



NEW REMEDIATION TECHNOLOGIES AND NATURAL-BASED SITE CLEAN-UP

September 23, 2025; 3:30 PM to 5:00 PM

Section 3B; Room 111B



Jack Sheldon

Senior Remediation Specialist
Antea Group



Advancing New and Uncommon Remediation Approaches for Tank Sites

Antea®Group

Understanding today.
Improving tomorrow.

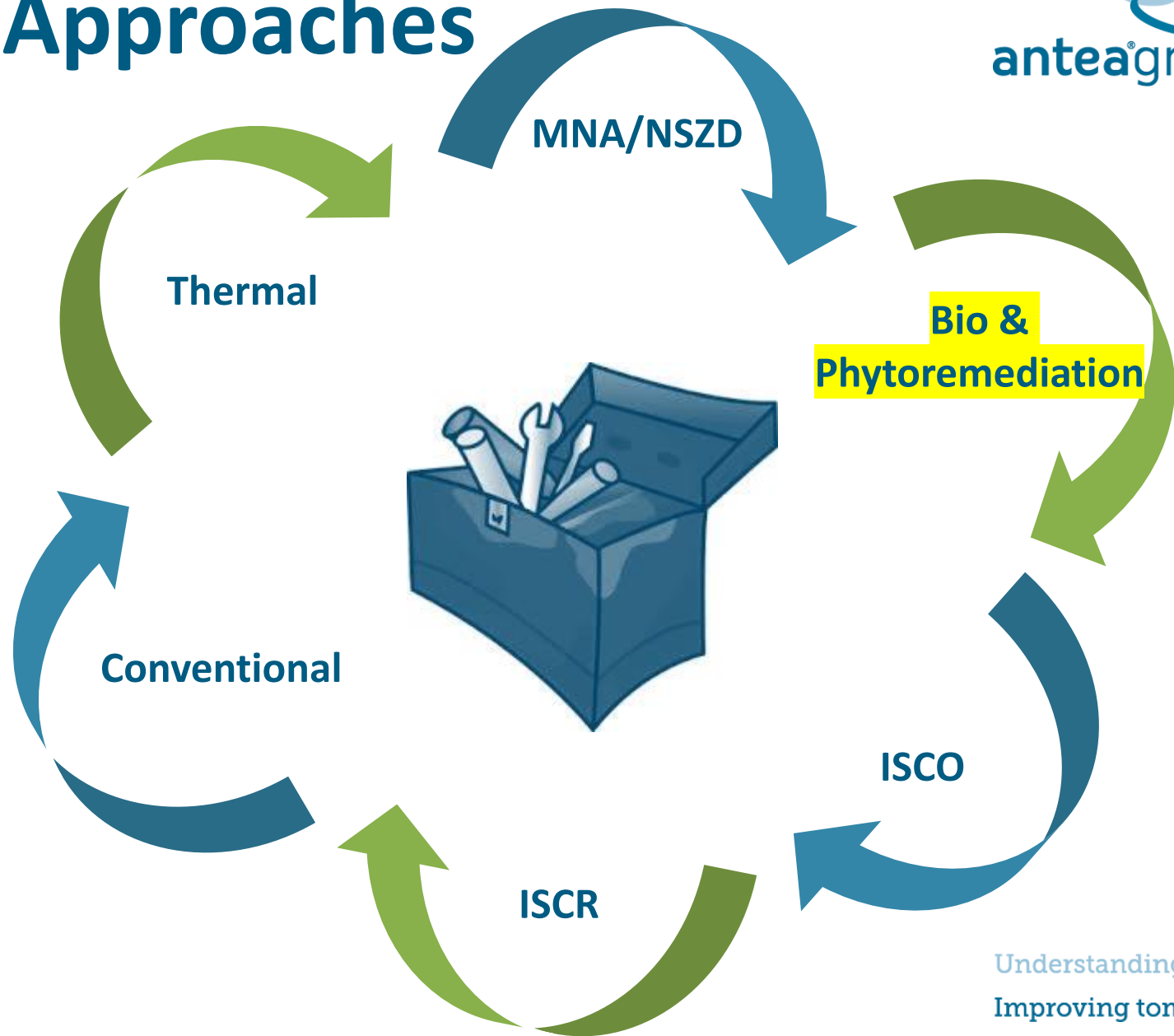
National Tanks Conference
September 23, 2025



The logo and ANTEA are registration trademarks of Antea USA, Inc.



