



U.S. ARMY



US Army Corps
of Engineers



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DISCOVER | DEVELOP | DELIVER

The Contaminant Treatment Technology Test Bed

Mission:

Facilitating the advancement and deployment of innovative treatment technologies for legacy and emerging contaminants by **providing a robust, field-relevant test bed for rigorous, third-party evaluation, collaborative research, and performance-based optimization**. Our goal is to **accelerate the transition of promising technologies** from concept to scalable implementation through real-world validation and stakeholder engagement.

Test Bed Facility:

The **Contaminant Treatment Technology Test Bed** provides a dedicated environment for evaluating and demonstrating treatment technologies targeting a wide range of legacy and emerging contaminant in a variety of environmental media (liquids and solids). Designed to simplify and expedite technology evaluation, **accelerating technology readiness and facilitating validated implementation**.

Test Bed Features

- 12,000 ft² Indoor Test Bed Facility
- Emissions monitoring and Exhaust Systems
- Climate Controlled Project Trailer
- Closed Circuit Camera Monitoring
- Telemetry data collection
- Secondary containment basins
- Potable water
- Metered Power
 - 480 V, 3 phase, 200 A
 - 480 V, 3 phase, 100 A
 - (2) 480 V, 3 phase, 60 A
 - (2) 480 V, 3 phase, 30 A
 - (2) 480 V, 3 phase, 20 A
 - 120/208 V, 3 phase, 60 A
 - 120/208 V, 3 phase, 30 A
 - Multiple standard 120 V, 20A outlets available through facility

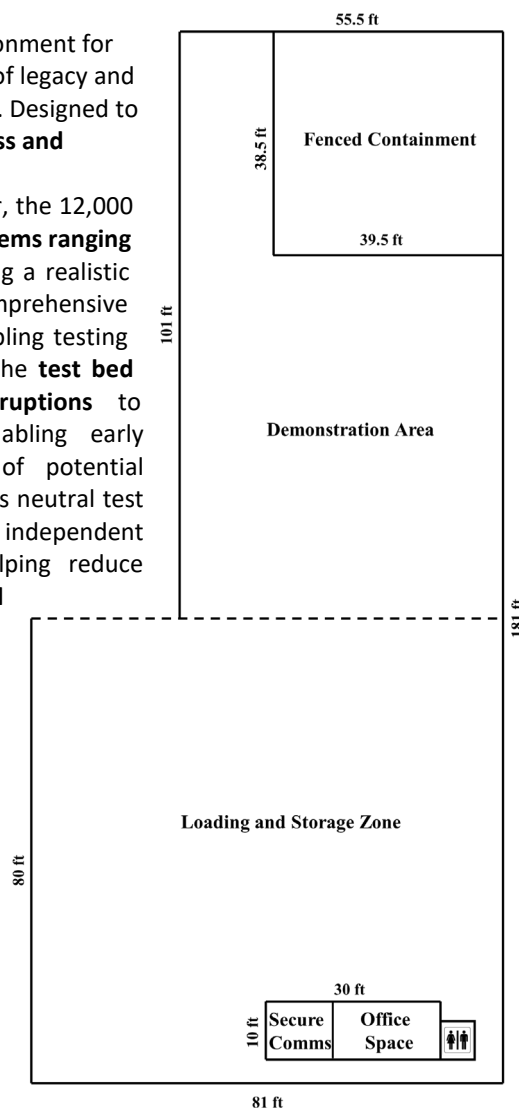
Located inside a spacious hangar, the 12,000 square foot facility **supports systems ranging from pilot to field scale**, offering a realistic yet controlled setting for comprehensive performance validation. By enabling testing outside of active installations, the **test bed eliminates potential for disruptions** to ongoing operations while enabling early identification and resolution of potential technical or logistical issues. This neutral test environment also supports independent validation and verification, helping reduce deployment risk and **build confidence among stakeholders prior to field implementation**.

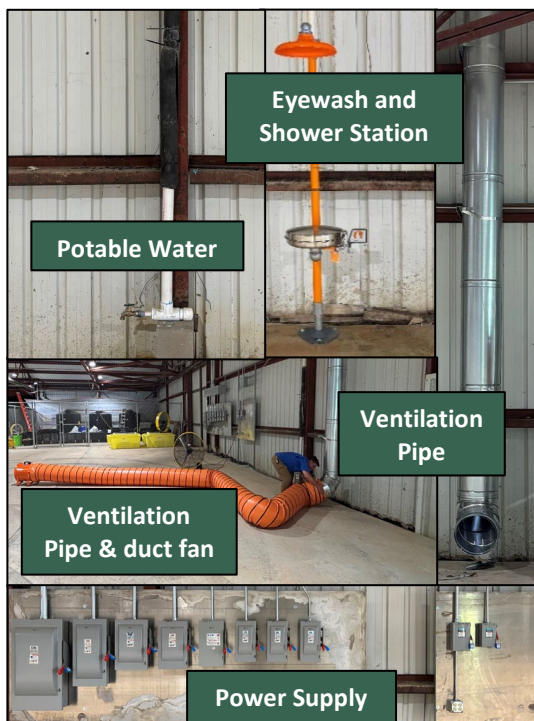
In-House Expertise and Analytical Capabilities:

The **Emerging Contaminant Treatment Technology Test Bed** is supported by the diverse in-house expertise of the U.S. Army Engineer Research and Development Center (ERDC), ensuring rapid and reliable

evaluation of treatment technologies. The team includes environmental, chemical, electrical, mechanical, and safety engineers; analytical chemists; computational scientists; toxicologists; and industrial hygienists. Together, they offer:

- **System Integration and Implementation Expertise**
Proven experience in transitioning lab-scale technologies to pilot- and field-scale applications across a wide range of contaminants and environmental conditions.
- **Comprehensive Analytical Capabilities**
Rapid sampling, analysis, and data interpretation enabled by advanced instrumentation and on-demand method development. These capabilities support rigorous quality control, contaminant characterization, and timely decision-making during test campaigns.





Test bed amenities include water, metered power, ventilation and safety equipment.



Spacious 12,000 SF facility includes secure sample storage and processing with secondary containment and climate-controlled communication/office space.



Offering ease of set-up for demonstration and validation of technologies with full service in-house analytical and engineering facilities and expertise.

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