



*Florida Department of Transportation*

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GOVERNOR

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JARED W. PERDUE, P.E.  
SECRETARY

June 7, 2022

Mr. Larry T. Cole,  
U.S. Environmental Protection Agency, Region 4  
Water Protection Division  
Ground Water & UCIC Section  
61 Forsyth Street, S.W.  
Mail Code 9T25  
Atlanta, GA 30303-8960

**Subject:** Request for Sole Source Aquifer Concurrence  
**Project Name:** Old Lake Wilson Road PD&E Study  
**ETDM #:** 14456  
**Financial Project #:** 448781-1-22-01  
**County:** Osceola

Dear Mr. Cole:

The Osceola County Department of Transportation and Transit in conjunction with the Florida Department of Transportation (FDOT), District Five, is conducting a Project Development and Environment (PD&E) Study for the potential two-lane to four-lane widening of Old Lake Wilson Road from County Road 532 to Sinclair Road, a distance of approximately 2.5 miles (see attached Figure 1 – Project Location Map). The primary purpose of improving Old Lake Wilson Road is to enhance capacity and system’s linkage, including adding bicycle and pedestrian facilities. The secondary objectives are to provide transportation infrastructure to support economic growth, provide consistency with local plans and policies, and enhance safety.

The project was reviewed through FDOT’s Efficient Transportation Decision Making (ETDM) process where members of the Environmental Technical Advisory Team (ETAT) provided input/comments. Osceola County prepared an Advance Notification (AN) package dated June 25, 2021. Comments were received by US Environmental Protection Agency (USEPA) based on the AN review. The ETDM Preliminary Programming Screening Summary Report was completed on September 7, 2021 (ETDM #14456). This ETDM report, including agency comments, GIS analysis, and additional project information can be accessed at the following website: <http://etdmpub.fl-etat.org/est>. The project’s class of action is anticipated to be a Type 2 Categorical Exclusion.

## **ETDM Screening Comments**

During the ETDM Programming Screen, comments were provided by the Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), Southwest Florida Water Management District (SWFWMD), and the USEPA under the “Water Resources” section. FDEP assigned a degree of effect of “None”, while the SFWMD assigned a degree of “Minimal” and the SWFWMD and USEPA assigned a degree of effect of “Moderate.”

The USEPA stated that the project is located within the Biscayne Sole Source Aquifer Streamflow and Recharge Source Zone and within 100 feet of the Lake Okeechobee Basin Management Action Plan (BMAP). Additionally, there was one Verified Impaired Florida Waters, Davenport Creek (WBID: 3170K), identified within the 500-ft. project buffer. Therefore, The USEPA assigned a “Moderate” degree of effect to Water Quality and Quantity. For the environmental evaluation of the widening of Old Lake Wilson Road, the USEPA recommended the following practices for direct water quality and quantity impacts:

- Consult the Lake Okeechobee BMAP Plans.
- Reduce the impact of pollution runoff from construction activities.
- Use best management practices to control erosion, sediment release, and storm water surface runoff to minimize adverse impacts on water resources.
- Stabilize soils to reduce the effects of erosion, sedimentation, and runoff to maintain or improve water quality.
- Identify and quantify incremental and cumulative impacts on water quality as a result of the past, present, and reasonably foreseeable actions, including the proposed project and other land use actions.

The USEPA also assigned a “Moderate” degree of effect for Contamination in the ETDM Programming Screen. The USEPA stated that heavy rains within the project corridor can cause degradation in water quality from wildlife, stock, human sewage, and stormwater runoff and that stormwater runoff from the built environment is a principal contributor to water quality impairment of water bodies nationwide. Additionally, an increase in impervious or semi-impervious surfaces can contribute to surface drainage and non-point sources that will impact surface and groundwater quality. The USEPA recommended the following avoidance, minimization, and mitigation opportunities:

- The USEPA recommends corrective action is completed before commencement of project activities, if applicable.

## **Water Quality**

The study area lies within the jurisdiction of SFWMD and specifically within Waterbody Identification Number 3170K (Davenport Creek). All projects located within the jurisdiction of the SFWMD are required to meet state water quality standards set forth in Chapter 62-302, Florida Administrative Code (FAC). The approach to meet water quality standards is to provide treatment for the increase in impervious area and restore or replace existing treatment facilities impacted by this project. Old Lake Wilson Road is relatively flat throughout the corridor, with the exception of the bridge over I-4. The project is divided into seven subbasins based on the existing permits, roadway profile, and culvert locations. All basins within the project limits are open basins, ultimately discharging to Reedy Creek. The project limits are included in the following SFWMD environmental resource permits (ERPs); Permit No. 49-01107-P – Reunion Master Stormwater Plan and Permit No. 49-00954-P – Old Lake Wilson Road Widening (County Road 545).

