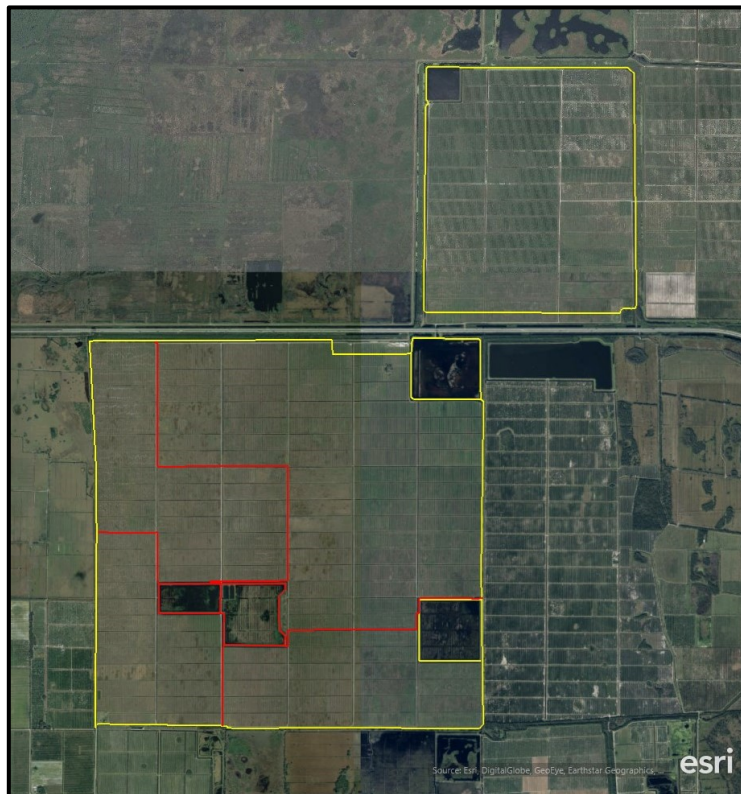


March 1, 2020

Scott Water Farm Monitoring Plan



Introduction

The purpose of water farming is to capture onsite rainfall and divert and store excess surface water from regional canals during periods of time when discharges of this excess water may harm the coastal estuaries. Withdrawals of excess surface water from regional canals into the water farm are coordinated with and approved by the South Florida Water Management District (SFWMD). These withdrawals are intended to retain excess water and not to release back to the Turnpike Canal.

No.: 45529-008

Table of Contents

1. Project Location	3
2. Project Description.....	5
3. Data Collection	6
3.1 Water Quality Data.....	6
3.2 Water Quantity Data	6
3.2.1 Rainfall Gauges	6
3.2.2 Water Level Sensors	13
4. Reporting	13

1. Project Location

The Scott Water Farm is located in northern Okeechobee and southern Indian River counties, Florida and includes the construction of two (2) storage facilities. **Figure 1-1** provides the location of the proposed storage facilities; referred to as Scott 2000 (north of the Florida Turnpike) and Scott 6000 (south of the Florida Turnpike). The property is located at the northern boundary of the C-25 Basin as is shown in **Figure 1-2**. The property is directly adjacent to the Turnpike Canal, which discharges into the C-25 Extension, ultimately discharging into the C-25 Canal approximately 4.5 miles west of the S-99. Proposed pumps will draw water from the Turnpike Canal.

Scott 2000 is located in Indian River County, Florida and will include 2,011 acres of water farming area for surface water storage (inclusive of the existing reservoirs). The storage facility will be located within the St. Johns River Water Management District (SJRWMD) boundary and is situated north of the Florida Turnpike (State Road 91). Scott 2000 is in Township 33 South, Range 36/37 East, Sections 25, 30, and 36.

Scott 6000 is located in Okeechobee County, Florida and will provide 4,750 acres of water farming area (inclusive of the existing reservoirs). This storage facility will be located on property that is partly within the SJRWMD to the north and partly within the South Florida Water Management District (SFWMD) to the south and is located on the south side of the Florida Turnpike. Scott 6000 is in Township 34 South, Range 36 East, Sections 1, 2, 3, 10, 11, 12, 13, 14, and 15.

