

**“ThermoFlo, a novel technology for complete on-site remediation of organically contaminated solids”**

**Submitted by:**

**Drake Water Technologies, Inc.**

- Request for - \$329,000; Total Project Costs - \$671,095**  
**Project Duration: 4 months**

# PROJECT DESCRIPTION

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- The objective of this project is to construct a mobile ThermoFlo pilot unit for deployment to a site in North Dakota for demonstration of on-site cleanup of contaminated soils and solids, i.e. Special Waste. This means that clean solids may be left on-site and quench water may be re-used in the makeup of drilling mud, eliminating the necessity for specialty packaging of waste materials, the use of flyash for stabilization, truck transport of the waste, and waste deposition in secure landfills. Results of this project will be the construction, shakedown testing, deployment, and demonstration of a mobile 4 to 6 t/hr ThermoFlo pilot unit to treat hydrocarbon contaminated solids at an approved drilling site in North Dakota. Following successful demonstration, which will include analysis of pre-and post-treated materials, it is anticipated that the ThermoFlow unit will be the basis for the commercialization of technology in North Dakota.

# TECHNICAL REVIEWERS' RATING SUMMARY

		Technical Reviewer			
Statement	Weighting Factor	<u>G-39-01A</u>	<u>G-39-01B</u>	<u>G-39-01C</u>	<u>Average Weighted Score</u>
Objectives	9	3	3	4	27
Achievability	7	3	4	4	21
Methodology	8	3	3	2	16
Contribution	8	4	4	3	24
Awareness / Background	5	1	4	3	10
Project Management	3	3	3	4	9
Equipment / Facilities	2	2	5	4	6
Value / Industry-Budget	4	3	4	4	12
Financial Match – Budget	4	3	3	3	12
<b><i>Average Weighted Score</i></b>		<b>146</b>	<b>178</b>	<b>167</b>	<b>163</b>
<b><i>Maximum Weighted Score</i></b>				<b>250 possible points</b>	

# TECHNICAL REVIEWER TOTALS

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- G-39-01A

Average Weighted Score: 146 out of 250

**FUNDING TO BE CONSIDERED**

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- G-39-01B

Average Weighted Score: 178 out of 250

**FUND**

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- G-39-01C

Average Weighted Score: 167 out of 250

**FUNDING TO BE CONSIDERED**

# DIRECTOR'S RECOMMENDATIONS

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**If additional documented information is provided at the meeting addressing the concerns from the technical review team, my recommendation is to fund in the amount of \$329,000 contingent upon:**

- Confirmation of a preapproved pilot site.**