

**FLORIDA DEPARTMENT OF HEALTH
ONSITE NITROGEN REDUCTION STRATEGIES STUDY**

**PROGRESS REPORT NO. 2
(MARCH, 2009)**

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A – Technology Evaluation for Field Testing: Review, Prioritization, and Development				
Task A.1, Draft Literature Review Report	Underway	Literature collection and draft of review continues. Citations were edited and sorted. Passive systems were updated.	None	N/A
Task A.2, Final Literature Review Report	Not started	No activity	N/A	N/A
Task A.3, Draft Classification of Technologies Report	Underway	Started development of technology classifications, submitted draft to FDOH and received comments. Suggested FDOH revisions under review.	None	N/A
Task A.4, Draft Technology Ranking Criteria Report	Underway	Continued development on hold pending review of papers and reports during literature collection.	None	N/A
Task A.5, Draft Priority List for Testing Report	Not started	No activity	N/A	N/A
Task A.6, Technology Classification, Ranking and Prioritization Workshop	Underway	Began discussion of potential workshop dates	None	N/A
Task A.7, Final Classification of Technologies Report	Not started	No activity	N/A	N/A
Task A.8, Final Technology Ranking Criteria Report	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A.9, Final Priority List for Testing Report	Not started	No activity	N/A	N/A
Task A.10, Draft Innovative Systems Applications Reports	Not started	No activity	N/A	N/A
Task A.12, Identification of Test Facility Sites:	Underway	<p><i>USF Lysimeter Station</i> – A general assessment of lysimeter station rehabilitation needs determined. Meeting held with USF, AET, H&S, and FDOH to review options.</p> <p><i>UF Gulf Coast Research and Education Center</i> – We have a preliminary agreement to participate, and are awaiting a soil and preliminary GW assessment prior to finalizing arrangements with the GCREC. Richard Ford with the NRCS conducted a soils evaluation on March 26, 2009 and will provide a report shortly. Water samples were collected from piezometers installed onsite, and water quality analyses are being performed. Also samples of STE were collected to characterize quality. Laboratory results are expected within 15 days. A summary of the site conditions and recommendations will be distributed shortly thereafter. A conference call meeting with FDOH staff will be scheduled once the site conditions summary is complete.</p>	Lysimeter station rehabilitation costs alone are likely to be in excess of \$60,000, which exceed the total construction budget for the Task A test facility. .	We are recommending consolidating our activities to one test facility. If preliminary assessment of the GCREC meets our needs, it will be recommended to conduct all test facility activities at this site
Task A.13, Draft QAPP PNRS II	Underway	Draft QAPP undergoing internal review and revision. This QAPP is somewhat dependent on test facility site for finalization.	Behind schedule on draft QAPP, anticipate mid April completion	Will attempt to shorten timeframe on final QAPP so that Final deadline is met.

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task A.14, Recommendation for Process Forward Meeting	Not started	No activity	N/A	N/A
Task A.15, Final QAPP PNRS II	Not started	No activity	N/A	N/A
Task A.16, PNRS Specification Reports	Not started	No activity	N/A	N/A
Task A.17, Test Facility Design 50%	Not started	No activity	N/A	N/A
Task A.18, Test Facility Design 100%	Not started	No activity	N/A	N/A
Task A.19, Test Facility Design Final	Not started	No activity	N/A	N/A
Task A.20, Test Facility Accept Bid	Not started	No activity	N/A	N/A
Task B – Field Testing of Technologies and Cost Documentation				
Task B.1, Identification of Home Sites	Underway	Continued discussions with homeowners groups	None	N/A
Task B.2, Vendor Agreement Reports	Not started	No activity	N/A	N/A
Task B.3, Draft QAPP for Field Testing	Underway	Continued discussions of field testing	None	N/A
Task B.4, Recommendation for Process Forward Meeting	Not started	No activity	None	N/A
Task B.5, Final QAPP Field Testing	Not started	No activity	N/A	N/A
Task B.11, LCCA Template Report	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task C – Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater				
Task C.1, Draft Literature Review on Nitrogen Reduction in Soils & Shallow GW Report	Underway	Continued literature collection and review	None	N/A
Task C.2, Final Literature Review on Nitrogen Reduction in Soils & Shallow GW Report	Not started	No activity	N/A	N/A
Task C.3, Draft QAPP Evaluation of Nitrogen Reduction Provided by Soils & Shallow GW	Underway	Continued discussions of Task C work plan	Behind schedule, requesting 1 month extension to deadline	Will attempt to keep Final QAPP deadline by shortening Final QAPP prep.
Task C.4, Recommendation for Process Forward Meeting	Not started	No activity	N/A	N/A
Task C.5, Final QAPP Evaluation of Nitrogen Reduction Provided by Soils & Shallow GW	Not Started	No activity	N/A	N/A
Task C.6, Home Site Selection	Underway	Continued discussions with homeowners groups	None	N/A
Task C.7, Instrumentation of Home Sites Report	Not started	No activity	N/A	N/A
Task C.11, Test Facility Design 50%	Not started	No activity	N/A	N/A
Task C.12, Test Facility Design 100%	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task D – Nitrogen Fate and Transport Modeling				
Task D.1, Draft Literature Review on Nitrogen Fate & Transport Model Report	Underway	Continued literature collection and review	Behind schedule, requesting 1 month extension to schedule	Will attempt to keep final lit. review deadline by shortening final lit. review prep.
Task D.2, Final Literature Review on Nitrogen Fate & Transport Model Report	Not started	No activity	N/A	N/A
Task D.3, Selection of Existing Data Set for Calibration Report	Underway	Continued data collection and review	None	N/A
Task D.4, Draft QAPP N Fate and Transport Modeling	Underway	Continued work on modeling work plan	None	N/A
Task D.5, Recommendation for Process Forward	Not started	No activity	N/A	N/A
Task D.6, Final QAPP N Fate and Transport Modeling	Not started	No activity	N/A	N/A
Task D.7, Simple Soil Model Development	Not started	No activity	N/A	N/A
Task D.8, Non-Steady State Aquifer Model, Simple Soil Model	Not started	No activity	N/A	N/A
Task D.9, Aquifer Model with Averaged Output, Simple Soil Model	Not started	No activity	N/A	N/A

Task	Task Status	Activity this Period	Technical, Schedule, or Budget Problems Encountered	Recommended Methods to Resolve Problems
Task E – Project Management, Coordination and Meetings				
Task E.1, Project Kick-off Meeting	Task Complete	No activity	None	N/A
Task E.2, PM-Project Progress Report	Progress Report 1 &2 - Complete	The March 2009 progress report (this report) was completed April 2, 2009.	None	N/A
Task E.3, RRAC Meeting	Not started	No activity	N/A	N/A
Task E.4, PAC Meeting	Not started	No activity	N/A	N/A