toolset in ArcGIS 10.5 and information about the pond design to be obtained from Carter & Sloope. NAI will analyze the data to assess whether substantial unaccounted water volumes, attributable to leakage, can be identified. Findings from the water elevation study will be presented in a technical memorandum that will document the study methodology, implementation, collected data, and calculated percolation rates. Figures will be prepared that indicate the location of deployed pressure transducers and weather station. Site photographs of the stilling wells, evaporation pan, and weather station will be included.

Task 6. Nitrate Source Screening Study

NAI will screen nitrate concentrations in surrounding water bodies using a field instrument equipped with an ion-specific UV detector. Neighboring water bodies that will be targeted for screening include: Ocean Pond, Pike Pond, Lot Pond, Grassy Pond, Fly Pond, and the unnamed tributary of the Withlacoochee River that flows near the southeastern corner of the LAS. We understand access to these waterbodies will be facilitated by Lowndes County personnel and NAI will not enter onto private property without permission.

NAI will come prepared with a small portable watercraft (kayak or similar) in case we are permitted onto any of the ponds. If access is available to us, we will attempt to measure nitrate levels at multiple depths at several locations across the accessed waterbodies. The locations of each screening will be recorded using GNSS data.

The results of the nitrate source screening will be presented in a technical memorandum report. The location of each sampling location will be identified on figures that are incorporated into the report. Insights regarding the distribution and concentrations of field screening measurements will discussed in the report.

Budget and Schedule

The not-to-exceed cost for the work outlined above is:

Task 1.	Phase I-Desktop study of additional land tract north of U1 & capacity estimate	$2,500
Task 2.	Phase II-Ground Truthing of tract north of U1 & revised capacity estimate	$6,400
Task 3.	Groundwater Nitrate-Nitrogen Fate & Transport Modeling Analysis	$10,600
Task 4.	Field Installation and Data Acquisition for Holding Pond Study	$10,000
Task 5.	Data Analysis and Reporting for Holding Pond Study	$7,160
Task 6.	Nitrate Source Screening Study	$8,800
	Total	**$45,460**