



Edwards Environmental Corporation

5909 N. Kelley Avenue

Oklahoma City, Oklahoma 73111

Office: 405-843-3431 • Fax: 405-843-3528

Email: byogeorge2@att.net

www.edwardsenvironmentalcorp.com

Recent Projects

Project 1

A tank battery had an accidental spill during the summer of 2016 causing produced water to flow off site contaminating a drainage ditch. A total of, approximately, 410 cubic yards of soil were contaminated with saltwater. Soil samples were collected and analyzed by Environmental Testing, Inc. /Oilab. Inc. for Total Soluble Salts (TSS), Electro-Conductivity (EC), and Chlorides (C).

Test	Pre-Treat	Treatment	Post Treat	Reduction
Total Soluble Salts	45,500ppm	88 days	2,870ppm	93%
Conductivity	71,400 umhos/cm	88 days	4,490 umhos/cm	93%
Chlorides	27,500 mg/kg	88 days	1,020 mg/kg	96%

The site received, approximately, 3 inches of rainfall during the 88 days between the initial remediation and the sample date of 2/25/17. A second sample, taken on 2/25/17, was collected from the same area as the initial sample. These reductions will continue to improve. The product cost varies with the severity of the contamination. The project included a combination of SA1000, a 3 Tier Technologies salt remediation product, Blu - Gro XL, a 3 Tier Technologies, organic liquid fertilizer and seed. These products were added without ground disturbance (i.e. tilling, mulch, nor the addition of any ag-lime). These products were used to remediate the salt contamination and to promote germination of the seed to prove the site was remediated and regenerated the soil back to productive agricultural use. The site has germinated and been released by the Oklahoma Corporation Commission Inspector.

This project was remediated during the coldest part of the 2016 winter.

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Project 2

This site was remediated on 12/2/16 and contained, approximately, 200 cubic yards of salt contaminated soil. The site received, approximately, 3" of rainfall during the 91 days of treatment. Soil samples were collected on 10/27/16, and analyzed by Environmental Testing Inc. / Oilab, Inc. for Total Soluble Salts (TSS), Conductivity (EC), and Chlorides (C).

Test	Pre-Treat	Treatment	Post Treat	Reduction
Total Soluble Salts	28,300 ppm	91 days	1,960 ppm	93%
Conductivity	44,200 umhos/cm	91 days	3,070 umhos/cm	93%
Chlorides	15,000 mg/kg	91 days	651 mg/kg	96%

These reductions will continue to improve. These reductions mirror Project 1 because the well drilled in Project 2 was to the same formation as Project 1. So it is not surprising that the reductions were similar. The product cost will vary with the level of contamination. The project included a combination of SA1000, a 3 Tier Technologies salt remediation product, BLU-GRO XL, a 3 Tier Technologies liquid organic fertilizer, and seed. These products were used to remediate the salt contamination and to promote the germination of seed to prove that the site was remediated and regenerated the soil back to productive agricultural use. The site has germinated and been released by the Oklahoma Corporation Commission Inspector.

This site, also, was remediated during the coldest part of the 2016 winter.

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