

All boring and test locations will be recorded with a Global Navigation Satellite System (GNSS) receiver with sub-meter accuracy, differentially corrected, and plotted on a site map with soil map unit boundaries, and areas suitable for irrigation.

Task 2. Background Nitrate-Nitrogen Analysis

The Georgia Environmental Protection Division (EPD) may deny a permit request for expansion of the LAS if the expansion area has background nitrate-nitrogen concentrations in groundwater exceed the maximum contaminant level (MCL) of 10 mg/L. We understand exceedances of the nitrate-nitrogen MCL have occurred, but do not currently exist, during the operation of the LAS, and the proposed expansion area has been used for agricultural production for the last twenty-plus years. As part of the assessment of the expansion site, groundwater samples will be collected from two new monitoring wells constructed inside borings installed using hollow stem drilling technology. The wells will be located along the periphery of the AOI and constructed using 2-inch diameter PVC monitoring well materials and set approximately ten feet beneath the water table. The wells will be completed with locking protective covers installed inside concrete well pads so they can be utilized as part of the long-term groundwater monitoring network. NAI staff will develop the new wells and collect groundwater samples for laboratory analysis of nitrate-nitrogen. Staff will also measure groundwater depth, pH, and specific conductivity in the field.

Task 3. Reporting

The findings of the site evaluation and the groundwater testing will be presented in a technical memorandum. The report will summarize the work performed and the results of the evaluation and site testing. The report will discuss how the results relate to the applicability of utilizing the expansion area at the same design loading as the existing LAS. We note that the current loading scheme is considerably higher than other LASs in Georgia and is higher than current EPD guidelines prescribe. Thus, design loadings that are more than 2.5 inches per week may be difficult to permit, even if the site suitability conditions are effectively the same as those of existing LAS. Nevertheless, we will attempt to maximize the LAS capacity as site conditions warrant.

Budget and Schedule

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

Task 1. Preliminary Site Evaluation	\$ 5,000
Task 2. Monitoring Wells & Background Nitrate-Nitrogen Analysis	\$10,800
Task 3. Soil & Hydrogeologic Reporting	\$ 3,000
Total	\$19,800

This cost includes subcontractor expenses for well drilling and laboratory analyses, which totals approximately \$8,800 in subcontractor costs. If the scope of work meets your needs, and the