



FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

June 15, 2022

Via Electronic Mail to Jonathan Erwin at ErwinRemediation@gmail.com

Mr. Jonathan Erwin
Erwin Remediation, Inc.
408 Ditmar Street
Pensacola, Florida 32503

Re: **Heated Air Sparge**
The FDEP Innovative Technology Application Number: 1971

Dear Mr. Erwin:

The Florida Department of Environmental Protection's Division of Waste Management (Division) has reviewed the information provided on the Heated Air Sparge treatment technology. Per the provided information, the technology has not yet been field-tested, but the proposal is to perform multi-phase extractions simultaneously with injections of the air heated to high temperatures. The objective is to boil off the water present in the smear zone first, and then to flow hot air through the smear zone to volatilize any remaining contamination.

The Department has no objections to using the Heated Air Sparge for site remediation, as long as the detailed site-specific design and evaluation of its applicability, safety, compliance with the corresponding regulatory requirements, and cost-effectiveness are provided and approved in the site-specific Remedial Action Plan (RAP). Remedial Action Plan requirements related to vacuum extraction, air sparge and multi-phase extractions as detailed in rule 62-780.700, Florida Administrative Code, will apply. Given the high air temperatures proposed, it is anticipated that safety protocols will be thorough and detailed.

Based on the description provided, there do not appear to be any specific, additional Underground Injection Control (UIC) requirement or monitoring parameters.

Mr. Jonathan Erwin
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Page 2

Heated Air Sparge

If you have any questions, contact Elena Compton at (850) 245-8911, through Mail Station 4535 at the letterhead address, or by e-mail at Elena.Compton@dep.state.fl.us.

Sincerely,

Elena Compton, M.S., P.E.
Professional Engineer III
District and Business Support Program
Division of Waste Management, FDEP

ec: File