

POND SITING REPORT
APPENDIX B - APPENDIX E

Florida Department of Transportation
Florida's Turnpike Enterprise
Central Polk Parkway East PD&E Study
From US 17/92 to Poinciana Connector (SR 538)

Polk County, Florida

Financial Management Number: 451419-1

ETDM Number: 14524

October 2025



Appendix B: Pond Sizing Calculations

DRAFT



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 100

Treatment Volume Required for Additional Impervious Area: 1.86 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 1.86 acre-ft

Attenuation Volume Required for Additional Impervious Area: 2.03 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 2.03 acre-ft

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN100	Pre-Development Condition	Post Development Condition
Total Area, acre	22.34	22.34
Impervious Area, ac	5.37	19.23
CN	87.1	96.3
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	1.48	0.38
Runoff Depth (Q), in	6.16	7.25
Runoff Volume, acre-ft	11.47	13.50
Volume Differential, acre-ft		2.03
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		1.86
Total Volume Required, acre-ft		3.89

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN100

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	3.70 ac	A	77	284.90	Streets and Roads, Paved with open ditches
Pervious Area	2.24 ac	B	98	219.52	Streets and Roads, Paved with curbs and storm sewers
Pervious Area	3.61 ac	A/D	83	299.63	Streets and Roads, Paved with open ditches
Pervious Area	7.42 ac	B/D	83	615.86	Wood or Forest, Thin stand
Impervious Area	5.37 ac		98	526.26	Roadway Pavement
Total Area	22.34 ac			1946.17	87.1 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	3.11 ac	B/D	86	267.46	*Newly graded area (no vegetation established)
Impervious Area	19.23 ac		98	1884.54	Roadway Pavement
Total Area	22.34 ac			2152.00	96.3 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 100 Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	108.00 *See Note 1
ELEV PROP EOP @ Low Point =	110.62 *See Note 2
Elev SHW =	107.50 *See Note 3
Treatment Volume Required	1.86 AC-FT.
Attenuation Volume Required	2.03 AC-FT.
Pond Area Based on treatment volume	2.86 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.65 FT.
Total Attenuation Depth based on Pond Area	0.7 FT.
Total Depth from SHWL to Top of Berm	2.36 FT.
Elev SHW	107.5 FT.
Top of Berm Elevation given a total depth	109.86 FT.
Unit Length Based on L/W = 2	500 FT.
Unit Width Based on L/W = 2	250 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	7 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	18.86 FT.
Total Pond Length (including maintenance berm and adjustments)	565.82 FT.
Total Pond Width (including maintenance berm and adjustments)	316 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.11 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	4.93 AC.
R/W Area Required (Includes whole parcel take where appropriate)	6.41 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1061+67.34
Low Proposed PGL = 111.82 FT.
ELEV EOP @ Low point = 110.62 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches

Using conservative value of 6 inches (0.5 ft)

Estimated SHW Elevation = 107.50 FT.



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Basin 100 Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	108.00 *See Note 1
ELEV PROP EOP @ Low Point =	110.62 *See Note 2
Elev SHW =	106.00 *See Note 3
Treatment Volume Required	1.86 AC-FT.
Attenuation Volume Required	2.03 AC-FT.
Pond Area Based on treatment volume	1.86 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	1.00 FT.
Total Attenuation Depth based on Pond Area	1.1 FT.
Total Depth from SHWL to Top of Berm	3.09 FT.
Elev SHW	106.0 FT.
Top of Berm Elevation given a total depth	109.09 FT.
Unit Length Based on L/W = 2	403 FT.
Unit Width Based on L/W = 2	201 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	4 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	24.71 FT.
Total Pond Length (including maintenance berm and adjustments)	471.80 FT.
Total Pond Width (including maintenance berm and adjustments)	270 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.93 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.98 AC.
R/W Area Required (Includes whole parcel take where appropriate)	5.04 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1061+67.34
Low Proposed PGL = 111.82 FT.
ELEV EOP @ Low point = 110.62 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
6-18 inches
Using conservative average of 24 inches (2 feet)

Estimated SHW Elevation = 106.00 FT.



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Basin 100 Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	108.00 *See Note 1
ELEV PROP EOP @ Low Point =	110.62 *See Note 2
Elev SHW =	106.70 *See Note 3
Treatment Volume Required	1.86 AC-FT.
Attenuation Volume Required	2.03 AC-FT.
Pond Area Based on treatment volume	2.19 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.85 FT.
Total Attenuation Depth based on Pond Area	0.9 FT.
Total Depth from SHWL to Top of Berm	2.78 FT.
Elev SHW	106.7 FT.
Top of Berm Elevation given a total depth	109.48 FT.
Unit Length Based on L/W = 2	437 FT.
Unit Width Based on L/W = 2	218 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	6 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	22.21 FT.
Total Pond Length (including maintenance berm and adjustments)	504.93 FT.
Total Pond Width (including maintenance berm and adjustments)	287 FT.
Preliminary Property Size Required to accommodate Pond Footprint	3.32 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	4.05 AC.
R/W Area Required (Includes whole parcel take where appropriate)	5.57 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1061+67.34
Low Proposed PGL = 111.82 FT.
ELEV EOP @ Low point = 110.62 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
6-18 inches
42-60 inches
Using conservative average of 16 inches (1.3 feet)

Estimated SHW Elevation = 106.7 FT.



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Total Volumetric Requirements for Basin 200A

Treatment Volume Required for Additional Impervious Area: 1.49 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 1.49 acre-ft

Attenuation Volume Required for Additional Impervious Area: 2.82 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 2.82 acre-ft

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Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN200A	Pre-Development Condition	Post Development Condition
Total Area, acre	14.73	17.91
Impervious Area, ac	1.29	16.68
CN	90.4	96.6
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	1.06	0.36
Runoff Depth (Q), in	6.55	7.28
Runoff Volume, acre-ft	8.04	10.86
Volume Differential, acre-ft		2.82
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		1.49
Total Volume Required, acre-ft		4.31

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension

Project Number : 446581-1-22-01

Date : 10/29/2025

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Checked by : RMG

Curve Number Calculations Basin BSN200A

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	10.71 ac	A	89	953.19	Commercial and Business Areas
Pervious Area	0.78 ac	A/D	89	69.42	Commercial and Business Areas
Pervious Area	1.48 ac	B/D	92	136.16	Commercial and Business Areas
Impervious Area	0.47 ac		100	47.00	Water
Impervious Area	1.29 ac		98	126.42	Roadway Pavement
Total Area	14.73 ac			1332.19	90.4 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	1.23 ac	A	77	94.71	*Newly graded area (no vegetation established)
Impervious Area	16.68 ac		98	1634.64	Roadway Pavement
Total Area	17.91 ac			1729.35	96.6 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



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Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 200A Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	112.00 *See Note 1
ELEV PROP EOP @ Low Point =	111.56 *See Note 2
Elev SHW =	108.50 *See Note 3
Treatment Volume Required	1.49 AC-FT.
Attenuation Volume Required	2.82 AC-FT.
Pond Area Based on treatment volume	2.30 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.65 FT.
Total Attenuation Depth based on Pond Area	1.2 FT.
Total Depth from SHWL to Top of Berm	2.88 FT.
Elev SHW	108.5 FT.
Top of Berm Elevation given a total depth	111.38 FT.
Unit Length Based on L/W = 2	447 FT.
Unit Width Based on L/W = 2	224 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	23.02 FT.
Total Pond Length (including maintenance berm and adjustments)	512.77 FT.
Total Pond Width (including maintenance berm and adjustments)	289.14 FT.
Preliminary Property Size Required to accommodate Pond Footprint	3.40 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.74 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.05 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at STA 1091+20.65
Low Proposed PGL = 112.76 FT.
ELEV EOP @ Low point = 111.56 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
Using conservative value of 42 inches (3.5 feet)
Estimated SHW Elevation = 108.50 FT.



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Basin 200A Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	111.50 *See Note 1
ELEV PROP EOP @ Low Point =	111.56 *See Note 2
Elev SHW =	108.80 *See Note 3
Treatment Volume Required	1.49 AC-FT.
Attenuation Volume Required	2.82 AC-FT.
Pond Area Based on treatment volume	2.49 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.60 FT.
Total Attenuation Depth based on Pond Area	1.1 FT.
Total Depth from SHWL to Top of Berm	2.73 FT.
Elev SHW	108.8 FT.
Top of Berm Elevation given a total depth	111.53 FT.
Unit Length Based on L/W = 2	466 FT.
Unit Width Based on L/W = 2	233 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	0 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	21.87 FT.
Total Pond Length (including maintenance berm and adjustments)	527.52 FT.
Total Pond Width (including maintenance berm and adjustments)	294.76 FT.
Preliminary Property Size Required to accommodate Pond Footprint	3.57 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.93 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.11 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at STA 1091+20.65
Low Proposed PGL = 112.76 FT.
ELEV EOP @ Low point = 111.56 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
6-18 inches
42-60 inches
>80 inches
Using average conservative value of 32 inches (2.7 feet)

Estimated SHW Elevation = 108.80 FT.



Project Name: CPP from US 17-92 to SR 532
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Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 200A Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	110.00 *See Note 1
ELEV PROP EOP @ Low Point =	111.56 *See Note 2
Elev SHW =	108.00 *See Note 3
Treatment Volume Required	1.49 AC-FT.
Attenuation Volume Required	2.82 AC-FT.
Pond Area Based on treatment volume	2.13 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.70 FT.
Total Attenuation Depth based on Pond Area	1.3 FT.
Total Depth from SHWL to Top of Berm	3.02 FT.
Elev SHW	108.0 FT.
Top of Berm Elevation given a total depth	111.02 FT.
Unit Length Based on L/W = 2	431 FT.
Unit Width Based on L/W = 2	215 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	4 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	24.18 FT.
Total Pond Length (including maintenance berm and adjustments)	499.26 FT.
Total Pond Width (including maintenance berm and adjustments)	283.76 FT.
Preliminary Property Size Required to accommodate Pond Footprint	3.25 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.89 AC.
R/W Area Required (Includes whole parcel take where appropriate)	5.00 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at STA 1091+20.65
Low Proposed PGL = 112.76 FT.
ELEV EOP @ Low point = 111.56 FT.

3) SHW estimated from NRCS soils report

Estimated SHW Elevation = 108.0 FT.
Depth to water table = 50% of area 6-18 inches
50% of area 42-60 inches
Using average conservative value of 24 inches (2 feet)



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Total Volumetric Requirements for Basin 200B

Treatment Volume Required for Additional Impervious Area: 0.00 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.00 acre-ft

Attenuation Volume Required for Additional Impervious Area: 0.00 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 0.00 acre-ft

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Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN200B	Pre-Development Condition	Post Development Condition
Total Area, acre	10.35	3.68
Impervious Area, ac	2.73	3.68
CN	91.6	98.0
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	0.91	0.20
Runoff Depth (Q), in	6.69	7.45
Runoff Volume, acre-ft	5.77	2.28
Volume Differential, acre-ft		0.00
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.00
Total Volume Required, acre-ft		0.00

*Wet Detention

Post development impervious area less than Pre development impervious area, no treatment or attenuation required.

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension

Project Number : 446581-1-22-01

Date : 10/29/2025

Designed by : BC

Checked by : RMG

Curve Number Calculations Basin BSN200B

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	7.29 ac	A	89	648.81	Commercial and Business Areas
Pervious Area	0.10 ac	A/D	89	8.90	Commercial and Business Areas
Pervious Area	0.00 ac	B/D	92	0.00	Commercial and Business Areas
Impervious Area	0.23 ac		100	23.00	Water
Impervious Area	2.73 ac		98	267.54	Roadway Pavement
Total Area	10.35 ac			948.25	91.6 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.00 ac	A	77	0.00	*Newly graded area (no vegetation established)
Impervious Area	3.68 ac		98	360.64	Roadway Pavement
Total Area	3.68 ac			360.64	98.0 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



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Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 300

Treatment Volume Required for Additional Impervious Area: 0.39 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.39 acre-ft

Attenuation Volume Required for Additional Impervious Area: 2.94 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 2.94 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN300	Pre-Development Condition	Post Development Condition
Total Area, acre	7.43	9.42
Impervious Area, ac	0.00	8.88
CN	91.9	96.8
Attenuation Volume-100yr10Day		
Precipitation, in	15.80	15.80
Potential Maximum Retention (S)	0.88	0.33
Runoff Depth (Q), in	14.79	15.41
Runoff Volume, acre-ft	9.15	12.10
Volume Differential, acre-ft		2.94
Treatment Volume*		
0.5-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.39
Total Volume Required, acre-ft		3.33

*Dry Retention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
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Curve Number Calculations Basin BSN300

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	5.49 ac	A	89	488.61	Commercial and Business Areas
Impervious Area	1.94 ac		100	194.00	Water
Impervious Area	0.00 ac		98	0.00	Roadway Pavement
Total Area	7.43 ac			682.61	91.9 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.54 ac	A	77	41.58	*Newly graded area (no vegetation established)
Impervious Area	8.88 ac		98	870.24	Roadway Pavement
Total Area	9.42 ac			911.82	96.8 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.
This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



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Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 300 Pond Alternative A

Sizing Calculations

Dry Retention

Existing Ground at Pond site =	115.00	*See Note 1
ELEV EOP @ Low Point =	126.25	*See Note 2
Pond Bottom =	111.00	
Elev SHW =	109.00	*See Note 3
Treatment Volume Required	0.39	AC-FT.
Attenuation Volume Required	2.94	AC-FT.
Pond Area Based on treatment volume	0.98	AC
Assume 1 foot of pond freeboard	1.00	FT.
Treatment Depth	0.40	FT.
Total Attenuation Depth based on Pond Area	3.0	FT.
Total Depth from Pond Bottom to Top of Berm	4.40	FT.
Pond Bottom	111.0	FT.
Top of Berm Elevation given a total depth	115.40	FT.
Unit Length Based on L/W = 2	292	FT.
Unit Width Based on L/W = 2	146	FT.
Maintenance Berm Width of 20-ft	40	FT.
Grade Adjustment Width Assumed 1:2	2	FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	35.18	FT.
Total Pond Length (including maintenance berm and adjustments)	369.16	FT.
Total Pond Width (including maintenance berm and adjustments)	222.97	FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.89	AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.08	AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.78	AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1135+86.15
Low Proposed PGL = 127.45 FT.
ELEV EOP @ Low point = 126.25 FT.

3) SHW estimated from NRCS soils report

Depth to water table = >80 inches

Using conservative value of 6 feet

Estimated SHW Elevation = 109.00 FT.



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Basin 300 Pond Alternative B

Sizing Calculations

Dry Retention

Existing Ground at Pond site =	126.00 *See Note 1
ELEV EOP @ Low Point =	126.25 *See Note 2
Pond Bottom =	123.00
Elev SHW =	120.00 *See Note 3
Treatment Volume Required	0.39 AC-FT.
Attenuation Volume Required	2.94 AC-FT.
Pond Area Based on treatment volume	1.31 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.30 FT.
Total Attenuation Depth based on Pond Area	2.2 FT.
Total Depth from Pond Bottom to Top of Berm	3.55 FT.
Pond Bottom	123.0 FT.
Top of Berm Elevation given a total depth	126.55 FT.
Unit Length Based on L/W = 2	338 FT.
Unit Width Based on L/W = 2	169 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	28.39 FT.
Total Pond Length (including maintenance berm and adjustments)	408.19 FT.
Total Pond Width (including maintenance berm and adjustments)	239.39 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.24 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.80 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.61 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1119+82.05
Low Proposed PGL = 127.45 FT.
ELEV EOP @ Low point = 126.25 FT.

3) SHW estimated from NRCS soils report

Depth to water table = >80 inches

Using conservative value of 6 feet

Estimated SHW Elevation = 120.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 300 Pond Alternative C

Sizing Calculations

Dry Retention

Existing Ground at Pond site =	122.00 *See Note 1
ELEV EOP @ Low Point =	126.25 *See Note 2
Pond Bottom =	119.00
Elev SHW =	116.00 *See Note 3
Treatment Volume Required	0.39 AC-FT.
Attenuation Volume Required	2.94 AC-FT.
Pond Area Based on treatment volume	1.31 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.30 FT.
Total Attenuation Depth based on Pond Area	2.2 FT.
Total Depth from Pond Bottom to Top of Berm	3.55 FT.
Pond Bottom	119.0 FT.
Top of Berm Elevation given a total depth	122.55 FT.
Unit Length Based on L/W = 2	338 FT.
Unit Width Based on L/W = 2	169 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	28.39 FT.
Total Pond Length (including maintenance berm and adjustments)	408.19 FT.
Total Pond Width (including maintenance berm and adjustments)	239.39 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.24 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.87 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.79 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1135+86.15
Low Proposed PGL = 127.45 FT.
ELEV EOP @ Low point = 126.25 FT.

3) SHW estimated from NRCS soils report

Depth to water table = >80 inches

Using conservative value of 6 feet

Estimated SHW Elevation = 116.00 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 350A

Treatment Volume Required for Additional Impervious Area: 0.51 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.51 acre-ft

Attenuation Volume Required for Additional Impervious Area: 1.62 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 1.62 acre-ft

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN350A	Pre-Development Condition	Post Development Condition
Total Area, acre	5.38	6.16
Impervious Area, ac	2.44	5.06
CN	71.8	94.3
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	3.93	0.61
Runoff Depth (Q), in	4.40	7.00
Runoff Volume, acre-ft	1.97	3.60
Volume Differential, acre-ft		1.62
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.51
Total Volume Required, acre-ft		2.13

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN350A

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	2.85 ac	A	49	139.65	Open spaces, Fair condition
Pervious Area	0.09 ac	A/D	84	7.56	Open spaces, Fair condition (D)
Impervious Area	2.44 ac		98	239.12	Roadway Pavement
Total Area	5.38 ac			386.33	71.8 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	1.10 ac	A/D	77	84.70	*Newly graded area (no vegetation established) (A)
Impervious Area	5.06 ac		98	495.88	Roadway Pavement
Total Area	6.16 ac			580.58	94.3 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.
This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350A Alternative A

Sizing Calculations

Existing Ground at Pond site =	116.00 *See Note 1
ELEV EXST EOP @ Low Point =	116.01 *See Note 2
Elev SHW =	112.40 *See Note 3
Treatment Volume Required	0.51 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	1.14 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.45 FT.
Total Attenuation Depth based on Pond Area	1.4 FT.
Total Depth from SHWL to Top of Berm	2.87 FT.
Elev SHW	112.4 FT.
Top of Berm Elevation given a total depth	115.27 FT.
Unit Length Based on L/W = 2	315 FT.
Unit Width Based on L/W = 2	158 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	3 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	22.97 FT.
Total Pond Length (including maintenance berm and adjustments)	381.13 FT.
Total Pond Width (including maintenance berm and adjustments)	223.51 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.96 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.32 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.13 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 65+00.00
Low Proposed PGL = 116.85 FT.
ELEV EOP @ Low point = 116.01 FT.

3) SHW estimated from NRCS soils report

Depth to water table = > 80 inches
6-18 inches
Using conservative average value of 43 inches (3.6) feet

Estimated SHW Elevation = 112.40 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350A Alternative B

Sizing Calculations

Existing Ground at Pond site =	115.00 *See Note 1
ELEV EXST EOP @ Low Point =	116.01 *See Note 2
Elev SHW =	111.40 *See Note 3
Treatment Volume Required	0.51 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	0.79 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.65 FT.
Total Attenuation Depth based on Pond Area	2.1 FT.
Total Depth from SHWL to Top of Berm	3.70 FT.
Elev SHW	111.4 FT.
Top of Berm Elevation given a total depth	115.10 FT.
Unit Length Based on L/W = 2	262 FT.
Unit Width Based on L/W = 2	131 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	0 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	29.63 FT.
Total Pond Length (including maintenance berm and adjustments)	332.34 FT.
Total Pond Width (including maintenance berm and adjustments)	201.19 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.53 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.85 AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.54 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 65+00.00
Low Proposed PGL = 116.85 FT.
ELEV EOP @ Low point = 116.01 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
Using conservative value of 0.5 feet

Estimated SHW Elevation = 111.40 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350A Alternative C

Sizing Calculations

Existing Ground at Pond site =	115.00 *See Note 1
ELEV EXST EOP @ Low Point =	116.01 *See Note 2
Elev SHW =	111.40 *See Note 3
Treatment Volume Required	0.51 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	0.93 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.55 FT.
Total Attenuation Depth based on Pond Area	1.7 FT.
Total Depth from SHWL to Top of Berm	3.29 FT.
Elev SHW	111.4 FT.
Top of Berm Elevation given a total depth	114.69 FT.
Unit Length Based on L/W = 2	285 FT.
Unit Width Based on L/W = 2	143 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	1 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	26.30 FT.
Total Pond Length (including maintenance berm and adjustments)	352.70 FT.
Total Pond Width (including maintenance berm and adjustments)	210.13 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.70 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.05 AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.65 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 65+00.00
Low Proposed PGL = 116.85 FT.
ELEV EOP @ Low point = 116.01 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
>80 inches
Using conservative average value of 3.6 feet

Estimated SHW Elevation = 111.40 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 350B

Treatment Volume Required for Additional Impervious Area: 0.81 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.81 acre-ft

Attenuation Volume Required for Additional Impervious Area: 1.21 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 1.21 acre-ft

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN350B	Pre-Development Condition	Post Development Condition
Total Area, acre	9.68	9.69
Impervious Area, ac	2.78	5.57
CN	76.2	89.1
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	3.12	1.23
Runoff Depth (Q), in	4.90	6.39
Runoff Volume, acre-ft	3.95	5.16
Volume Differential, acre-ft		1.21
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.81
Total Volume Required, acre-ft		2.02

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN350B

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	3.27 ac	A	49	160.23	Open spaces, Fair condition
Pervious Area	3.63 ac	A/D	84	304.92	Open spaces, Fair condition (D)
Impervious Area	2.78 ac		98	272.44	Roadway Pavement
Total Area	9.68 ac			737.59	76.2 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	4.12 ac	A/D	77	317.24	*Newly graded area (no vegetation established) (A)
Impervious Area	5.57 ac		98	545.86	Roadway Pavement
Total Area	9.69 ac			863.10	89.1 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350B Alternative A

Sizing Calculations

Existing Ground at Pond site =	115.00 *See Note 1
ELEV EXST EOP @ Low Point =	111.22 *See Note 2
Elev SHW =	109.00 *See Note 3
Treatment Volume Required	0.81 AC-FT.
Attenuation Volume Required	1.21 AC-FT.
Pond Area Based on treatment volume	1.79 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.45 FT.
Total Attenuation Depth based on Pond Area	0.7 FT.
Total Depth from SHWL to Top of Berm	2.12 FT.
Elev SHW	109.0 FT.
Top of Berm Elevation given a total depth	111.12 FT.
Unit Length Based on L/W = 2	395 FT.
Unit Width Based on L/W = 2	198 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	16 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	16.99 FT.
Total Pond Length (including maintenance berm and adjustments)	467.88 FT.
Total Pond Width (including maintenance berm and adjustments)	270.19 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.90 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.22 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.04 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 95+00.00
Low Proposed PGL = 112.06 FT.
ELEV EOP @ Low point = 111.22 FT.

3) SHW estimated from NRCS soils report

Depth to water table = > 80 inches
Using conservative value of 6 feet

Estimated SHW Elevation = 109.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350B Alternative B

Sizing Calculations

Existing Ground at Pond site =	115.00 *See Note 1
ELEV EXST EOP @ Low Point =	111.22 *See Note 2
Elev SHW =	109.00 *See Note 3
Treatment Volume Required	0.81 AC-FT.
Attenuation Volume Required	1.21 AC-FT.
Pond Area Based on treatment volume	1.79 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.45 FT.
Total Attenuation Depth based on Pond Area	0.7 FT.
Total Depth from SHWL to Top of Berm	2.12 FT.
Elev SHW	109.0 FT.
Top of Berm Elevation given a total depth	111.12 FT.
Unit Length Based on L/W = 2	395 FT.
Unit Width Based on L/W = 2	198 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	16 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	16.99 FT.
Total Pond Length (including maintenance berm and adjustments)	467.88 FT.
Total Pond Width (including maintenance berm and adjustments)	270.19 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.90 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.19 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.15 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 95+00.00
Low Proposed PGL = 112.06 FT.
ELEV EOP @ Low point = 111.22 FT.

3) SHW estimated from NRCS soils report

Depth to water table = > 80 inches
6-18 inches
Using conservative average value of 43 inches (3.6) feet

Estimated SHW Elevation = 109.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 350B Alternative C

Sizing Calculations

Existing Ground at Pond site =	113.00 *See Note 1
ELEV EXST EOP @ Low Point =	111.22 *See Note 2
Elev SHW =	109.40 *See Note 3
Treatment Volume Required	0.81 AC-FT.
Attenuation Volume Required	1.21 AC-FT.
Pond Area Based on treatment volume	1.79 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.45 FT.
Total Attenuation Depth based on Pond Area	0.7 FT.
Total Depth from SHWL to Top of Berm	2.12 FT.
Elev SHW=	109.4 FT.
Top of Berm Elevation given a total depth	111.52 FT.
Unit Length Based on L/W = 2	395 FT.
Unit Width Based on L/W = 2	198 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	6 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	16.99 FT.
Total Pond Length (including maintenance berm and adjustments)	458.28 FT.
Total Pond Width (including maintenance berm and adjustments)	260.59 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.74 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.02 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.96 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 95+00.00
Low Proposed PGL = 112.06 FT.
ELEV EOP @ Low point = 111.22 FT.

