

# PFAS Solutions

Republic Services offers innovative technologies and expertise to safely and compliantly manage per- and polyfluoroalkyl substances (PFAS) waste.



**REPUBLIC**<sup>®</sup>  
SERVICES

Sustainability in Action

Republic Services is a leader in environmental services, offering customers the most complete set of solutions from a single company.

Our solutions protect human health and the environment from PFAS contaminants. Our solutions align with the federal and local regulations and guidance for PFAS treatment and disposal.

## Accepted Waste Streams

- Aqueous film forming foam (AFFF) and fire-related debris
- Contaminated or impacted soil, sludge and biosolids
- Liquid and liquid-phase waste
- Wastewater, leachate, filter cake
- Investigation-Derived Waste (IDW)

## PFAS Solutions

- RCRA Subtitle C, secure disposal, including arid climate landfill
- Injection well disposal
- Thermal treatment
- Wastewater treatment: carbon filtration, ion exchange or resin filtration systems
- Waste transportation and disposal via truck, tanker and rail

## Value of Our PFAS Solutions

- Cost-effective
- Safe and compliant with evolving regulatory framework
- End the mobility cycle
- Unmatched capacity and capabilities
- Professionally trained and experienced team members
- State-of-the-art equipment
- Customized solutions for any project size or complexity
- Turnkey services, including industry-leading recycling, treatment and disposal



LANDFILL  
DISPOSAL



INJECTION  
WELL  
DISPOSAL



THERMAL  
TREATMENT



INDUSTRIAL  
SERVICES  
FOR AFFF



REMEDIATION



## Landfill Disposal Solutions

### RCRA Subtitle C and D Landfills

Through a nationwide network of RCRA Subtitle C and D, EPA-permitted and regulated landfills, we provide secure PFAS disposal options for commercial and government entities. Our facilities are specifically designed for secure, long-term disposal and PFAS sequestration, ensuring protection from further environmental impact, including extensive leak, groundwater and air monitoring systems, leachate collection and treatment in place.

### Our Landfills

**Michigan — Belleville Facility**

**Texas — Robstown Facility**

- Part B permitted treatment facility and Subtitle C, RCRA/TSCA landfill
- Fully compliant with RCRA Subpart CC emissions standards
- Manages nearly all federal and state waste codes
- Onsite laboratory
- Thermal Disorption Unit with shredder

### Our Arid-Climate Landfills

**Nevada — Beatty Facility**

**Idaho — Grand View Facility**

- Part B, RCRA/TSCA facilities are permitted for stabilization and responsible disposal of hazardous waste
- Accept solids, liquids and AFFF
- Fire extinguishers are de-pressurized and dismantled followed by the secure disposal of all materials
- State-of-the-art landfill cells feature double composite liner systems, leachate collection, leak-detection systems and treatment

### Benefits of Arid Climate Subtitle C Landfills

- Remote, arid climates provide secure disposal with zero discharge offsite
- Superior geological conditions, deep groundwater and massive clay deposits
- Low population density and limited growth
- Stringent facility designs complement existing natural protections
- High net pan evaporation rates



## Injection Well Disposal Solutions

### Class I & II Injection Wells

Disposal of hazardous and non-hazardous waste into deep, confined rock formations. Injection wells offer safe, compliant and cost-effective wastewater disposal solutions.

#### Accepted PFAS Liquid Waste

- Landfill leachate
- AFFF
- End-of-life products, like cleaning solvents
- Process water residual from manufacturing facilities

#### Safety and Compliance

- Waste streams stored until injected
- Waste sampled and analyzed to ensure injection compatibility
- Over 4,500 feet deep with approved Class I no-migration petitions
- Liquids with high solids content handled with filter press system
- Annual Mechanical Integrity Testing (MIT)
- Material fully encapsulated eliminating further environmental impact
- Cost-effective
- Adheres to EPA guidance for PFAS-contaminated liquid waste

