

2021 ITRC Priorities

ITRC developed the 2021 ITRC Priorities using the results from the **2020 ITRC State Engagement Program Environmental Priorities** survey and the **2020 ITRC Membership Environmental Priorities** survey. We encourage proposals that will address these priorities, but we will also consider proposals that address environmental issues not included in this list. ITRC will also consider proposals that would update existing ITRC documents. View existing ITRC documents [here](#).

The priorities listed below are not in any order of significance.

Emerging Contaminant Management

- ❖ General guidance and BMPs on how to manage emerging contaminants, such as ethylene oxide (EtO), TCE, nano-tech residual, etc.

Brownfields Assessment and Cleanup Technologies

- ❖ New and emerging technologies for remediation
- ❖ Optimization of brownfield reuse, efficient technology, and overcoming sites with limited funding

Coal Ash Disposal

- ❖ Coal combustion residuals storage, evaluation, and remediation options

De-icing Fluids

- ❖ De-icing salts and fluid toxicity contaminated sites (including interference with petroleum contamination)
- ❖ Reducing surface water impacts from de-icing materials and other chemicals

General Training for Environmental Professionals

- ❖ Guidance and BMPs for new employee (junior and inexperienced staff) onboarding in an effective timeframe.
- ❖ Statistics training for the increased use of statistics to evaluate chemicals in air and water

Background Concentrations in Groundwater

- ❖ Evaluating metals in groundwater when natural background concentrations exceed screening levels
- ❖ Differentiating between background values of inorganics in groundwater from potential source contamination and evaluating the implementation of monitored natural attenuation (MNA)

Public Water Supplies / Water Quality / Infrastructure

- ❖ Assessing deteriorating and outdated water distribution infrastructure
- ❖ Contaminated stormwater ponds remediation
- ❖ Pharmaceutical and personal care products in public water supplies
- ❖ Evaluating potential methods for remediation of endocrine disruptors

- ❖ Pros and cons to re-introducing highly treated wastewater to promote drinking water sustainability, aquifer protection, land subsidence prevention, and saltwater intrusion
- ❖ Disinfection methods for treatment and pre-treatment of rural water

Wastewater Treatment / Nutrient Loading

- ❖ Reducing nutrient levels in wastewater effluent
- ❖ Aging infrastructure and costs to upgrade facilities
- ❖ Managing residual combined sewer and storm water discharges to meet water quality standards.
- ❖ Treatment of high strength wastes (i.e. septic waste, landfill leachate, food processing wash water, etc.)
- ❖ Implementing nutrient management plans for confined animal feeding operations (CAFOs)
- ❖ Investigation and remediating manure discharged to soil, groundwater, surface water and sediments

Resiliency Preparedness / Sustainable Energy and Infrastructure

- ❖ Addressing infrastructure resiliency planning for flooding and coastal flooding
- ❖ Sustainable infrastructure, including international summaries of existing decision frameworks for municipal and state regulators
- ❖ Greenhouse gas reporting and monitoring
- ❖ Sustainable energy and transportation development strategies to reduce greenhouse emissions

Mining Waste

- ❖ Identifying and advancing technologies for mining remediation with a focus on MIW and source control technologies

Fracking / Produced Water

- ❖ Produced water and brine remediation in soil and groundwater
- ❖ Reassessment of the impact of fracking fluids on public waterways, water supplies (due to concerns of Technically Enhanced Radioactive Material in leachate from landfills to sewage treatment plants discharged to public waters) and wastewater systems

Recycling and Composting

- ❖ Food waste reduction, diversion, and composting programs (including the challenges related to compost leachate and leachate treatment requirements)
- ❖ Recycling and waste management practices, including electronic waste