

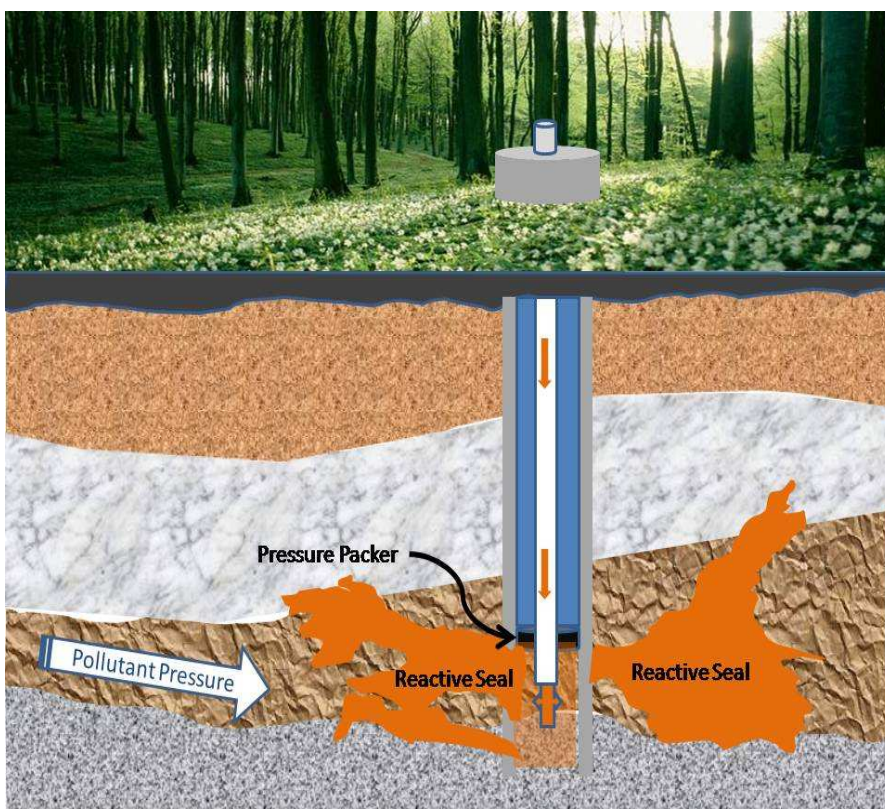
Geo - Myriad: CAPABILITY STATEMENT

Geo-Myriad Geo-Technical & Environmental Engineers employs a team of Chemical, Civil and Electronic Engineers, Geo-hydrologists, Geologists and Environmentalists with the ability and capacity to tackle both small and large ground water control projects. This capability is mindfully focussed on the Water Services, Mining, Metal Reduction, Petrochemical and all other water pollution projects and Companies.

Geo-Myriad successfully integrated the disciplines of Electro Chemical engineering, geo-hydrology and environmental sciences to provide practical non evasive, ameliorating and mitigatory sustainable solutions to activities and processes that has a detrimental impact on the underground environment.

By its nature environmental engineering is interdisciplinary and it combines conventional and applied sciences with design, operation and management of the human activities in an environmentally responsible manner.

Geo-Myriad is a world leader in employing Nano scale Zero Valent Iron (nZVI) technology to treat contaminated water and soils. We apply this technology to enhance particle reactivity, stability and subsurface mobility. This application creates a permeable reactive barrier to mitigate the transport of a wide array of highly mobile contaminants in ground water. nZVI has the ability to effectively destroy numerous chlorinated hydrocarbon compounds via reductive dehalogenation.



Geo-Hydrology Remediation:

Geo-Myriad employs a team of dedicated professional geo-hydrologists, project engineers and environmentalists that are able to deliver turnkey solutions, this includes but is not limited to:

- Delineating and defining the project scope;
- Project cost estimation & scheduling;
- Engineer solutions;
- Implement Remedial construction;

Applications:

- Ground water resource water quality remediation;
- In Situ pollution neutralisation;
- Inter strata cementation seal;
- Submersible soils stabilisation;
- Mine Dump, in situ rehabilitation and detoxination;
- Aquifer detoxination;
- Pollutant plume containment and treatment.

