

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

**PROGRESS REPORT NO. 4  
(MAY, 2009)**

<b>Task</b>	<b>Task Status</b>	<b>Activity this Period</b>	<b>Technical, Schedule, or Budget Problems Encountered</b>	<b>Recommended Methods to Resolve Problems</b>
<b>Task A – Technology Evaluation for Field Testing: Review, Prioritization, and Development</b>				
Task A.1, Draft Literature Review Report	Task Complete	Draft literature review report submitted on May 19, 2009.	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	Task Complete	Draft Classification, Ranking and Prioritization report submitted on May 19, 2009.	None	N/A
Task A.4, Draft Technology Ranking Criteria Report	Task Complete	Draft Classification, Ranking and Prioritization report submitted on May 19, 2009.	None	N/A
Task A.5, Draft Priority List for Testing Report	Underway	Continued development of draft technology list and ranking database.	N/A	N/A
Task A.6, Technology Classification, Ranking and Prioritization Workshop	Task Complete	Workshop presentation materials were developed. Workshop was conducted on May 28, 2009.	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

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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 has been determined.</p> <p><i>UF Gulf Coast Research and Education Center</i> – We have a preliminary agreement to participate, and will finalize arrangements with GCREC after RRAC approves recommendation to proceed with GCREC as a test facility site based on preliminary soil and GW assessment. A summary of the site conditions and recommendations was sent to Elke and distributed May 19, 2009. On May 28, 2009 the RRAC voted to use the GCREC facility site as the only test facility site.</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. We 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 completion in early June	Will attempt to shorten timeframe on final QAPP so that Final deadline is met.
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

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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
<b>Task B – Field Testing of Technologies and Cost Documentation</b>				
Task B.1, Identification of Home Sites	Underway	Continued discussions with homeowners groups. Several home sites in Manasota Key were visited to perform preliminary evaluation of sites with homeowners interested in the project.	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 work plan	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

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<b>Task C – Evaluation of Nitrogen Reduction Provided by Soils and Shallow Groundwater</b>				
Task C.1, Draft Literature Review on Nitrogen Reduction in Soils & Shallow GW Report	Underway	Completed assimilation of literature sources. Draft near completion	Anticipated submittal by June 30, 2009.	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

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<b>Task D – Nitrogen Fate and Transport Modeling</b>				
Task D.1, Draft Literature Review on Nitrogen Fate & Transport Model Report	Underway	Completed assimilation of literature sources. Draft near completion.	Anticipated submittal by June 30, 2009.	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

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<b>Task E – Project Management, Coordination and Meetings</b>				
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, 3 - Complete	The May 2009 progress report (this report) was completed June 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