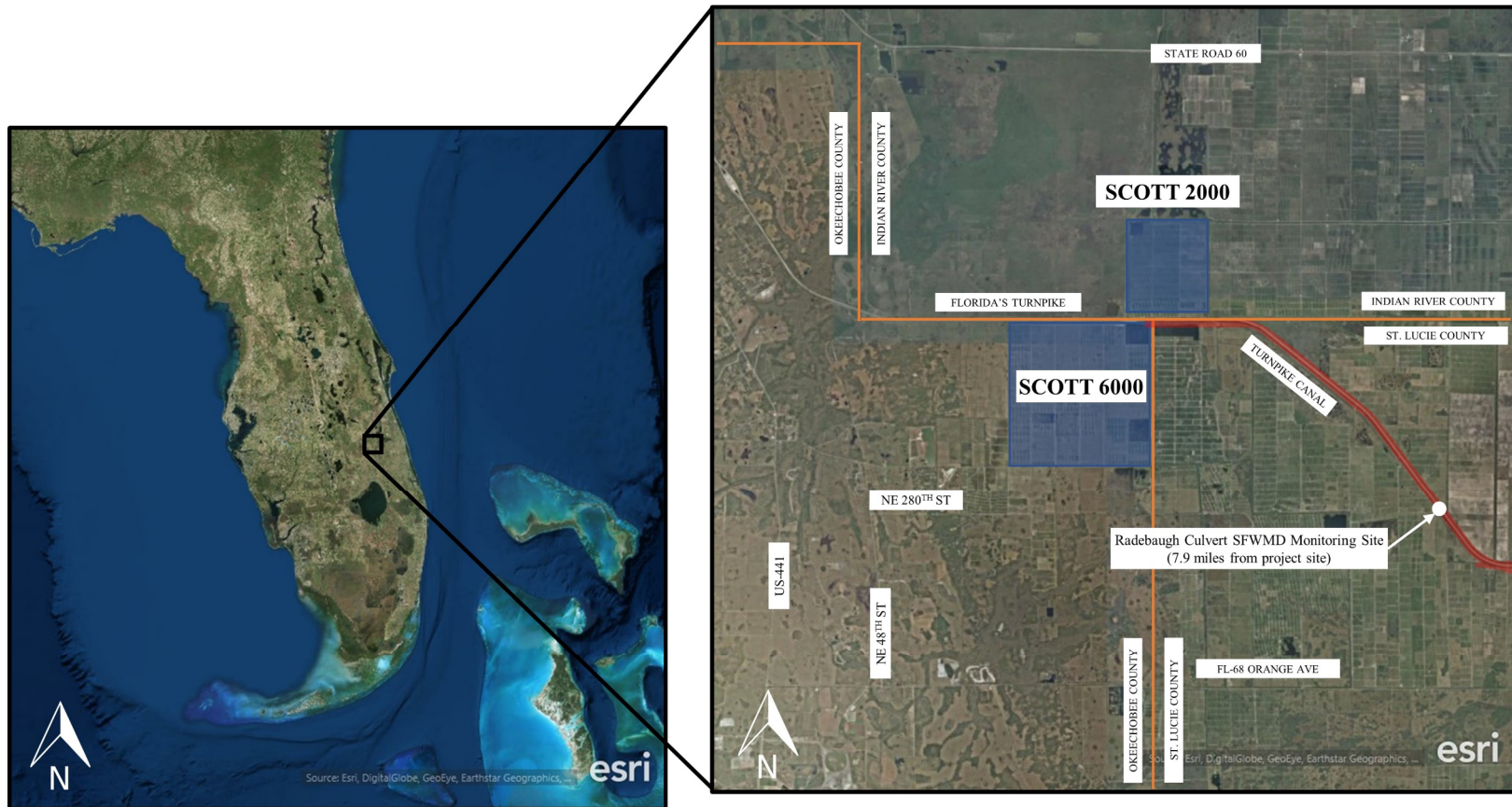


Figure 1-1: Scott Water Farm Location

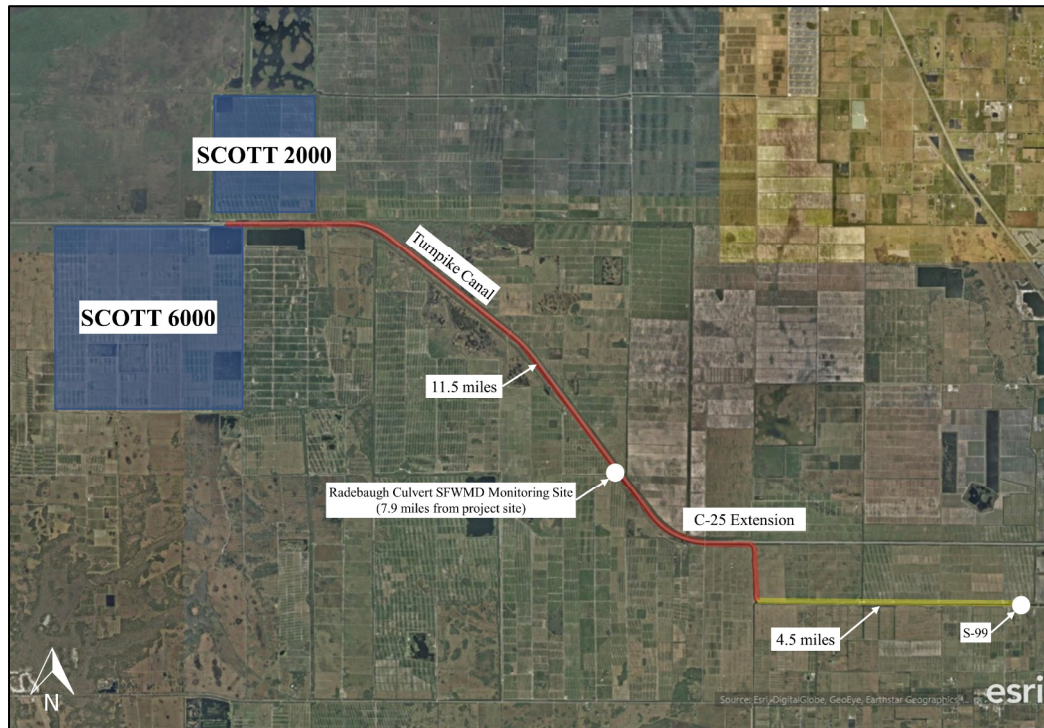


Figure 1-2: C-25 Basin Regional Map

2. Project Description

The Scott Water Farm Northern Everglades Public Private Partnership (NE PPP) is proposed on two (2) parcels. The two parcels are named Scott 2000 (resides in Indian River County) and Scott 6000 (resides in Okeechobee County). Both Scott 2000 and Scott 6000 are fallow citrus groves and will be used to retain surface waters to reduce tidal discharges from the C-25 basin. In other words, the operational intent of the project is to retain excess water and not to release back to the C-25 basin via the Turnpike Canal.

Stormwater runoff/excessive surface water will be supplied to the Scott Water Farm via the Turnpike Canal. Excess water will be pumped into Scott 6000 using the Turnpike Pump Station with the intake withdrawing from the Turnpike Canal (connected to the C-25 Extension) on the south side of the Florida Turnpike. Water can also be sent to Scott 2000 using a proposed pump station located in the southwest corner of Scott 2000. The Scott 2000 Pump Station intake will withdraw water from internal canals that are linked (via culverts) to the Turnpike Canal. The Scott 2000 inflow pump station will have a capacity of 67 cubic feet per second (cfs) (30,000 gallons per minute (gpm)). The Scott 6000 inflow pump station (proposed Turnpike Pump Station) will have a total capacity of 125 cfs (56,000 gpm).

3. Data Collection

3.1 Water Quality Data

Water quality data will be manually collected from sampling sites by the SFWMD. Water quality monitoring shall be conducted at all project inflow and outflow locations using two different schedules. During normal operations, when water is being pumped into the dispersed water management system, water quality sampling will be performed **bimonthly** to confirm the quality of inflow water. Whenever water is going over the outfall weirs of the project, water quality samples will be taken on a daily basis for the first three days and then on a weekly basis thereafter.

Due to the gradual nature of change in water quality within the dispersed water management system and the adjacent regional canal system, water quality monitoring will be performed using grab samples. Two separate sets of locations for grab samples will be used: one set for collecting inflow grab samples and one for collecting outflow grab samples. Those locations are identified in **Figure 3-**.

Water quality sampling will be made for Total Phosphorus and Total Nitrogen with the nitrogen **speciated** by organic and inorganic nitrogen. **Table 3-1** will be used for tracking water quality monitoring information.