3) SHW estimated from NRCS soils report

Depth to water table = > 80 inches
6-18 inches
Using conservative average value of 43 inches (3.6) feet

Estimated SHW Elevation = 109.40 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 400A

Treatment Volume Required for Additional Impervious Area: 0.33 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.33 acre-ft

Attenuation Volume Required for Additional Impervious Area: 4.72 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 4.72 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN400A	Pre-Development Condition	Post Development Condition
Total Area, acre	7.29	7.93
Impervious Area, ac	1.25	7.93
CN	56.0	98.0
Attenuation Volume-100yr10Day		
Precipitation, in	15.80	15.80
Potential Maximum Retention (S)	7.87	0.20
Runoff Depth (Q), in	9.16	15.56
Runoff Volume, acre-ft	5.56	10.28
Volume Differential, acre-ft		4.72
Treatment Volume*		
0.5-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.33
Total Volume Required, acre-ft		5.05

*Dry Retention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN400A

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	5.83 ac	A	45	262.35	Wood or Forest Land, Thin stand
Impervious Area	0.21 ac		98	20.58	Roadway Pavement
Impervious Area	1.25 ac		100	125.00	Water
Total Area	7.29 ac			407.93	56.0 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.00 ac	A	77	0.00	*Newly graded area (no vegetation established)
Impervious Area	7.93 ac		98	777.14	Roadway Pavement
Total Area	7.93 ac			777.14	98.0 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400A Alternative A

Sizing Calculations

Existing borrow pit

Existing Ground at Pond site = 107.70 *See Note 1
ELEV EOP @ Low Point = 113.00 *See Note 2
Estimated Surface Water Elevation = 106.85 *See Note 3

Treatment Volume Required 0.33 AC-FT.
Attenuation Volume Required 4.72 AC-FT.
Pond Area Based on treatment volume 0.39 AC
Assume 1 foot of pond freeboard 0.00 FT.

Area of borrow pit water surface

20.26 AC
Total volume required 5.05 AC-FT.
Required Storage Depth 0.25 FT.

Available Storage Depth 0.85 FT.
Available Freeboard 0.60 FT.
Total Attenuation Depth based on Pond Area 12.1 FT.
Total Depth from SHWL to Top of Berm 12.98 FT.
Horizontal Distance Based on a 1:4 Slope from SHWL to TOB 3.40 FT.
Maintenance Berm Width of 20-ft 20 FT.

Preliminary Property Size Required to accommodate Pond Footprint (includes 20' maintenance berm) 22.57 AC.
R/W Area Required (Includes whole parcel take where appropriate) 22.57 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1160+14.72
Low EOP = $24' \times 0.02 + 12' \times 0.06 = 1.2$ FT.
ELEV EOP @ Low point = 113.00 FT.

3) Water Elevation of Existing Borrow Pit



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400A Alternative B

Sizing Calculations

Dry Retention

Existing Ground at Pond site =	114.00 *See Note 1
ELEV EOP @ Low Point =	113.00 *See Note 2
Pond Bottom =	108.50
Elev SHW =	108.00 *See Note 3
Treatment Volume Required	0.33 AC-FT.
Attenuation Volume Required	4.72 AC-FT.
Pond Area Based on treatment volume	1.65 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.20 FT.
Total Attenuation Depth based on Pond Area	2.9 FT.
Total Depth from SHWL to Top of Berm	4.06 FT.
Elev SHW	108.5 FT.
Top of Berm Elevation given a total depth	112.56 FT.
Unit Length Based on L/W = 2	379 FT.
Unit Width Based on L/W = 2	190 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	6 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	32.44 FT.
Total Pond Length (including maintenance berm and adjustments)	457.60 FT.
Total Pond Width (including maintenance berm and adjustments)	268 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.81 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.10 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.01 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1160+14.72
Low Proposed PGL = 114.20 FT.
ELEV EOP @ Low point = 113.00 FT.

3) SHW estimated from NRCS soils report

Depth to water table = >80 inches
6-18 inches
Using conservative average of 42 inches (3.6 feet)

Estimated SHW Elevation = 108.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400A Alternative C**Sizing Calculations****Dry Retention**

Existing Ground at Pond site =	114.00 *See Note 1
ELEV EOP @ Low Point =	113.00 *See Note 2
Pond Bottom =	108.00
Elev SHW =	108.00 *See Note 3
Treatment Volume Required	0.33 AC-FT.
Attenuation Volume Required	4.72 AC-FT.
Pond Area Based on treatment volume	1.32 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.25 FT.
Total Attenuation Depth based on Pond Area	3.6 FT.
Total Depth from SHWL to Top of Berm	4.82 FT.
Elev SHW	108.0 FT.
Top of Berm Elevation given a total depth	112.82 FT.
Unit Length Based on L/W = 2	339 FT.
Unit Width Based on L/W = 2	170 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	5 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	38.55 FT.
Total Pond Length (including maintenance berm and adjustments)	422.60 FT.
Total Pond Width (including maintenance berm and adjustments)	252.94 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.45 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.70 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.05 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1160+14.72
Low Proposed PGL = 114.20 FT.
ELEV EOP @ Low point = 113.00 FT.

3) SHW estimated from NRCS soils report

Depth to water table = >80 inches

Using conservative value of 6 feet

Estimated SHW Elevation = 108.00 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 400B

Treatment Volume Required for Additional Impervious Area: 0.76 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.76 acre-ft

Attenuation Volume Required for Additional Impervious Area: 0.00 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 0.00 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN400B	Pre-Development Condition	Post Development Condition
Total Area, acre	25.75	9.12
Impervious Area, ac	0.06	4.32
CN	75.6	86.9
Attenuation Volume-25yr24hr		
Precipitation	7.69	7.69
Potential Maximum Retention (S)	3.22	1.50
Runoff Depth (Q), in	4.83	6.14
Runoff Volume, acre-ft	10.37	4.67
Volume Differential, acre-ft		0.00
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.76
Total Volume Required, acre-ft		0.76

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN400B

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	3.51 ac	A	45	157.95	Wood or Forest Land, Thin stand
Pervious Area	3.60 ac	A	98	352.80	Paved Parking Lots, Roofs, Driveways
Pervious Area	18.58 ac	A/D	77	1430.66	Wood or Forest Land, Good cover (D)
Impervious Area	0.06 ac		98	5.88	Roadway Pavement
Total Area	25.75 ac			1947.29	75.6 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	4.80 ac	A	77	369.60	*Newly graded area (no vegetation established)
Impervious Area	4.32 ac		98	423.36	Roadway Pavement
Total Area	9.12 ac			792.96	86.9 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400B Alternative A

Sizing Calculations

Existing Ground at Pond site =	109.25 *See Note 1
ELEV EOP @ Low Point =	113.28 *See Note 2
Elev SHW =	108.75 *See Note 3
Treatment Volume Required	0.76 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	1.52 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.50 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.50 FT.
Elev SHW=	108.75 FT.
Top of Berm Elevation given a total depth =	110.25 FT.
Unit Length Based on L/W = 2	364 FT.
Unit Width Based on L/W = 2	182 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	4 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	12.00 FT.
Total Pond Length (including maintenance berm and adjustments)	419.90 FT.
Total Pond Width (including maintenance berm and adjustments)	237.95 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.29 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.82 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.58 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1162+23.45
Low Proposed PGL = 114.48 FT.
ELEV EOP @ Low point = 113.28 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
Using conservative value of 0.5 feet

Estimated SHW Elevation = 108.75 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400B Alternative B

Sizing Calculations

Existing Ground at Pond site =	108.00 *See Note 1
ELEV EOP @ Low Point =	113.28 *See Note 2
Elev SHW =	108.75 *See Note 3
Treatment Volume Required	0.76 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	1.38 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.55 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.55 FT.
Elev SHW=	108.75 FT.
Top of Berm Elevation given a total depth =	110.30 FT.
Unit Length Based on L/W = 2	347 FT.
Unit Width Based on L/W = 2	173 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	9 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	12.40 FT.
Total Pond Length (including maintenance berm and adjustments)	408.56 FT.
Total Pond Width (including maintenance berm and adjustments)	235.08 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.20 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.56 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.25 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1162+23.45
Low Proposed PGL = 114.48 FT.
ELEV EOP @ Low point = 113.28 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
Using conservative value of 0.5 feet

Estimated SHW Elevation = 107.50 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 400B Alternative C

Sizing Calculations

Existing Ground at Pond site =	109.25 *See Note 1
ELEV EOP @ Low Point =	113.28 *See Note 2
Elev SHW =	108.75 *See Note 3
Treatment Volume Required	0.76 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	1.69 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.45 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.45 FT.
Elev SHW=	108.75 FT.
Top of Berm Elevation given a total depth =	110.20 FT.
Unit Length Based on L/W = 2	384 FT.
Unit Width Based on L/W = 2	192 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	4 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	11.60 FT.
Total Pond Length (including maintenance berm and adjustments)	438.98 FT.
Total Pond Width (including maintenance berm and adjustments)	247.19 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.49 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.89 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.36 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1162+23.45
Low Proposed PGL = 114.48 FT.
ELEV EOP @ Low point = 113.28 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
Using conservative value of 0.5 feet

Estimated SHW Elevation = 108.75 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 450

Treatment Volume Required for Additional Impervious Area: 0.60 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.60 acre-ft

Attenuation Volume Required for Additional Impervious Area: 0.00 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 0.00 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN450	Pre-Development Condition	Post Development Condition
Total Area, acre	0.00	7.25
Impervious Area, ac	0.00	2.68
CN	0.0	84.8
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	0.00	1.80
Runoff Depth (Q), in	0.00	5.89
Runoff Volume, acre-ft	0.00	3.56
Volume Differential, acre-ft		0.00
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.60
Total Volume Required, acre-ft		0.60

***Wet Detention**

Basin 450 Pre-development Treatment and Attenuation are included in Basin 400B calculations.

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN450

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.00 ac	A	49	0.00	Open spaces, Fair condition
Pervious Area	0.00 ac	A	98	0.00	Paved Parking Lots, Roofs, Driveways
Pervious Area	0.00 ac	A/D	84	0.00	Open spaces, Fair condition (D)
Impervious Area	0.00 ac		98	0.00	Roadway Pavement
Total Area	0.00 ac			0.00	0.0 = Weighted CN

*See Note (1)

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	4.57 ac	A/D	77	351.89	*Newly graded area (no vegetation established) (A)
Impervious Area	2.68 ac		98	262.64	Roadway Pavement
Total Area	7.25 ac			614.53	84.8 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed

(1) Basin 450 Pre-development weighted CN is included in Basin 400B calculations.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 450 Alternative A

Sizing Calculations

Existing Ground at Pond site =	108.00 *See Note 1
ELEV EOP @ Low Point =	110.52 *See Note 2
Elev SHW =	108.00 *See Note 3
Treatment Volume Required	0.60 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	0.93 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.65 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.65 FT.
Elev SHW	108.0 FT.
Top of Berm Elevation given a total depth	109.65 FT.
Unit Length Based on L/W = 2	285 FT.
Unit Width Based on L/W = 2	142 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	7 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	13.20 FT.
Total Pond Length (including maintenance berm and adjustments)	344.36 FT.
Total Pond Width (including maintenance berm and adjustments)	202.08 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.60 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.92 AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.45 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 22+65.03
Low Proposed PGL = 111.12 FT.
ELEV EOP @ Low point = 110.52 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0 inches
Assuming 0 inches

Estimated SHW Elevation = 108.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 450 Alternative B

Sizing Calculations

Existing Ground at Pond site =	110.25 *See Note 1
ELEV EOP @ Low Point =	110.52 *See Note 2
Elev SHW =	108.25 *See Note 3
Treatment Volume Required	0.60 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	0.81 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.75 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.75 FT.
Elev SHW	108.25 FT.
Top of Berm Elevation given a total depth	110.00 FT.
Unit Length Based on L/W = 2	265 FT.
Unit Width Based on L/W = 2	132 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	1 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	14.00 FT.
Total Pond Length (including maintenance berm and adjustments)	319.92 FT.
Total Pond Width (including maintenance berm and adjustments)	187.4575 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.38 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.91 AC.
R/W Area Required (Includes whole parcel take where appropriate)	1.91 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 22+65.03
Low Proposed PGL = 111.12 FT.
ELEV EOP @ Low point = 110.52 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
42-60 inches
Using conservative average of 24 inches (2 feet)

Estimated SHW Elevation = 108.25 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 450 Alternative C

Sizing Calculations

Existing Ground at Pond site =	110.50 *See Note 1
ELEV EOP @ Low Point =	110.52 *See Note 2
Elev SHW =	108.5 *See Note 3
Treatment Volume Required	0.60 AC-FT.
Attenuation Volume Required	0.00 AC-FT.
Pond Area Based on treatment volume	0.76 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.80 FT.
Total Attenuation Depth based on Pond Area	0.0 FT.
Total Depth from SHWL to Top of Berm	1.80 FT.
Elev SHW	108.5 FT.
Top of Berm Elevation given a total depth	110.30 FT.
Unit Length Based on L/W = 2	257 FT.
Unit Width Based on L/W = 2	128 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	1 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	14.40 FT.
Total Pond Length (including maintenance berm and adjustments)	311.70 FT.
Total Pond Width (including maintenance berm and adjustments)	183.45 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.31 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.52 AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.10 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 22+65.03
Low Proposed PGL = 111.12 FT.
ELEV EOP @ Low point = 110.52 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
42-60 inches
Using conservative average of 24 inches (2 feet)

Estimated SHW Elevation = 108.50 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date : 10/29/2025

Total Volumetric Requirements for Basin 500

Treatment Volume Required for Additional Impervious Area: 2.05 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 2.05 acre-ft

Attenuation Volume Required for Additional Impervious Area: 6.17 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 6.17 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN500	Pre-Development Condition	Post Development Condition
Total Area, acre	25.45	24.63
Impervious Area, ac	0.00	14.17
CN	61.6	89.1
Attenuation Volume-25yr24hr		
Precipitation	7.69	7.69
Potential Maximum Retention (S)	6.23	1.23
Runoff Depth (Q), in	3.28	6.39
Runoff Volume, acre-ft	6.95	13.12
Volume Differential, acre-ft		6.17
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		2.05
Total Volume Required, acre-ft		8.22

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN500

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	14.32 ac	A	45	644.40	Wood or Forest Land, Thin stand
Pervious Area	11.13 ac	A/D	83	923.79	Wood or Forest Land, Thin stand (D)
Impervious Area	0.00 ac		98	0.00	Roadway Pavement
Total Area	25.45 ac			1568.19	61.6 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	10.46 ac	A	77	805.42	*Newly graded area (no vegetation established)
Impervious Area	14.17 ac		98	1388.66	Roadway Pavement
Total Area	24.63 ac			2194.08	89.1 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 500 Alternative A**Sizing Calculations**

Existing Ground at Pond site =	109.50 *See Note 1
ELEV EXST EOP @ Low Point =	111.63 *See Note 2
Elev SHW =	109.00 *See Note 3
Treatment Volume Required	2.05 AC-FT.
Attenuation Volume Required	6.17 AC-FT.
Pond Area Based on treatment volume	5.13 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.40 FT.
Total Attenuation Depth based on Pond Area	1.2 FT.
Total Depth from SHWL to Top of Berm	2.60 FT.
Elev SHW=	109.0 FT.
Top of Berm Elevation given a total depth =	111.60 FT.
Unit Length Based on L/W = 2	669 FT.
Unit Width Based on L/W = 2	334 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	8 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	20.82 FT.
Total Pond Length (including maintenance berm and adjustments)	737.84 FT.
Total Pond Width (including maintenance berm and adjustments)	403.53 FT.
Preliminary Property Size Required to accommodate Pond Footprint	6.84 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	7.62 AC.
R/W Area Required (Includes whole parcel take where appropriate)	8.50 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1196+56.05
Low Proposed PGL = 112.83 FT.
ELEV EOP @ Low point = 111.63 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
Using conservative value of 6 inches

Estimated SHW Elevation = 109.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 500 Alternative B

Sizing Calculations

Existing Ground at Pond site =	111.00 *See Note 1
ELEV EXST EOP @ Low Point =	111.63 *See Note 2
Elev SHW =	107.50 *See Note 3
Treatment Volume Required	2.05 AC-FT.
Attenuation Volume Required	6.17 AC-FT.
Pond Area Based on treatment volume	2.74 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.75 FT.
Total Attenuation Depth based on Pond Area	2.3 FT.
Total Depth from SHWL to Top of Berm	4.00 FT.
Elev SHW=	107.5 FT.
Top of Berm Elevation given a total depth =	111.50 FT.
Unit Length Based on L/W = 2	488 FT.
Unit Width Based on L/W = 2	244 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	32.04 FT.
Total Pond Length (including maintenance berm and adjustments)	562.34 FT.
Total Pond Width (including maintenance berm and adjustments)	318.20 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.11 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	4.81 AC.
R/W Area Required (Includes whole parcel take where appropriate)	5.76 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1196+56.05
Low Proposed PGL = 112.83 FT.
ELEV EOP @ Low point = 111.63 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
Using conservative value of 42 inches

Estimated SHW Elevation = 107.50 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 500 Alternative C

Sizing Calculations

Existing Ground at Pond site =	111.00 *See Note 1
ELEV EXST EOP @ Low Point =	111.63 *See Note 2
Elev SHW =	107.50 *See Note 3
Treatment Volume Required	2.05 AC-FT.
Attenuation Volume Required	6.17 AC-FT.
Pond Area Based on treatment volume	2.74 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.75 FT.
Total Attenuation Depth based on Pond Area	2.3 FT.
Total Depth from SHWL to Top of Berm	4.00 FT.
Elev SHW=	107.5 FT.
Top of Berm Elevation given a total depth =	111.50 FT.
Unit Length Based on L/W = 2	488 FT.
Unit Width Based on L/W = 2	244 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	32.04 FT.
Total Pond Length (including maintenance berm and adjustments)	562.34 FT.
Total Pond Width (including maintenance berm and adjustments)	318.20 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.11 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	4.69 AC.
R/W Area Required (Includes whole parcel take where appropriate)	5.48 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1196+56.05
Low Proposed PGL = 112.83 FT.
ELEV EOP @ Low point = 111.63 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 6-18 inches
>80 inches
Using conservative average value of 42 inches

Estimated SHW Elevation = 107.50 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 600

Treatment Volume Required for Additional Impervious Area: 2.13 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 2.13 acre-ft

Attenuation Volume Required for Additional Impervious Area: 7.63 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 7.63 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN600	Pre-Development Condition	Post Development Condition
Total Area, acre	15.33	25.61
Impervious Area, ac	0.00	16.58
CN	77.1	90.6
Attenuation Volume-25yr24hr		
Precipitation	7.69	7.69
Potential Maximum Retention (S)	2.97	1.04
Runoff Depth (Q), in	5.00	6.57
Runoff Volume, acre-ft	6.39	14.02
Volume Differential, acre-ft		7.63
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		2.13
Total Volume Required, acre-ft		9.77

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN600

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	2.30 ac	A	45	103.50	Wood or Forest Land, Thin stand
Pervious Area	12.52 ac	A/D	83	1039.16	Wood or Forest Land, Thin stand (D)
Pervious Area	0.51 ac	B/D	77	39.27	Wood or Forest Land, Good cover (D)
Impervious Area	0.00 ac		98	0.00	Roadway Pavement
Total Area	15.33 ac			1181.93	77.1 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	9.03 ac	A	77	695.31	*Newly graded area (no vegetation established)
Impervious Area	16.58 ac		98	1624.84	Roadway Pavement
Total Area	25.61 ac			2320.15	90.6 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 600 Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	107.00 *See Note 1
ELEV EXST EOP @ Low Point =	107.77 *See Note 2
Elev SHW =	105.00 *See Note 3
Treatment Volume Required	2.13 AC-FT.
Attenuation Volume Required	7.63 AC-FT.
Pond Area Based on treatment volume	5.34 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.40 FT.
Total Attenuation Depth based on Pond Area	1.4 FT.
Total Depth from SHWL to Top of Berm	2.83 FT.
Elev SHW	105.0 FT.
Top of Berm Elevation given a total depth	107.83 FT.
Unit Length Based on L/W = 2	682 FT.
Unit Width Based on L/W = 2	341 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	3 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	22.64 FT.
Total Pond Length (including maintenance berm and adjustments)	747.75 FT.
Total Pond Width (including maintenance berm and adjustments)	406.86 FT.
Preliminary Property Size Required to accommodate Pond Footprint	6.98 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	7.71 AC.
R/W Area Required (Includes whole parcel take where appropriate)	8.73 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1247+91.01
Low Proposed PGL = 108.97 FT.
ELEV EOP @ Low point = 107.77 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
6-18 inches
Using conservative average of 24 inches (2 feet)

Estimated SHW Elevation = 105.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 600 Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	106.00 *See Note 1
ELEV EXST EOP @ Low Point =	107.77 *See Note 2
Elev SHW =	104.00 *See Note 3
Treatment Volume Required	2.13 AC-FT.
Attenuation Volume Required	7.63 AC-FT.
Pond Area Based on treatment volume	3.56 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.60 FT.
Total Attenuation Depth based on Pond Area	2.1 FT.
Total Depth from SHWL to Top of Berm	3.75 FT.
Elev SHW	104.0 FT.
Top of Berm Elevation given a total depth	107.75 FT.
Unit Length Based on L/W = 2	557 FT.
Unit Width Based on L/W = 2	278 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	7 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	29.97 FT.
Total Pond Length (including maintenance berm and adjustments)	633.62 FT.
Total Pond Width (including maintenance berm and adjustments)	355.29 FT.
Preliminary Property Size Required to accommodate Pond Footprint	5.17 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	5.92 AC.
R/W Area Required (Includes whole parcel take where appropriate)	6.68 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1247+91.01
Low Proposed PGL = 108.97 FT.
ELEV EOP @ Low point = 107.77 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
6-18 inches
Using conservative average of 24 inches (2 feet)
Estimated SHW Elevation = 104.00 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 600 Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	106.00 *See Note 1
ELEV EXST EOP @ Low Point =	107.77 *See Note 2
Elev SHW =	104.00 *See Note 3
Treatment Volume Required	2.13 AC-FT.
Attenuation Volume Required	7.63 AC-FT.
Pond Area Based on treatment volume	3.56 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.60 FT.
Total Attenuation Depth based on Pond Area	2.1 FT.
Total Depth from SHWL to Top of Berm	3.75 FT.
Elev SHW	104.0 FT.
Top of Berm Elevation given a total depth	107.75 FT.
Unit Length Based on L/W = 2	557 FT.
Unit Width Based on L/W = 2	278 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	7 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	29.97 FT.
Total Pond Length (including maintenance berm and adjustments)	633.62 FT.
Total Pond Width (including maintenance berm and adjustments)	355.29 FT.
Preliminary Property Size Required to accommodate Pond Footprint	5.17 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	5.68 AC.
R/W Area Required (Includes whole parcel take where appropriate)	6.75 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1247+91.01
Low Proposed PGL = 108.97 FT.
ELEV EOP @ Low point = 107.77 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 42-60 inches
6-18 inches
Using conservative average of 24 inches (2 feet)
Estimated SHW Elevation = 104.00 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date : 10/29/2025

Total Volumetric Requirements for Basin 700

Treatment Volume Required for Additional Impervious Area: 2.49 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 2.49 acre-ft

Attenuation Volume Required for Additional Impervious Area: 1.62 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 1.62 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN700	Pre-Development Condition	Post Development Condition
Total Area, acre	30.19	29.88
Impervious Area, ac	2.92	14.62
CN	81.2	87.3
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	2.31	1.46
Runoff Depth (Q), in	5.47	6.18
Runoff Volume, acre-ft	13.77	15.39
Volume Differential, acre-ft		1.62
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		2.49
Total Volume Required, acre-ft		4.11

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN700

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	2.57 ac	A	45	115.65	Wood or Forest Land, Thin stand
Pervious Area	0.71 ac	A	49	34.79	Open spaces, Fair cover
Pervious Area	23.99 ac	A/D	84	2015.16	Open spaces, Fair cover (D)
Impervious Area	2.92 ac		98	286.16	Roadway Pavement
Total Area	30.19 ac			2451.76	81.2 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	15.26 ac	A/D	77	1175.02	*Newly graded area (no vegetation established) (A)
Impervious Area	14.62 ac		98	1432.76	Roadway Pavement
Total Area	29.88 ac			2607.78	87.3 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 700 Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	94.00 *See Note 1
ELEV EOP @ Low Point =	96.32 *See Note 2
Elev SHW =	94.0 *See Note 3
Treatment Volume Required	2.49 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	3.11 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.80 FT.
Total Attenuation Depth based on Pond Area	0.5 FT.
Total Depth from SHWL to Top of Berm	2.32 FT.
Elev SHW	94.0 FT.
Top of Berm Elevation given a total depth	96.32 FT.
Unit Length Based on L/W = 2	521 FT.
Unit Width Based on L/W = 2	260 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	9 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	18.55 FT.
Total Pond Length (including maintenance berm and adjustments)	588.56 FT.
Total Pond Width (including maintenance berm and adjustments)	328.20 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.43 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	5.41 AC.
R/W Area Required (Includes whole parcel take where appropriate)	8.57 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1304+51.99
Low Proposed PGL = 97.52 FT.
ELEV EOP @ Low point = 96.32 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
Assuming 0 inches

Estimated SHW Elevation = 94.0 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 700 Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	92.00 *See Note 1
ELEV EOP @ Low Point =	96.32 *See Note 2
Elev SHW =	92.0 *See Note 3
Treatment Volume Required	2.49 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	3.11 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.80 FT.
Total Attenuation Depth based on Pond Area	0.5 FT.
Total Depth from SHWL to Top of Berm	2.32 FT.
Elev SHW	92.0 FT.
Top of Berm Elevation given a total depth	94.32 FT.
Unit Length Based on L/W = 2	521 FT.
Unit Width Based on L/W = 2	260 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	9 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	18.55 FT.
Total Pond Length (including maintenance berm and adjustments)	588.56 FT.
Total Pond Width (including maintenance berm and adjustments)	328.20 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.43 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	5.10 AC.
R/W Area Required (Includes whole parcel take where appropriate)	6.52 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1304+51.99
Low Proposed PGL = 97.52 FT.
ELEV EOP @ Low point = 96.32 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0 inches
Assuming 0 inches