### Our Injection Wells

**Texas — Winnie Facility**

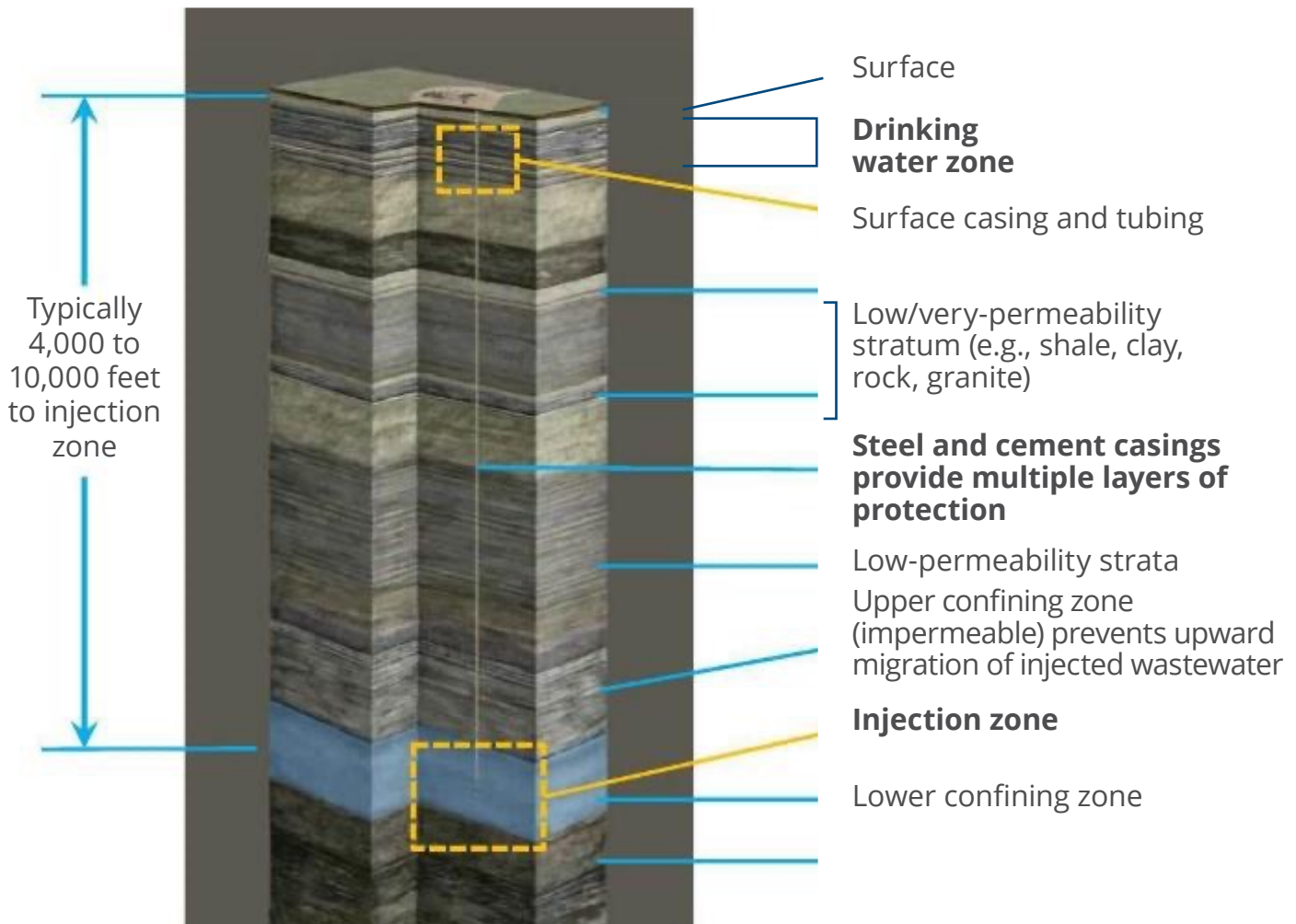
**Michigan — Detroit Industrial Well**

- Permitted for all Class I and Class II non-hazardous industrial waste
- Multiple steel and cement barriers and constant monitoring prevents leakage
- Safe, cost-effective alternative to traditional wastewater treatment options
- Accept hazardous wastewater as bulk waste, tankers, small containers and totes by road or rail



## Injection Well Construction

Multiple layers of rock and shale form an impermeable barrier that prevents migration of injected fluids.





# Thermal Treatment Solutions

The 2026 DoW Updated Interim Guidance on Destruction or Disposal of Materials Containing Per- and Polyfluoroalkyl Substances in the United States identifies Thermal Desorption Units (TDU) as one of the commercially available options for managing PFAS-contaminated materials.

We operate a permitted Thermal Desorption Unit (TDU) at our Moose Creek Thermal Treatment Facility, designed to treat contaminated soils through controlled heating, gas collection, and thermal oxidation.