3.2 Water Quantity Data

Pump run times will be logged daily and reported to the SFWMD monthly for each of the pumps utilized within the DWM facility by Scott Dispersed Water Management, LLC. To calculate the actual amount of water pumped into the facility within a given period, the Scott Dispersed Water Management, LLC shall provide logs of run time of pumps located at each of the inflows. Water level sensors will record daily measurements in each of the cells to assist Scott Dispersed Water Management, LLC in when to move water between cells. At the outflow cells, water level readings will assist in calculating overflow over the outfall weirs. Scott Dispersed Water Management, LLC will report the data monthly to the SFWMD. Rainfall data loggers have a measurement resolution of one second. Average daily rainfall will be calculated by Scott Dispersed Water Management, LLC and reported to the SFWMD monthly.

Scott Dispersed Water Management, LLC shall install the water level and rainfall sensors. Water level conditions will be monitored using sensors within each of the Water Farm cells at Scott 6000 and within Scott 2000. Each water quantity recorder will act independently and shall include the sensor, power supply, and data logger within a single housing. Data from the water level and rainfall recorder will be collected manually by Scott Dispersed Water Management, LLC.

Tables 3-2a, 3-2b and 3-2c will be used for tracking water quantity monitoring information.

3.2.1 Rainfall Gauges

Rainfall gauges (i.e., recorder) shall be installed at a location within the Scott 2000 site and the Scott 6000 site as depicted in **Figure 3-**. The pump stations include the Scott 2000 Pump Station, Turnpike Pump

