



Geo-Cleanse[®]
INTERNATIONAL, INC.

GeoCleanse.com

September 2012 Newsletter

Matawan, NJ

(732) 970-6696

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RE3 Conference

Applied Technologies and Methodologies for the Treatment of Heavy Metals and Organics

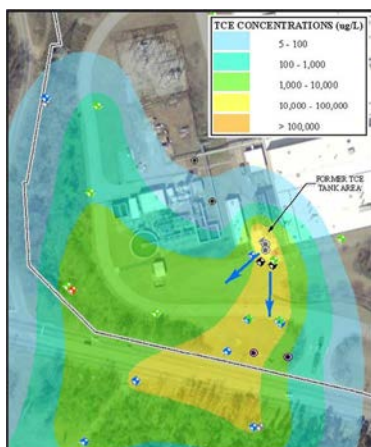
Coming November 12th - 14th, Geo-Cleanse will be presenting at the RE3 Conference. The RE3 Conference, which is located at the brand new Revel Resort in Atlantic City, NJ, will host some of the industry's top environmental engineers, scientists, remediation professionals, project managers, consultants, regulatory officials, site owners and developers.

This year, Will Moody and Stephanie Turkot will both be representing Geo-Cleanse at the RE3 Conference. Mr. Moody will be presenting [*A Novel & Sustainable "Combined Oxidant" In-Situ Remediation Approach for Brownfield Redevelopment in NJ*](#) and Ms. Turkot will present on the topic of [*Outlining the Advantages of Selecting Catalyzed Hydrogen Peroxide or Activated Sodium Persulfate at Two Different Petroleum Hydrocarbon Sites.*](#)

If you have registered for the conference, you can see us at booth #21 or by attending Ms. Turkot's presentation (November 13th) or Mr. Moody's presentation (November 14th). If you have not yet registered, there are still spots available to attend the RE3 Conference this fall. To reserve your spot at RE3, click [here](#). We hope to see you at the conference, and please stop by to see our presentations and booth stand.

**Pollution Engineering Publishes
Geo-Cleanse White Paper**

In the September 2012 edition of *Pollution Engineering* magazine, a Geo-Cleanse white paper has been published, which discusses the challenges of implementing an in-situ treatment program that utilizes both oxidants and reductants for site remediation.



The site is a former manufacturing facility in Greenville County, South Carolina. The site geology consists of fill material (mostly silty sands) underlain by saprolite and bedrock. The saprolite consists of thinly laminated, variably micaceous silty sand weathered from the underlying schist and gneiss bedrock. Groundwater ranges from approximately 50 to 65 ft bgs and is primarily located in the saprolite.

A TCE handling unit was in operation for about ten years and was determined to be the primary source, with an estimated discharge of approximately 1,365 gallons of solvent. Site investigations revealed a groundwater plume of TCE and breakdown products (cis-1,2-dichloroethene and vinyl chloride) migrating off site. The plume covers approximately 16 acres with concentrations historically greater than 250 mg/L in the source area and up to 96 mg/L in the mid-plume area near the on-site access road. Site access is limited in much of the plume, with a steep slope on site near the source area and a forested area off site.

Geo-Cleanse proposed pilot-scale tests that integrated in-situ chemical oxidation using potassium permanganate in the source area, with in-situ chemical reduction using a zero valent iron reactive barrier where access was available in the downgradient plume. Hydraulic slurry emplacement was selected to apply the reagents to the subsurface due to the low permeability of the saprolite.

To read more about [Coupling Chemical Oxidants and Reductants for In-Situ Remediation](#), click [here](#) to go to the *Pollution Engineering* website, or you can find it on our website under News and Events by clicking [here](#).

Help Support the Wounded Warrior Project

To help raise money for the **Wounded Warrior Project**, many here at Geo-Cleanse are running in the **Tough Mudder** in Englishtown, NJ on October 20th. The Wounded Warrior Project is a certified 501(c)(3) organization designed to help those who were injured in combat after recently serving in our armed forces. The Tough Mudder event is a 10 - 12 mile obstacle course designed by British Special Forces. The course is



designed to challenge its participants both physically and mentally with over 26 obstacles throughout the course. Currently, Tough Mudder has raised over \$3 million for the Wounded Warrior Project.

You can show your support for the [Wounded Warrior Project](#) or [Tough Mudder](#) by visiting their websites, or simply by pledging a donation to either [our team](#) or directly to the Wounded Warrior Project website.

Want to Learn More About ISCO and ISCR?

Just ask the premiere remediation experts at Geo-Cleanse. We can organize webinars or meet in person to share our experiences with you and your team. To learn more about ISCO or ISCR, please contact Stephanie Turkot (STurkot@GeoCleanse.com) at our office.



Geo-Cleanse will be attending the 18th annual Florida Remediation Conference on October 11th - 12th in Orlando, Florida, which will be held at the Caribe Royale Hotel and Convention Center. The conference has become one of the top technical conferences on soil and groundwater remediation in the United States. There is still time to [register](#) for the event and we hope to see you there.



We will also be attending the Annual Conference on Soils, Sediments, Water and Energy, at the University of Massachusetts at Amherst. This conference attracts more than 700 people annually to discuss novel technologies within the environmental field. The conference will be held on October 15th - 18th and [registration](#) is still available.