Impact and Resource Management:

- technical problem solving;
- analysis and management of environmental issues;
- conducting Scoping and EIA studies;

Waste Management:

- Waste disposal, neutralisation and storage;
- Aquifer scoping and Impact Assessments;
- Waste management, due-diligence, operation and closure;
- Seepage and discharge monitoring and management;

Enabling Mindful Environmental Practice”



Geo-Myriad

Environmental engineering can also be described as delivery of engineered solutions to environ-

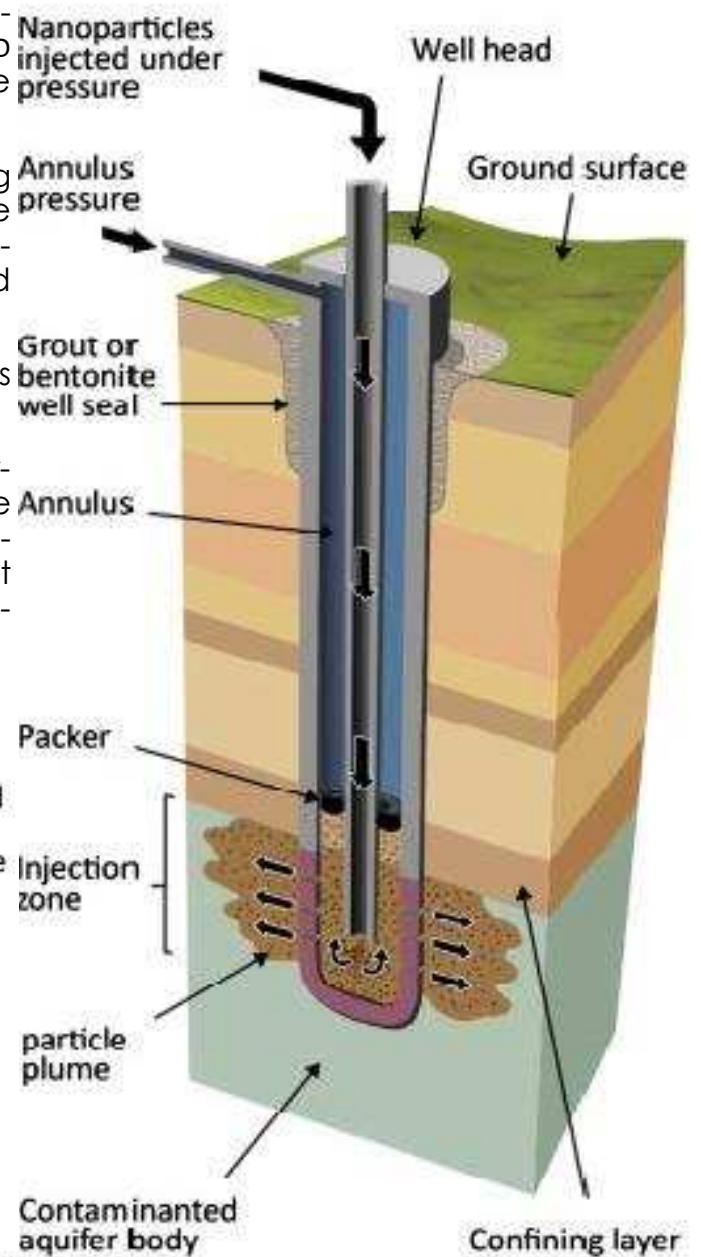
GEO-MYRIAD remedial technology for treatment of groundwater can be used for a wide array of organic and inorganic contaminants. However, in designing a GEO-MYRIAD groundwater treatment solution, finding the correct reactive media is a challenge.

The reactive media must serve as both a long-term sink for metals while at the same time maintain permeability and hydraulic connectivity between the contaminant plume and the reactive treatment zone.

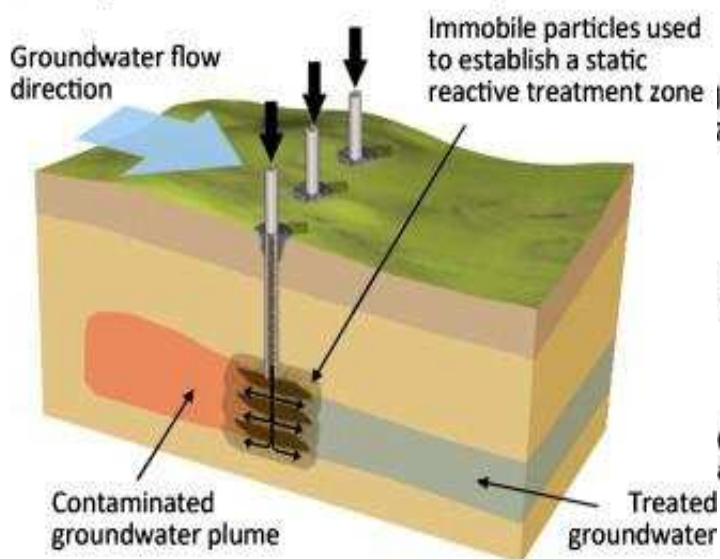
ZVI is more commonly used to treat metals and halogenated organic solvents.

ZVI has a high arsenic removal capacity. Arsenic removal mechanisms by ZVI include sorption onto corrosion products, coprecipitation with iron sulfides and green rust (class of iron oxide compounds), and precipitation as arsenic sulfides.

Nanoparticle injection well



Injection of immobile nanoparticles



Enabling Mindful Hydrological Remediation”