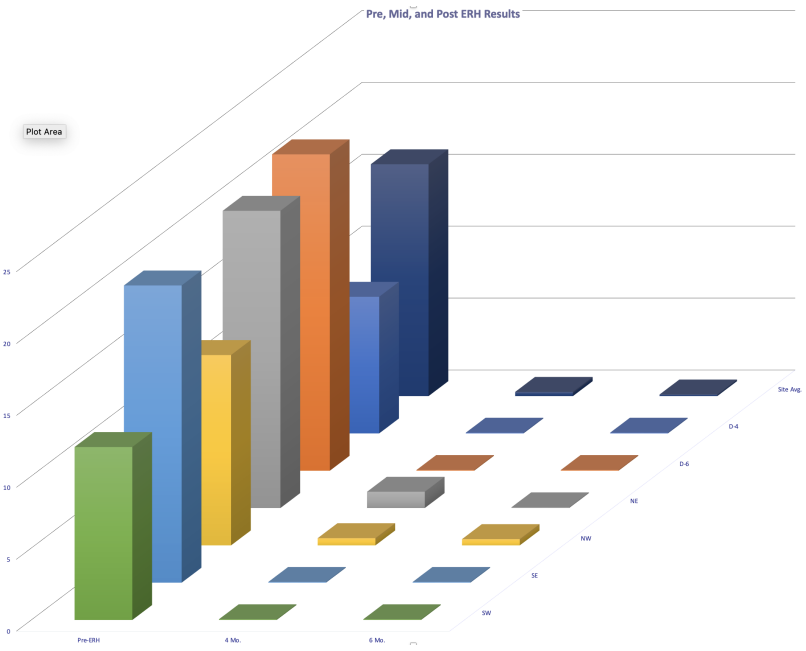
Pilot Study of Heat Enhanced Hydrolysis of Munitions Compounds Sidney, Nebraska

TRS Group, Inc.
Accelerating Value

Panoramic Drone Shot of Site



Pre, Mid, and Post ERH Results

Technology

Electrical resistance heating performed to heat treatment volume to 80°C and maintain for period of six months to maximize hydrolysis destruction of RDX

Site Characteristics

- Treatment volume: 14,000 yd^3
- Vadose zone treatment (groundwater at 165 ft bgs)
- Treatment depth interval from 0 to 70 ft bgs
- Targeted treatment where RDX was found consistently from 20 to 60 ft bgs at an average of 15 mg/kg
- Low-temperature design eliminated need of vapor recovery infrastructure

Operations

- Total run time: 188 days
- Energy use: 857,737 kWh

Results

- 99.6% average reduction of RDX

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For more information and other project examples, please visit:
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