Estimated SHW Elevation = 92.0 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 700 Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	92.00 *See Note 1
ELEV EOP @ Low Point =	96.32 *See Note 2
Elev SHW =	92.0 *See Note 3
Treatment Volume Required	2.49 AC-FT.
Attenuation Volume Required	1.62 AC-FT.
Pond Area Based on treatment volume	3.32 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.75 FT.
Total Attenuation Depth based on Pond Area	0.5 FT.
Total Depth from SHWL to Top of Berm	2.24 FT.
Elev SHW	92.0 FT.
Top of Berm Elevation given a total depth	94.24 FT.
Unit Length Based on L/W = 2	538 FT.
Unit Width Based on L/W = 2	269 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	9 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	17.89 FT.
Total Pond Length (including maintenance berm and adjustments)	604.65 FT.
Total Pond Width (including maintenance berm and adjustments)	335.74 FT.
Preliminary Property Size Required to accommodate Pond Footprint	4.66 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	5.20 AC.
R/W Area Required (Includes whole parcel take where appropriate)	7.33 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 1304+51.99
Low Proposed PGL = 97.52 FT.
ELEV EOP @ Low point = 96.32 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0 inches

Estimated SHW Elevation = 92.0 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 800A

Treatment Volume Required for Additional Impervious Area: 0.79 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.79 acre-ft

Attenuation Volume Required for Additional Impervious Area: 0.97 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 0.97 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN800A	Pre-Development Condition	Post Development Condition
Total Area, acre	9.22	9.53
Impervious Area, ac	0.19	7.02
CN	83.7	92.5
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	1.95	0.81
Runoff Depth (Q), in	5.76	6.79
Runoff Volume, acre-ft	4.43	5.39
Volume Differential, acre-ft		0.97
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.79
Total Volume Required, acre-ft		1.76

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN800A

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.18 ac	A	54	9.72	Residential, 1/2 acre lots
Pervious Area	8.85 ac	A/D	84	743.40	Open spaces, Fair condition (D)
Impervious Area	0.19 ac		98	18.62	Roadway Pavement
Total Area	9.22 ac			771.74	83.7 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	2.51 ac	A/D	77	193.27	*Newly graded area (no vegetation established) (A)
Impervious Area	7.02 ac		98	687.96	Roadway Pavement
Total Area	9.53 ac			881.23	92.5 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.
This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 800A Pond Alternative A1 and A2

Sizing Calculations

Existing Ground at Pond site =	86.00 *See Note 1
ELEV EXST EOP @ Low Point =	86.79 *See Note 2
Elev SHW =	84.50 *See Note 3
Treatment Volume Required	0.79 AC-FT.
Attenuation Volume Required	0.97 AC-FT.
Pond Area Based on treatment volume	1.99 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.40 FT.
Total Attenuation Depth based on Pond Area	0.5 FT.
Total Depth from SHWL to Top of Berm	1.89 FT.
Elev SHW	84.5 FT.
Top of Berm Elevation given a total depth	86.39 FT.
Unit Length Based on L/W = 2	416 FT.
Unit Width Based on L/W = 2	208 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	2 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	15.09 FT.
Total Pond Length (including maintenance berm and adjustments)	472.53 FT.
Total Pond Width (including maintenance berm and adjustments)	264.59 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.87 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.60 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.47 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 111+19.42
Low Proposed PGL = 87.99 FT.
ELEV EOP @ Low point = 86.79 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 18-42 inches
Using conservative value of 18 inches (1.5 ft)

Estimated SHW Elevation = 84.50 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 800A Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	77.00 *See Note 1
ELEV EXST EOP @ Low Point =	86.79 *See Note 2
Elev SHW =	75.60 *See Note 3
Treatment Volume Required	0.79 AC-FT.
Attenuation Volume Required	0.97 AC-FT.
Pond Area Based on treatment volume	0.53 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	1.50 FT.
Total Attenuation Depth based on Pond Area	1.8 FT.
Total Depth from SHWL to Top of Berm	4.32 FT.
Elev SHW	75.6 FT.
Top of Berm Elevation given a total depth	79.92 FT.
Unit Length Based on L/W = 2	215 FT.
Unit Width Based on L/W = 2	107 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	12 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	34.59 FT.
Total Pond Length (including maintenance berm and adjustments)	301.06 FT.
Total Pond Width (including maintenance berm and adjustments)	193.68 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.34 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.56 AC.
R/W Area Required (Includes whole parcel take where appropriate)	1.56 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 111+19.42
Low Proposed PGL = 87.99 FT.
ELEV EOP @ Low point = 86.79 FT.

3) SHW from nearby pond in similar conditions
Fox Run Plans (Permit 53-00323-P, App. 160523-4)

Estimated SHW Elevation = 75.60 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 800B

Treatment Volume Required for Additional Impervious Area: 0.93 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.93 acre-ft

Attenuation Volume Required for Additional Impervious Area: 1.07 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 1.07 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN800B	Pre-Development Condition	Post Development Condition
Total Area, acre	11.19	11.19
Impervious Area, ac	4.49	9.81
CN	85.7	95.4
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	1.67	0.48
Runoff Depth (Q), in	6.00	7.14
Runoff Volume, acre-ft	5.59	6.66
Volume Differential, acre-ft		1.07
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.93
Total Volume Required, acre-ft		2.00

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN800B

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	1.46 ac	A	54	78.84	Residential, 1/2 acre lots
Pervious Area	5.24 ac	A/D	84	440.16	Open spaces, Fair condition (D)
Impervious Area	4.49 ac		98	440.02	Roadway Pavement
Total Area	11.19 ac			959.02	85.7 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	1.38 ac	A/D	77	106.26	*Newly graded area (no vegetation established) (A)
Impervious Area	9.81 ac		98	961.38	Roadway Pavement
Total Area	11.19 ac			1067.64	95.4 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 800B Pond Alternative A

Sizing Calculations

	Existing Ground at Pond site =	73.50 *See Note 1
	ELEV EXST EOP @ Low Point =	77.98 *See Note 2
	Elev SHW =	73.25 *See Note 3
Treatment Volume Required		0.93 AC-FT.
Attenuation Volume Required		1.07 AC-FT.
Pond Area Based on treatment volume		1.70 AC
Assume 1 foot of pond freeboard		1.00 FT.
Treatment Depth		0.55 FT.
Total Attenuation Depth based on Pond Area		0.6 FT.
Total Depth from SHWL to Top of Berm		2.18 FT.
Elev SHW=		73.3 FT.
Top of Berm Elevation given a total depth =		75.43 FT.
Unit Length Based on L/W = 2		384 FT.
Unit Width Based on L/W = 2		192 FT.
Maintenance Berm Width of 20-ft		40 FT.
Grade Adjustment Width Assumed 1:2		8 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth		17.44 FT.
Total Pond Length (including maintenance berm and adjustments)		449.48 FT.
Total Pond Width (including maintenance berm and adjustments)		257.32 FT.
Preliminary Property Size Required to accommodate Pond Footprint		2.66 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency		2.99 AC.
R/W Area Required (Includes whole parcel take where appropriate)		3.84 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 74+00.00
Low Proposed PGL = 78.82 FT.
ELEV EOP @ Low point = 77.98 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
0 inches
Using average value of 3 inches (0.25 ft)

Estimated SHW Elevation = 73.25 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 800B Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	69.00 *See Note 1
ELEV EXST EOP @ Low Point =	77.98 *See Note 2
Elev SHW =	68.75 *See Note 3
Treatment Volume Required	0.93 AC-FT.
Attenuation Volume Required	1.07 AC-FT.
Pond Area Based on treatment volume	1.87 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.50 FT.
Total Attenuation Depth based on Pond Area	0.6 FT.
Total Depth from SHWL to Top of Berm	2.07 FT.
Elev SHW=	68.8 FT.
Top of Berm Elevation given a total depth =	70.82 FT.
Unit Length Based on L/W = 2	403 FT.
Unit Width Based on L/W = 2	202 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	7 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	16.58 FT.
Total Pond Length (including maintenance berm and adjustments)	466.96 FT.
Total Pond Width (including maintenance berm and adjustments)	265.41 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.85 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.18 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.39 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 74+00.00
Low Proposed PGL = 78.82 FT.
ELEV EOP @ Low point = 77.98 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
0 inches
Using average value of 3 inches (0.25 ft)

Estimated SHW Elevation = 68.75 FT.



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 800B Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	82.00 *See Note 1
ELEV EXST EOP @ Low Point =	77.98 *See Note 2
Elev SHW =	75.60 *See Note 3
Treatment Volume Required	0.93 AC-FT.
Attenuation Volume Required	1.07 AC-FT.
Pond Area Based on treatment volume	2.33 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.40 FT.
Total Attenuation Depth based on Pond Area	0.5 FT.
Total Depth from SHWL to Top of Berm	1.86 FT.
Elev SHW=	75.6 FT.
Top of Berm Elevation given a total depth =	77.46 FT.
Unit Length Based on L/W = 2	451 FT.
Unit Width Based on L/W = 2	225 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	18 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	14.86 FT.
Total Pond Length (including maintenance berm and adjustments)	523.70 FT.
Total Pond Width (including maintenance berm and adjustments)	298.36 FT.
Preliminary Property Size Required to accommodate Pond Footprint	3.59 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.98 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.78 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 74+00.00
Low Proposed PGL = 78.82 FT.
ELEV EOP @ Low point = 77.98 FT.

3) SHW from nearby existing pond in similar conditions
Fox Run Plans (Permit 53-00323-P)

Estimated SHW Elevation = 75.60 FT.



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 900

Treatment Volume Required for Additional Impervious Area: 0.85 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.85 acre-ft

Attenuation Volume Required for Additional Impervious Area: 1.97 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 1.97 acre-ft

DRAFT



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN900	Pre-Development Condition	Post Development Condition
Total Area, acre	11.25	10.18
Impervious Area, ac	0.12	5.95
CN	65.5	89.3
Attenuation Volume-25yr24hr		
Precipitation, in	7.69	7.69
Potential Maximum Retention (S)	5.27	1.20
Runoff Depth (Q), in	3.70	6.42
Runoff Volume, acre-ft	3.47	5.44
Volume Differential, acre-ft		1.97
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.85
Total Volume Required, acre-ft		2.82

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN900

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	6.91 ac	A	54	373.14	Residential, 1/2 acre lots
Pervious Area	3.06 ac	A/D	83	253.98	Wood or Forest Land, Thin stand (D)
Pervious Area	1.03 ac	B/D	85	87.55	Residential, 1/2 acre lots (D)
Pervious Area	0.10 ac	C/D	83	8.30	Woods or Forest Land, Thin stand (D)
Pervious Area	0.03 ac	A	76	1.90	Gravel (Rail Corridor)
Impervious Area	0.12 ac		98	11.76	Roadway Pavement
Total Area	11.25 ac			736.63	65.5 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	4.23 ac	A/D	77	325.71	*Newly graded area (no vegetation established) (A)
Impervious Area	5.95 ac		98	583.10	Roadway Pavement
Total Area	10.18 ac			908.81	89.3 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 900 Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	84.00 *See Note 1
ELEV EXST EOP @ Low Point =	109.52 *See Note 2
Elev SHW =	82.50 *See Note 3
Treatment Volume Required	0.85 AC-FT.
Attenuation Volume Required	1.97 AC-FT.
Pond Area Based on treatment volume	1.41 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.60 FT.
Total Attenuation Depth based on Pond Area	1.4 FT.
Total Depth from SHWL to Top of Berm	3.00 FT.
Elev SHW=	82.5 FT.
Top of Berm Elevation given a total depth =	85.50 FT.
Unit Length Based on L/W = 2	351 FT.
Unit Width Based on L/W = 2	175 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	6 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	23.97 FT.
Total Pond Length (including maintenance berm and adjustments)	420.92 FT.
Total Pond Width (including maintenance berm and adjustments)	245.44 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.37 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.68 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.42 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 139+85.97
Low Proposed PGL = 111.81
ELEV EOP @ Low point = 110.61

3) SHW estimated from NRCS soils report

Estimated SHW Elevation = 82.50
Depth to water table = 18-42 inches
Using conservative value 18 inches (1.5 feet)



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 900 Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	81.00 *See Note 1
ELEV EXST EOP @ Low Point =	109.52 *See Note 2
Elev SHW =	81.00 *See Note 3
Treatment Volume Required	0.85 AC-FT.
Attenuation Volume Required	1.97 AC-FT.
Pond Area Based on treatment volume	1.54 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.55 FT.
Total Attenuation Depth based on Pond Area	1.3 FT.
Total Depth from SHWL to Top of Berm	2.83 FT.
Elev SHW	81.0 FT.
Top of Berm Elevation given a total depth	83.83 FT.
Unit Length Based on L/W = 2	367 FT.
Unit Width Based on L/W = 2	183 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	11 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	22.64 FT.
Total Pond Length (including maintenance berm and adjustments)	440.53 FT.
Total Pond Width (including maintenance berm and adjustments)	257.25 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.60 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	3.01 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.08 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 239+79.46
Low Proposed PGL = 110.72
ELEV EOP @ Low point = 109.52

3) SHW estimated from NRCS soils report

Depth to water table = 0 inches
0-6 inches
Assuming 0 inches

Estimated SHW Elevation = 81.00



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 900 Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	86.00 *See Note 1
ELEV EXST EOP @ Low Point =	109.52 *See Note 2
Elev SHW =	85.25 *See Note 3
Treatment Volume Required	0.85 AC-FT.
Attenuation Volume Required	1.97 AC-FT.
Pond Area Based on treatment volume	1.70 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.50 FT.
Total Attenuation Depth based on Pond Area	1.2 FT.
Total Depth from SHWL to Top of Berm	2.66 FT.
Elev SHW	85.3 FT.
Top of Berm Elevation given a total depth	87.91 FT.
Unit Length Based on L/W = 2	384 FT.
Unit Width Based on L/W = 2	192 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	8 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	21.31 FT.
Total Pond Length (including maintenance berm and adjustments)	453.43 FT.
Total Pond Width (including maintenance berm and adjustments)	261.20 FT.
Preliminary Property Size Required to accommodate Pond Footprint	2.72 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	2.99 AC.
R/W Area Required (Includes whole parcel take where appropriate)	4.17 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 239+79.46
Low Proposed PGL = 110.72
ELEV EOP @ Low point = 109.52

3) SHW estimated from NRCS soils report

Depth to water table = 0-6 inches
18-42 inches
Using conservative average of 9 inches (0.75 feet)

Estimated SHW Elevation = 85.25



Project Name : CPP from US 17-92 to SR 532
Project Number : 451419-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG
Date: 10/29/2025

Total Volumetric Requirements for Basin 1000

Treatment Volume Required for Additional Impervious Area: 0.39 acre-ft
Existing Treatment Volume Impacted: 0.00 acre-ft
Total Treatment Volume Required: 0.39 acre-ft

Attenuation Volume Required for Additional Impervious Area: 2.06 acre-ft
Attenuation Volume Impacted: 0.00 acre-ft
Attenuation Volume Required: 2.06 acre-ft

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Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin BSN1000	Pre-Development Condition	Post Development Condition
Total Area, acre	3.56	4.62
Impervious Area, ac	4.62	4.62
CN	80.8	98.0
Attenuation Volume-100yr10day		
Precipitation, in	15.80	15.80
Potential Maximum Retention (S)	2.37	0.20
Runoff Depth (Q), in	13.27	15.56
Runoff Volume, acre-ft	3.93	5.99
Volume Differential, acre-ft		2.06
Treatment Volume*		
1.0-in. *(1ft./12 in.) x Total Contributing Area (ac.) = acre-ft		0.39
Total Volume Required, acre-ft		2.44

*Wet Detention

$$Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$$

$$S = \frac{1000}{CN} - 10$$

1.65



Project Name : Poinciana Parkway Extension
Project Number : 446581-1-22-01
Date : 10/29/2025
Designed by : BC
Checked by : RMG

Curve Number Calculations Basin BSN1000

Pre					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.28 ac	A	45	12.60	Woods or Forest Land, Thin stand
Pervious Area	1.00 ac	A/D	84	84.00	Open spaces, Fair condition (D)
Pervious Area	2.03 ac	B/D	84	170.52	Residential, 1 acre lots (D)
Pervious Area	0.22 ac	C/D	83	18.26	Woods or Forest Land, Thin stand (D)
Pervious Area	0.03 ac	A	76	1.90	Gravel (Rail Corridor)
Total Area	3.56 ac			287.28	80.8 = Weighted CN

Post					
Description	Area (A)	Soil Group	Curve No. (CN)	CN x A	Cover type & hydrologic cond.
Pervious Area	0.00 ac	A/D	77	0.00	*Newly graded area (no vegetation established) (A)
Impervious Area	4.62 ac		98	452.76	Roadway Pavement
Total Area	4.62 ac			452.76	98.0 = Weighted CN

Notes:

Curve numbers from Table B-7 in Appendix B of 2024 FDOT Drainage Design Guide

*CN value of 77 used for Pervious Areas in Post-Development Condition for compaction of embankment and natural soils within R/W.

This is a more conservative approach than using traditional values of open spaces in good condition.

A/D = D if undeveloped, A if developed

B/D = D if undeveloped, B if developed



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 1000 Pond Alternative A

Sizing Calculations

Existing Ground at Pond site =	83.50 *See Note 1
ELEV EOP @ Low Point =	100.52 *See Note 2
Elev SHW =	83.00 *See Note 3
Treatment Volume Required	0.39 AC-FT.
Attenuation Volume Required	2.06 AC-FT.
Pond Area Based on treatment volume	0.48 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.80 FT.
Total Attenuation Depth based on Pond Area	4.3 FT.
Total Depth from SHWL to Top of Berm	6.08 FT.
Elev SHW=	83.0 FT.
Top of Berm Elevation given a total depth =	89.08 FT.
Unit Length Based on L/W = 2	205 FT.
Unit Width Based on L/W = 2	102 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	22 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	48.62 FT.
Total Pond Length (including maintenance berm and adjustments)	315.70 FT.
Total Pond Width (including maintenance berm and adjustments)	213.32 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.55 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.70 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.38 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 169+32.63

Low Proposed PGL = 101.72 FT.

ELEV EOP @ Low point = 100.52 FT.

3) SHW estimated from NRCS soils report

Estimated SHW Elevation = 83.00 FT.

Depth to water table = 6-18 inches

Using conservative value of 6 inches (0.5 feet)



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 1000 Pond Alternative B

Sizing Calculations

Existing Ground at Pond site =	86.00 *See Note 1
ELEV EOP @ Low Point =	100.22 *See Note 2
Elev SHW =	85.5 *See Note 3
Treatment Volume Required	0.39 AC-FT.
Attenuation Volume Required	2.06 AC-FT.
Pond Area Based on treatment volume	0.77 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.50 FT.
Total Attenuation Depth based on Pond Area	2.7 FT.
Total Depth from SHWL to Top of Berm	4.17 FT.
Elev SHW=	85.5 FT.
Top of Berm Elevation given a total depth =	89.67 FT.
Unit Length Based on L/W = 2	259 FT.
Unit Width Based on L/W = 2	130 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	15 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	33.39 FT.
Total Pond Length (including maintenance berm and adjustments)	347.09 FT.
Total Pond Width (including maintenance berm and adjustments)	217.59 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.73 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.91 AC.
R/W Area Required (Includes whole parcel take where appropriate)	3.41 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 169+32.63
Low Proposed PGL = 101.72 FT.
ELEV EOP @ Low point = 100.52 FT.

3) SHW estimated from NRCS soils report

Estimated SHW Elevation = 85.50 FT.
Depth to water table = 6-18 inches
Using conservative value of 6 inches (0.5 feet)



Project Name: CPP from US 17-92 to SR 532
Project Number: 451419-1-22-01
Task Description: Estimation of ROW Requirements

Prepared by: BC
Checked by: RMG
Date: 10/29/2025

Basin 1000 Pond Alternative C

Sizing Calculations

Existing Ground at Pond site =	82.00 *See Note 1
ELEV EOP @ Low Point =	100.22 *See Note 2
Elev SHW =	81.30 *See Note 3
Treatment Volume Required	0.39 AC-FT.
Attenuation Volume Required	2.06 AC-FT.
Pond Area Based on treatment volume	0.45 AC
Assume 1 foot of pond freeboard	1.00 FT.
Treatment Depth	0.85 FT.
Total Attenuation Depth based on Pond Area	4.5 FT.
Total Depth from SHWL to Top of Berm	6.40 FT.
Elev SHW=	81.3 FT.
Top of Berm Elevation given a total depth =	87.70 FT.
Unit Length Based on L/W = 2	199 FT.
Unit Width Based on L/W = 2	99 FT.
Maintenance Berm Width of 20-ft	40 FT.
Grade Adjustment Width Assumed 1:2	23 FT.
Horizontal Distance Based on a 1:4 Slope and total Depth	51.16 FT.
Total Pond Length (including maintenance berm and adjustments)	312.59 FT.
Total Pond Width (including maintenance berm and adjustments)	213 FT.
Preliminary Property Size Required to accommodate Pond Footprint	1.53 AC.
Preliminary Property Size Required to accommodate Pond Footprint with Contingency	1.68 AC.
R/W Area Required (Includes whole parcel take where appropriate)	2.32 AC.

Notes:

1) Average ground elevation estimated from LiDAR

2) Low Edge of Pavement calculation

Low EOP at Sta. 169+32.63
Low Proposed PGL = 101.72 FT.
ELEV EOP @ Low point = 100.52 FT.

3) SHW estimated from NRCS soils report

Depth to water table = 0 inches
18-42 inches
6-18 inches
Using conservative average of 8 inches (0.7 feet)

Estimated SHW Elevation = 81.30 FT.



Appendix C: Pond Alternative Evaluation Matrices

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Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 100	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	6.41	\$ 6,529,926	5.04	\$ 3,132,461	5.57	\$ 5,167,947
Easement (ac.)	No	\$ -	No	\$ -	No	\$ -
Construction (ac.) ⁽¹⁾		\$ 888,422		\$ 744,152		\$ 744,152
Potential Contamination	Low		Low		No	
Utilities ⁽²⁾	No		No		No	
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	1.5	\$ 55,541	1.5	\$ 57,148
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	0.5	\$ 50,000	1.8	\$ 180,000
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	None		None		None	
Other						
Total Cost		\$ 7,418,348		\$ 3,982,154		\$ 6,149,247
Preferred Pond Alternative	Preferred					

Notes:

- (1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.
 (2) No utilities designation means that pond alternative sites avoided utility easements.
 (3) Wetland Mitigation Cost = \$ 100,000 per acre
 (4) Skink Mitigation = \$ 38,000 per acre
 (5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 200	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	4.05	\$ 116,143	4.11	\$ 2,817,372	5.00	\$ 2,309,717
Easement (ac.)	No	\$ -	No	\$ -	No	\$ -
Construction (ac.) ⁽¹⁾		\$ 554,799		\$ 536,113		\$ 639,504
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾	NA		Nearby overhead powerlines		NA	
Listed Species: Sand Skink ⁽⁴⁾	3.2	\$ 121,600	1.40	\$ 53,200	0.1	\$ 3,800
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	0.50	\$ 50,000	0	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	Yes		Yes		Yes	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 792,542		\$ 3,456,685		\$ 2,953,020
Preferred Pond Alternative	Preferred					

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 300	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	2.78	\$ 548,346	3.61	\$ 453,766	3.79	\$ 719,076
Easement (ac.)	No	\$ -	No	\$ -	No	\$ -
Construction (ac.) ⁽¹⁾		\$ 460,381		\$ 642,767		\$ 660,116
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾	NA		NA		NA	
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	No	\$ -	No	\$ -
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	Potential		Potential		Potential	
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 1,008,727		\$ 1,096,534		\$ 1,379,193
Preferred Pond Alternative	Preferred					

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 350A	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	3.13	\$ 424,500	2.54	\$ 344,482	2.65	\$ 439,164
Easement (ac.)		\$ -		\$ -	0.31	\$ 51,374
Construction (ac.) ⁽¹⁾		\$ 410,271		\$ 337,497		\$ 367,634
Potential Contamination	Low		No		No	
Utilities ⁽²⁾	NA		NA		NA	
Listed Species: Sand Skink ⁽⁴⁾	3.13	\$ 118,940	2.54	\$ 96,520	2.65	\$ 100,700
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	Potential		Potential		Potential	
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 953,710		\$ 778,499		\$ 958,871
Preferred Pond Alternative			Preferred			

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 350B	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	4.04	\$ 2,430,962	4.15	\$ 2,497,151	3.96	\$ 1,665,586
Easement (ac.)		\$ -		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 578,889		\$ 573,349		\$ 518,634
Potential Contamination	Medum		Medium		Medium	
Utilities ⁽²⁾	NA		NA		NA	
Listed Species: Sand Skink ⁽⁴⁾	4.04	\$ 153,520	3.90	\$ 148,238	0.59	\$ 22,572.00
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	Potential		Potential		No	
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 3,163,371		\$ 3,218,739		\$ 2,206,792
Preferred Pond Alternative					Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 400A	Alternative A		Alternative B		Alternative C	
Description of Alternative	Existing Borrow Pit					
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	22.57	\$ -	3.47	\$ 302,864	3.05	\$ 266,206
Easement (ac.)		\$ -	0.99	\$ 86,408		\$ -
Construction (ac.) ⁽¹⁾	Existing Borrow Pit	NA		\$ 639,177		\$ 559,169
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾	NA		NA		NA	
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	3.47	\$ 131,860.00	0.15	\$ 5,795.00
Listed Species: Scrub Jay	No	\$ -	Yes		No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	Potential	
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ -		\$ 1,160,309		\$ 831,170
Preferred Pond Alternative					Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 400B	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	3.58	\$ 777,599	3.25	\$ 705,921	3.36	\$ 729,813
Easement (ac.)		\$ -	0.62	\$ 134,668		\$ -
Construction (ac.) ⁽¹⁾		\$ 453,789		\$ 436,433		\$ 463,150
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	0.2	\$ 7,220	2.5	\$ 93,206
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	0.82	\$ 82,000	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 1,231,387		\$ 1,366,242		\$ 1,286,170
Preferred Pond Alternative					Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 450	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	2.45	\$ 1,030,476	1.91	\$ -	2.1	\$ 553,143
Easement (ac.)		\$ -		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 311,375		\$ 301,519		\$ 236,809
Potential Contamination	Low		Low		No	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	0.13	\$ 5,080.60	0.15	\$ 5,586.00
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	2.45	\$ 245,000	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 1,586,851		\$ 306,600		\$ 795,538
Preferred Pond Alternative			Preferred			

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 500	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	8.50	\$ 2,238,911	5.76	\$ 1,346,975	5.48	\$ 689,931
Easement (ac.)		\$ -	0.40	\$ 93,540	0.28	\$ 35,252
Construction (ac.) ⁽¹⁾		\$ 1,427,946		\$ 965,508		\$ 940,058
Potential Contamination	Low		No		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	3.74	\$ 142,120	5.59	\$ 212,314	4.06	\$ 154,098
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	0.94	\$ 94,000	No	\$ -	0.22	\$ 8,329.60
Maintenance	Standard		Standard		Standard	
Cultural Resources	Yes		Yes		Yes	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 3,902,977		\$ 2,618,336		\$ 1,827,668
Preferred Pond Alternative					Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 600	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	8.73	\$ 2,144,155	6.68	\$ 1,640,659	6.75	\$ 1,657,852
Easement (ac.)		\$ -		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 1,452,474		\$ 1,196,912		\$ 1,146,283
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	2.88	\$ 109,474	1.04	\$ 104,000	6.21	\$ 621,000
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	0.44	\$ 43,650	1.26	\$ 126,000	0.40	\$ 40,000
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 3,749,754		\$ 3,067,572		\$ 3,465,135
Preferred Pond Alternative	Preferred					

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 700	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	8.57	\$ 3,400,938	6.52	\$ 8,155,744	7.33	\$ 5,355,817
Easement (ac.)		\$ -		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 981,432		\$ 923,193		\$ 934,747
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	No	\$ -	No	\$ -
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	8.57	\$ 857,000	6.52	\$ 652,000	7.33	\$ 733,000
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 5,239,370		\$ 9,730,937		\$ 7,023,564
Preferred Pond Alternative					Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 800A	Alternative A		Alternative B	
Description of Alternative				
	Comments	Cost	Comments	Cost
Right of Way (ac.)	4.47	\$ 4,311,915	1.56	\$ 1,504,829
Easement (ac.)		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 600,053		\$ 312,028
Potential Contamination	Low/Medium ⁽⁶⁾		Low	
Utilities ⁽²⁾				
Listed Species: Sand Skink ⁽⁴⁾	0.90	\$ 34,200	0.62	\$ 23,712
Listed Species: Scrub Jay	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	1.20	\$ 120,000	No	\$ -
Maintenance	Standard		Standard	
Cultural Resources	Yes		NA	
Aesthetics	NA		NA	
Other				
Total Cost		\$ 5,066,168		\$ 1,840,570
Preferred Pond Alternative			Preferred	

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

(6) This Alternative was split into Alt A-1 and Alt A-2. Alt A-1 has a low contamination rating. Alt A-2 has a medium contamination rating.

