

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
WATER QUALITY IMPACT EVALUATION CHECKLIST

650-050-37
ENVIRONMENTAL
MANAGEMENT
08/24

PART 1: PROJECT INFORMATION

Project Name:	Orange Avenue Reevaluation
County:	Orange & Osceola County
FM Number:	N/A
Federal Aid Project No:	N/A
Brief Project Description:	Provide roadway improvements along 0.6 miles along Orange Avenue from Orange/Osceola County line to Florida's Turnpike

PART 2: DETERMINATION OF WQIE SCOPE

Does project discharge to surface or ground water? Yes No

Does project alter the drainage system? Yes No

Is the project located within a permitted MS4? Yes No

Name: Orange County and Co Permitees and Osecoal County Permitees

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.

PART 3: PROJECT BASIN AND RECEIVING WATER CHARACTERISTICS

Surface Water

Receiving water names: Mill Slough

Water Management District: South Florida WMD

Coordination meeting date: 9/25/2025

Attach meeting minutes/notes to the checklist.

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

Groundwater

Sole Source Aquifer (SSA)? Yes No

Name _____

If yes, complete Part 5, D and the [EPA Region 4 Sole Source Aquifer Project Review Form](#)

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: No Karst Conditions expected.

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 through coordination or the WATERSS process? Yes No

If yes, describe:

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

If yes, describe:

Increase in impermeable cover and erosion/sedimentation control during construction.

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

The project is located within the Lake Okeechobee BMAP area, therefore a PRE/POST analysis evaluating Total Phosphorus (TP) will be required.

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? Yes No
If Yes, Date of EPA Concurrence: [Click here to enter a date..](#)
Attach the concurrence letter

Evaluator Name (print):	
Title:	
Signature:	Date: Click here to enter a date.

Table 1: Water Quality Criteria

Receiving Waterbody Name (list all that apply)	FDEP Group Number / Name	WBID(s) Numbers	Classification (I,II,III,IIIL,IV,V)	Special Designations*	NNC limits**	Verified Impaired (Y/N)	TMDL (Y/N)	Pollutants of concern	BMAP, RA Plan or SSAC
Mill Slough	4	3173D	III	N/A	N/A	N	Y	Total Phosphorus	Lake Okeechobee BMAP

* ONRW, OFW, Aquatic Preserve, Wild and Scenic River, Special Water, SWIM Area, Local Comp Plan, MS4 Area, Other

** Lakes, Spring vents, Streams, Estuaries

Note: If BMAP or RAP has been identified in [Table 1](#), [Table 2](#) must also be completed.



ORANGE AVENUE WIDENING PROJECT

SFWMD PRE-APPLICATION MEETING MINUTES

Date: 9/29/2025

Time: 10:30 AM – 11 AM

Location: Virtual (Microsoft Teams)

In Attendance

Name	✓	Organization	Email
Richard Lott	✓	SFWMD	RLott@sfwmd.com
Lisa Prather	✓	SFWMD	LPrather@sfwmd.com
Sandra Gonzalez	✓	SFWMD	SGonzalez@sfwmd.com
Ghulam Qadir	✓	Orange County	Ghulam.Qadir@ocfl.net
Esther Fernandez	✓	Orange County	Esther.Fernandez@ocfl.net
Kevin Knudsen	✓	Dewberry	KKnudsen@dewberry.com
Sarah Phillips	✓	Dewberry	SPhillips@dewberry.com
Jairo "J.R." Rodriguez	✓	Dewberry	JRRodriguez@dewberry.com
Dan Christie	✓	Dewberry	DChristie@dewberry.com
Nicole Gough	✓	Dewberry	NGough@dewberry.com
Harlan Walcott	✓	Dewberry	HWalcott@dewberry.com

Agenda

Project Background

[Project Location](#)

Project Limits: Orange Ave from Mary Louis Ln to Town Center Blvd

Receiving Waterbody: Mill Slough

Scope:

- Widening Orange Ave from Mary Louis Ln to S of the Turnpike (SR 91)
 - Stormwater Management
 - Floodplain Compensation (FEMA Zone A)
 - Wetland Mitigation
- Milling & Resurfacing and Restriping from S of the Turnpike (SR 91) to Town Center Blvd

Project Basins

Basin A (S of CBC)

- New Individual Permit – “Ellison on Orange” (Flournoy Dev Group, Atwell)
 - App 250312-51091, Permit # 48-113625-P
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ORANGE AVENUE WIDENING PROJECT

SFWMD PRE-APPLICATION MEETING MINUTES

- Currently under review – RAI Response time extension issued 9.15.2025
- Joint-Use Wet Pond 402A – outfalls to Wetland 1 West
- County needs to include all information regarding agreement with Developer in application.

