



Rick Scott  
Governor

H. Frank Farmer, Jr., M.D., Ph.D.  
State Surgeon General

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April 4, 2011

Mr. Damann Anderson  
Hazen and Sawyer  
10002 Princess Palm Avenue  
Registry One Building, Suite 200  
Tampa, Florida 33619

Dear Mr. Anderson:

This letter authorizes you to proceed with the following tasks in accordance with the current executed contract CORCL for Florida Onsite Sewage Nitrogen Reduction Strategies Study.

Two product evaluations (four samples) are included in the current budget allocation for Task A.16 (\$8,000.00); the third (two samples) will be funded from Task B.16 change-order allowance (\$4,702.00).

The intent of this authorization is for you to provide information as required by 64E-6.0151(2), Florida Administrative Code to show compliance with the Department's product composition rule for the following three products anticipated to be used in onsite systems that will discharge effluent to groundwater through a drainfield:

- lignocellulosic material (described as Southern Pine)
- sulfur material
- clinoptilolite

For 64E-6.0151(c) F.A.C., the following tests shall be performed to assess the use of the product as proposed. VOC analysis will mean analysis by EPA method 8260 to the method detection limits given in the previous testing you had performed, and additional analysis by EPA method 504.1 or method 8011 for 1,2-dibromo-3-chloropropane and 1,2-dibromoethane to address higher method detection limits for 8260 and lower criteria for this compounds as given in the list the Department uses to determine non-compliance.

We are following your recommendation on the evaluated surface loading rates, while maintaining the concern that these tests may not be sufficient to address use of the products in in-situ beds and/or moderately limited soils with longer nominal contact times.



Bureau of Onsite Sewage Programs  
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Mr. Damann Anderson; Hazen and Sawyer  
Page 2  
April 4, 2011

| Sample # | Effluent Source | Products           | Surface Loading Rate (gal/ft <sup>2</sup> d) | VOC analysis | Bioassay |
|----------|-----------------|--------------------|--|--------------|----------|
| 1        | Septic tank     | Control            |  | X            |          |
| 2        | Unsat CL4       | Clinoptilolite     | 3.0  | X            | X        |
| 3        | Denit LS1       | Lignocellulosic    | 10.0   | X            | X        |
| 4        | Denit SU1       | Sulfur             | 10.0   | X            | X        |
| 5        | InSitu 1        | Ligno+sulfur       | 0.8  | X            | X        |
| 6        | InSitu 3        | Clin.+ligno+sulfur | 1.2  | x            | X        |

If you have questions, please contact me at (850) 245-4070 x2708 or by email at [Elke\\_Ursin@doh.state.fl.us](mailto:Elke_Ursin@doh.state.fl.us).

Sincerely,



Elke Ursin  
Environmental Health Program Consultant

EU/ contract file