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 800B	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	3.84	\$ 2,391,158	4.39	\$ 2,730,899	4.78	\$ 3,247,225
Easement (ac.)		\$ -	0.55	\$ 342,139.97		\$ -
Construction (ac.) ⁽¹⁾		\$ 520,096		\$ 548,664		\$ 712,047
Potential Contamination	No		No		No	
Utilities ⁽²⁾	Utility easement					
Listed Species: Sand Skink ⁽⁴⁾	No	\$ -	No	\$ -	0.65	\$ 24,700
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	3.07	\$ 307,300	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 2,911,254		\$ 3,929,003		\$ 3,983,972
Preferred Pond Alternative	Preferred					

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 900	Alternative A		Alternative B		Alternative C	
Description of Alternative						
	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	3.42	\$ 2,323,329	4.08	\$ 2,771,690	4.17	\$ 2,832,830
Easement (ac.)		\$ -		\$ -		\$ -
Construction (ac.) ⁽¹⁾		\$ 490,247		\$ 559,923		\$ 572,266
Potential Contamination	Low		No		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	3.42	\$ 129,960	0.29	\$ 10,852.8	1.50	\$ 57,046
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	Yes		Yes		Yes	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 2,943,536		\$ 3,342,466		\$ 3,462,142
Preferred Pond Alternative	Preferred					

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Project Name: CPP from US 17 92 to SR 532
Project Number: 451419-1-22-01
Task Description: Pond Evaluation Matrix

Prepared by: BAC
Checked by: RMG
Date: 10/23/2025

Basin 1000	Alternative A		Alternative B		Alternative C	
Description of Alternative	Comments	Cost	Comments	Cost	Comments	Cost
Right of Way (ac.)	3.38	\$ 1,452,059	3.41	\$ 1,464,947	2.32	\$ 996,680
Easement (ac.)	0.45	\$ 193,321	0.55	\$ 236,282	0.34	\$ 146,065
Construction (ac.) ⁽¹⁾		\$ 399,341		\$ 388,379		\$ 278,926
Potential Contamination	Low		Low		Low	
Utilities ⁽²⁾						
Listed Species: Sand Skink ⁽⁴⁾	3.83	\$ 145,540	3.96	\$ 150,480	No	\$ -
Listed Species: Scrub Jay	No	\$ -	No	\$ -	No	\$ -
Listed Species: Tortoise	No	\$ -	No	\$ -	No	\$ -
Wetland Impacts (ac.) ⁽³⁾	No	\$ -	No	\$ -	No	\$ -
Maintenance	Standard		Standard		Standard	
Cultural Resources	NA		NA		NA	
Aesthetics	NA		NA		NA	
Other						
Total Cost		\$ 2,190,261		\$ 2,240,088		\$ 1,421,671
Preferred Pond Alternative			Preferred			

(1) Construction costs include clearing and grubbing, excavation, embankment and outfall structure.

(2) No utilities designation means that pond alternative sites avoided utility easements.

(3) Wetland Mitigation Cost = \$ 100,000 per acre

(4) Skink Mitigation = \$ 38,000 per acre

(5) NA - Not Available

Advantages and disadvantages of pond alternatives described in Section 7.0 of Pond Siting Report



Appendix D: Stakeholder Correspondence

DRAFT



CFX COORDINATION MEETING

DRAFT

Central Polk Parkway East PD&E Study

US 17/92 to SR 538
FPID Number: 451419-1

CFX Coordination Meeting

September 26, 2025
3:00 to 4:00 PM

TEAMS/Florida's Turnpike Enterprise Headquarters
Room 3001

Meeting Summary

The meeting was held as scheduled via Teams and generally followed the **agenda** as provided. Summary of the key discussions and action items are provided below.

1. Introductions / Attendees:

Florida's Turnpike Enterprise (FTE) Representatives:

Henry Pinzon, FTE EMO

Jazlyn Georges, FTE EMO

Annemarie Hammond, FTE EMO

Daniel Marwood, FTE ROW

Shannon Minchew, FTE ROW

Erin Sterk, FTE Planning

Erin Yao, FTE Drainage

Adriana Kirwan, FTE Drainage

Anil Sharma, FTE Design

Nathan Silva, RS&H PD&E

Kelsey Lucas, RS&H PD&E

Billie Castillo, RS&H Drainage

Rob Garriguees, RS&H Drainage

Justin Towry, RS&H Design

Paul Heeg, RS&H Concepts

Heather Hughes, RS&H Concepts

Central Florida Expressway Authority (CFX):

David Falk, CFX

Carnot Evans, Dewberry

2. **Meeting Purpose:** Review the CPP Preferred Alternative, potential joint-use stormwater opportunities, and next steps.

- The FTE team provided a brief PowerPoint presentation that followed the agenda. Open discussions occurred throughout the PPT as highlighted below.

3. **CPP East - Preferred Alternative**

- FTE has completed the VE review process and the New Alignment option has been selected as the Preferred Alternative.

- A Public Hearing is planned for December 2nd (virtual) and 4th (in-person) to present the preferred alternative.
- Preliminary final design for the section north of Ernie Caldwell Blvd. is planned to begin after the public hearing.
- The longer ACE project to the south (down to US 27) will also conduct a public meeting in December to present the single preferred corridor. The formal PD&E studies will kick-off early next year.

4. CFX Poinciana Parkway Extension Project Status

- CFX is focusing on acquiring right of way between US 17/92 and CR 532; All property acquisition for the utility relocations is completed; still need another 38 or 39 parcels for the Parkway. Anticipate all ROW complete by 3rd quarter of FY 2026. Construction planned to begin in 2027.
- Still waiting for permits, but nearing agreement. USACE has given the “thumbs up” for the 404 permit. Potential mitigation lands have been identified.
- Recently advertised bids for the CR 532 widening project. Will be presented at the December board meeting for award and NTP in January for construction.
- Utilities:
 - o Relocations to begin in February 2026 (dependent on permits and R/W).
 - o CFX established the utility corridors. Blue lines are the dividing lines between the gas pipelines. The orange line is the L/A line. The first 100 feet to the west is Duke transmission (230kV - total of 6 wires). Next 30 feet is Kinder Morgan (16"), next 50 feet is Florida Southeast Connector (36" gasoline). All permits have been obtained. (Referenced to the kmz presented during the meeting.)
 - o Duke transmission poles are 135 to 140 feet tall where the line crosses the Poinciana Parkway Extension north of CR 532. Then they reduce to between 90 and 100 feet for the rest of the corridor (95 to 105 feet where it crosses the RR).
 - o CFX is also relocating a portion of the transmission line that is currently in the US 17/92 R/W at the DDI.
- Working with RR for crossing permits
- Regular (monthly) meetings with MI-4 team. Have not received a plan submittal for the Poinciana Connector for review.
 - o MI-4 to start acquiring R/W next summer. No hard date for construction. They have a lot of permitting issues and sand skink issues.

- o Marc Hustad is the MI-4 point person

5. Stormwater Opportunities

- CFX is waiting for SFWMD stormwater permit.
- Permit for this section of SR 538 does not directly impact Reedy Creek, but SFWMD applied the same comments to conservation lands and nutrient loading to this section, even though it's not in the mitigation bank. They linked the 2 segments together.
- Pond 100 post development discharge is much less than required because of pipe underneath railroad downstream and compensatory treatment along with Pond 200 for Pond 400. The railroad pipe is undersized.
- It is unclear whether the railroad would allow a new additional pipe to be jack and bored underneath the railroad. It wasn't specifically discussed. FTE has had mixed results with the railroad. RR was adamant that all work occur outside of the RR R/W
- There is no room for any pond underneath northbound ramp where the truck parking is proposed. FDOT has updated the truck parking facility plan. The current layout shows no impervious area west of the CFX project (Poinciana Parkway Extension). This means that Pond 100 can't get any bigger to accommodate FTE ramp.
- CFX generally does not like to co-mingle stormwater runoff with private developments due to maintenance challenges. However, CFX may be inclined to share a stormwater facility with another state agency like FTE. There is an opportunity for additional coordination during final design.
- Additional coordination regarding opportunities for nutrient credits is also needed.

6. Next Steps

- CPP - Public Hearing (December 2 & 4, 2025)
- CPP – Phase 1 Design (Start January 2026)

7. Open Discussion and Action Items

- CFX agreed to provide latest kmz files



SWFWMD PRE-APPLICATION MEETING

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WATERSS STAKEHOLDER MEETINGS

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Appendix E: Document Excerpts

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EXISTING PERMITS

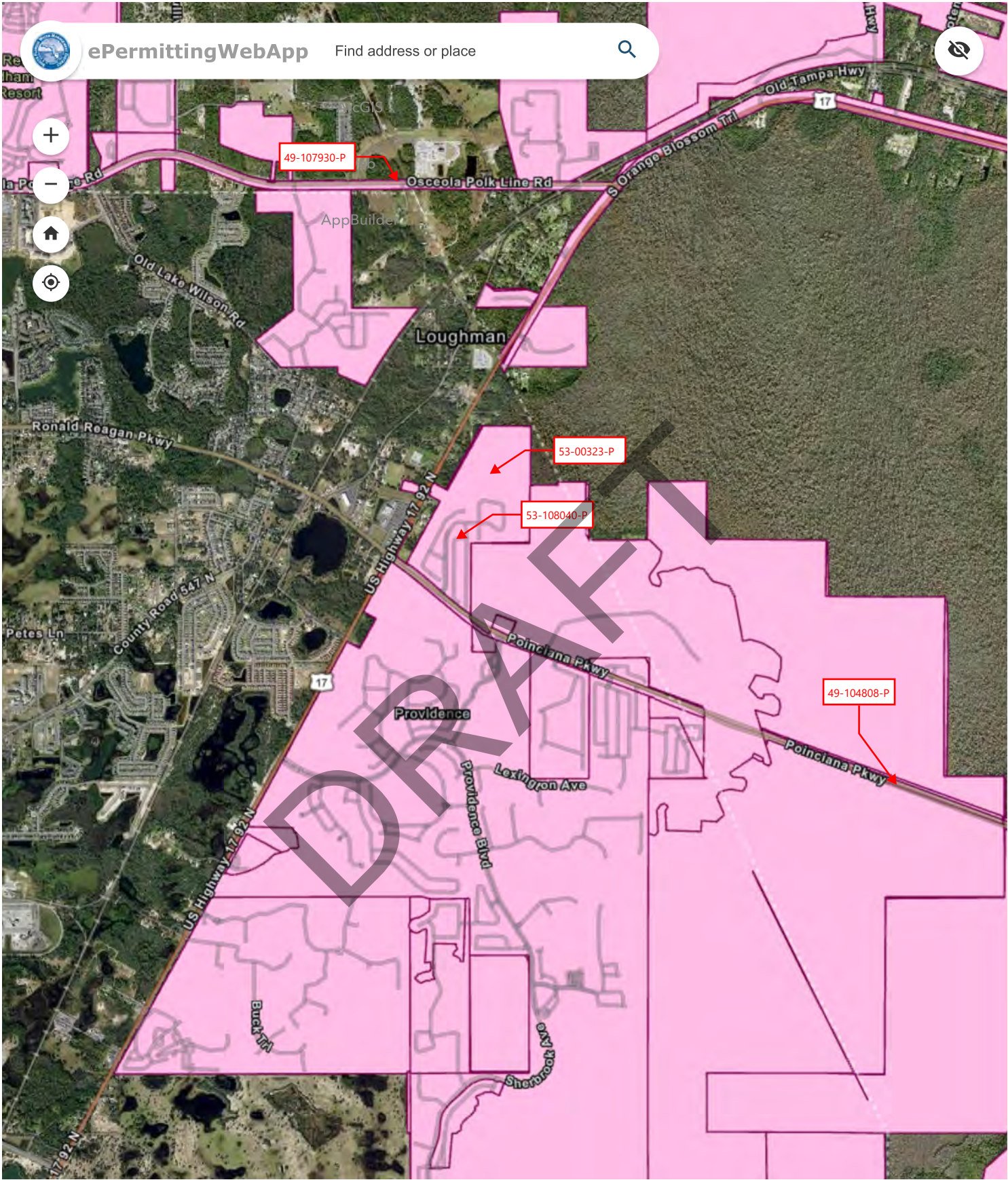
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Table of Impacted Permits

Water Management District	Permit Base No.	Revision No.	Application No.	Project Name
SFWMD	49-107930-P		220705-35054	CR 532 Widening (CFX Project 538-235A)
	49-104808-P		201217-4895	Poinciana Parkway Section 1
	53-00323-P		160523-4	Fox Run
			230301-37776	Fox Run (NKA Vistamar Villages)
	53-108040-P		230301-37777	Fox Run (NKA Vistamar Village)
SWFWMD	43-32513	6	696330	Ernie Caldwell Boulevard Section 2B and Section 3
		7	711094	Ernie Caldwell Boulevard Section 2B and Section 3
		8	721742	Ernie Caldwell Blvd. – Access Road

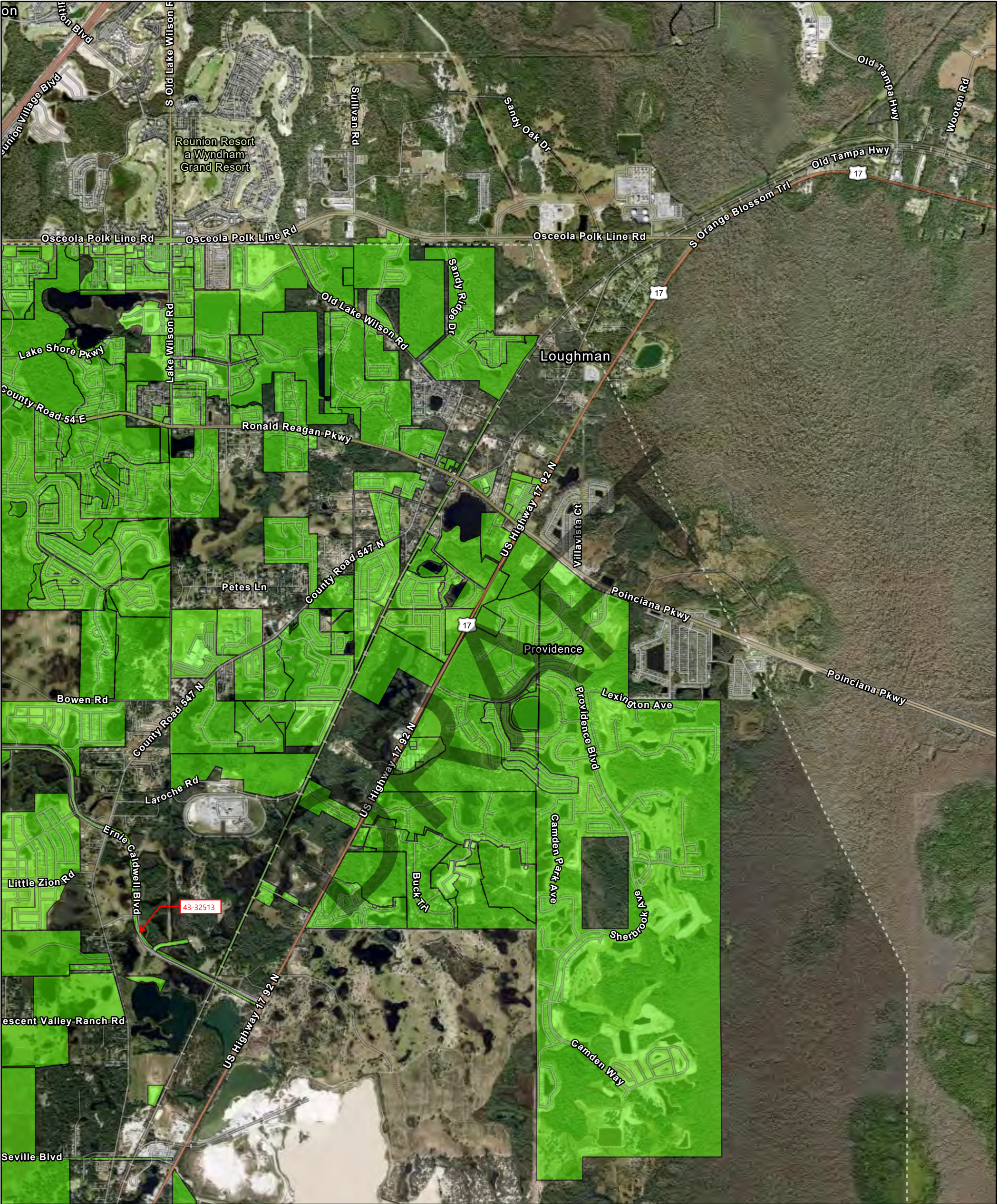
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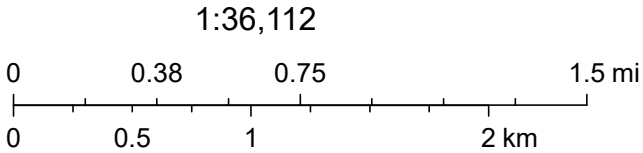
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Environmental Resource Permit



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Environmental Resource Permits



State of Florida, Maxar, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE PERMIT NO. 53-00323-P**

DATE ISSUED: 02/17/2017

PERMITTEE: POLK COUNTY LAND PARTNERS L L C
8927 CHAMPIONS GATE BOULEVARD SUITE
410
CHAMPIONS GATE, FL 33896

PROJECT DESCRIPTION: This Environmental Resource Permit authorizes construction and operation of a stormwater management system serving 70.58 acres of residential development within a 147.11 acre parcel for a project known as Fox Run.

PROJECT LOCATION: POLK COUNTY, SEC 7 TWP 26S RGE 28E

PERMIT DURATION: See Special Condition No:1.

This is to notify you of the District's agency action for Permit Application No. 160523-4, dated May 23, 2016. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S).

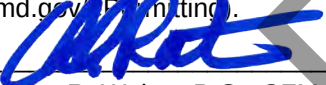
Based on the information provided, District rules have been adhered to and an Environmental Resource Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 18 General Conditions (See Pages : 2 - 4 of 6),
3. the attached 16 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 7 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT this written notice has been mailed or electronically transmitted to the Permittee (and the persons listed in the attached distribution list) this , in accordance with Section 120.60(3), F.S. Notice was also electronically posted on this date through a link on the home page of the District's website (my.sfwmd.gov/Permitting).

BY: 
Charles R. Walter, P.G., CFM
Orlando Regulatory Service Center Administrator
Orlando Service Center

GENERAL CONDITIONS

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, Florida Administrative Code (F.A.C.). Any deviations that are not so authorized shall subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual" (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the "Florida Stormwater Erosion and Sedimentation Control Inspector's Manual" (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice" indicating the expected start and completion dates. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
 - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Applicant's Handbook Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 - b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that

GENERAL CONDITIONS

require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
 - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
 - a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other

GENERAL CONDITIONS

uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on 2/17/2022
2. Operation and maintenance of the stormwater management system shall be the responsibility of FOX RUN HOMEOWNERS' ASSOCIATION, INC.. Within one year of permit issuance or concurrent with the engineering certification of construction completion, whichever comes first, the permittee shall submit a copy of the recorded deed restrictions (or declaration of condominium, if applicable), a copy of the filed articles of incorporation, and a copy of the certificate of incorporation for the association.
3. Discharge Facilities:

As shown on Pages 9-11 of Exhibit 2.
4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.
5. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
6. The following are exhibits to this permit. Exhibits noted as incorporated by reference are available on the District's ePermitting website (<http://my.sfwmd.gov/ePermitting>) under this application number.
Exhibit No. 1 Location Map
Exhibit No. 2 Plans, Pages 1 - 25
Exhibit No. 3 Environmental, Pages 1-17
Exhibit No. 4 Post Development Basin Map, Page 1
Exhibit No. 5 Summary of Peak Discharges and Stages, Page 1
Exhibit No. 6 Water Quality, Pages 1-4
Exhibit No. 7 Flood Plain, Page 1-4
7. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Compliance (ERC) staff, and any other local government entities as necessary.

The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties.

To schedule a pre-construction meeting, please contact ERC staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: pre-con@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.
8. Minimum building floor elevation: As shown in Exhibit 2 Pages 16 & 17.
9. Minimum road crown elevation: As shown in Exhibit 2, Pages 16 & 17.
10. Flood plain compensation storage for this phase of construction shall be constructed and operational prior to the placement of any fill between the average wet season water table elevation and the 100 year flood elevation that would adversely affect the rights of others.
11. Prior to any future construction, the permittee shall apply for and receive a permit modification. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed

SPECIAL CONDITIONS

construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.

12. Permanent physical markers designating the preserve status of the wetland preservation areas and buffer zones shall be placed at the intersection of the buffer and each lot line. These markers shall be maintained in perpetuity.
13. Prior to 15-apr-2017 and prior to the commencement of construction, whichever occurs first, the permittee shall submit the following via ePermitting or to the Environmental Compliance staff at the local District office:
 - One certified copy of the recorded conservation easement document including exhibits.
 - A CD or DVD containing the easement data in a digital ESRI Geodatabase (mdb), ESRI Shapefile (shp) or AutoCAD Drawing Interchange (dxf) file format using Florida State Plane coordinate system, East Zone (3601), Datum NAD83, HARN with the map units in feet.
 - A map depicting the Conservation Easement over the best available satellite or aerial imagery.
 - Form 1001 ERP REG: Title, Possession, and Lien Affidavit, fully executed by the owner and notarized.

The recorded easement shall utilize the form attached as Exhibit No. 3. This Exhibit may not be modified. The easement must be free of mortgages, liens, easements or other encumbrances or interests in the easement which District staff states are contrary to the intent of the easement. In the event it is later determined that there are encumbrances or interests in the easement which the District determines are contrary to the intent of the easement, the permittee shall be required to provide release or subordination of such encumbrances or interests.