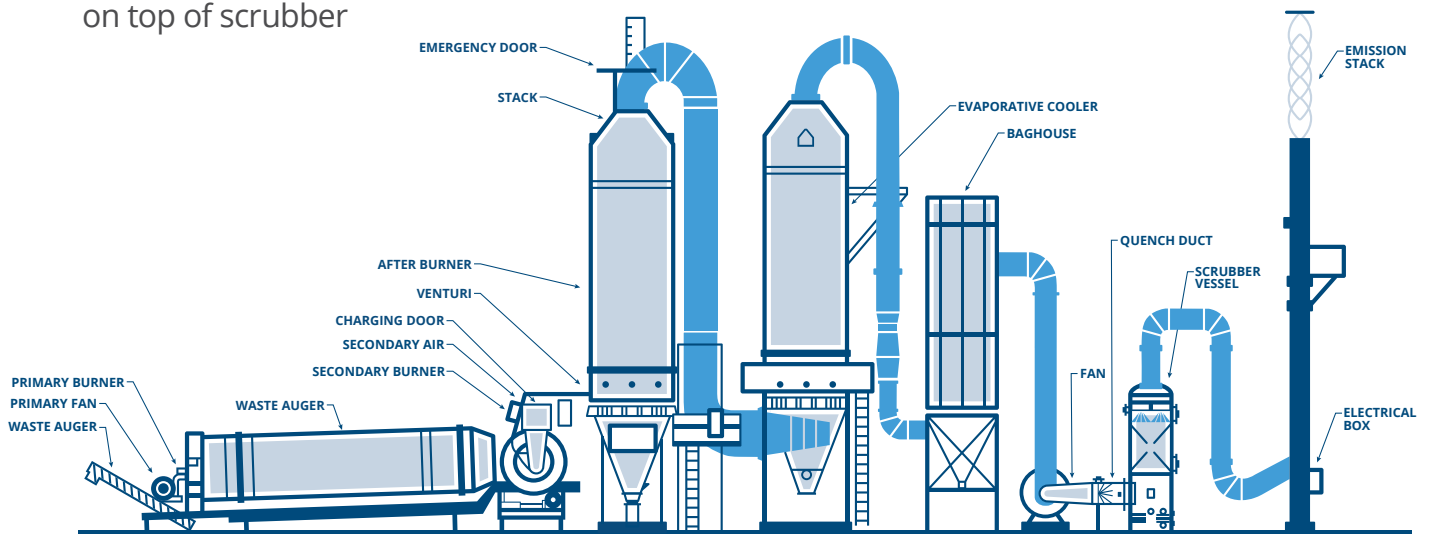
## The Thermal Treatment Process

1. Ensure materials are non-RCRA or RCRA exempt
2. Inject contaminated soil into a kiln
3. Heat the soil to 800-1200°F
4. Draw gas vapors and particulates into secondary combustion chamber to destroy PFAS compounds with 1500-2000°F temperatures
5. In the cooling tower, spray gases and particulates with water to cool to 350°F
6. Cool exhaust gases in quench duct before they enter scrubber
7. Neutralize exhaust gases using caustic solution
8. Exhaust gases through a stack on top of scrubber

## Our Thermal Facilities

### Alaska — Moose Creek Facility

- High temperature thermal oxidizer
- Remediates any level of hydrocarbon contamination
- Off-gas capture, thermal oxidation, and wet scrubber systems for complete HF emissions control
- Achieves 99.99%+ Destruction Removal Efficiency (DRE) of PFAS in contaminated soils
- Assures air quality is 5x cleaner than stringent state regulations





## Industrial Services for AFFF

Our Industrial Services professionals have the latest equipment and training to safely and efficiently decommission large-scale AFFF deluge hangar fire suppression systems and manage handheld fire extinguishers.

### Capabilities

- Evacuate AFFF concentrate from fire suppression system tanks
- Dismantle tanks, hose reels, piping and valve removal
- Remove AFFF bladders
- Transport and dispose of AFFF and rinse waters in drums, totes or bulk tankers
- Transport LTL for small quantities
- Containerize and transport debris and piping in roll offs
- 24/7 Emergency Response



## Remediation

We work with government, engineering and consulting firms nationwide to provide soil remediation and environmental cleanup services that remove and dispose of PFAS-contaminated soil, water, sediment and debris.

### Capabilities

- Close biosolid impoundments
- Dewater and remove sediment from stormwater ponds
- Excavate and restore wetlands
- Decontaminate facilities
- Excavate and restore fire training areas
- Services at airports & USAF bases

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