



# Remediation Equipment & Systems



Theia offers a wide range of equipment and treatment systems. We work with your team to provide the scope of supply that best fits the project and your team. Theia offers a number of innovative technologies and can build treatment systems based on our design or yours or some combination. We understand that finding the best technical solution is only a part of the equation. The best solution must also fit your budget, your schedule, and fit with the customer's preferences and overall vision.

## Components

- Pneumatic Well Pumps
- Sand, Bag, & Disc Filtration
- Oil/Water Separators & Clarifiers
- Liquid Phase Carbon & Clay
- Air Stripping Systems
- Membrane Filters (UF, MF)
- Thermal & Catalytic Oxidizers
- Vapor Phase Carbon

## Systems

- EC & Ozone Systems
- Metals Treatment Systems
- Solids Dewatering
- Sludge/Backwash Dewatering
- Iron Treatment Systems
- Ozone Systems
- Biological Treatment
- PFOA & PFOS Treatment

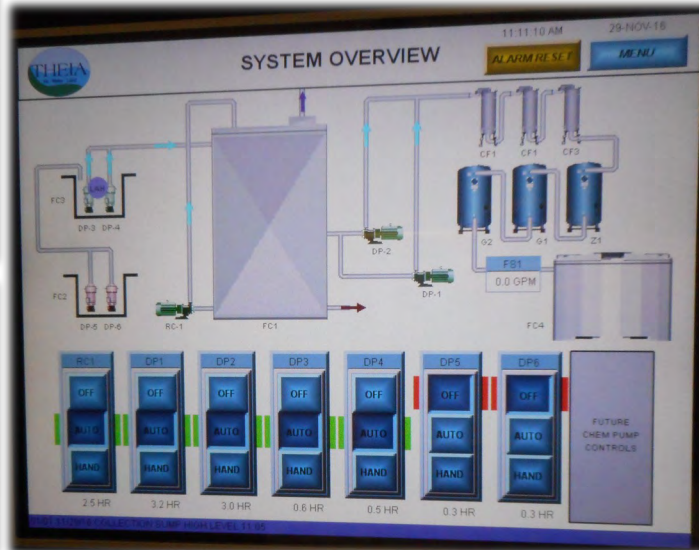


**Simplicity and Sustainability through Innovation**





## Treatment Systems for Groundwater and other sources



### Simplicity Through Innovation

Theia offers a number of cutting edge technologies for treating groundwater, leachate or industrial wastewater. Our systems are robust and designed with the operator in mind. We utilize innovative designs to reduce the overall capital as well as operating costs instead of cutting corners like many system vendors. Theia systems are built to remove the target contaminants effectively and efficiently while also dealing with the many challenges that the real world represents such as iron, calcium, silt, etc.

We will work with you on the preliminary design, bring out a full scale system for your pilot test and then provide you with the best options for the full scale system. We will work with you on the commercial terms as well as the technical requirements. Theia can provide short term rentals, long term leases, lease-to-purchase, whatever is best for your application, your site, and your budget.

Theia offers solutions for removal of BTEX, chlorinated solvents, iron and other metals such as arsenic, selenium, and chromium, and difficult to treat compounds like 1,4 Dioxane, TBA, and MTBE. We offer specially designed systems for PCB's as well as for PFOS and PFOA.

These systems come in trailers, sheds, sea containers, or skid mounted. We provide them as complete or as simple as you need them. They come pre-piped and wired with heat and lights. Systems come with PLC control and remote telemetry that is designed for your specific requirements.

### Simplicity and Sustainability through Innovation







## Go Ahead... Give us your Toughest Applications

Theia provides engineered solutions to your most difficult applications. That is not always enough. Sometimes the application presents operational challenges that would render typical treatment systems useless in short order. Theia is more than up to the challenge.



Stripping 1000 mg/l of ammonia from leachate



Stripping benzene from water with 1000 mg/l of hardness destroying 316 stainless in 4 months



Direct oxidation of 60 mg/l of iron using air while stripping



Direct filtration of municipal wastewater

### Simplicity and Sustainability through Innovation



## Components



Our goal is to provide you the most efficient and cost effective treatment for your application and your project. sometimes the solution is a single piece of equipment or a service. We are here to help. Here are some of the solutions we offer:

**Activated carbon & clay equipment, systems and service:** We offer a wide range of media for removing dissolved phase oils and other organics as well as almost any metal as well as arsenic, etc. We offer a full range of equipment to treat water as well as air for sale or rent as well as replacement service for existing equipment.

**Air Strippers that Never Clog or Foul:** We offer efficient air strippers which do not require packing or trays. Thus, they require little or no maintenance and no unscheduled shutdowns

**Oil Water Separators & Clarifiers:** Separators and clarifiers as well as combined units are available in a variety of shapes and sizes as well as materials.

We offer portable and rental units as well as drop in units for existing tanks.

**Mechanical Filters Systems:** We offer filters and filter systems using a variety of technologies to remove TSS, TDSm arsenic, lead, iron, manganese, and other metals as well as turbidity, fluoride and other water issues. These system can be provided with chemical injection as well as full automation.

**Pneumatic Well Pumps and Free Product Skimmers:** Rugged and budget friendly, these systems require minimal attention and do not stall or shut down like competitors pumps

**Aeration/Oxidation Systems:** Simple, maintenance free and very efficient means or oxidizing iron and manganese as well as H<sub>2</sub>S without the use of submerged aerators. These units are the most mechanically efficient means of raising the dissolved oxygen in any application.

## Simplicity and Sustainability through Innovation







## Treating Water from Oil and Natural Gas Production

Like all water treatment applications, treating water from drilling, fracking and other operations, present their own set of challenges. Theia offers a number of innovative technologies which are assembled into a turnkey treatment solution



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