14. A maintenance program shall be implemented in accordance with Exhibit No. 3 for the preserved wetland on a regular basis to ensure the integrity and viability of those areas as permitted. Maintenance shall be conducted in perpetuity to ensure that the conservation areas are maintained free from Category 1 exotic vegetation (as defined by the Florida Exotic Pest Plant Council at the time of permit issuance) immediately following a maintenance activity. Maintenance in perpetuity shall also insure that conservation areas, including buffers, maintain the species and coverage of native, desirable vegetation specified in the permit. Coverage nuisance plant species shall not exceed 10% of total cover between maintenance activities. Coverage of exotic plant species shall not exceed 5% of total cover between maintenance activities. In addition, the permittee shall manage the conservation areas such that exotic/nuisance plant species do not dominate any one section of those areas.
15. Activities associated with the implementation of the mitigation, monitoring and maintenance plan(s) shall be completed in accordance with the work schedule attached as Exhibit No. 3. Any deviation from these time frames must be coordinated with the District's Environmental Resource Compliance staff, and may require a minor modification to this permit. Such requests must be made in writing and shall include (1) reason for the change, (2) proposed start/finish and/or completion dates; and (3) progress report on the status of the project development or mitigation effort.
16. If monitoring reports or other information show the preserved wetlands have been negatively affected by the permitted development in a manner that is irreversible (such as impounding the wetland and drowning the existing vegetation or a reduction in the hydroperiod resulting in the transition of wetlands into upland/transitional habitat), the permittee shall be required to submit a remediation plan within 30 days of notification by the District's Environmental Resource Compliance staff of such conditions. The remediation plan may include onsite or offsite mitigation as necessary to address any deficiencies.

NOTICE OF RIGHTS

As required by Sections 120.569 and 120.60(3), Fla. Stat., the following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all of the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a SFWMD decision which affects or may affect their substantial interests shall file a petition for hearing with the Office of the District Clerk of the SFWMD, in accordance with the filing instructions set forth herein, within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, or posting that the SFWMD has or intends to take final agency action, or publication of notice that the SFWMD has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action which materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional Rule 28-106.111, Fla. Admin. Code, point of entry.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Fla. Stat., shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk of the SFWMD. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at SFWMD headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the SFWMD's security desk does not constitute filing. It will be necessary to request that the SFWMD's security officer contact the Office of the District Clerk. An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document. A party who files a document by e-mail shall (1) represent that the original physically signed document will be retained by that party for the duration of the proceeding and of any subsequent appeal or subsequent proceeding in that cause and that the party shall produce it upon the request of other parties; and (2) be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed.

INITIATION OF AN ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Fla. Stat., and Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, SFWMD file number or any other SFWMD identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401–405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Fla. Stat., and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal with the Office of the District Clerk of the SFWMD in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the clerk of the appropriate district court of appeal.

Last Date For Agency Action: March 27, 2017

INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Fox Run
Permit No.: 53-00323-P
Application No.: 160523-4 **Associated File:** 160608-5 WU Concurrent
Application Type: Environmental Resource (New Construction/Operation)
Location: Polk County, S7/T26S/R28E
Permittee : Polk County Land Partners L L C
Operating Entity : Fox Run Homeowners' Association, Inc.
Project Area: 70.58 acres
Permit Area: 147.11 acres
Project Land Use: Residential
Drainage Basin: REEDY CREEK
Receiving Body: REEDY CREEK via Wetland System
Special Drainage District: NA

Total Acres Wetland Onsite: 63.48
Total Acres Wetland Preserved Onsite: 60.39
Total Acres Impacted Onsite : 3.09
Total Acres Presv/Mit Compensation Onsite: 60.39
Conservation Easement To District : No
Sovereign Submerged Lands: No

PROJECT SUMMARY:

This Environmental Resource Permit authorizes construction and operation of a stormwater management system serving 70.58 acres of residential development within a 147.11 acre parcel for a project known as Fox Run.

Proposed is a new residential development to be served by a storm water management system consisting of six interconnected wet detention ponds. Water quality-treatment and discharge rate attenuation for the residential development will be provided in Pond Nos. 4 , 5 & 6, while Pond Nos.1, 2 & 3 are designed to provide only discharge rate attenuation prior to discharge through the Pond 4 and 6 control structures into Reedy Creek, via the western ditch wetland system.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062 Florida Administrative Code (F.A.C.).

PROJECT EVALUATION:**PROJECT SITE DESCRIPTION:**

The site is located northeast of Kinney Harmon Road and southeast of Orange Blossom Trail in Polk County, Florida. Refer to Exhibit 1 for a location map.

There are no permitted water management facilities within the project area. The site contains undeveloped lightly wooded uplands, low lying marshes and wooded wetlands.

For information on the wetlands and surface waters within the project, please refer to the Wetlands and Surface Waters section of this staff report.

LAND USE:**Construction
Project:**

	This Phase	Total Project	
Building Coverage	20.59	20.59	acres
Impervious	12.09	12.09	acres
Pervious	28.25	28.25	acres
Water Mgmt Acreage	9.65	9.65	acres
Total:	70.58	70.58	

WATER QUANTITY :**Discharge Rate :**

As shown in the table below and in EXHIBIT 5, the project discharge is within the allowable limit for the area.

Discharge Storm Frequency : 25 YEAR-1 DAY

Design Rainfall : 7 inches

Basin	Allow Disch (cfs)	Method Of Determination	Peak Disch (cfs)	Peak Stage (ft, NGVD 29)
Combined BASIN 1-6	44.47	Discharge Formula	43.7	0

Finished Floors :

As shown on Pages 16 & 17 of Exhibit 2, minimum finished floor elevations have been set at or above the calculated design storm flood elevation.

Building Storm Frequency : 100 YEAR-3 DAY

Design Rainfall : 11.5 inches

Road Design :

As shown on Pages 16 & 17 of Exhibit 2, minimum road center lines have been set at or above the calculated design storm flood elevation.

Road Storm Frequency : 100 YEAR-1 DAY

Design Rainfall: 9 inches

Flood Plain/Compensating Storage:

The permittee provided calculations demonstrating that the project meets the compensating storage requirements. The 100-year flood elevation varies from 74.63' NGVD'29, to 92.09' NGVD'29. Please refer to Exhibit 7 for a map of the floodplain encroachment and compensating storage volume areas.

Displaced Volume	Compensating Volume	100-Year Stage Elevation
6.55 ac-ft	34.48 ac-ft	ft-NGVD 29

Offsite Flows:

Offsite drainage areas will drain primarily from the south and west and into the undisturbed western ditch system as shown on Pages 16 and 17 of Exhibit 2, and in Exhibit 4.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
BASIN No. 1	9.63	88.5	88.50	Wet Season Soil Borings
BASIN No. 2	5.30	88.5	88.50	Wet Season Soil Borings
BASIN No. 3	16.50	83	83.00	Wet Season Soil Borings
BASIN No. 4	17.94	75.6	75.60	Wet Season Soil Borings
BASIN No. 5	11.65	73.5	73.50	Wet Season Soil Borings
BASIN No. 6	9.56	68.5	68.50	Wet Season Soil Borings

Receiving Body :

Basin	Str.#	Receiving Body
Basin No. 4	CS-04	Wetland F
Basin No. 6	CS-06	Wetland F

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NGVD 29)

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
BASIN No. 4	CS-04	2	Circular Orifice				4.25 "		75.6
BASIN No. 6	CS-06	1	Circular Orifice				3"		68.5

Culverts:

Basin	Str#	Count	Type	Width	Length	Dia.
BASIN No. 4	CS-04	1	Reinforced Concrete Pipe		60'	42"
BASIN No. 6	CS-06	1	Reinforced Concrete Pipe		67'	36"

Discharge Structures:**Inlets:**

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
BASIN No. 4	CS-04	1	Drop Inlet	36"	79"		77.85
BASIN No. 6	CS-06	1	Drop Inlet	36"	79"		69.7

WATER QUALITY :

No adverse water quality impacts are anticipated as a result of the proposed project.

Water quality treatment in excess of 1 inch over Basins 1-6 is provided in wet detention ponds 4, 5 and 6 as shown in Exhibit 6.

Pursuant to Appendix E of the Environmental Resource Permit Applicant's Handbook Volume II, the provided water quality treatment volume includes an additional 50% above the requirements as reasonable assurance that the project will not have an adverse water quality impact on the downstream receiving body.

The applicant provided pollutant loading calculations determining that the proposed stormwater management system reduces the post-development loading of total phosphorous to levels below the loadings generated under pre-development condition. The pollutant loading calculations are based on the removal characteristics associated with the system.

WETLANDS:**Wetlands And Other Surface Waters:**

The project area contains 9 wetlands totaling 63.48 acres. Please see exhibit 2 for wetland locations. The wetlands can be generally described as freshwater marsh, wet prairie, and mixed forested wetland. Additional wetland descriptions are located in the epermitting file.

The project will result in direct impacts to 3.09 acres of wetlands and 0.29 acres of secondary impacts as described in the table below. Exhibit 2 identifies the locations wetlands/surface waters that will be impacted. The project has been designed to impact only the smallest and isolated wetlands. The only impact to the largest connected wetland is at the smallest constriction of the wetland where necessary to access a stormwater management pond from the project area.

To mitigate for the wetland/ surface water impacts, the applicant will preserve 59.87 acres of mixed forested wetlands as depicted in exhibit 3. (This is the 60.39 acres shown on the first page minus 0.27 acres of secondary impact and a small isolated wetland of 0.25 acres which is not being preserved or impacted by the activities.) The amount of mitigation was determined by using the Unified Mitigation Assessment Method in Chapter 62-345, F.A.C. The final scores can be found in the permit file.

The proposed mitigation is located within the same basin as the impacts, therefore pursuant to Section 10.2.8 of Volume I, the project will not result in unacceptable cumulative impacts to the Reedy Creek Basin.

Preserved wetland F, along with upland buffer areas will be preserved on site under a conservation easement dedicated to the District. Upland buffers meet the minimum 15 foot, average 25 foot requirements.

Wetland Inventory :

CONSTRUCTION MOD -Fox Run

Site Id	Site Type	Pre-Development				Post-Development						
		Pre Fluc cs	AA Type	Acreage (Acres)	Current Wo Pres	With Project	Time Lag (Yrs)	Risk Factor	Pres. Adj. Factor	Post Fluc cs	Adj Delta	Functional Gain / Loss
WL-A	ON	641	Direct	.10							.000	.000
WL-B	ON	641	Direct	1.19	.60	.00					-.600	-.714
WL-C	ON	630	Direct	1.07	.60	.00					-.600	-.642
WL-C S	ON	630	Secondary	.14	.60	.50					-.100	-.014
WL-D	ON	630	Direct	.38	.50	.00					-.500	-.190
WL-D S	ON	630	Secondary	.13	.50	.40					-.100	-.013
WL-E	ON	641	Direct	.31							.000	.000
WL-F	ON	630	Preservation	59.87	.80	.87	1	1.00	.60		.042	2.515
WL-F I	ON	630	Direct	.02	.80	.00					-.800	-.016
WL-G	ON	630	Preservation	.25								
WL-H	ON	643	Direct	.01							.000	.000
WL-I	ON	643	Direct	.01							.000	.000
Total:				63.48								.93

<u>Fluc cs Code</u>	<u>Description</u>
630	Wetland Forested Mixed
641	Freshwater Marshes
643	Wet Prairies

CERTIFICATION, OPERATION, AND MAINTENANCE:

Pursuant to Chapter 62-330.310 Florida Administrative Code (F.A.C.), Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1-12.3 of the Applicant's Handbook Volume I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all stormwater management systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of stormwater management systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation

due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity will be responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4 of Applicant's Handbook Volume I for Minimum Operation and Maintenance Standards.

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RELATED CONCERNS:**Water Use Permit Status:**

The applicant has indicated that Polk County Utilities reclaimed water will be used as a source for irrigation water for the project.

The applicant has indicated that dewatering is required for construction of this project. Water Use Application No. 160608-5 is being processed concurrently.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

POLK County Utilities

Waste Water System/Supplier:

POLK County Utilities

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

Historical/Archeological Resources:

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded in the project area and the project is therefore unlikely to have an effect upon any such properties.

DEO/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

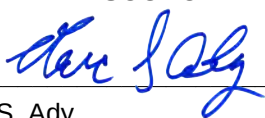
Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

DIVISION APPROVAL:

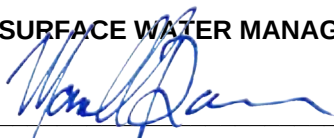
NATURAL RESOURCE MANAGEMENT:



Marc S. Ady

DATE: 2/16/17

SURFACE WATER MANAGEMENT:



Mark S. Daron, P.E.

DATE: February 16, 2017

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South Florida Water Management District
Individual Environmental Resource Permit No. 49-104808-P
Date Issued: March 15, 2021

Permittee: Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Project: Poinciana Parkway Section 1

Application No. 201217-4895

Location: Osceola County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

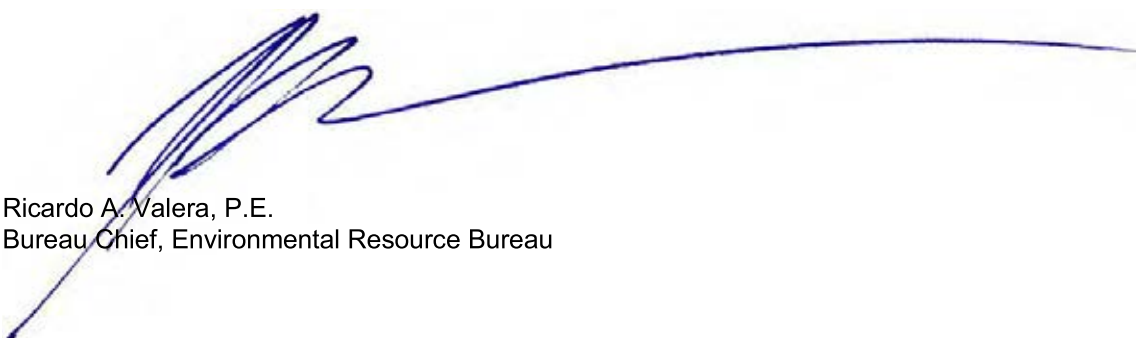
- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's ePermitting site at www.sfwmd.gov/ePermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email epermits@sfwmd.gov.



Ricardo A. Valera, P.E.
Bureau Chief, Environmental Resource Bureau

**South Florida Water Management District
Individual Environmental Resource Permit No. 49-104808-P**

Date Issued: March 15, 2021

Expiration Date: March 15, 2026

Project Name:

Poinciana Parkway Section 1

Permittee:

Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Operating Entity:

Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Location:

Osceola County

Permit Acres:

138.50 acres

Project Land Use:

Roadway

Special Drainage District:

N/A

Water Body Classification:

CLASS III

FDEP Water Body ID:

3170C

Conservation Easement to District:

No

Sovereign Submerged Lands:

No

Project Summary

This Environmental Resource Permit authorizes Construction and Operation of a stormwater management (SWM) system serving 138.50 acres of a transportation project known as Poinciana Parkway Section 1.

This application proposes to widen the existing two-lane roadway configuration to a four-lane typical section within Basins 3-2, 3-3 and 3-4 all within Segment 3 located east of the Osceola/Polk County Line. No changes are proposed to the SWM ponds 3-2, 3-3 or 3-4 or their corresponding control structures that were designed to provide the water quality treatment and attenuation for the ultimate 6-lane configuration prior to discharge from the site and into the Reedy Creek Swamp.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C.

Site Description

The site contains an existing 2-lane roadway and wet detention SWM ponds as permitted in Permit No. 53-00216-P, Application Nos. 141010-12 and 060117-17.

For information on wetland and surface water impacts, please see the Wetlands and Other Surface Water section of this permit.

Ownership, Operation and Maintenance

Perpetual operation and maintenance of the SWM system will be the responsibility of the Central Florida Expressway Authority (CFX). Upon conveyance or division of ownership or control of the property or the system, the permittee must notify the Agency in writing within 30 days, and the new owner must request transfer of the permit.

Engineering Evaluation:**Land Use**

Please refer to the Land Use Data Table and Summary Tables in Exhibit No. 2.2.

Water Quality

The project is located within a watershed identified by the Florida Department of Environmental Protection as impaired for nutrients; therefore, the design includes a site-specific pollutant loading analysis and an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, Volume II, as reasonable assurances that the projects discharge will not cause or contribute to violations of State water quality standards. The project provides 19.95 ac-ft of water quality treatment.

The project includes implementation of a Turbidity and Erosion Control Plan, (Exhibit No. 2.0), as additional reasonable assurance of compliance with water quality criteria during construction and operation.

Water Quantity**Discharge**

The proposed land use is consistent with the land use assumptions made in the design of the master SWM system; therefore, the project discharge has not been limited to a specified rate.

Road Design

As found in the Water Quantity Data Table, minimum road center line elevations have been set at or above the calculated design storm flood elevation.

Flood Plain/Compensating Storage

Since no changes are proposed to the previously authorized master SWM ponds for Basins 3-2, 3-3 and 3-4 (Basins 2, 3 and 4 in previous permits), floodplain impacts and compensating storage will remain as authorized in Permit No. 53-00216-P, Application No. 141010-12.

Certification, Operation, and Maintenance

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1-12.3 of the Applicant's Handbook Volume I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must

perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4 of the Applicant's Handbook Volume I for Minimum Operation and Maintenance Standards.

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Engineering Evaluation Tables:
Land Use

Basin	Land Type	Area (ac)	% of Total Basin
3-2	Impervious	15.01	41.17
	Wet Detention	2.92	8.01
	Pervious	18.53	50.82
	Total:	36.46	100%
3-3	Impervious	11.14	19.40
	Pervious	38.07	66.30
	Wet Detention	8.21	14.30
	Total:	57.42	100%
3-4	Impervious	9.92	22.23
	Pervious	24.09	53.99
	Wet Detention	10.61	23.78
	Total:	44.62	100%

Water Quantity

Basin	Elevation Type	Storm Event (Yr/Day)	Precipitation Depth (in)	Peak Stage (ft NAVD88)	Min. EL (ft NAVD88)
3-2	Road Crown	10YR1D	5.00	70.56	78.40
3-3	Road Crown	10YR1D	5.00	66.69	71.63
3-4	Road Crown	10YR1D	5.00	66.41	70.88

Environmental Evaluation:**Wetlands and Other Surface Waters**

All wetland and other surface water impacts and associated mitigation were approved under Application 060117-17, Permit No. 53-00216-P. The current application does not authorize any additional wetland or other surface water impacts.

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Related Concerns:**Water Use Permit Status**

The applicant has indicated that dewatering is not required for construction of this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Historical/ Archeological Resources

No information has been received that indicates the presence of archaeological or historical resources on the project site or indicating that the project will have any effect upon significant historic properties listed, or eligible for listing in the National Register of Historic Places.

This permit does not release the permittee from complying with any other agencies requirements in the event that historical and/or archaeological resources are found on the site.

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General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013), (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.
5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
 - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as

applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
 - a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from

the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.
2. Operation and maintenance of the stormwater management system shall be the responsibility of the Central Florida Expressway Authority (CFX). The permittee shall notify the Agency in writing within 30 days of any conveyance or division of ownership or control of the property of the system, and the new owner must request transfer of the permit in accordance with Rule 62-330.340, F.A.C.
3. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth.
4. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
5. Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.
6. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary.

The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties.

To schedule a pre-construction meeting, please contact ERB staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: pre-con@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

7. This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.

Project Work Schedule for Permit No. 49-104808-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to both General and Special Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a minor modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 4	03/15/2021	Construction Commencement Notice	Prior to Construction	
GC 6	03/15/2021	Submit Certification	30 Days After Construction Completion	
GC 7	03/15/2021	Submit Operation Transfer Request	Within 30 days of Certification	
SC 6	03/15/2021	Pre-Construction Meeting	Prior to Construction	

GC = General Condition

SC = Special Condition

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Distribution List

Nicole Gough, Dewberry Engineers, Inc

Logan Shappell, DRMP, Inc

Ryne Burkett, DRMP, Inc

Div of Recreation and Park - District 3

Osceola County Engineer

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Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website at <http://my.sfwmd.gov/ePermitting> and searching under this application number 201217-4895 .

[Exhibit No. 1.0 - Location Map](#)

[Exhibit No. 2.0 - Construction Plans](#)

[Exhibit No. 2.1 - Post Development Drainage Basin Map](#)

[Exhibit No. 2.2 - Summary Tables](#)

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NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.
- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.



**South Florida Water Management District
Individual Environmental Resource Permit No. 49-107930-P
Date Issued: August 29, 2023**

Permittee: Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Project: CR 532 Widening (CFX Project 538-235A)

Application No. 220705-35054

Location: Osceola County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's ePermitting site at www.sfwmd.gov/ePermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email epermits@sfwmd.gov.

A handwritten signature in blue ink, appearing to read "M. Lawrence", enclosed within a blue oval.

Melissa M. Lawrence, P.E.
Bureau Chief, Environmental Resource Bureau

**South Florida Water Management District
Individual Environmental Resource Permit No. 49-107930-P**

Date Issued: August 29, 2023 **Expiration Date:** August 29, 2028

Project Name: CR 532 Widening (CFX Project 538-235A)

Permittee: Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Operating Entity: Central Florida Expressway Authority
4974 Orl Tower Road
Orlando, FL 32807

Location: Osceola County
Polk County

Permit Acres: 66.63 acres

Project Land Use: Transportation

Special Drainage District: N/A

Water Body Classification: CLASS III
CLASS III

FDEP Water Body ID: 3170C
3170K

Wetland and Surface Water Impacts: 12.91 acres

Conservation Easement to District: No

Sovereign Submerged Lands: No

Project Summary

This Environmental Resource Permit (ERP) authorizes Construction and Operation of a stormwater management (SWM) system serving 66.63 acres of transportation development known as CR 532 Widening (CFX Project 532-235A).

Construction will add 22.62 acres of new impervious area within a roadway widening project with associated infrastructure. Stormwater runoff is directed to six new wet detention ponds designed to provide water quality treatment and attenuation in accordance with District criteria.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C..

Site Description

The site is the existing roadway right-of-way for County Road 532 (Osceola Polk Line Road), from South Lake Wilson Road to US Highway 17-92 (South Orange Blossom Trail) in Osceola County. Refer to Exhibit No. 1.0 for a location map.

For information on wetland and other surface water (OSW) impacts, please see the Wetlands and OSWs section of this permit.

Ownership and Operation and Maintenance (O&M)

Perpetual O&M of the SWM system will be the responsibility of the Central Florida Expressway Authority. Upon conveyance or division of ownership or control of the property or the system, the permittee must notify the Agency in writing within 30 days, and the new owner must request transfer of the permit.

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Engineering Evaluation:

Land Use

Please refer to Exhibit No. 2.1, Table 4, for land use details.

Water Quality

The project is located within a watershed identified by the Florida Department of Environmental Protection as impaired; therefore, the design includes a site-specific pollutant loading analysis and an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, ERP Applicant's Handbook (AH) Volume (Vol.) II, as reasonable assurances that the projects discharge will not cause or contribute to violations of State water quality standards. The project provides 5.45 ac-ft of water quality treatment.

The project includes implementation of a Turbidity and Erosion Control Plan, (Exhibit No. 2.0), as additional reasonable assurance of compliance with water quality criteria during construction.

Water Quantity

The project drains to the surrounding wetland sloughs with ultimate discharge to Reedy Creek.

Discharge

As found in Exhibit No. 2.1, the SWM design meets the criteria of Section 3.2(a), ERP AH Vol. II based on a pre- vs. post-development analysis.

Road Design

As found in Exhibit No. 2.1, minimum road crown elevations have been set at or above the peak design storm elevation.

Flood Plain/Compensating Storage

The permittee submitted calculations demonstrating that the project will meet the compensating storage requirements of Reedy Creek basin. Refer to Exhibit No. 2.1, Table 11.

Certification and O&M

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification (CCC) of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long-term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the CCC is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1 - 12.3, ERP AH Vol. I and Section 62-330.310, F.A.C., the permittee is liable for O&M in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The O&M entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the O&M entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4, ERP AH Vol. I for Minimum Operation and Maintenance Standards.

Notable project components requiring routine inspection and maintenance include but are not limited to:

- Side slopes for stormwater lakes and ponds – maintain side slopes no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation and nurtured or planted from 2.0 feet below to 1.0 feet above the control elevation pursuant to Section 5.4.2, ERP AH Vol. II.
- Conveyance pipes, conveyance structures and discharge structures – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Exfiltration trenches – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Swales – maintain the permitted cross-section and vegetative cover.
- Underground storage facilities – all facilities must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Pumps – float switches should be inspected and any obstructions removed to ensure proper operation; intake and discharge pipes should be maintained clear of trash, sediment and vegetative debris; motors should be maintained to ensure proper operation.

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Environmental Evaluation:

Wetland and OSW Description

The project site contains sixteen (16) wetlands and thirteen (13) OSW totaling 13.26 acres. Please see Exhibit No. 3.0 for wetland and OSW locations. The wetlands can generally be described as wetland forested mixed and vegetated non-forested wetlands. Additional wetland descriptions are available in the ePermitting file OSWs consist of ponds/ditches/canals.

Wetland and OSW Impacts

The project will result in 11.35 acres of wetland impacts, and 1.56 acres of work in OSW as described in Environmental Data Table. Exhibit No. 3.0 identifies the locations of the wetlands and OSW being impacted.

Secondary Impacts

The project will result in 5.60 acres of secondary impacts.

Elimination and Reduction of Impacts

The ecological value of the functions provided by the area of wetlands being impacted is low, based on a site specific analysis using the factors in Section 10.2.2.3 A.H. of Applicant's Handbook Volume I. The proposed mitigation will provide greater long term ecological value than the area of wetland to be adversely impacted, therefore the criteria of Section 10.2.1 of Applicant's Handbook Volume I have been met.

Mitigation Plan

To mitigate for the wetland and other surface water impacts, the applicant will purchase 3.93 freshwater forested credits from Southport Ranch Mitigation Bank and 1.58 freshwater forested and 0.09 freshwater herbaceous credits from Bullfrog Bay Mitigation Bank. The amount of required mitigation was determined using the Uniform Mitigation Assessment Method in Chapter 62-345, F.A.C. The final scores can be found in the Exhibit No. 3.0.

