Selection of treatment wetland and recharge sites is critical to the overall design of the North Florida Recharge Project. Design of treatment, storage, pumping, transmission and recharge facilities are dependent on establishing the treatment wetland(s) site and estimated performance criteria during this initial conceptual design process.

Initiating the site selection effort as early as possible is essential to timely implementation of the project. The specific site conditions at the treatment wetland and recharge sites are a key component of developing the wetland and recharge facility design basis.

III. SCOPE OF WORK

The SJRWMD will administer the treatment wetland and recharge site investigation and site selection evaluations. The work will be coordinated with the Study Participants. Consultant shall schedule review workshops with the Study Participants at key project milestones.

Consultant shall pay particular attention to Basin Management Action Plan water quality requirements when evaluating treatment wetland performance criteria and treatment technologies for use in treating wetland discharge flows to meet the water quality requirements for recharge facilities.

Consultant will be responsible for conducting treatment wetland and recharge site investigations and site evaluations, in conformance with the tasks delineated below, preparing workshop presentation materials and conducting the kickoff workshop and review workshops. Consultant shall prepare the technical memoranda delineated below and a final report summarizing the methodologies, results, and recommendations of the investigation and evaluations.

The Tabletop Technical Memorandum and the Final Report shall at a minimum include the following:

Treatment Wetlands

- Identification of potential treatment wetland sites.
- Conceptual design for wetland treatment system(s).
- Preliminary design criteria for treatment wetland(s).
- Projected treatment wetland discharge water quality.
- Recommendation for candidate technologies for treatment of wetland discharge water to meet recharge water quality requirements for recharge wells and RIBs or recharge wetland(s).
- Evaluation of the need for treatment technology pilot studies.
- Specific permitting requirements for design and construction of wetland(s).
- Estimated parcel acquisition costs.
- Preliminary capital cost estimates.
- Preliminary estimates of annual operation and maintenance costs.
- Preliminary estimate of 20-year rehabilitation and replacement costs.
- Preliminary timeline for treatment wetland project design, permitting, and construction.
- Recommendations for future hydrogeological site testing.

Recharge Wells

- Identification of potential recharge well sites.
- Conceptual design of recharge well facilities.
- Preliminary design criteria for recharge wells.
- Monitoring well requirements.
- Recommended recharge well facility site acreage.
- Specific permitting requirements.
- Preliminary capital cost estimates.