Basin B (N of CBC, S of Turnpike Overpass)

- New Individual Permit
 - Proposed Onsite Wet Pond B - outfalls to Wetland 1 West
 - Upgrade exist triple 72" CD to CBC
 - Wetland Impacts & Floodplain Compensation
 - Planning to submit Permit App next month

Basin C (Turnpike Overpass)

- No proposed drainage changes/No permits anticipated
- Previous Permit 48-01443-P: Turnpike (SR 91) Widening
 - App 160425-20: Included Orange Ave Bridge Replacement (2016)

Basin D (N of Turnpike Overpass)

- New sidewalk will drain towards exist. Wet Pond 300 (exempt). New side drain below proposed sidewalk from exist. onsite ditch to exist. Wet Pond 300.
- No permits anticipated
 - Cite rule and why this portion is exempt in project documentation. Make sure there are no wetland/floodplain impacts.
- Previous Permits 48-00947-P: Orange Ave Widening to the North
 - App 930430-3: Original Permit (1997)
 - App 010215-15: Revised Permit; Eliminated Pond 100 (2001)
 - App 071114-23: Ski School (2011, appears to have never been constructed)

FEMA Zone A

- RCA (Orange County BCC, December 2018)
 - Orange County 1' Contours
 - Permit 48-103992-P: Tupperware Heights
 - Referenced 1996 Mill Slough/Shingle Creek Study
 - Wetland G (aka Wetland 1 West) BFE = 83.31' (NGVD29) = 82.37' (NAVD88)
 - Wetland C (aka Wetland 1 East) BFE = 82.20' (NGVD29) = 81.26' (NAVD88)
 - Permit 49-02327-P: Central Florida Rail
 - App 150120-12 (2015)
 - BFE for D/S Impacts to Same Zone A Floodplain Shape = 83.4' (NAVD88)
 - Approach to Modeling BFE
 - No available Watershed Models
 - Delineated U/S areas using SFWMD Lake Toho Basin shape
 - Stormwise model:
 - FDOT Regression Eqtns for U/S areas (peak flow w/ SF applied to dummy hydrographs)
 - Simple basins/Stage-Area for WL 1 West/WL 1 East
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ORANGE AVENUE WIDENING PROJECT

SFWMD PRE-APPLICATION MEETING MINUTES

- D/S TW = D/S Crown of Rail CBC (Permit 49-02327-P/App 150120-12)
- 100 Yr/72 Hr SFWMD storm event – max stage
- WMD ok with modeling approach but we need to check that this is consistent with FEMA's BFE modeling guidelines if we anticipate needing to do a LOMR/CLOMR later.
- Project does not include a regulated floodway.
- Floodplain impact vs FPC locations
 - Combination of onsite and offsite
 - Offsite at NE corner of OBT/Mary Louis Ln
 - Should always compensate as close to impact locations as possible, however, the project is constrained and there is limited available ROW adjacent to the project corridor. Will leave it up to EOR to demonstrate impacts are being properly offset.
 - Construct FPC prior to impacts
 - Must compensate for impacts on a cup-for-cup basis. Can provide compensation within a pond but pond must be hydraulically connected to floodplain.

Water Quality

- RCA (Orange County BCC, December 2018) – grandfathering provision for transportation projects
 - WMD/FDEP are evaluating a similar situation for the County's Avalon Rd project. Once a determination has been made on the Avalon Rd project, it is likely that the same will apply to Orange Ave. We should follow up with Mr. Qadir regarding outcome of Avalon Rd determination.
 - Presumptive criteria for Wet Detention: Greater of 1" over Basin or 2.5" over Added Impervious
 - SFWMD ERP Applicant's Handbook, Volume II, Section 4.2.1
 - Project is within Lake Okeechobee BMAP – will need to provide pollutant loading analysis for TP.
- Will not need to do 50% Additional (WBID 3173D WNAS – Study Area for potential DO impairment)
 - SFWMD does not regulate the WNAS/Study Area list so additional water quality volume is not required if WBID is not impaired.
- Bike lanes & SW
 - Need to address added impervious.
- 6" SHW reduction
 - Pond orifice can be set at the Average Wet Water Table Elevation (established by Geotech; typically lower than the SHW elevation).

Water Quantity

- 25 Yr/72 Hr SFWMD storm event - Pre vs Post Q
 - SFWMD ERP Applicant's Handbook, Volume II, Section 3.3
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ORANGE AVENUE WIDENING PROJECT

SFWMD PRE-APPLICATION MEETING MINUTES

Environmental

- Wetland 1 Mitigation
 - Conservation Easement
 - Not going beyond ROW
 - No issues anticipated with regulatory easements
 - Need to submit a fully executed Section A.
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