Cumulative Impact Analysis

The proposed mitigation is located within the same basin as the impacts, therefore pursuant to Section 10.2.8 of ERP AH Vol. I, the project will not result in unacceptable cumulative impacts to the Reedy Creek Basin.

Fish, Wildlife, and Listed Species

The wetlands or OSWs to be impacted provide habitat for wetland-dependent species and is located within the USFWS Consultation Area (CA) for the Everglade snail kite (*Rostrhamus sociabilis plumbeus*), Audubon's crested caracara (*Caracara cheriway*), and the Florida bonneted bat (*Eumops floridanus*).

The site is also within multiple USFWS designated Core Foraging Areas (CFA) for the wood stork (*Mycteria americana*).

Audubon's Crested Caracara (*Caracara cheriway*)

Audubon's crested caracara is listed as threatened by USFWS, and the project is located within the CA for the crested caracara. Although within the CA, no caracara nests have been reported within or adjacent to the project area.

Wood Stork (*Mycteria americana*)

The wood stork is listed as threatened by USFWS. This species colonizes inundated wetlands, and these colonies are dependent on consistent foraging opportunities in wetlands within a CFA of the colony. The project area occurs in multiple CFAs for the wood stork. The technical assistance previously provided and concurred from FWC informed there is potential wood stork foraging areas and habitat within the project area.

Other Listed Wading and Wetland-Dependent Birds

Several additional listed species of wading and wetland dependent birds may potentially utilize the subject project area based on the review, including the sandhill crane (*Grus canadensis*), roseate spoonbill (*Platalea ajaja*), little blue heron (*Egretta caerulea*), tricolored heron (*Egretta tricolor*), and black rail

(*Laterallus jamaicensis*). Protective measures relative to these species are limited to active nesting and/or rookery sites. The wetlands within the project area provide potential habitat. No listed wading and wetland-dependent bird rookeries or nest sites were documented within the project area. Wetlands and other surface waters will be mitigated for, as required. Additionally, an updated protected species survey will be conducted to confirm absence of any protected species prior to construction. Should a nest site be observed, appropriate consultation measures will be incorporated. Therefore, the project is anticipated to have “no adverse effect” on listed wading and wetland-dependent bird species and no additional consultation with FWC or USFWS is anticipated to be required.

This permit does not relieve the permittee from complying with all applicable rules and any other agencies' requirements if, in the future, endangered or threatened species or species of special concern are discovered on the site.

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Environmental Evaluation Tables:

Summary

Wetlands and Other
Surface Waters: 18.51 acres

Direct Impacts: 12.91 acres

Secondary impacts: 5.6 acres

Net UMAM Functional Loss/
Gain: 0 units

Total Onsite Mitigation
Area: 0 acres

Total Offsite Mitigation
Area: 0 acres

Total Mitigation Bank Credits Provided

Mitigation Bank	Type	Total Credits
Bullfrog Bay	FH	0.01
Bullfrog Bay	FF	0.4
Southport Ranch	FF	0.31
Bullfrog Bay	FH	0.07
Southport Ranch	FF	0.8
Bullfrog Bay	FF	0.85
Bullfrog Bay	FH	0.01
Bullfrog Bay	O	0.02
Bullfrog Bay	FF	0.12
Southport Ranch	FF	1.65
Bullfrog Bay	FF	0.03
Southport Ranch	FF	0.17
Bullfrog Bay	FF	0.18
Southport Ranch	FF	0.96
Total:		5.58

Wetland Direct Impacts

Activities in Wetlands or Other Surface Waters, With Mitigation at a Bank

ID	Acres	Community Description	Bank Name	Method	Current Score	With Score	Ratio or Add'l factor	Minimum Credits Needed
W1	0.02	Vegetated Non-Forested Wetlands	Bullfrog Bay	UMAM	0.37	0	1	0.01
W2	0.86	Wetland Forested Mixed	Bullfrog Bay	UMAM	0.47	0	1	0.4
W3	0.11	Wetland Forested Mixed	Bullfrog Bay	UMAM	0.47	0	1	0.05
W5A	0.55	Wetland Forested Mixed	Bullfrog Bay	UMAM	0.47	0	1	0.26
WXA	0.56	Vegetated Non-Forested Wetlands	Bullfrog Bay	UMAM	0.133	0	1	0.07

W5B	1.71	Wetland Forested Mixed	Bullfrog Bay	UMAM	0.47	0	1	0.8
W6	1.81	Wetland Forested Mixed	Bullfrog Bay	UMAM	0.47	0	1	0.85
W7	0.26	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0	1	0.12
W8	2.9	Wetland Forested Mixed	Southport Ranch	UMAM	0.57	0	1	1.65
W9	0.08	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.03
W10	0.01	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0
W11	0.45	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.17
W12	0.49	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.18
WXB	0.49	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.18
W13	0.34	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.13
W14	0.33	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.12
W15	0.34	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.13
W16	0.04	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0	1	0.01
Total: 11.35								

Wetland Secondary Impacts

Activities in Wetlands or Other Surface Waters, With Mitigation at a Bank

ID	Acres	Community Description	Bank Name	Method	Current Score	With Score	Ratio or Add'l factor	Minimum Credits Needed
W1	0.09	Vegetated Non-Forested Wetlands	Bullfrog Bay	UMAM	0.37	0.3	1	0.01
W2	0.26	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0.02
W3	0.15	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0.01
W5A	0.39	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0.03
W5B	0.39	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0.03
W6	0.16	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0.01
W7	0.06	Wetland Forested Mixed	Southport Ranch	UMAM	0.47	0.4	1	0
W8	0.54	Wetland Forested Mixed	Southport Ranch	UMAM	0.57	0.5	1	0.04

W9	0.26	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.02
W10	0.06	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0
W11	0.6	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.04
W12	0.52	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.04
WXB	0.5	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.04
W13	0.61	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.04
W14	0.43	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.03
W15	0.47	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.03
W16	0.11	Wetland Forested Mixed	Southport Ranch	UMAM	0.37	0.3	1	0.01
Total:		5.6						

OSW Impacts

Activities in Wetlands or Other Surface Waters, Not Including Mitigation at a Bank

ID	Acres	Action	Community Description	Current Score	With Project Score	UMAM Loss
OSW1	0.33	Direct Impact	Ditches and Canals			0.000
OSW2	0.15	Direct Impact	Ditches and Canals			0.000
OSW3	0.14	Direct Impact	Ditches and Canals			0.000
OSW4	0.1	Direct Impact	Ditches and Canals			0.000
OSW5	0.12	Direct Impact	Ditches and Canals			0.000
OSW6	0.16	Direct Impact	Ditches and Canals			0.000
OSW7	0.03	Direct Impact	Ditches and Canals			0.000
OSW8	0.03	Direct Impact	Ditches and Canals			0.000
OSW9	0.11	Direct Impact	Ditches and Canals			0.000
OSW10	0.05	Direct Impact	Ditches and Canals			0.000
OSW11	0.14	Direct Impact	Ditches and Canals			0.000
OSW12	0.05	Direct Impact	Ditches and Canals			0.000
Total:	1.41					0.000

Activities in Wetlands or Other Surface Waters, With Mitigation at a Bank

ID	Acres	Community Description	Bank Name	Method	Current Score	With Score	Ratio or Add'l factor	Minimum Credits Needed
SW1	0.15	Reservoirs	Bullfrog Bay	UMAM	0.133	0	1	0.02
Total:		0.15						

Related Concerns:**Water Use Permit Status**

The permittee has indicated that irrigation is not required for construction of this project.

The permittee has indicated that dewatering is required for construction of this project. Prior to construction a Water Use Application shall be submitted in accordance with Special Condition 9.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Historical/ Archaeological Resources

No information has been received that indicates the presence of archaeological or historical resources on the project site or indicating that the project will have any effect upon significant historic properties listed, or eligible for listing in the National Register of Historic Places.

This permit does not release the permittee from complying with any other agencies requirements in the event that historical and/or archaeological resources are found on the site.

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General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013), (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.
5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
 - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed

restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

b. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
 - a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and

sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.
2. Operation and maintenance of the stormwater management system shall be the responsibility of the Central Florida Expressway Authority. The permittee shall notify the Agency in writing within 30 days of any conveyance or division of ownership or control of the property of the system, and the new owner must request transfer of the permit in accordance with Rule 62-330.340, F.A.C.
3. Prior to the commencement of construction and pursuant to Section 4.2.3(d)(3) of Applicant's Handbook Volume I, the permittee shall demonstrate ownership of the project area to the District's Environmental Resource Compliance staff.
4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth.
5. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
6. Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.
7. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERB staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: precon@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.
8. This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.
9. Prior to commencement of construction, a Consumptive Use permit for dewatering shall be obtained or demonstration that the work qualifies for the permit by rule under Rule 40E-2.061, F.A.C. shall be provided.

10. Prior to commencement of construction, and in accordance with the work schedule herein, the permittee shall submit documentation from Southport Ranch Mitigation Bank that 3.93 forested credits for this project have been paid for in full and deducted from the Southport Ranch Mitigation Bank 's ledger.
11. Prior to commencement of construction, and in accordance with the work schedule herein, the permittee shall submit documentation from Bullfrog Bay Mitigation Bank that 1.58 forested 0.09 herbaceous credits for this project have been paid for in full and deducted from the Bullfrog Bay Mitigation Bank 's ledger.

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Project Work Schedule for Permit No. 49-107930-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to General Conditions, Special Conditions and/or Specific Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 4	08/29/2023	Construction Commencement Notice	Prior to Construction	
GC 6	08/29/2023	Submit Certification	30 Days After Construction Completion	
GC 7	08/29/2023	Submit Operation Transfer Request	Within 30 days of Certification	
SC 3	08/29/2023	Submit Proof of Ownership	Prior to Construction	
SC 7	08/29/2023	Pre-Construction Meeting	Prior to Construction	
SC 9	08/29/2023	Obtain a Water Use Permit for Dewatering	Prior to Construction	
SC 10	08/29/2023	Submit Mitigation Bank Ledger Documentation - Southport Ranch	09/28/2023	
SC 11	08/29/2023	Submit Mitigation Bank Ledger Documentation - Bullfrog Bay	09/28/2023	

GC = General Condition

SC = Special Condition

Distribution List

Glenn Pressimone, Central Florida Expressway Authority

Fred Burkett, Kimley-Horn & Associates Inc.

Div of Recreation and Park - District 3

US Army Corps of Engineers - Permit Section

Osceola County Engineer

Polk County Engineer

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Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website at <http://my.sfwmd.gov/ePermitting> and searching under this application number 220705-35054.

[Exhibit No. 1.0 Location Map](#)

[Exhibit No. 2.0 SWM Plans](#)

[Exhibit No. 3.0 Environmental Plans](#)

[Exhibit No. 3.1 Credit Reservation Letters](#)

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NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.



South Florida Water Management District
Individual Environmental Resource Permit No. 53-108040-P
Date Issued: February 1, 2023
Modified On: March 9, 2023

Permittee: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Project: Fox Run (NKA Vistamar Village)

Application No. 230301-37777

Location: Polk County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's ePermitting site at www.sfwmd.gov/ePermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email epermits@sfwmd.gov.

A handwritten signature in blue ink that reads "Elizabeth Veguilla". The signature is written in a cursive, flowing style.

Elizabeth Veguilla
Regulatory Specialist Supervisor

**South Florida Water Management District
Individual Environmental Resource Permit No. 53-108040-P**

Date Issued: February 1, 2023

Expiration Date: February 1, 2028

Modified On: March 9, 2023

Project Name: Fox Run (NKA Vistamar Village)

Permittee: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Operating Entity: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Location: Polk County

Permit Acres: 147.50 acres

Project Land Use: Residential

Special Drainage District: N/A

Water Body Classification: III

FDEP Water Body ID: 3170C

Conservation Easement to District: No

Sovereign Submerged Lands: No

Project Summary

This Environmental Resource Permit authorizes Construction and Operation of a stormwater management (SWM) system serving 21.21 acres of residential development known as Fox Run.

The project consists of modification of the control structures in previously permitted Ponds 5 and 6 within Basins 5 and 6 of the Fox Run development, respectively. No additional modifications on Basins 5 and 6 are proposed. The SWM system has been designed to provide water quality treatment and attenuation in accordance with District's criteria.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C.

Site Description

The site is located northeast of Kinney Harmon Road and southeast of Orange Blossom Trail in Polk County, Florida. Refer to Exhibit No.1.0 for a Location Map.

For information on wetland and surface water impacts, please see the Wetlands and Other Surface Water section of this permit.

Background

On February 17, 2017, the District authorized construction and operation of a stormwater management system serving 70.58 acres of residential development within a 147.11 acre parcel for a project known as Fox Run under Permit No. 53-00323-P, Application No. 160523-4.

Current Authorization (Application No. 230301-37777)

A permit transfer to the operating entity, the Vistamar Village Homeowners Association Inc., is issued as requested. As a condition of transfer, the operating entity has agreed to be perpetually bound by all terms and conditions of the permit, including all compliance requirements. Authorization for future works related to the permitted SWM system must be applied for and obtained prior to conducting such activities.

Ownership, Operation and Maintenance

Perpetual operation and maintenance of the SWM system is the responsibility of the Vistamar Village Homeowners Association Inc. as indicated in the recorded governing documents (Refer to Exhibit 4.0). A request for transfer to the operating entity and recorded copies of its governing documents have been submitted in accordance with General Condition No. 7.

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Engineering Evaluation:

Land Use

Refer to the Land Use Table.

Water Quality

The project is located within a watershed identified by the Florida Department of Environmental Protection as impaired for nutrients; therefore, the design includes a site-specific pollutant loading analysis and an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, Volume II, as reasonable assurances that the projects discharge will not cause or contribute to violations of State water quality standards. The existing Ponds 5 and 6 will provide 1.95 ac-ft and 1.28 ac-ft of water quality treatment, respectively.

Water Quantity

Discharge

The applicant has provided calculations to demonstrate that the peak discharge rate for the combined Basins 1-6 for the 25-year / 24-hour design event (36.90 cfs) is less than the allowable discharge (44.47 cfs) established in the original permit.

Road Design

As shown on Pages 3 and 4 of Exhibit No. 2.0, minimum road center line elevations have been set at or above the calculated design storm flood elevation.

Finished Floors

As shown on Pages 3 and 4 of Exhibit No. 2.0, minimum finished floor elevations have been set at or above the calculated design storm flood elevation.

Flood Plain/Compensating Storage

The works proposed in this application will not result in any additional floodplain impacts.

Certification, Operation, and Maintenance

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1 - 12.3, ERP AH Vol. I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4, ERP AH Vol. I for Minimum Operation and Maintenance Standards.

Notable project components requiring routine inspection and maintenance may include but are not limited to:

- Side slopes for stormwater lakes and ponds – maintain side slopes no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation and nurtured or planted from 2.0 feet below to 1.0 feet above the control elevation pursuant to Section 5.4.2, ERP AH Vol. II.
- Conveyance pipes, conveyance structures and discharge structures – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Exfiltration trenches – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Swales – maintain the permitted cross-section and vegetative cover.
- Underground storage facilities – all facilities must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Pumps – float switches should be inspected and any obstructions removed to ensure proper operation; intake and discharge pipes should be maintained clear of trash, sediment and vegetative debris; motors should be maintained to ensure proper operation.

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Engineering Evaluation Tables:

Land Use

Basin	Land Type	Area (ac)	% of Total Basin
BASIN 5	Building Coverage	3.82	32.79
	Impervious	1.83	15.71
	Wet Detention	0.89	7.64
	Pervious	5.11	43.86
	Sub-Total:	11.65	100%
BASIN 6	Building Coverage	3.20	33.47
	Impervious	1.28	13.39
	Wet Detention	1.00	10.46
	Pervious	4.08	42.68
	Sub-Total:	9.56	100%
	Total:	21.21	acres

Water Quality

Basin	Treatment Type	Treatment System	Volume Required (ac-ft)	Volume Provided (ac-ft)	Area (ac)	Overflow Elevation (ft NGVD29)
BASIN 5	Treatment	WET DETENTION	1.46	1.95	0.89	75.61
BASIN 6	Treatment	WET DETENTION	1.20	1.28	1.00	69.81

Bleeder

Basin	Control EL (ft NGVD29)	Structure #	Structure Type	Count	Type	Dia.(in)	Invert EL (ft NGVD29)	Receiving Body
BASIN 5	73.58	CS-05	Water Quality	1	Circular Orifice	3.00	73.58	Reedy Creek via Wetland System
BASIN 6	68.60	CS-06	Water Quality	1	Circular Orifice	3.00	68.60	Reedy Creek via Wetland System

Inlets

Basin	Control EL (ft NGVD29)	Structure #	Structure Type	Count	Type	Length (in)	Width (in)	Crest EL (ft NGVD29)	Receiving Body
BASIN 5	73.58	CS-05	Discharge	1	FDOT MOD H DROP INLET	36.0	79.0	75.61	Reedy Creek via Wetland System
BASIN 6	68.60	CS-06	Discharge	1	DROP INLET	36.0	79.0	69.81	Reedy Creek via Wetland System

Culvert

Basin	Control EL (ft NGVD29)	Structure #	Structure Type	Count	Dia.(in)	Length (ft)	Invert EL (ft NGVD29)	Material	Receiving Body
BASIN 5	73.58	CS-05	Discharge	1	36.00	675.0	67.50	Reinforced Concrete Pipe	Reedy Creek via Wetland System
BASIN 6	68.60	CS-06	Discharge	1	36.00	58.0	63.00	Reinforced Concrete Pipe	Reedy Creek via Wetland System

Environmental Evaluation:

Wetlands and Other Surface Waters

There are no wetlands or other surface waters located within the project site or affected by this project.

Wetland impacts the associated mitigation were authorized under Permit No. 53-00323-P.

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Related Concerns:**Water Use Permit Status**

The applicant has indicated that Polk County Utilities will be used as a source for irrigation water for the project.

The applicant has indicated that dewatering is not required for construction of this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Water and Wastewater Service

Polk County Utilities

Historical/ Archeological Resources

No information has been received that indicates the presence of archaeological or historical resources on the project site or indicating that the project will have any effect upon significant historic properties listed, or eligible for listing in the National Register of Historic Places.

This permit does not release the permittee from complying with any other agencies requirements in the event that historical and/or archaeological resources are found on the site.

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General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, Florida Administrative Code (F.A.C.). Any deviations that are not so authorized shall subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual" (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the "Florida Stormwater Erosion and Sedimentation Control Inspector's Manual" (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice" indicating the expected start and completion dates. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Applicant's Handbook Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 - b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
 - a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause

violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.
2. Operation and maintenance of the stormwater management system shall be the responsibility of the Vistamar Villages Homeowners Association Inc. Upon completion of construction and in conjunction with submittal of the as-built certification, a request for transfer to the operating entity with supporting documentation must be submitted in accordance with General Condition No. 7.
3. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth.
4. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
5. Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.
6. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERB staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: precon@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.
7. This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the Florida Administrative Code for definitions of "take" and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a "take" permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.

Project Work Schedule for Permit No. 53-108040-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to General Conditions, Special Conditions and/or Specific Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 6	03/09/2023	Submit Certification	03/17/2023	02/17/2023
GC 7	03/09/2023	Submit Operation Transfer Request	03/19/2023	03/01/2023

GC = General Condition

SC = Special Condition

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Distribution List

James Askey, Askey Hughey Inc

Frank Engel, PCLP Florida Developments, LLC

Frank Engel, Vistamar Villages Homeowners Association Inc

Div of Recreation and Park - District 3

US Army Corps of Engineers - Permit Section

Polk County Engineer

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Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website at <http://my.sfwmd.gov/ePermitting> and searching under this application number 230301-37777.

[Exhibit No. 1.0 Location Map](#)

[Exhibit No. 2.0 SWM Plans](#)

[Exhibit No. 4.0 Recorded Declaration of Covenants](#)

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NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.



South Florida Water Management District
Individual Environmental Resource Permit No. 53-00323-P
Date Issued: February 17, 2017
Modified On: March 10, 2023

Permittee: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Project: Fox Run (NKA Vistamar Villages)

Application No. 230301-37776

Location: Polk County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's ePermitting site at www.sfwmd.gov/ePermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email permits@sfwmd.gov.

A handwritten signature in blue ink that reads "Elizabeth Veguilla".

Elizabeth Veguilla
Regulatory Specialist Supervisor

**South Florida Water Management District
Individual Environmental Resource Permit No. 53-00323-P**

Date Issued: February 17, 2017

Expiration Date: February 17, 2022

Modified On: March 10, 2023

Project Name: Fox Run (NKA Vistamar Villages)

Permittee: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Operating Entity: Vistamar Village Homeowners Association Inc.
10339 Kensington Shore Dr Unit 102
Orlando, FL 32827

Location: Polk County

Permit Acres: 147.11 acres

Project Land Use: Residential

Special Drainage District: N/A

Water Body Classification: 3F

FDEP Water Body ID: 3170C

Conservation Easement to District: No

Sovereign Submerged Lands: No

Project Summary

Construction and operation of a stormwater management (SWM) system serving 70.58 acres of residential development within a 147.11 acre parcel for a project known as Fox Run.

Proposed is a new residential development to be served by a storm water management system consisting of six interconnected wet detention ponds. Water quality-treatment and discharge rate attenuation for the residential development will be provided in Pond Nos. 4 , 5 & 6, while Pond Nos.1, 2 & 3 are designed to provide only discharge rate attenuation prior to discharge through the Pond 4 and 6 control structures into Reedy Creek, via the western ditch wetland system.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062 Florida Administrative Code (F.A.C.).

Project Site Description

The site is located northeast of Kinney Harmon Road and southeast of Orange Blossom Trail in Polk County, Florida. Refer to Exhibit 1 for a location map.

There are no permitted water management facilities within the project area. The site contains undeveloped lightly wooded uplands, low lying marshs and wooded wetlands.

For information on the wetlands and surface waters within the project, please refer to the Wetlands and Surface Waters section of this staff report.

Current Authorization (Application No. 230301-37776)

A permit transfer to the operating entity, the Vistamar Village Homeowners Association Inc., is issued as requested. As a condition of transfer, the operating entity has agreed to be perpetually bound by all terms and conditions of the permit, including all compliance requirements. Authorization for future works related to the permitted SWM system must be applied for and obtained prior to conducting such activities.

Permit Modification History

Please see Application No. 160523-4 for a list of authorizations that constitute this permit.

Ownership, Operation and Maintenance

Perpetual operation and maintenance of the SWM system is the responsibility of the Vistamar Village Homeowners Association Inc. as indicated in the recorded governing documents (Refer to Exhibit 4.0). A request for transfer to the operating entity and recorded copies of its governing documents have been submitted in accordance with General Condition No. 7.

Certification, Operation, and Maintenance

Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long-term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1 - 12.3, ERP AH Vol. I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4, ERP AH Vol. I for Minimum Operation and Maintenance Standards.

Notable project components requiring routine inspection and maintenance may include but are not limited to:

- Side slopes for stormwater lakes and ponds – maintain side slopes no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation and nurtured or planted from 2.0 feet below to 1.0 feet above the control elevation pursuant to Section 5.4.2, ERP AH Vol. II.
- Conveyance pipes, conveyance structures and discharge structures – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Exfiltration trenches – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.
- Swales – maintain the permitted cross-section and vegetative cover.
- Underground storage facilities – all facilities must be inspected for structural integrity and be maintained

clear of trash, sediment and vegetative debris.

- Pumps – float switches should be inspected, and any obstructions removed to ensure proper operation; intake and discharge pipes should be maintained clear of trash, sediment and vegetative debris; motors should be maintained to ensure proper operation.

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Engineering Evaluation:

Please see Application No. 160523-4 for a list of authorizations that constitute this permit.

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Environmental Evaluation:

Please see Application No. 160523-4 for a list of authorizations that constitute this permit.

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Related Concerns:**Third Party Interest**

No third party has contacted the District with concerns about this application.

Water Use Permit Status

The applicant has indicated that Polk County Utilities reclaimed water will be used as a source for irrigation water for the project. The applicant has indicated that dewatering is required for construction of this project. Water Use Permit No. 53-00314-W was processed concurrently with Application No. 160523-4 and expired February 13, 2019. This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Waste Water System/Supplier

Polk County Utilities

Right-Of-Way Permit Status

A District Right-of-Way Permit is not required for this project.

CERP

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier

Polk County Utilities

Historical/Archeological Resources

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that no significant archaeological or historical resources are recorded in the project area and the project is therefore unlikely to have an effect upon any such properties.

Enforcement

There has been no enforcement activity associated with this application.