Core Approaches

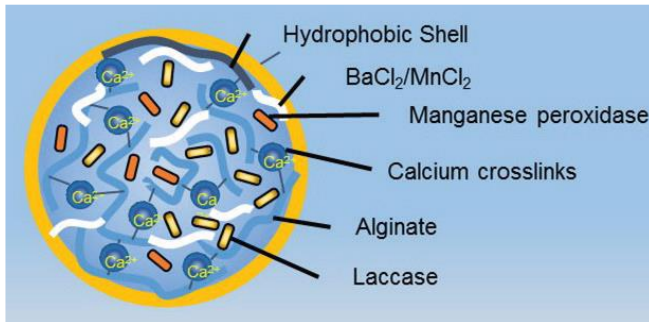


Understanding today.
Improving tomorrow.

Recent Technology Innovations



- Tank basin, incident management and vapor suppression initiatives.



- Encapsulated fungal enzymes for PAHs, PCBs, and heavy oils.



- 1,4 D-Stroy®



Understanding today.
Improving tomorrow.

The WellBoom™ (UniRem)





WellBoom™



Pros

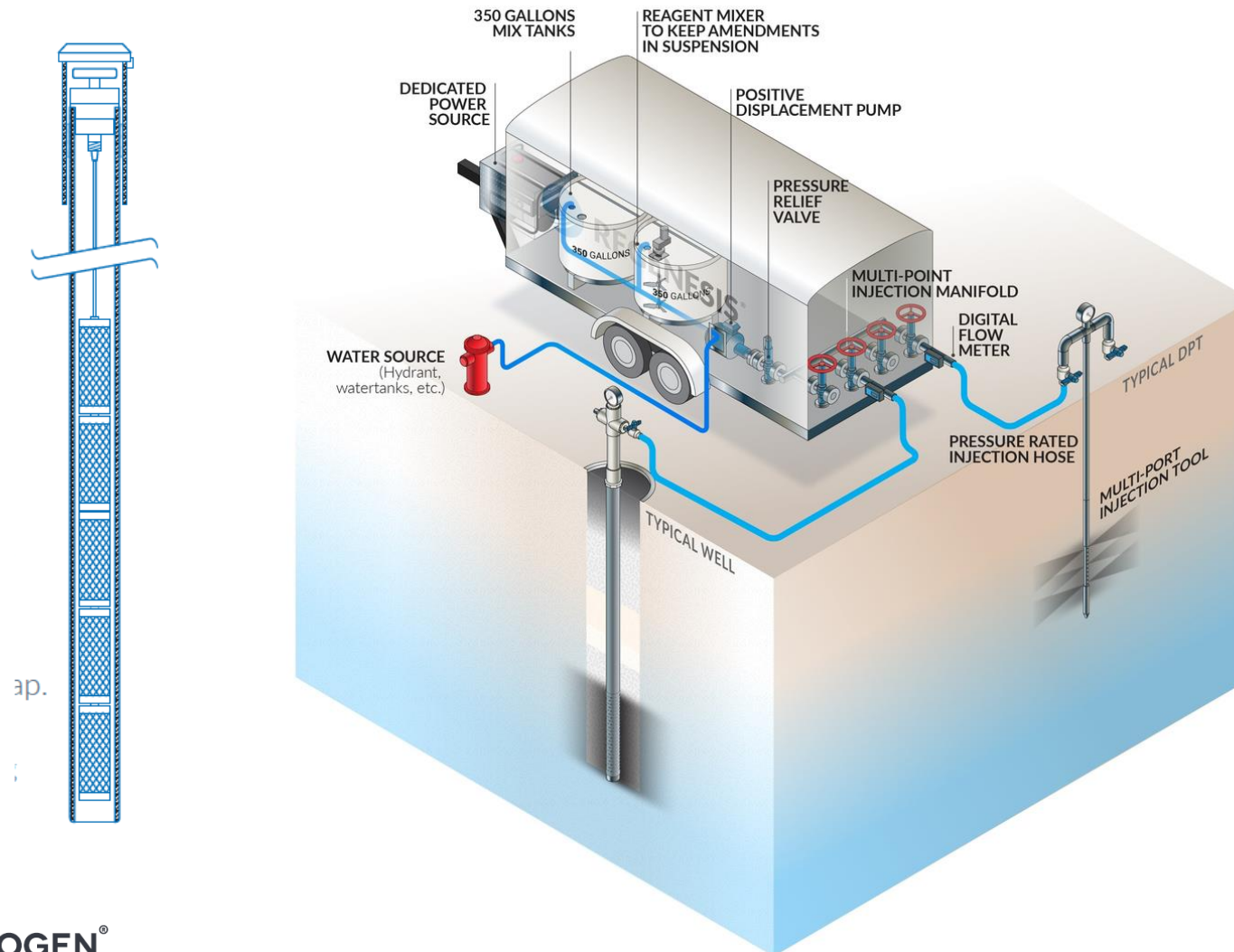
- Low Cost
- Core technology applicable to Free Product/Dissolved Phase, surface water, land remediation
- Natural, green technology
- Developed by NASA
- Simple Disposal

