sites in the Western region of the state.
- ***Diffusion Bag Sampler CD helps get approval of technology***- Teresa Danovich utilized the information from the ITRC-produced Diffusion Sampler CD in examining the pros and cons of the application of, and ultimately approving, this sampling technology at the Selmet, Inc. site in Albany.
- ***Paradigm Changes occur through long-term involvement in ITRC***- Oregon has been involved with the ITRC since 1995 and Bill Mason, Oregon DEQ's original point of contact, has regularly utilized ITRC training and documents. "These documents become a part of our regular business for all sites. For example, any site where we've used natural attenuation has been influenced to some degree by the ITRC courses and technical and regulatory guidance documents," said Mr. Mason
- ***Small Arms Firing Range Training highly successful in Oregon***- When everyone has a common understanding of the issues, problems and potential solutions, it is much easier to develop meaningful solutions to those problems. In Eugene, the parties involved with a small arms firing range participated in the SMART internet-based training so everyone could have the same understanding about methods of assessing firing range sites. "Several site-specific questions were answered during the training and those involved were complimentary of the technical content of the course," said Geoff Brown of the DEQ staff.
- ***Constructed Treatment Wetlands document is used by contractors*** – Response to the ITRC Constructed Treatment Wetlands document has been very positive, according to Dennis Jurries of the DEQ Water Quality Program who distributed the document to contractors working on constructed treatment wetlands projects.
- ***Identifying potential sources of chemicals with the help of ITRC***- Anna Coates was able to use the Closed Small Arms Firing Ranges document to assist with the identification of potential sources within the firing range and selection of chemicals of interest at the project.
- ***ITRC is the backbone of routine work in the Oregon DEQ***- "These stories show that the cleanup staff is beginning to use ITRC products in routine work and to rely on ITRC website, training and documents as an important resource. DEQ staff has begun to reach out to ITRC for information in the same way they have done with EPA. These aren't always flashy, million dollar savings outcomes, but rather a growing integration of ITRC products into the fabric of cleanup work in our state," highlights Mavis Kent who serves as a member of the ITRC Advisory Board and who acts as the coordinator of the 43 state points of contact for ITRC.

Through ITRC Oregon leverages resources from across the country:

- Oregon's environmental experts receive free on-line training – 179 participants trained in Oregon including 95 Oregon state and local government participants
- Classroom training, free to regulators, brings hands-on tools to better prepare environmental professionals to make better decisions-37 trained from Oregon
- Oregon shares expertise by participating on 16 ITRC technical teams and in return has access to a national network of experts. In addition, the state has a member on the ITRC Board of Advisors as a result of her position as State Engagement Coordinator with the 43 state Points of Contact in the ITRC.

Oregon's use of ITRC resources leads to better decision-making:

- Improved permitting processes
- ITRC information leads to faster cleanup decisions
- ITRC experts provide knowledge transfer and guidance on complex issues
- Members dedicated to optimizing state resources and reducing compliance costs while protecting human health and the environment

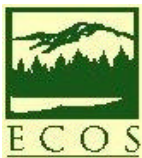
ITRC creates a cultural shift in the way cleanup is planned & implemented:

- Reduces regulatory barriers for the use of innovative technologies for environmental remediation through guidance documents and sharing of technical expertise
- Leads a culture change in environmental decision-making, replacing long-standing adversarial relationships with collaboration, consensus and concurrence

Additional Information:

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