The attached Water Quality Impact Evaluation (WQIE) Checklist was completed for the project. The results confirm that the proposed stormwater facility design will include, at a minimum, the water quantity requirements for water quality impacts as required by the SFWMD in Chapter 62-302 of the FAC. It is therefore anticipated that no adverse effects will occur to the water quality within the project area. Osceola County will continue to coordinate water quality and quantity impacts and stormwater management with the appropriate regulatory agencies as required throughout the design and permitting phases of the project, as well as during and after construction. Water quality impacts resulting from erosion and sedimentation during construction activities will be controlled in accordance with FDEP's National Pollutant Discharge Elimination System (NPDES) Permit including the preparation of a Stormwater Pollution Prevention Plan (SWPPP); the latest edition of the FDOT Standard Specifications for Road and Bridge Construction; and through the use of Best Management Practices (BMPs) including temporary erosion features (e.g. turbidity barriers) during construction.

Any dewatering operations in the vicinity of potentially contaminated areas shall be managed properly following SFWMD/FDEP guidance and coordination. In the event that any hazardous material or suspected contamination is encountered during construction, or if any spills caused by construction-related activities should occur, the Contractor shall be instructed to stop work immediately and conduct the appropriate notification process with the Osceola County Department of Transportation and Transit and the appropriate regulatory agencies.

## **Sole Source Aquifer**

The project limits lie within the boundaries of the Biscayne Sole Source Aquifer Streamflow and Recharge Source Zone which includes portions of Osceola County extending south towards the Everglades. As such, the Sole Source Aquifer Checklist was completed for this project and attached for your review. For the majority of the project limits, stormwater runoff sheet flows off the roadway. At the bridge approaches at I-4, runoff is collected in shoulder gutter inlets and

conveyed to the existing infield stormwater pond or roadside ditches. The proposed stormwater facilities will meet all SFWMD criteria, therefore, water quality impacts to downstream receiving waters are not anticipated to occur.

In accordance with the Sole Source Aquifer Program, authorized by Section 1424 (e) of the Safe Drinking Water Act of 1974, the FDOT is requesting your concurrence that no adverse impacts to the Biscayne Sole Source Aquifer Streamflow and Recharge Source Zone are anticipated as a result of the proposed project.

If you have any questions, please feel free to contact me at 386-943-5411 or William.Walsh@dot.state.fl.us.

