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Hughes County Saltwater Spill

July 2017

A large oil and gas producer experienced, in late July, a produced water spill on their multi well pad due to a cracked line. Soil samples were collected and tested for Total Soluble Salts (TSS), Electro-Conductivity (EC), and Chlorides. The sample results showed two (2) areas that exceeded the threshold limits. A soil remediation project was started on October 9, 2017 by Edwards Environmental Corporation. 37 days later a second set of soil samples were taken and analyzed to determine the level of reductions. The results are as follows:

Sample 3

	8/31/17	11/14/17	% Reductions
TSS	9,000ppm	1,008ppm	89%
EC	14,000umhos/cm	1,575umhos/cm	89%
CL	920mg/kg	151mg/kg	86%

Sample 6

TSS	32,000ppm	2,918ppm	91%
EC	50,000umhos/cm	4,560umhos/cm	91%
CL	18,000mg/kg	1,319 mg/kg	93%

The laboratory results show significant reductions in a short time. Historically, these numbers continue to fall within another 30-60 days. No further remediation was needed. The producer was pleased with the success of the project and the case was closed.

Oklahoma Corporation Commission threshold limits: TSS - 2,640ppm; EC - 4,000umhos/cm; CL - 1,000mg/kg.

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