

EKOGRID Remediates Diesel Polluted Site in Ecuador

Pipeline polluted 2,800m² of soil in Ecuador; combined in-situ electro kinetic oxidation and bioremediation solution remediated polluted soil in just 10 months

HELSINKI, FINLAND, May 22, 2018 /EINPresswire.com/ -- Environment remediation specialists Eko Harden Technologies today announces that its groundbreaking EKOGRID electro kinetic oxidation technology has been successfully applied to clean an area of 2,800m² of diesel polluted soil resulting from a break in an Ecuador service pipeline.



Erkki Lindberg, CTO of Eko Harden Technologies

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When the site owner identified the diesel spill, it immediately began a prospection project to evaluate the damage. The study showed a 2.800m² affected area surrounding a leaked point on the pipeline. The Total Petroleum Hydrocarbon (TPH) concentrations in the soil and groundwater were 13.000 mg/kg and 1.370 mg/l respectively.

As the contaminated site was in a natural park where traditional cleaning methods such as mass-transfer could harm nature and the remediation target level was 1000 ppm, Eko Harden’s EKOGRID electrokinetic oxidation in-situ remediation technology was selected by Lamor Corporation, the global environmental remediation company and prime

contractor of the project. Remediation was done by in-situ combined technology: electrokinetic enhanced bioremediation.

The EKOGRID solution is a grid system of thin metal rod electrodes inserted into the soil driving controlled low voltage electric impulse in the contaminated soil and water volume. It triggers and amplifies the remediation capabilities of nature for a fast, cost-efficient and environmentally friendly cleaning effect. A groundwater pumping and nutrient addition system was also applied to enable the

fastest growth of oil degrading microbes.

The application generated natural and massive mineralization of the diesel contaminant in both groundwater and soil. The samples taken after ten months of operation showed 99% reduction of TPH concentration in soil. Groundwater samples were taken from piezometers installed at seven metres depth and results showed 99% elimination of contaminant in groundwater with TPH concentration of 15 mg/l.

“Remediating the affected area without any harmful side-effects on the natural park is another verification of the unique benefits of in-situ remediation technologies,” adds Fred Larsen, CEO of Lamor Corporation. “It demonstrates the remarkable effectiveness of the combined bioremediation and EKOGRID in-situ solutions, which can now be used at other similar polluted sites where the traditional methods cannot be used.”

About Lamor Corporation

Lamor (Larsen Marine Oil Recovery) Corporation offers solutions for oil spill preparedness, response and recovery, and soil remediation. Over the past three decades, Lamor has developed, produced and supplied the most advanced oil spill response technology on a global scale. Lamor has over 150 employees primarily in Finland, China and Ecuador, with additional branches of the company operating in Brazil, Colombia, Kazakhstan, Mexico, Oman, Panama, Peru, Russia Turkey, Ukraine, the UK and the US. Lamor’s continuing development work and its strengthened market position have led to expanding the company’s service operations beyond the traditional core oil spill response operations to include e.g. soil remediation, drilling waste management, oil pipeline monitoring and industrial water treatment services. Visit www.lamor.com

About Eko Harden Technologies

Eko Harden Technologies aims to become one of the world’s leading providers of greentech and cleantech technology and service providers for use by governments, United Nations agencies, local municipalities, industrials and energy companies. Its patented EKOGRID technology supports the growth of global wealth and health in a sustainable manner by removing chemical pollutants in both land and water “in situ” by advanced oxidation and enhanced bioremediation. Visit www.ekogrid.fi.

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