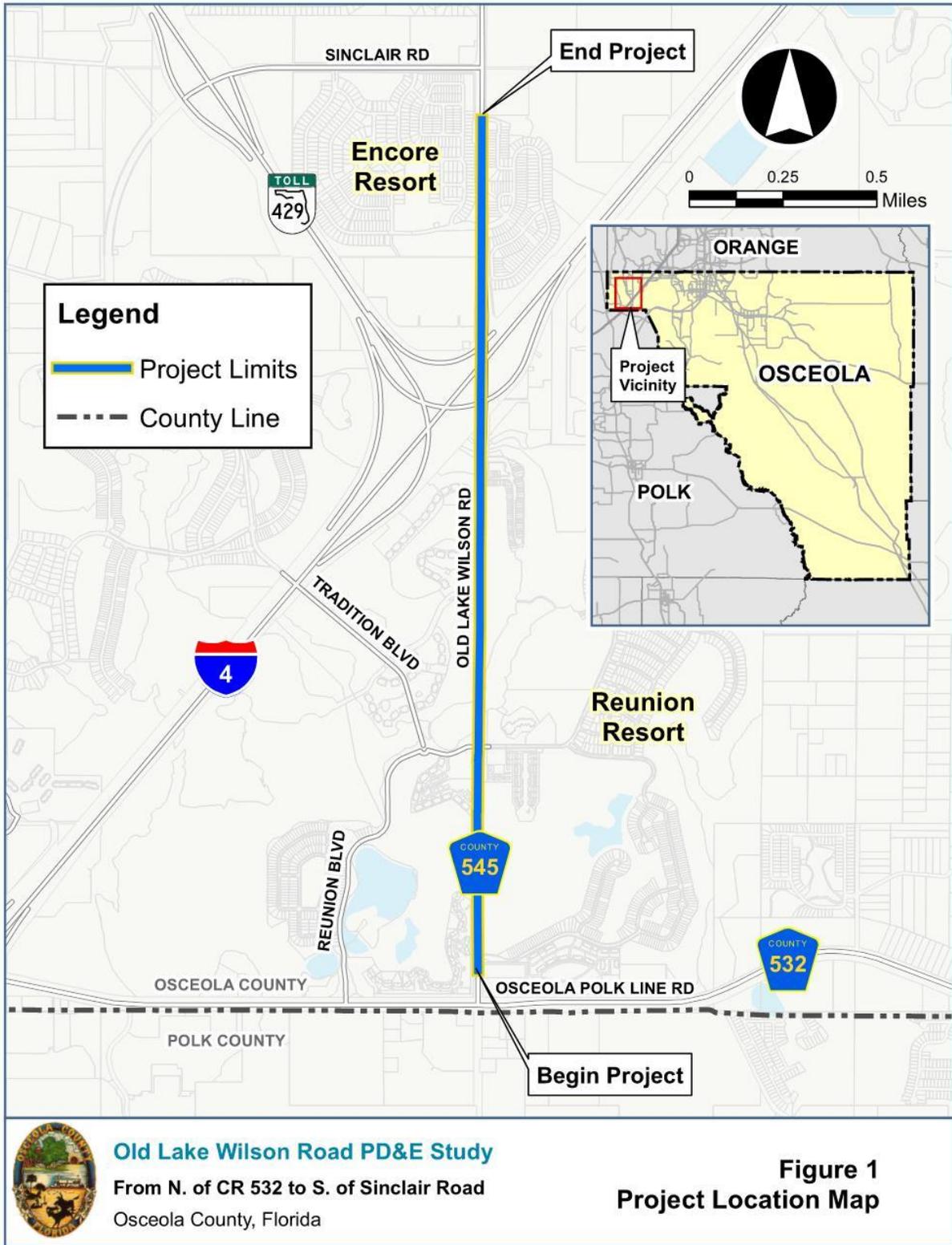
Sincerely,



William G. Walsh  
Environmental Administrator  
FDOT, District Five

Cc: Mark Trebitz, P.E., FDOT  
Jessica Dean, P.E., Osceola County

Attachments: Project Location Map, WQIE, SSA Checklist



## WATER QUALITY IMPACT EVALUATION CHECKLIST

### PART 1: PROJECT INFORMATION

|                            |  |
|----------------------------|--|
| Project Name:              | Reconstruction of Old Lake Wilson Road (CR 545) Widening Project Development and Environment (PD&E) Study from County Road 532 to South of Sinclair Road   |
| County:                    | Osceola  |
| FM Number:                 | N/A  |
| Federal Aid Project No:    | N/A  |
| Brief Project Description: | Osceola County is conducting a Project Development and Environment (PD&E) study to evaluate the widening of Old Lake Wilson Road/County Road 545 (CR 545) from two to four lanes. The total project length is approximately 2.5 miles. The study includes capacity improvements along the roadway and at intersections, a new bridge over Interstate 4 (I-4), the addition of a median, and bicycle and pedestrian features. |

### PART 2: DETERMINATION OF WQIE SCOPE

Does project discharge to surface or groundwater?  Yes  No

*Project discharges to various creeks, tributaries, and wet ponds with potentiometric connection to groundwater.*

Does project alter the drainage system?  Yes  No

*Project currently flows untreated through open systems. Closed conveyance systems will be constructed to convey runoff to existing stormwater management facilities.*

Is the project located within a permitted MS4?  Yes  No

Name: Osceola County (FLR04E012)

If the answers to the questions above are no, complete the applicable sections of Part 3 and 4, and then check Box A in Part 5.

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**PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS**

**Surface Water**

Receiving water names:

*Davenport Creek;  
Unnamed Tributary;  
Permitted SMF Ponds*

Water Management District:

*SFWMD*

Environmental Look Around meeting date: \_\_\_/\_\_\_/\_\_\_

*N/A – treatment to be provided in existing permitted facilities*

Water Control District Name(s) (list all that apply):

*N/A*

**Groundwater**

Sole Source Aquifer (SSA)?  Yes  No Name Biscayne Sole Source Aquifer  
Streamflow and Recharge Zones  
If yes, complete Part 5, D and complete SSA Checklist from EPA website ([Figure 11-1](#))

Other Aquifer?  Yes  No Name \_\_\_\_\_

Springs vents?  Yes  No Name \_\_\_\_\_

Well head protection area?  Yes  No Name \_\_\_\_\_

Groundwater recharge?  Yes  No Name \_\_\_\_\_

Notify District Drainage Engineer if karst conditions are expected or if a higher level of treatment may be needed due to a project being located within a WBID verified as Impaired in accordance with Chapter 62-303, F.A.C.

Date of notification: \_\_\_/\_\_\_/\_\_\_

#### **PART 4: WATER QUALITY CRITERIA**

List all WBIDs and all parameters for which a WBID has been verified impaired or has a TMDL in **Table 1**. This information should be updated during each re-evaluation as required.