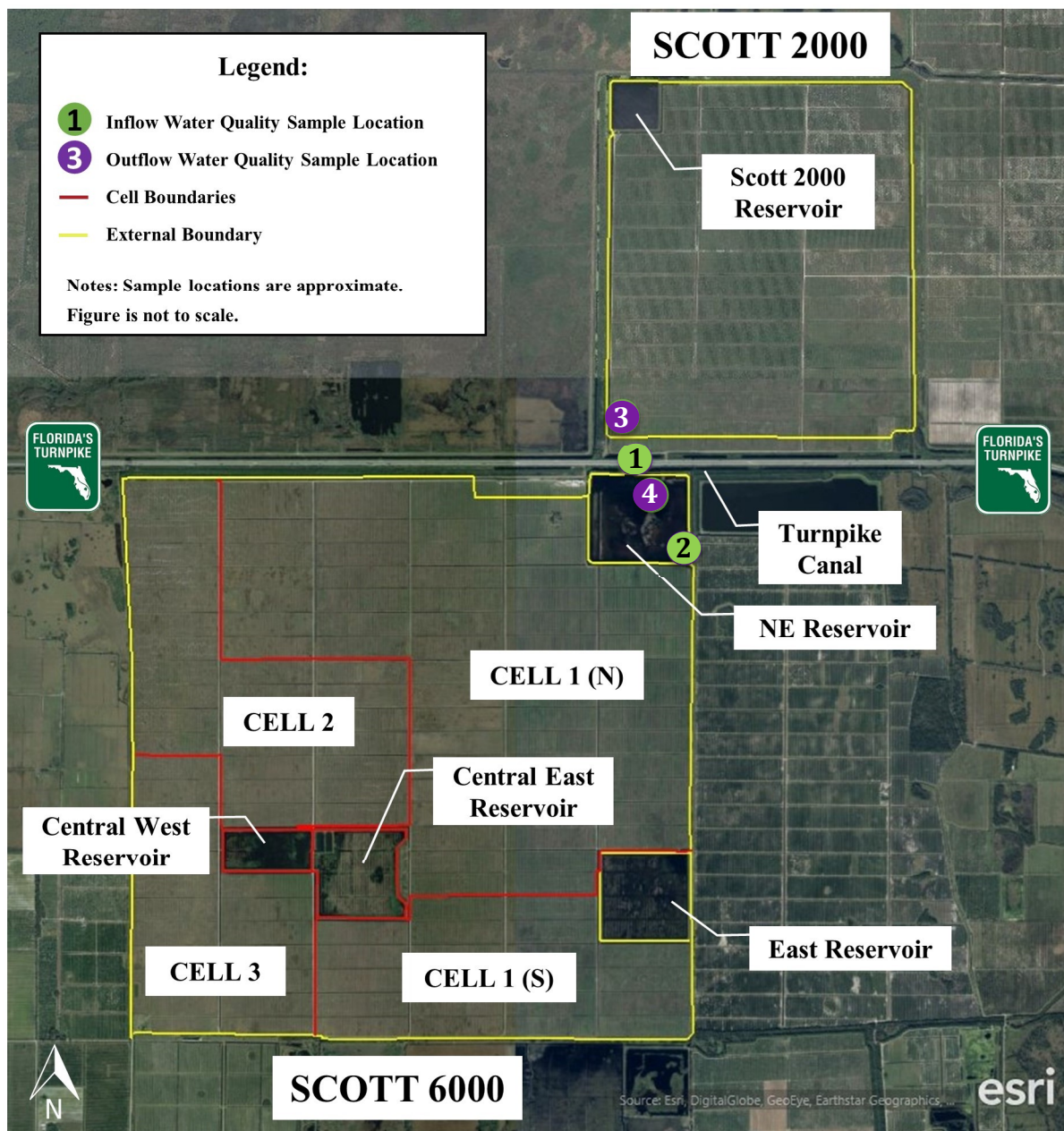


Figure 3-1: Proposed Locations for Inflow and Outflow Water Quality Sampling

Table 3-1: Water Quality Monitoring



Water Quality Parameters	Location Inflow	Location Outflow	Date Sampled
Total Phosphorus			
Total Organic Nitrogen			
Total Inorganic Nitrogen			
Total Phosphorus			
Total Organic Nitrogen			
Total Inorganic Nitrogen			
Total Phosphorus			
Total Organic Nitrogen			
Total Inorganic Nitrogen			
Total Phosphorus			
Total Organic Nitrogen			
Total Inorganic Nitrogen			
Total Phosphorus			
Total Organic Nitrogen			
Total Inorganic Nitrogen			

Table 3-2a: Water Quantity Monitoring – Pump Run Times

[illegible]

Table 3-2b: Water Quantity Monitoring – Water Elevations

Outlet Cell Water Level	Weir Crest Level	Weir Crest Length	Date

Table 3-2c: Water Quantity Monitoring – Localized Rainfall

[illegible]