Cons

- Regulators just learning about it
- May require Silica Gel Cleanup
- May degrade rapidly depending on site conditions

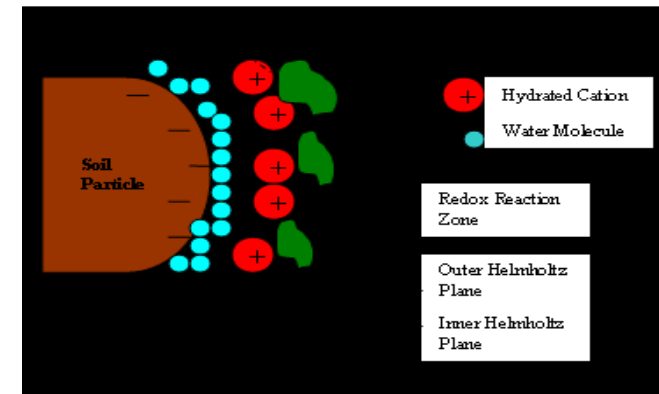
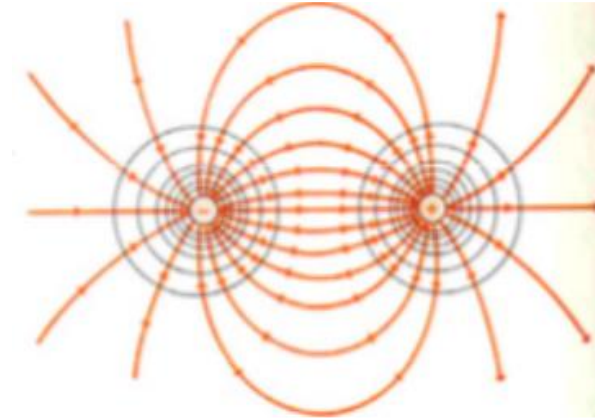
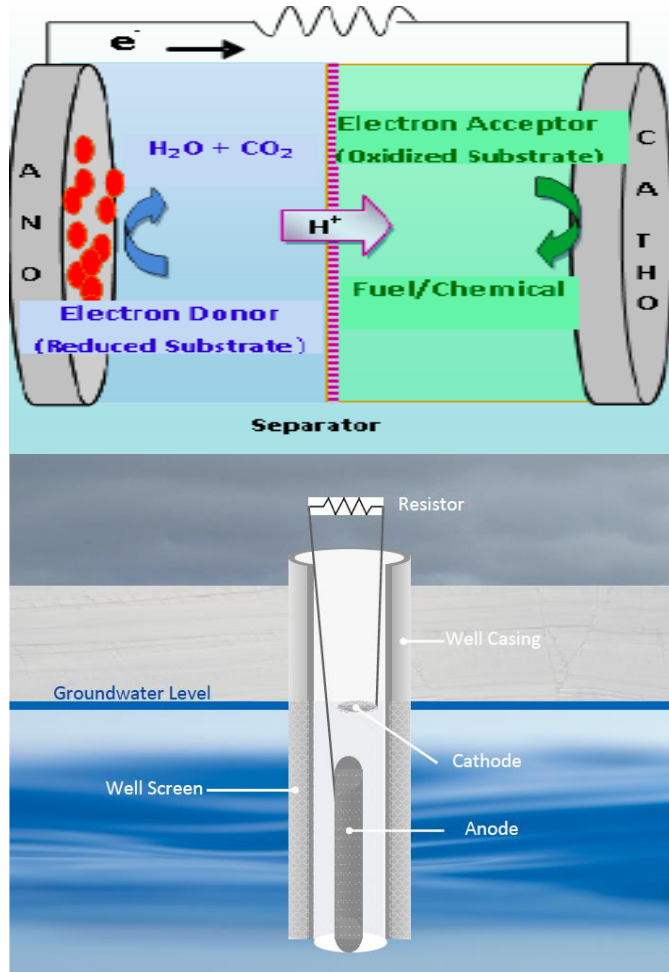
Understanding today.
Improving tomorrow.

Mixed Mechanism Amendment (Regenesis)



Understanding today.
Improving tomorrow.

E-Redox® - a New Approach to Bio/ISCR (AET)



- R = reductive electrochemistry
- O = oxidative (bio-driven) electrochemistry

PFAS Field Screening



FREDsense - Canada



Salvus - Georgia



Takeaways

New Technology targets
in well applications

New Technology also
focused on tighter
formations/low
permeability

New Technology focused
on single application

PFAS technology coming



Thank You

If you have more questions...

Antea®Group

Understanding today.
Improving tomorrow.

We do more than effectively **solve client challenges**; we deliver **sustainable results** for a **better future**.



Jack Sheldon

Senior Remediation Specialist
+ 1 515 971 8329

jack.sheldon@anteagroup.us