DEO/CZM Consistency Review

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, Florida Administrative Code (F.A.C.). Any deviations that are not so authorized shall subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.
2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the "State of Florida Erosion and Sediment Control Designer and Reviewer Manual" (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the "Florida Stormwater Erosion and Sedimentation Control Inspector's Manual" (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice" indicating the expected start and completion dates. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
5. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 - a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
 - b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 - c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
7. If the final operation and maintenance entity is a third party:
 - a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Applicant's Handbook Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 - b. Within 30 days of submittal of the as- built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
9. This permit does not:
 - a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - b. Convey to the permittee or create in the permittee any interest in real property;
 - c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
12. The permittee shall notify the Agency in writing:
 - a. Immediately if any previously submitted information is discovered to be inaccurate; and
 - b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
14. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause

violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

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Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.
2. Operation and maintenance of the SWM system and conservation areas shall be the responsibility of the Vistamar Village Homeowners Association Inc. Upon completion of construction and in conjunction with submittal of the as-built certification, a request for transfer to the operating entity with supporting documentation must be submitted in accordance with General Condition No. 7.
3. Discharge Facilities: As shown on Pages 9-11 of Exhibit 2.
4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.
5. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
6. The following are exhibits to this permit. Exhibits noted as incorporated by reference are available on the District's ePermitting website (<http://my.sfwmd.gov/ePermitting>) under Application No. 160523-4.
 - Exhibit No. 1 Location Map
 - Exhibit No. 2 Plans, Pages 1 - 25
 - Exhibit No. 3 Environmental, Pages 1-17
 - Exhibit No. 4 Post Development Basin Map, Page 1
 - Exhibit No. 5 Summary of Peak Discharges and Stages, Page 1
 - Exhibit No. 6 Water Quality, Pages 1-4
 - Exhibit No. 7 Flood Plain, Page 1-4
7. Prior to initiating construction activities associated with this Environmental Resource Permit (ERP), the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Compliance (ERC) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERC staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: pre-con@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.
8. Minimum building floor elevation: As shown in Exhibit 2 Pages 16 & 17.
9. Minimum road crown elevation: As shown in Exhibit 2, Pages 16 & 17.
10. Flood plain compensation storage for this phase of construction shall be constructed and operational prior to the placement of any fill between the average wet season water table elevation and the 100 year

flood elevation that would adversely affect the rights of others.

11. Prior to any future construction, the permittee shall apply for and receive a permit modification. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.
12. Permanent physical markers designating the preserve status of the wetland preservation areas and buffer zones shall be placed at the intersection of the buffer and each lot line. These markers shall be maintained in perpetuity.
13. Prior to 15-apr-2017 and prior to the commencement of construction, whichever occurs first, the permittee shall submit the following via ePermitting or to the Environmental Compliance staff at the local District office:
 - One certified copy of the recorded conservation easement document including exhibits.
 - A CD or DVD containing the easement data in a digital ESRI Geodatabase (mdb), ESRI Shapefile (shp) or AutoCAD Drawing Interchange (dxf) file format using Florida State Plane coordinate system, East Zone (3601), Datum NAD83, HARN with the map units in feet.
 - A map depicting the Conservation Easement over the best available satellite or aerial imagery.
 - Form 1001 ERP REG: Title, Possession, and Lien Affidavit, fully executed by the owner and notarized.The recorded easement shall utilize the form attached as Exhibit No. 3. This Exhibit may not be modified. The easement must be free of mortgages, liens, easements or other encumbrances or interests in the easement which District staff states are contrary to the intent of the easement. In the event it is later determined that there are encumbrances or interests in the easement which the District determines are contrary to the intent of the easement, the permittee shall be required to provide release or subordination of such encumbrances or interests.
14. A maintenance program shall be implemented in accordance with Exhibit No. 3 for the preserved wetland on a regular basis to ensure the integrity and viability of those areas as permitted. Maintenance shall be conducted in perpetuity to ensure that the conservation areas are maintained free from Category 1 exotic vegetation (as defined by the Florida Exotic Pest Plant Council at the time of permit issuance) immediately following a maintenance activity. Maintenance in perpetuity shall also insure that conservation areas, including buffers, maintain the species and coverage of native, desirable vegetation specified in the permit. Coverage nuisance plant species shall not exceed 10% of total cover between maintenance activities. Coverage of exotic plant species shall not exceed 5% of total cover between maintenance activities. In addition, the permittee shall manage the conservation areas such that exotic/ nuisance plant species do not dominate any one section of those areas.
15. Activities associated with the implementation of the mitigation, monitoring and maintenance plan(s) shall be completed in accordance with the work schedule attached as Exhibit No. 3. Any deviation from these time frames must be coordinated with the District's Environmental Resource Compliance staff, and may require a minor modification to this permit. Such requests must be made in writing and shall include (1) reason for the change, (2) proposed start/finish and/or completion dates; and (3) progress report on the status of the project development or mitigation effort.
16. If monitoring reports or other information show the preserved wetlands have been negatively affected by the permitted development in a manner that is irreversible (such as impounding the wetland and drowning the existing vegetation or a reduction in the hydroperiod resulting in the transition of wetlands into upland/transitional habitat), the permittee shall be required to submit a remediation plan within 30 days of notification by the District's Environmental Resource Compliance staff of such conditions. The

remediation plan may include onsite or offsite mitigation as necessary to address any deficiencies.

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Project Work Schedule for Permit No. 53-00323-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to General Conditions, Special Conditions and/or Specific Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 6	02/17/2017	Certification (160523-4)	02/17/2018	02/14/2023
SC 0	02/17/2017	Fox Run Submit Recorded Conservation Easement (160523-4)	04/15/2017	06/16/2017
SC 0	02/17/2017	Fox Run Submit Baseline Monitoring Report (160523-4)	04/15/2017	08/03/2017
SC 0	02/17/2017	Fox Run Submit First Monitoring Report (160523-4)	10/30/2017	02/06/2018
SC 0	02/17/2017	Fox Run Submit Second Monitoring Report (160523-4)	10/30/2018	12/21/2018
SC 0	02/17/2017	Fox Run Submit Third Monitoring Report (160523-4)	10/30/2019	04/30/2020
SC 0	02/17/2017	Fox Run Submit Fourth Monitoring Report (160523-4)	10/30/2020	04/01/2022
SC 0	02/17/2017	Fox Run Submit Fifth Monitoring Report (160523-4)	10/30/2021	04/01/2022
SC 2	02/17/2017	Oper Poa (160523-4)	02/17/2018	02/15/2023

GC = General Condition

SC = Special Condition

Distribution List

Don Hughey, Askey Hughey, Inc

Clark Modica, Modica and Associates

Jean Marsan, Polk County Land Partners LLC

Frank Engel, PCLP Florida Developments, LLC

Div of Recreation and Park - District 3

US Army Corps of Engineers - Permit Section

Polk County Engineer

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Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website at <http://my.sfwmd.gov/ePermitting> and searching under this application number 230301-37776.

[Exhibit No. 1.0 Location Map](#)

[Exhibit No. 4.0 Recorded Declaration of Covenants](#)

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NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

An Equal
Opportunity
Employer

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

February 18, 2015

Polk County Board of County Commissioners
Attn: Jay M. Jarvis, P.E.
3000 Sheffield Road
Winter Haven, FL 33880

Subject: **Notice of Intended Agency Action - Approval
ERP Individual Construction Major Modification**

Project Name: Ernie Caldwell Boulevard Section 2B and Section 3
App ID/Permit No: 696330 / 43032513.006
County: POLK
Sec/Twp/Rge: S15/T26S/R27E, S22/T26S/R27E, S23/T26S/R27E,
S16/T26S/R27E, S26/T26S/R27E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at <http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx> and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: U. S. Army Corps of Engineers
Bang Nguyen
Philip J. Menke, P.E., Parsons Brinckerhoff, Inc.



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Sec/Twp/Rge: S15/T26S/R27E, S22/T26S/R27E, S23/T26S/R27E,
S16/T26S/R27E, S26/T26S/R27E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Permit w/Conditions Attached
 [As-Built Certification and Request for Conversion to Operation Phase](#)
 Notice of Authorization to Commence Construction
 Notice of Rights
cc: U. S. Army Corps of Engineers
 Bang Nguyen
 Philip J. Menke, P.E., Parsons Brinckerhoff, Inc.

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**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
INDIVIDUAL CONSTRUCTION MAJOR MODIFICATION
PERMIT NO. 43032513.006**

EXPIRATION DATE: February 18, 2020

PERMIT ISSUE DATE: February 18, 2015

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Ernie Caldwell Boulevard Section 2B and Section 3

GRANTED TO: Polk County Board of County Commissioners
Attn: Jay M. Jarvis, P.E.
3000 Sheffield Road
Winter Haven, FL 33880

OTHER PERMITTEES: N/A

ABSTRACT: This permit authorization is for the modification of two previously permitted stormwater management systems (ERP Nos. 43032513.001 and 43032513.002), serving a roadway project, as named above and as shown on the approved construction drawings. This permit authorization will also amend and replace all construction activities previously permitted under ERP No. 43032513.002. ERP No. 43032513.001, entitled Ernie Caldwell Boulevard Section 2, included approximately 2.92 miles of new roadway and seven stormwater ponds (Pond Nos. 100 through 700). To date, only Pond Nos. 100 through 600 and approximately 1.96 miles of roadway leading up to Pine Tree Trail (a.k.a. Section 2A) have been constructed and transferred to the operation phase. ERP No. 43032513.002, entitled Ernie Caldwell Section 3, included approximately 1.34 miles of new roadway and three stormwater ponds (Pond Nos. 900, 1000, and 1100), of which nothing was ever constructed. Under this permit authorization, the remaining portions of Section 2 (a.k.a. Section 2B) will be built, with the proposed activities including the construction of all roadway served by existing Pond No. 600 and the construction of Pond No. 700 and all roadway within its contributing drainage basin. These activities will be combined with the construction of the proposed roadway and stormwater management system associated with the revised design of Section 3 of Ernie Caldwell Boulevard, effectively completing the work authorized under the two previous permits. The previously permitted floodplain compensation area associated with Section 3 will also be removed, and all compensation for any impacts associated with this section of Ernie Caldwell Boulevard will be provided in adjacent Mitigation Areas "C", "D", and "F". Additional information regarding the stormwater management system, 100-year floodplain, wetlands, and/or surface waters is stated below and on the permitted construction drawings for the project. No additional improvements are proposed or authorized under this permit modification. No adverse on-site/off-site water quantity or quality impacts are expected. The project site is located in Northeast Polk County, stretching approximately 2.41 miles from Pine Tree Trail to U.S. Highway 17-92.

OP. & MAIN. ENTITY: Polk County Board of County Commissioners

OTHER OP. & MAIN. ENTITY: N/A

COUNTY: POLK

SEC/TWP/RGE: S15/T26S/R27E, S22/T26S/R27E, S23/T26S/R27E, S16/T26S/R27E,
S26/T26S/R27E

TOTAL ACRES OWNED OR UNDER CONTROL:	74.88
PROJECT SIZE:	74.88 Acres
LAND USE:	Road Projects
DATE APPLICATION FILED:	May 06, 2014
AMENDED DATE:	N/A

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I. Water Quantity/Quality

POND No.	Area Acres @ Top of Bank	Treatment Type
700	1.58	MAN-MADE WET DETENTION
900	1.53	MAN-MADE WET DETENTION
1000	2.11	MAN-MADE WET DETENTION
1100	2.35	MAN-MADE WET DETENTION
	Total: 7.57	

Water Quantity/Quality Comments: The design of Pond No. 700 (from ERP No. 43032513.001) and Pond Nos. 1000 and 1100 (from ERP No. 43032513.002) remain unchanged from their previously permitted designs.

A mixing zone is not required.

A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
15.58	15.58	Storage Modeling	N/A

Floodplain Comments: The proposed project will result in 15.58 acre-feet of floodplain encroachment. The Engineer of Record utilized Storage Modeling to demonstrate that these impacts have been compensated for. Impacts associated with Section 2B of the project were identified and previously compensated for in Floodplain Compensation Site Nos. 1 and 2, permitted and constructed under ERP No. 43032513.001. The previously permitted floodplain compensation areas associated with Section 3 have been removed and compensation for all impacts associated with Section 3 will be accomplished in adjacent Mitigation Areas "C", "D", and "F".

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Name	Total Acres	Not Impacted Acres	Permanent Impacts		Temporary Impacts	
			Acres	Functional Loss*	Acres	Functional Loss*
15A	0.64	0.00	0.64	0.45	0.00	0.00
15A Offsite	0.21	0.00	0.00	0.00	0.21	0.02
15C	0.59	0.00	0.59	0.41	0.00	0.00
15C Offsite	0.18	0.00	0.00	0.00	0.18	0.02
15D	7.72	0.00	7.72	5.64	0.00	0.00
15D Offsite	2.14	0.00	0.00	0.00	2.14	0.21
15F	0.56	0.00	0.56	0.35	0.00	0.00
15F Offsite	0.09	0.00	0.00	0.00	0.09	0.01
15F-1	0.12	0.00	0.12	0.08	0.00	0.00
15F-1 Offsite	0.12	0.00	0.00	0.00	0.12	0.01
15-I	1.94	0.00	1.94	1.42	0.00	0.00
15-II	0.90	0.00	0.90	0.66	0.00	0.00
15-II Offsite	0.24	0.00	0.00	0.00	0.24	0.02
15-J	0.01	0.00	0.01	0.01	0.00	0.00
15-J Offsite	0.07	0.00	0.00	0.00	0.07	0.01
15K-(1)	2.23	0.00	2.23	1.63	0.00	0.00
15K-(1) Offsite	0.54	0.00	0.00	0.00	0.54	0.05
15K-(2)	0.18	0.00	0.18	0.13	0.00	0.00
15K-(2) Offsite	1.23	0.00	0.00	0.00	1.23	0.12
15K-(3)	0.57	0.00	0.57	0.23	0.00	0.00
15K-(3) Offsite	0.23	0.00	0.00	0.00	0.23	0.02
15K-(4) Forested	2.67	0.00	2.67	1.95	0.00	0.00
15K-(4) Forested Offsite	0.63	0.00	0.00	0.00	0.63	0.06
15K-(4) Herbaceous	5.14	0.00	5.14	4.11	0.00	0.00
15K-(4) Herbaceous Offsite	1.20	0.00	0.00	0.00	1.20	0.12
15-L	0.20	0.00	0.20	0.15	0.00	0.00
15-L Offsite	0.11	0.00	0.00	0.00	0.11	0.01
26-A	0.63	0.00	0.63	0.36	0.00	0.00
Total:	31.09	0.00	24.10	17.58	6.99	0.68

* For impacts that do not require mitigation, their functional loss is not included.

Wetland/Other Surface Water Comments:

There are 24.10 acres of wetlands (FLUCCS 630 and 641) located within the project area for this ERP modification. Permanent filling impacts to 24.10 acres of wetlands will occur for the construction of the roadway project. Secondary impacts to 6.99 acres of offsite wetlands will also occur with this linear project. Permanent filling and secondary impacts to 31.09 acres of qualifying wetlands were evaluated using the Uniform Mitigation Assessment Method (UMAM) as required pursuant to Chapter 62-345, F.A.C. The results of the UMAM analysis indicate a functional loss of 18.26 units (10.63 forested units and 7.63 herbaceous units) due to the impacts proposed for Sections 2B and 3 of this roadway project.

Mitigation Information

Name	Creation		Enhancement		Preservation		Restoration		Enhancement +Preservation		Other	
	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain
Reedy Creek Mitigation Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.26
Southport Ranch Mitigation Bank- Forested	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
Southport Ranch Mitigation Bank - Herbaceous	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00
Total:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.26

Mitigation Comments:

This construction permit authorizes Sections 2B and 3 of Ernie Caldwell Boulevard. Section 2B was associated with approved ERP 43032513.001, however only Section 2A was constructed. Section 3 was authorized under ERP 43032513.002 but never completed, however 5.26 forested UMAM credits were purchased from the Reedy Creek Mitigation Bank for this ERP (ERP No. 43032513.002). ERP No. 43032513.002, entitled Polk County - Ernie Caldwell Boulevard - Section 3 will be replaced with this permit authorization.

A total of 21.79 forested wetland UMAM credits was purchased for wetland mitigation from the Reedy Creek Mitigation Bank (Permit Permit No. 53-00002-M) as required under ERP's 43032513.001, 43032513.002, and 44032513.004. The total required UMAM functional gain units needed to offset forested impacts associated with ERP 43032513.001, 43032513.004 and this permit authorization is 21.53 units. There is an excess of 0.26 freshwater forested UMAM credits purchased at the Reedy Creek Mitigation Bank.

The permittee has a total of 11.55 freshwater herbaceous UMAM functional gain units which was provided by wetland mitigation areas completed under ERP 43032513.001 and excess functional gain of 0.06 units authorized under ERP 43033207.000, entitled Polk County - Pine Tree Trail Project - 05037. The total required UMAM functional gain units needed to offset the impacts to freshwater herbaceous wetlands for ERP No. 43032513.001 and this permit authorization is 17.88 units. The remaining 6.33 functional loss (FL) units associated with impacts to freshwater herbaceous wetlands will be offset by UMAM credits purchased from the SouthPort Ranch Mitigation Bank, Permit No. 49-00002-M. A purchase agreement was submitted to the District identifying a total of 7 freshwater herbaceous UMAM credits and 2 freshwater forested UMAM credits to be purchased.

As a result of the UMAM credits purchased from the Reedy Creek Mitigation Bank and purchase of 2 credits from the Southport Ranch Mitigation Bank, the permittee has a remaining balance of 2.26 UMAM forested credits for future use by the permittee when appropriate. A remaining balance of 0.67 UMAM freshwater herbaceous credits from the purchase of UMAM credit from the SouthPort Ranch Mitigation Bank, will be available for future use by the permittee when appropriate.

Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.
3. Wetland buffers shall remain in an undisturbed condition except for approved drainage facility construction/maintenance.
4. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:
 - a) wetland and surface water areas
 - b) wetland buffers
 - c) limits of approved wetland impacts

The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.
5. All wetland and surface water boundaries shown on the approved construction drawings shall be binding upon the Permittee and the District for the term of this permit. If this permit is extended, the wetland and surface water boundaries shall only remain binding for the term of such extension provided that physical conditions on the property, as solely determined by District staff, do not change so as to alter the boundaries of the delineated wetlands or other surface waters during the permit term, unless such change has been authorized by a permit issued under Part IV, Chapter 373, F.S.
6. All construction is prohibited within the permitted project area until the Permittee acquires legal ownership or legal control of the project area as delineated in the permitted construction drawings.
7. This modification, Construction Permit No. 43032513.006, amends previously issued Construction Permit No. 43032513.001, and adds conditions. All other original permit conditions remain in effect.

This modification, Construction Permit No. 43032513.006, also amends previously issued Construction Permit No. 43032513.002, and all conditions shall be replaced by the conditions herein upon transfer of this permit modification to the operation phase.
8. If limestone bedrock is encountered during construction of the stormwater water management

system, the District must be notified and construction in the affected area shall cease.

9. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.
10. The Permitted Plan Set for this project includes the set received by the District on January 28, 2015.
11. The operation and maintenance entity shall provide for the inspection of the permitted project after conversion of the permit to the operation and maintenance phase. For systems utilizing retention or wet detention, the inspections shall be performed five (5) years after operation is authorized and every five (5) years thereafter.

The operation and maintenance entity must maintain a record of each inspection, including the date of inspection, the name and contact information of the inspector, whether the system was functioning as designed and permitted, and make such record available upon request of the District.

Within 30 days of any failure of a stormwater management system or deviation from the permit, an inspection report shall be submitted using Form 62-330.311(1), "Operation and Maintenance Inspection Certification" describing the remedial actions taken to resolve the failure or deviation.

12. District staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
13. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating schedules satisfactory to the District.
14. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.
15. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:
 - a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.
 - b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction
16. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

17. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.
18. The Permittee shall not begin construction within the project area until the District has been provided a copy of a permit modification authorizing the withdrawal of 2 freshwater forested credits and 7 freshwater herbaceous credits from the Southport Ranch Mitigation Bank or the permit has been modified to provide an equivalent level of mitigation to be completed by the Permittee. Failure to submit this modification prior to the commencement of construction shall be a violation of this permit.
19. A conservation area should be created to include the extent of archaeological site 8PO5380 and a 50 meter(165 foot) buffer around the sites boundaries. This area should not be disturbed through either direct construction or used as a project staging area. June 27, 2014. The location of this site (8PO5380) was identified on an aerial map attached to a letter from the Division of Historical Resources, recieved by the District on June 27, 2014.
20. No construction activities may take place within 400 feet of any Florida sandhill crane nest site. If nesting is discovered after construction has begun or if maintaining these buffers is not possible, it is recommended that the permittee contact Florida Fish and Wildlife Conservation Commission (FWC) staff to discuss the potential permitting alternatives.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.

Michelle K. Hopkins, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

1 The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.

- a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.
- b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
- c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(8)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
- d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
- e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
- f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 2. For all other activities - "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
- g. If the final operation and maintenance entity is a third party:
 1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction

needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

2. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
- h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
- i. This permit does not:
 1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 2. Convey to the permittee or create in the permittee any interest in real property;
 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
- j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
- k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
- l. The permittee shall notify the Agency in writing:
 1. Immediately if any previously submitted information is discovered to be inaccurate; and
 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
- m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
- n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification

shall be provided in accordance with Section 872.05, F.S. (2012).

- o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
 - p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
 - q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
 - r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.
2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

**NOTICE OF
AUTHORIZATION
TO COMMENCE CONSTRUCTION**

Ernie Caldwell Boulevard Section 2B and Section 3
PROJECT NAME
Road Projects
PROJECT TYPE
POLK
COUNTY
S15/T26S/R27E... See Permit for additional STR listings SEC(S)/TWP(S)/RGE(S)
Polk County Board of County Commissioners
PERMITTEE

APPLICATION ID/PERMIT NO: 696330 / 43032513.006

DATE ISSUED: February 18, 2015



Michelle K. Hopkins, P.E.

Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY
DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.
7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North, Tampa, FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9776. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

DRAFT

Philip J. Menke, P.E.
Parsons Brinckerhoff, Inc.
2202 North West Shore Boulevard, Suite 300
Tampa, FL 33607

DRAFT



Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

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Bartow, Florida 33830-7700
(863) 534-1448 or
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Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

May 27, 2015

Polk County Board of County Commissioners
Attn: Jay Jarvis, P.E.
3000 Sheffield Road
Winter Haven, FL 33880

Subject: **Notice of Intended Agency Action - Approval
ERP Minor Modification**

Project Name: Ernie Caldwell Boulevard Section 2B and Section 3
App ID/Permit No: 711094 / 43032513.007
County: POLK
Letter Received: May 01, 2015
Expiration Date: May 27, 2020
Sec/Twp/Rge: S15/T26S/R27E, S22/T26S/R27E, S23/T26S/R27E,
S16/T26S/R27E, S26/T26S/R27E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at <http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx> and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: Paul Greenwood, P.E., Parsons Brinckerhoff, Inc.



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May 27, 2015

Polk County Board of County Commissioners
Attn: Jay Jarvis, P.E.
3000 Sheffield Road
Winter Haven, FL 33880

Subject: **Notice of Agency Action - Approval
ERP Minor Modification**

Project Name: Ernie Caldwell Boulevard Section 2B and Section 3
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S16/T26S/R27E, S26/T26S/R27E

Dear Permittee(s):

Your request to modify Permit No. 43032513.006 by Minor Modification has been approved. This modification authorizes:

1. A revision to the "Mitigation Comments" section of the permit to update the amount of freshwater herbaceous credits purchased from the Southport Ranch Mitigation Bank, Permit No. 49-0002-M. To offset the proposed wetland/surface water impacts the permittee was only required to purchase 6.33 UMAM freshwater herbaceous credits instead of the 7.00 UMAM freshwater herbaceous credits previously authorized. This purchase has already been completed. There will be a remaining balance of 0.26 UMAM freshwater forested credit for future use by the permittee when appropriate after this permit modification. There is no excess freshwater herbaceous UMAM credit available for future projects.
2. The removal of specific condition #18 as the permittee submitted a copy of the authorization, with a letter date of March 12, 2015, from the South Florida Water Management District to formally deduct 6.33 UMAM freshwater herbaceous credits from the Southport Ranch Mitigation (Permit No. 49-00002-M). The condition required the permittee to submit a copy of a permit modification, which has been submitted to date, to withdrawal the required wetland mitigation from the Southport Ranch Mitigation Bank prior to the commencement of construction.
3. All other terms and conditions of Permit No. 43032513.006, dated February 18, 2015, entitled Ernie Caldwell Boulevard Section 2B and Section 3, apply.

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Notice of Rights
cc: Paul Greenwood, P.E., Parsons Brinckerhoff, Inc.

Notice of Rights

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JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

DRAFT

DRAFT



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1-800-836-0797 (FL only)

March 16, 2016

Polk County Board of County Commissioners
Attn: Jay M. Jarvis, P.E.
3000 Sheffield Road
Winter Haven, FL 33880

Subject: **Notice of Intended Agency Action - Approval
ERP Individual Construction Major Modification**

Project Name: Ernie Caldwell Blvd. - Access Road
App ID/Permit No: 721742 / 43032513.008
County: POLK
Sec/Twp/Rge: S22/T26S/R27E, S23/T26S/R27E

Dear Permittee(s):

The Southwest Florida Water Management District (District) has completed its review of the application for Environmental Resource Permit modification. Based upon a review of the information you have submitted, the District hereby gives notice of its intended approval of the application.

The File of Record associated with this application can be viewed at <http://www18.swfwmd.state.fl.us/erp/erp/search/ERPSearch.aspx> and is also available for inspection Monday through Friday, except for District holidays, from 8:00 a.m. through 5:00 p.m. at the District's Tampa Service Office, 7601 U.S. Highway 301 North, Tampa, Florida 33637.

If you have any questions or concerns regarding the application or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

cc: U. S. Army Corps of Engineers
P. Andrew Greenwood, P.E., Parsons Brinckerhoff, Inc.



An Equal
Opportunity
Employer

Southwest Florida Water Management District

2379 Broad Street, Brooksville, Florida 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
SUNCOM 628-4150 TDD only 1-800-231-6103 (FL only)
On the Internet at: WaterMatters.org

Bartow Service Office
170 Century Boulevard
Bartow, Florida 33830-7700
(863) 534-1448 or
1-800-492-7862 (FL only)

Sarasota Service Office
6750 Fruitville Road
Sarasota, Florida 34240-9711
(941) 377-3722 or
1-800-320-3503 (FL only)

Tampa Service Office
7601 Highway 301 North
Tampa, Florida 33637-6759
(813) 985-7481 or
1-800-836-0797 (FL only)

March 16, 2016

Polk County Board of County Commissioners
Attn: Jay M. Jarvis, P.E.
3000 Sheffield Road
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Subject: **Notice of Agency Action - Approval**
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Project Name: Ernie Caldwell Blvd. - Access Road
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County: POLK
Sec/Twp/Rge: S22/T26S/R27E, S23/T26S/R27E

Dear Permittee(s):

The Southwest Florida Water Management District (District) is in receipt of your application for the Environmental Resource Permit modification. Based upon a review of the information you submitted, the application is approved. Please refer to the attached Notice of Rights to determine any legal rights you may have concerning the District's agency action on the permit application described in this letter.