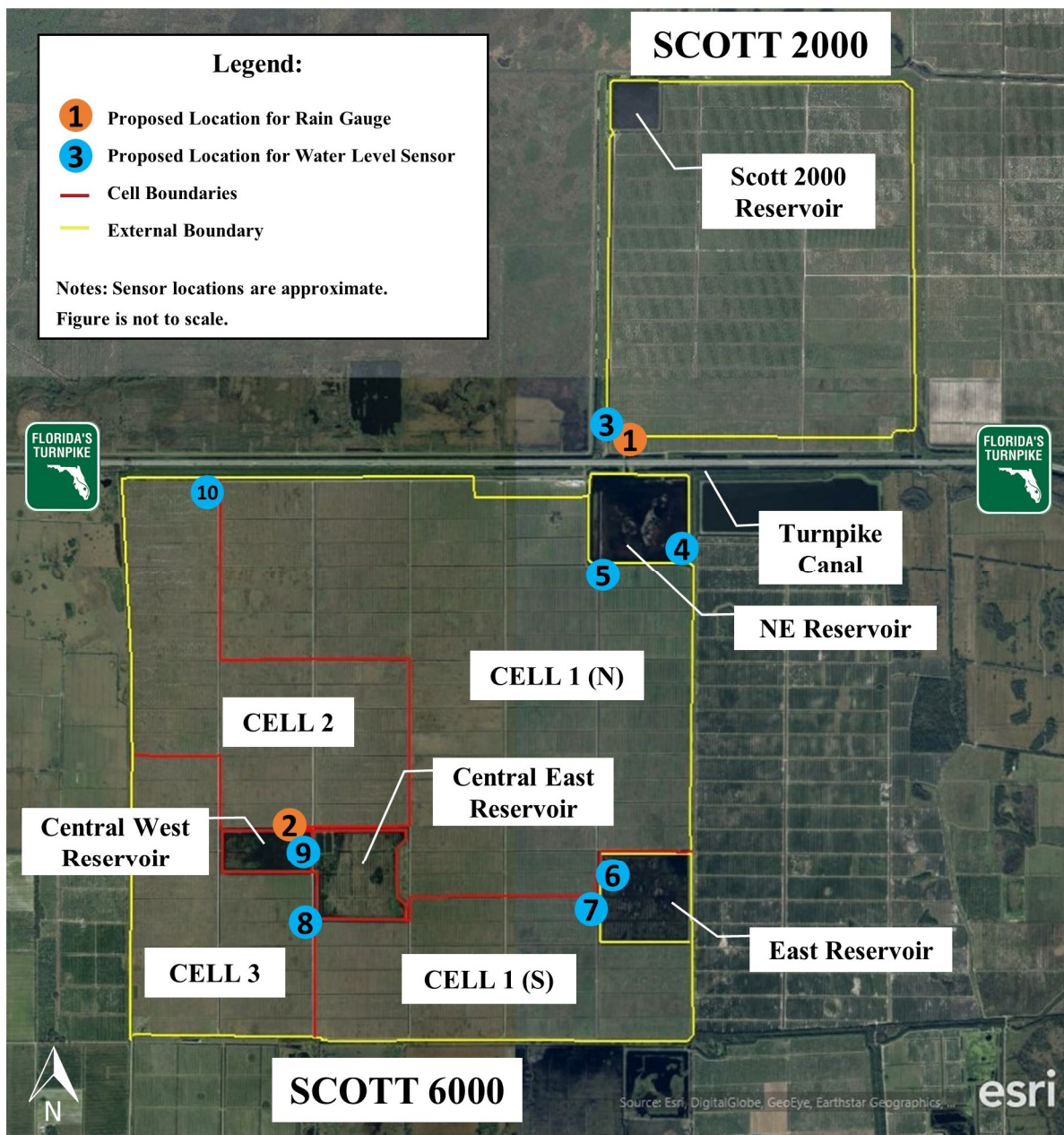


Figure 3-2: Proposed Locations for Rain Gauges and Water Level Sensors



Station, PS 9, and PS 12. The hardware for the rain gauges shall be HOB0 Rain Gauge with Data Logger Model RG3. These rain gauges are equipped with batteries that are estimated to have a one-year lifespan and are replaceable. At a minimum, a 45-degree free and clear cone of entry will be provided with each rain gauge. Also, surrounding objects will not be closer to the gauge than a distance twice their height above the gauge orifice. Each rain gauge will be supported by 2" diameter rigid galvanized conduit that shall be anchored in at least 1.60 cubic feet of concrete (minimum of 2' deep). The data logger will be calibrated according to the manufacturer's recommendations.

3.2.2 Water Level Sensors

A water level sensor (i.e., recorder) shall be installed within each cell of the facility as depicted in **Figure 3-**. The hardware for the water level sensor shall be HOB0 Water Level Data Logger Model U20L-04. These water level sensors are equipped with batteries that are estimated to have a five-year lifespan and are replaceable. Lifespan is estimated based on one minute or greater measurement intervals. It is intended to record based on daily intervals. The sensors will be installed within a PVC well to protect the sensor from external forces. The data logger will be calibrated according to the manufacturer's recommendations. In addition to the water level sensors, water level floats will be utilized at each pump station to automatically turn pumps off if water reaches or exceeds the control elevations established in the Operational Plan.

4. Reporting

Monthly, the SFWMD will share results of water quality monitoring sampling events with the Scott Dispersed Water Management, LLC and the **Interagency Working Group**. On a monthly basis, the Scott Dispersed Water Management, LLC will also share collected data on pumping, water level and rainfall records. 

Scott Dispersed Water Management, LLC shall submit Quarterly Reports to the SFWMD summarizing operational activities including pumping logs and maintenance activities to demonstrate that the facility is operating as designed and permitted. In addition, the Scott Dispersed Water Management, LLC shall prepare and submit management records using a template previously approved by the SFWMD. The report must include pumping information necessary to calculate pumped volumes, documentation that water elevations were maintained consistent with the Operations Plan, all maintenance activities, a description of any changes in structure management, damages to structures, date of damages or changes, the reasons for making changes, and general site conditions (e.g., rainfall data).

In addition to the Quarterly Reports, Scott Dispersed Water Management, LLC shall submit to the SFWMD an Annual Report summarizing the inflow volumes, operational and maintenance issues, annual inflow pump calibrations, and any other information applicable to the estimated water quality and quantity benefits of the DWM facility.

Scott Dispersed Water Management, LLC shall submit an Annual Certification Statement in conjunction with the Annual Report. The Annual Certification Statement shall indicate that the facility was operated and maintained consistent with the approved plans and permits and continues to operate as designed,



scheduled maintenance activities were performed, and provide a brief discussion of any operational issues encountered during the certification year.