Note: If BMAP or RAP has been identified in **Table 1**, **Table 2** must also be completed. *Attach notes or minutes from all coordination meetings identified in **Table 2**.*

EST recommendations confirmed with agencies?  Yes  No

BMAP Stakeholders contacted?  Yes  No

TMDL program contacted?  Yes  No

RAP Stakeholders contacted?  Yes  No

Regional water quality projects identified in the ELA?  Yes  No

If yes, describe:

Potential direct effects associated with project construction and/or operation identified?  Yes  No

If yes, describe:

Discuss any other relevant information related to water quality including Regulatory Agency Water Quality Requirements.

*Environmental Resource Permitting will be required, including the modification of existing permits which included theoretical future roadway basin characteristics to reflect the final design conditions. Treatment will be required for all new impervious surface, and the current conditions of the existing permitted ponds verified through inspection and/or survey of the stormwater management facilities as necessary.*

**PART 5: WQIE DOCUMENTATION**

- A. No involvement with water quality
- B. No water quality regulatory requirements apply.
- C. Water quality regulatory requirements apply to this project (provide Evaluator's information below). Water quality and stormwater issues will be mitigated through compliance with the design requirements of authorized regulatory agencies.
- D. EPA Ground/Drinking Water Branch review required.  Yes  No  
Concurrence received?  
If Yes, Date of EPA Concurrence: \_\_\_\_/\_\_\_\_/\_\_\_\_ (Attach the concurrence letter)

The environmental review, consultation, and other actions required by applicable state and federal environmental laws for this project are being, or have been, carried out by Osceola County.

|   |                  |
|---|------------------|
| Evaluator Name (print): Michael A. Holt |                  |
| Title: Senior Drainage Engineer         |                  |
| Signature: <i>Michael A. Holt</i>       | Date: 04/25/2022 |



**PROJECT NAME:** Old Lake Wilson Road PD&E Study

**NAME OF SOLE SOURCE AQUIFER:** Biscayne Sole Source Aquifer Streamflow and Recharge Source Zones

1. **Location of project:** Old Lake Wilson Road from CR 532 to Sinclair Road in Osceola County
2. **Project description.** Widening of Old Lake Wilson Road and adding bicycle and pedestrian features
3. **Is there any increase of impervious surface? If so, what is the area?** Yes, the two lane roadway will be widened to a four lane roadway.
4. **Describe how storm water is currently treated on the site?** Stormwater runoff from Old Lake Wilson Road is collected in roadside swales. Portions of the roadway are directed to existing stormwater retention ponds that have been sized to accommodate the 4-lane widening. The remainder flows untreated to adjacent wetland areas, creeks, and tributaries. For the untreated basins, existing ponds have been sized to accommodate the future 4-lane section of roadway and thus provide overtreatment in current conditions.
5. **How will storm water be treated on this site during construction and after the project is complete?** During construction, erosion and sedimentation will be treated in accordance with FDEP's NPDES Permit and Stormwater Pollution Prevention Plan (SWPPP). After construction, it will be a type E curb and gutter stormwater collection system. Stormwater captured by the proposed inlets will be conveyed, by closed storm sewer pipes, to one or multiple of the existing pond sites. Captured stormwater will receive treatment and attenuation by the wet detention pond before discharging to the adjacent stormwater outfall.
6. **Are there any underground storage tanks present or to be installed? Include details of such tanks.** Yes, within the 500-foot buffer there are three underground storage tanks (UST). There are no UST sites located within the 100-foot buffer. None will need to be removed for construction.
7. **Will there be any liquid or solid waste generated? If so how will it be disposed of?** No liquid or solid waste will be generated.
8. **What is the depth of excavation?** Excavation associated with the project will be associated with the restoration of some existing ponds (approximately 1.5 - 3 feet).
9. **Are there any wells in the area that may provide direct routes for contaminants to access the aquifer and how close are they to the project?**  
There are no limited use drinking water wells or WMD well construction permit locations within the 500-foot buffer.
10. **Are there any hazardous waste sites in the project area, especially if the waste site has an underground plume with monitoring wells that may be disturbed? Include details.** There is one hazardous waste sites within a 200-foot buffer, CVS Pharmacy #1750, one within a 500-foot buffer, Tire Kingdom #6431, and one within a half-mile buffer, Wawa Florida LLC #5299.
11. **Are there any deep pilings that may provide access to the aquifer?** There will be piles driven for the new southbound Old Lake Wilson Road bridge over I-4. The new piles would be considered deep piles, however access to the aquifer is not anticipated.
12. **Are Best Management Practices planned to address any possible risks or concerns?** Yes, SWPPP will be utilized.
13. **Is there any other information that could be helpful in determining if this project may have an effect on the aquifer?** Impacts to the aquifer are not anticipated as all stormwater will meet state water quality standards set forth in Chapter 62-302 of the Florida Administrative Code.

14. Does this Project include any improvements that may be beneficial to the aquifer, such as improvements to the wastewater treatment plan? Not at present.