

# IN-WELL REMEDIATION SERVICES

# ART

*Accelerated Remediation Technologies, Inc*

## DYNAMIC SUBSURFACE CIRCULATION



**ACCELERATED  
REMEDIATION  
TECHNOLOGIES, INC.**



# ART

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# PFAS case study



## Site Overview & Implementation

**Hydrogeology:** Fill materials underlain by silty, clay-rich sand, with groundwater at ~26-28 ft depth

**Contaminants of Concern:** PFAS, chlorinated VOCs, DNAPL, LNAPL

**Prior remediation efforts:**

- Soil Vapor Extraction/Air Sparging (2004)
- Enhanced In-Situ Bioremediation (2016-2020)



## Performance & Results

**Groundwater PFAS Reduction:** Sustained ~40% reduction in monitoring wells in two months

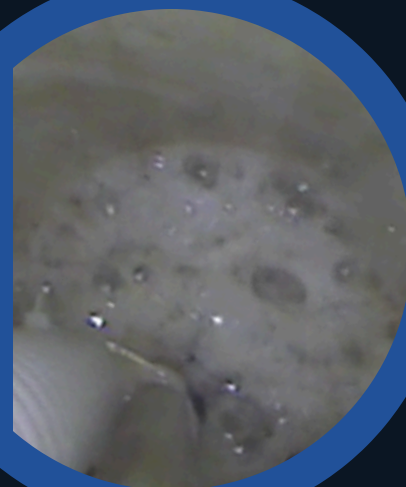
**Total PFAS Removed:** Significant mass reduction, preventing migration and exposure risks

**Foam Recovery:** 50 gallons of concentrated PFAS-laden foam collected

## PFAS in Groundwater at ART Well

Sampling Date	PFAS Concentration (ng/L)	Reduction Percentage (%)
Baseline (9/26/22)	2,930	0%
Week 3 (10/14/2022)	1,575	46%
Week 17 (1/20/23)	297	90%
Week 19 (2/2/23)	353	88%

Photo: Inside operational ART-PFAS Well



## Conclusion

**ART-PFAS Technology** demonstrated groundbreaking efficiency in **in-situ PFAS remediation**, with **proven cost-effective, scalable, and efficient contaminant removal**. The technology is now scheduled for additional installations nationwide.

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# ART-PFAS TECHNOLOGY CASE STUDY

## A Breakthrough in In-Well Groundwater Recirculation & Foam Fractionation for PFAS Remediation

### AT A GLANCE

- **Client:** Former industrial site, New Jersey
- **Technology Used:** ART-PFAS (In-Well Circulating Foam Fractionation & Volatilization)
- **Implementation Duration:** 4-month pilot → Full-site implementation
- **Key Outcome:** 90-99% PFAS reduction within weeks

### KEY METRICS



**10,000X**

more efficient than traditional methods



**300X**

PFAS concentration in enriched foam reached



**500,000+**

gallons of groundwater treated, 50 gallons brought to surface



**90%**

reduction in PFAS groundwater concentration reached



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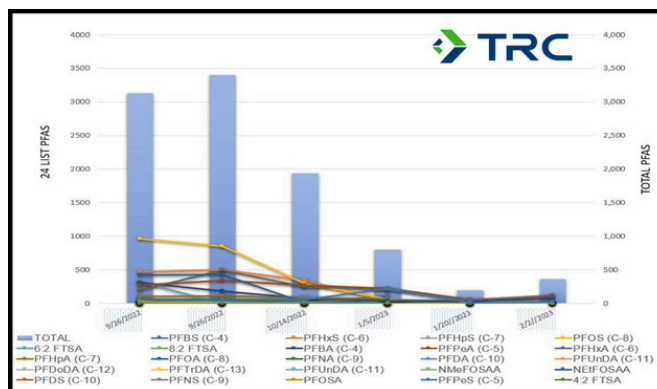
### 2024 ENVIRONMENTAL BUSINESS JOURNAL TECHNOLOGY MERIT AWARD

The 2024 Technology Merit Award was awarded for the use of the ART-PFAS technology in this remediation project.

### SOLUTIONS

- **ART-PFAS Technology:** Uses groundwater recirculation and foam fractionation to extract PFAS without excessive water pumping
- **Fractionation & Volatilization:** Targets PFAS compounds, maximizing recovery efficiency
- **Permanent Removal:** Unlike carbon injection (temporary fixation), ART-PFAS eliminates contaminants from the subsurface

### PFAS IN GW OVER PILOT DURATION



### BENEFITS

1

#### vs. Pump & Treat:

- No excessive water extraction (only foam recovery)
- 10,000x efficiency increase

2

#### vs. Carbon Injection:

- Permanent PFAS removal (not just immobilization)
- No need for future repeated treatments

3

#### Greater Efficiency, Reduced Costs

- ART-PFAS minimizes water extraction and maintenance.
- Lower operational and lifecycle costs.
- Greater sustainability for site owners.



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