If approved construction plans are part of the permit, construction must be in accordance with these plans. These drawings are available for viewing or downloading through the District's Application and Permit Search Tools located at www.WaterMatters.org/permits.

The District's action in this matter only becomes closed to future legal challenges from members of the public if such persons have been properly notified of the District's action and no person objects to the District's action within the prescribed period of time following the notification. The District does not publish notices of agency action. If you wish to limit the time within which a person who does not receive actual written notice from the District may request an administrative hearing regarding this action, you are strongly encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Publishing notice of agency action will close the window for filing a petition for hearing. Legal requirements and instructions for publishing notices of agency action, as well as a noticing form that can be used, are available from the District's website at www.WaterMatters.org/permits/noticing. If you publish notice of agency action, a copy of the affidavit of publication provided by the newspaper should be sent to the District's Tampa Service Office for retention in this permit's File of Record.

If you have any questions or concerns regarding your permit or any other information, please contact the Environmental Resource Permit Bureau in the Tampa Service Office.

Sincerely,

Michelle K. Hopkins, P.E.
Bureau Chief
Environmental Resource Permit Bureau
Regulation Division

Enclosures: Approved Permit w/Conditions Attached
 [As-Built Certification and Request for Conversion to Operation Phase](#)
 Notice of Authorization to Commence Construction
 Notice of Rights
cc: U. S. Army Corps of Engineers
 P. Andrew Greenwood, P.E., Parsons Brinckerhoff, Inc.

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**SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
INDIVIDUAL CONSTRUCTION MAJOR MODIFICATION
PERMIT NO. 43032513.008**

EXPIRATION DATE: **March 16, 2021**

PERMIT ISSUE DATE: **March 16, 2016**

This permit is issued under the provisions of Chapter 373, Florida Statutes, (F.S.), and the Rules contained in Chapter 62-330, Florida Administrative Code, (F.A.C.). The permit authorizes the Permittee to proceed with the construction of a surface water management system in accordance with the information outlined herein and shown by the application, approved drawings, plans, specifications, and other documents, attached hereto and kept on file at the Southwest Florida Water Management District (District). Unless otherwise stated by permit specific condition, permit issuance constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341. All construction, operation and maintenance of the surface water management system authorized by this permit shall occur in compliance with Florida Statutes and Administrative Code and the conditions of this permit.

PROJECT NAME: Ernie Caldwell Blvd. - Access Road
GRANTED TO: Polk County Board of County Commissioners
 Attn: Jay M. Jarvis, P.E.
 3000 Sheffield Road
 Winter Haven, FL 33880

OTHER PERMITTEES: N/A

ABSTRACT: This permit authorization is for the modification of a previously permitted stormwater management system (ERP No. 43032513.006), serving a roadway project, as named above and as shown on the approved construction drawings. The proposed modification includes the construction of a new access road on the north side of Ernie Caldwell Boulevard. Runoff from this access road will be routed towards previously permitted Pond No. 1000, which will have its weir revised from 113.60 feet to 113.65 feet to allow the pond to provide treatment for the expanded drainage basin. The peak pre-development discharge rate for the previously permitted master system has also been updated with this permit modification, based on additional survey data obtained for the design of this access road. No adverse on-site/off-site water quantity or quality impacts are expected. Additional information regarding the surface water management system, floodplain, wetlands and/or surface waters is stated below and on the permitted construction drawings for this project. The project site is located on the north side of Ernie Caldwell Boulevard, at station 351+20.00, approximately 0.66 miles east of its proposed intersection with U.S. Highway 17/92 in the northwest part of Polk County.

OP. & MAIN. ENTITY: Polk County Board of County Commissioners

OTHER OP. & MAIN. ENTITY: N/A

COUNTY: POLK

SEC/TWP/RGE: S22/T26S/R27E, S23/T26S/R27E

**TOTAL ACRES OWNED
OR UNDER CONTROL:** 77.99

PROJECT SIZE: 3.11 Acres

LAND USE: Road Projects

DATE APPLICATION FILED: December 14, 2015

AMENDED DATE: N/A

I. Water Quantity/Quality

Water Quantity/Quality Comments: No adverse off-site/on-site water quantity or quality impacts are expected as revised Pond No. 1000 has been designed to continue to satisfy the District's presumptive criteria for treatment and the master system as a whole continues to limit its post-development peak discharge rate for the 25-year, 24-hour design storm event to that of the existing 25-year, 24-hour design storm event. All elevations referenced in this permit are in the NGVD 29 vertical datum. (NGVD 29 = NAVD 88 + 0.95 feet)
A mixing zone is not required.
A variance is not required.

II. 100-Year Floodplain

Encroachment (Acre-Feet of fill)	Compensation (Acre-Feet of excavation)	Compensation Type	Encroachment Result* (feet)
1.11	0.00	Storage Modeling	N/A

Floodplain Comments: The proposed project will result in 1.11 acre-feet of new floodplain encroachment. Consistent with ERP No. 43032513.006, the Engineer-of-Record has utilized Storage Modeling to demonstrate that these impacts have been compensated for within previously permitted Mitigation Areas "C", "D", and "F" which provide compensation for a total of 16.69 acre-feet of floodplain impacts associated with the construction of Section 3 of Ernie Caldwell Boulevard project, and the newly proposed access road.

*Depth of change in flood stage (level) over existing receiving water stage resulting from floodplain encroachment caused by a project that claims Minimal Impact type of compensation.

III. Environmental Considerations

Wetland/Other Surface Water Information

Wetland/Other Surface Water Name	Total Acres	Not Impacted Acres	Permanent Impacts		Temporary Impacts	
			Acres	Functional Loss*	Acres	Functional Loss*
Wetland 1	4.21	0.00	4.21	2.27	0.00	0.00
Total:	4.21	0.00	4.21	2.27	0.00	0.00

* For impacts that do not require mitigation, their functional loss is not included.

Wetland/Other Surface Water Comments:

There are 4.21 acres of wetlands (FLUCCS 621) located within the project area for this ERP. Permanent filling impacts to 2.93 acres of wetlands (FLUCCS 621) will occur for construction of an access road. Permanent filling impacts to 2.93 acres of qualifying wetlands were evaluated using the Uniform Mitigation Assessment Method (UMAM) as required pursuant to Chapter 62-345, F.A.C. The results of the UMAM analysis indicate a functional loss of 2.14 units due to the permanent impacts proposed. Secondary wetland impacts to 1.28 acre of qualifying wetlands were evaluated using the UMAM as required pursuant to Chapter 62-345, F.A.C. The results of the Secondary UMAM analysis indicate a functional loss of 0.13 units due to the secondary impacts associated with the project. The results of the UMAM analysis identify a total functional loss of 2.27 units due to the project's proposed permanent and secondary wetland impacts. There are no other surface water features located within the project area.

Mitigation Information

Name	Creation		Enhancement		Preservation		Restoration		Enhancement +Preservation		Other	
	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain	Acres	Functional Gain
Southport Mitigation Bank	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27
Total:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.27

Mitigation Comments:

Wetland mitigation for permanent filling impacts and secondary impacts will be provided by the purchase of 2.27 forested credits from the Southport Mitigation Bank, SFWMD permit number 49-00002-M. The results of the UMAM analysis indicate a relative functional gain of 2.27 units. The UMAM analysis determined that the mitigation provided by the permit adequately offsets the project's proposed impacts to functional wetland habitat.

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Specific Conditions

1. If the ownership of the project area covered by the subject permit is divided, with someone other than the Permittee becoming the owner of part of the project area, this permit may be terminated, unless the terms of the permit are modified by the District or the permit is transferred pursuant to Rule 40D-1.6105, F.A.C. In such situations, each land owner shall obtain a permit (which may be a modification of this permit) for the land owned by that person. This condition shall not apply to the division and sale of lots or units in residential subdivisions or condominiums.
2. The Permittee shall retain the design professional registered or licensed in Florida, to conduct on-site observations of construction and assist with the as-built certification requirements of this project. The Permittee shall inform the District in writing of the name, address and phone number of the design professional so employed. This information shall be submitted prior to construction.
3. The following boundaries, as shown on the approved construction drawings, shall be clearly delineated on the site prior to initial clearing or grading activities:

wetland and surface water areas

limits of approved wetland impacts

The delineation shall endure throughout the construction period and be readily discernible to construction and District personnel.
4. All construction is prohibited within the permitted project area until the Permittee acquires legal ownership or legal control of the project area as delineated in the permitted construction drawings.
5. This modification, Permit No. 43032513.008, amends the previously issued Permit No. 43032513.006, and adds conditions. All other original permit conditions remain in effect.
6. If limestone bedrock is encountered during construction of the stormwater management system, the District must be notified and construction in the affected area shall cease .
7. The Permittee shall notify the District of any sinkhole development in the stormwater management system within 48 hours of discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the District within 30 days of discovery.
8. The Permitted Plan Set for this project includes the set received by the District on February 15, 2016.
9. District staff must be notified in advance of any proposed construction dewatering . If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the District as a permit prior to the dewatering event as a permit modification. A water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.
10. Off-site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operating

schedules satisfactory to the District.

11. The permittee shall complete construction of all aspects of the stormwater management system, including wetland compensation (grading, mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.
12. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:
 - a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.
 - b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.
13. All stormwater management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.
14. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the District, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.
15. The Permittee shall not begin construction within the project area until the Southport Mitigation Bank has received a permit modification authorizing the withdrawal of 2.27 forested credits from SFWMD mitigation bank permit number 49-00002-M, and a copy of this modification is provided to the District, or this permit has been modified to provide an equivalent level of mitigation to be completed by the Permittee. Initiation of construction prior to issuance of the required permit modification shall be a violation of this permit.

GENERAL CONDITIONS

1. The general conditions attached hereto as Exhibit "A" are hereby incorporated into this permit by reference and the Permittee shall comply with them.

Michelle K. Hopkins, P.E.

Authorized Signature

EXHIBIT A

GENERAL CONDITIONS:

1 The following general conditions are binding on all individual permits issued under this chapter, except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate, project-specific conditions.

- a. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C., or the permit may be revoked and the permittee may be subject to enforcement action.
- b. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.
- c. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007)*, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, which are both incorporated by reference in subparagraph 62-330.050(8)(b)5, F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.
- d. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice,"[effective date], incorporated by reference herein (<http://www.flrules.org/Gateway/reference.asp?No=Ref-02505>), indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.
- e. Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.
- f. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
 1. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex - "Construction Completion and Inspection Certification for Activities Associated with a Private Single-Family Dwelling Unit" [Form 62-330.310(3)]; or
 2. For all other activities - "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
 3. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.
- g. If the final operation and maintenance entity is a third party:
 1. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as- built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction

needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.

2. Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
- h. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
- i. This permit does not:
 1. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 2. Convey to the permittee or create in the permittee any interest in real property;
 3. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 4. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
- j. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
- k. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
- l. The permittee shall notify the Agency in writing:
 1. Immediately if any previously submitted information is discovered to be inaccurate; and
 2. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
- m. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
- n. If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification

shall be provided in accordance with Section 872.05, F.S. (2012).

- o. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.
 - p. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.
 - q. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.
 - r. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.
2. In addition to those general conditions in subsection (1) above, the Agency shall impose any additional project-specific special conditions necessary to assure the permitted activities will not be harmful to the water resources, as set forth in Rules 62-330.301 and 62-330.302, F.A.C., Volumes I and II, as applicable, and the rules incorporated by reference in this chapter.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

NOTICE OF
AUTHORIZATION
TO COMMENCE CONSTRUCTION

Ernie Caldwell Blvd. - Access Road

PROJECT NAME

Road Projects

PROJECT TYPE

POLK

COUNTY

S22/T26S/R27E, S23/T26S/R27E

SEC(S)/TWP(S)/RGE(S)

Polk County Board of County Commissioners

PERMITTEE

APPLICATION ID/PERMIT NO: 721742 / 43032513.008

DATE ISSUED: March 16, 2016



Michelle K. Hopkins, P.E.

Issuing Authority

THIS NOTICE SHOULD BE CONSPICUOUSLY
DISPLAYED AT THE SITE OF THE WORK

Notice of Rights

ADMINISTRATIVE HEARING

1. You or any person whose substantial interests are or may be affected by the District's intended or proposed action may request an administrative hearing on that action by filing a written petition in accordance with Sections 120.569 and 120.57, Florida Statutes (F.S.), Uniform Rules of Procedure Chapter 28-106, Florida Administrative Code (F.A.C.) and District Rule 40D-1.1010, F.A.C. Unless otherwise provided by law, a petition for administrative hearing must be filed with (received by) the District within 21 days of receipt of written notice of agency action. "Written notice" means either actual written notice, or newspaper publication of notice, that the District has taken or intends to take agency action. "Receipt of written notice" is deemed to be the fifth day after the date on which actual notice is deposited in the United States mail, if notice is mailed to you, or the date that actual notice is issued, if sent to you by electronic mail or delivered to you, or the date that notice is published in a newspaper, for those persons to whom the District does not provide actual notice.
2. Pursuant to Subsection 373.427(2)(c), F.S., for notices of intended or proposed agency action on a consolidated application for an environmental resource permit and use of state-owned submerged lands concurrently reviewed by the District, a petition for administrative hearing must be filed with (received by) the District within 14 days of receipt of written notice.
3. Pursuant to Rule 62-532.430, F.A.C., for notices of intent to deny a well construction permit, a petition for administrative hearing must be filed with (received by) the District within 30 days of receipt of written notice of intent to deny.
4. Any person who receives written notice of an agency decision and who fails to file a written request for a hearing within 21 days of receipt or other period as required by law waives the right to request a hearing on such matters.
5. Mediation pursuant to Section 120.573, F.S., to settle an administrative dispute regarding District intended or proposed action is not available prior to the filing of a petition for hearing.
6. A request or petition for administrative hearing must comply with the requirements set forth in Chapter 28-106, F.A.C. A request or petition for a hearing must: (1) explain how the substantial interests of each person requesting the hearing will be affected by the District's intended action or proposed action, (2) state all material facts disputed by the person requesting the hearing or state that there are no material facts in dispute, and (3) otherwise comply with Rules 28-106.201 and 28-106.301, F.A.C. Chapter 28-106, F.A.C. can be viewed at www.flrules.org or at the District's website at www.WaterMatters.org/permits/rules.
7. A petition for administrative hearing is deemed filed upon receipt of the complete petition by the District Agency Clerk at the District's Tampa Service Office during normal business hours, which are 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding District holidays. Filings with the District Agency Clerk may be made by mail, hand-delivery or facsimile transfer (fax). The District does not accept petitions for administrative hearing by electronic mail. Mailed filings must be addressed to, and hand-delivered filings must be delivered to, the Agency Clerk, Southwest Florida Water Management District, 7601 Highway 301 North, Tampa, FL 33637-6759. Faxed filings must be transmitted to the District Agency Clerk at (813) 367-9776. Any petition not received during normal business hours shall be filed as of 8:00 a.m. on the next business day. The District's acceptance of faxed petitions for filing is subject to certain conditions set forth in the District's Statement of Agency Organization and Operation, available for viewing at www.WaterMatters.org/about.

JUDICIAL REVIEW

1. Pursuant to Sections 120.60(3) and 120.68, F.S., a party who is adversely affected by District action may seek judicial review of the District's action. Judicial review shall be sought in the Fifth District Court of Appeal or in the appellate district where a party resides or as otherwise provided by law.
2. All proceedings shall be instituted by filing an original notice of appeal with the District Agency Clerk within 30 days after the rendition of the order being appealed, and a copy of the notice of appeal, accompanied by any filing fees prescribed by law, with the clerk of the court, in accordance with Rules 9.110 and 9.190 of the Florida Rules of Appellate Procedure (Fla. R. App. P.). Pursuant to Fla. R. App. P. 9.020(h), an order is rendered when a signed written order is filed with the clerk of the lower tribunal.

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ETDM SCREENING REPORT DOCUMENTATION

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#14524 - Central Polk Parkway East Extension from S of US 17/92 to SR 538 (Poinciana Parkway)

Planning Organization: Florida's Turnpike Enterprise

District: District 1, District 5

From: South of US 17/92

Plan ID:

Federal Involvement: State Funds Only (SFO)

Contact Information: Name: Jazlyn Heywood Phone: 4072643298 E-mail: Jazlyn.Heywood@dot.state.fl.us

Snapshot Data From: Current Draft Data

Phase: Programming Screen

County: Osceola, Polk

To: SR 538 (Poinciana Parkway)

Financial Management No.: 451419-1

Project Description

The Central Polk Parkway (CPP) East Extension is a new, approximately six-mile, four-lane tolled expressway from the future CPP East south of US 17/92 to SR 538 (Poinciana Parkway), connecting at the Poinciana Parkway Extension (SR 538). The study area is mainly in Polk County, with minor portions towards the north end of the area within Osceola County. Interchanges are anticipated at US 17/92 and the Poinciana Parkway Extension. Central Florida Expressway Authority (CFX) is designing the Poinciana Parkway Extension (SR 538) from Ronald Reagan Parkway to CR 532. Florida's Turnpike Enterprise is conducting a PD&E Study for the Poinciana Parkway Extension from CR 532 to I-4.

Purpose and Need

The purpose of the CPP East Extension project is to meet existing and future travel demands in the region by providing an additional north-south facility to enhance mobility and increase accessibility on the regional roadway network and improve emergency evacuation and response times. The project need is comprised of four main components: System Linkage/Regional Connectivity, Transportation Demand/Population Growth, Emergency Evacuation and Enhance Freight Mobility and Economic Competitiveness.

System Linkage/Regional Connectivity

This project will help improve connectivity to the regional transportation network by connecting Polk and Osceola Counties, and serving residents, commuters, tourists, employers, businesses and freight travel between the two counties. In addition, this facility will improve connections to other major east-west and north-south transportation corridors, as well as residential and employment centers, other regional activity centers such as Haines City and Davenport, tourist destinations in Polk County, and eastward to the Orlando Metropolitan area. This project, along with the future CPP East and SR 538 (Poinciana Parkway) and Poinciana Parkway Extension will connect regional Strategic Intermodal Systems (SIS) facilities and provide an alternative corridor to travel on US 17/92, US 27, and the local roadway network. The SIS is a statewide network of highways, railways, waterways, and transportation hubs that handle most of Florida's passenger and freight traffic. Highways that are part of the SIS provide for movement of goods and people at high speeds and high traffic volumes. SR 60 and I-4, which are part of the SIS, provide coast to coast traffic movement across Central Florida, while SIS facilities, such as US 98 and I-75, provide north-south movement throughout the state and beyond. The addition of the CPP East, CPP East Extension, and Poinciana Parkway Extension connecting these regional roadways would relieve congestion by distributing traffic, improving connectivity, and enhancing mobility in Polk County and west central Florida.

Transportation Demand/Accommodate Future Population and Growth

According to the Momentum 2045 Polk County LRTP, page 4-21, "Polk County is expected to experience major growth over the next 20 years, which is anticipated to put tremendous strain on already congested roadways, such as I-4 and US 27. Daily travel volumes on US 27 south of I-4 were over 63,000 vehicles per day in 2019 and are expected to exceed 100,000 vehicles per day by 2045." The Florida Bureau of Economic and Business Research (BEBR) population 2045 forecast for Polk County is 1,043,400 persons (2045 Polk County LRTP) with an employment total of approximately 348,903 employees. This represents an increase in population of 410,348 persons and employment of 153,648 employees from 2015 to 2045 or 65% population growth and 79% employment growth from 2015 to 2045. Much of this growth will be related to new trips in the central part of Polk County; however, others will come from the residents in eastern Polk County who will travel to or through the central Polk County area. Also, the significant growth of trips originating from outside Polk County and traveling to or through areas of central Polk County will further increase demand on the roadway network, especially in northeast Polk County. According to the 2045 MetroPlan Orlando, Central Florida grew from about 1.1 million residents in 1990 to 2.2 million residents in 2018; Osceola County is Central Florida's fastest growing county, at 4.5% per year and employment growth rates in the region exceed the statewide average of 2.1% per year since 1990.

The CPP East Extension is anticipated to support the increased travel demands expected from the continued residential and employment growth projected within the county and throughout the entire region. According to the Momentum 2045 Polk County LRTP (Amended in December 2021), daily

travel volumes on US 27 south of I-4 were over 63,000 vehicles per day in 2019 and are expected to exceed 100,000 vehicles per day by 2045. The addition of another north-south facility to the network will reduce traffic congestion, including truck traffic, on several corridors in central Polk County and particularly parallel facilities such as US 98, US 17, and US 27. Central and eastern Polk County especially will need to address the transportation needs from the projected employment and residential growth; as well as increased freight traffic as the CSX Intermodal Logistics Center (ILC) continues to spur economic development in the area.

Improve Emergency Evacuation Capabilities

There is a need to evaluate a new highway and/or modified access points to provide for emergency evacuation, incident management, and population/employment growth. The CPP East will be a designated evacuation route by the Florida Division of Emergency Management and will connect to other existing and future evacuation routes. The expansion of the project segment will improve hurricane evacuation and emergency response and evacuation times. In addition, recent hurricane seasons have shown the need for additional route options to accommodate area residents and those fleeing from coastal locations in Florida to inland locations in Central Florida, when seeking shelter. The addition of this facility will provide another option to distribute traffic and to provide connections to other regional and local routes thereby increasing mobility during an emergency event and enhancing emergency response times.

Enhance freight mobility and economic competitiveness

The CPP East Extension will provide access to regional industrial, manufacturing, freight distribution, and freight activity centers in Polk County and the heavily-populated Tampa Bay region including the Port of Tampa to the west. Central and eastern Polk County will need to address the transportation needs from the projected employment and residential growth; as well as increased freight traffic as the CSX Intermodal Logistics Center (ILC) continues to spur economic development in the area. This project also will improve the overall circulation of freight and goods, providing access to local agricultural and ranching operations.

Summary of Public Comments

Summary of Public Comments is not available at this time.

No public comments available prior to the programming screen.

Planning Consistency Status

Are the limits consistent with the plans?: No

Comments:

Currently, the project is only listed in the STIP with some PD&E funding in Fiscal Year (FY) 2023. It is not listed in the Polk TPO or MetroPlan Orlando LRTP or TIP documents.

Currently Adopted CFP-LRTP?: No

Comments:

The project is not listed in the Momentum 2045 Polk County Long Range Transportation Plan (LRTP) Amended in December 2021, (an interchange for Central Polk Parkway at US 17/92 is listed in this Plan) or the 2045 MetroPlan Orlando LRTP.

Original PD&E FAP#: Unknown

MPOs: METROPLAN Orlando, Polk TPO

Attachments:

No attachments found.

Phase	Currently Approved TIP	Currently Approved STIP	TIP / STIP \$	TIP / STIP Fiscal Year	Comments
PE (Final Design)	No	No	Unknown	Unknown	Currently, only the PD&E phase is listed in the STIP.
ROW	No	No	Unknown	Unknown	Currently, only the PD&E phase is listed in the STIP.
Construction	No	No	Unknown	Unknown	Currently, only the PD&E phase is listed in the STIP.

Federal Consistency Determination

This project is following the State environmental review process. Federal Consistency does not apply.

Class of Action Determination

Pending

Potential Lead Agencies

- FL Department of Transportation

Exempted Agencies

Agency Name	Justification	Date
FDOT Office of Environmental Management	OEM is automatically exempt from projects identified as 'State Funds Only' (SFO).	02/22/2023
US Coast Guard	US Coast Guard has requested to be exempt from reviewing any projects that do not impact navigable waterways.	02/22/2023
Federal Transit Administration	FTA has requested to be exempt from reviewing any non-transit projects.	02/22/2023

Project Documents

There are no attachments for this project.

adoption

Anticipated Permits

Permit	Type	Recommending Agency	Comments
Environmental Resource Permit	WMD	SFWMD	Agree, an ERP was previously listed as an anticipated permit.
Environmental Resource Permit	WMD	SFWMD	The majority of the project is within the jurisdiction of the SFWMD. A very small portion is within the SFWMD jurisdiction. It is likely that the WMDs will enter an inter-agency agreement to allow for the project to be permitted in its entirety by the SFWMD. Alternatively, a second ERP will be required from the SFWMD.
State 404 permit	FDEP	FDEP-404	There are no USACE-retained waters within the project limits. Therefore, a State 404 permit is anticipated.

Anticipated Technical Studies

Technical Study	Type	Recommending Agency	Comments
Location Hydraulics Report	Engineering	SFWMD	A Location Hydraulics Technical Memorandum was included in the anticipated technical study list.
Geotechnical Report	Engineering	FDOT	
Noise Study Report	Environmental	FDOT	
Cultural Resource Assessment Survey Report	Other	SHPO	Agreed, a CRAS was previously included as a technical study.
Water Quality Impact Evaluation	Other	SFWMD	Agreed.
State Environmental Impact Report (SEIR)	Environmental	FDOT	
Contamination Screening Evaluation Technical Memorandum	Other	FDOT	
Sociocultural Effects Evaluation	Other	FDOT	
Preliminary Engineering Report	Engineering	FDOT	
Interchange Justification Report	Engineering	FDOT	
Air Quality Technical Memorandum	Environmental	FDOT	
Cultural Resource Assessment Survey	Environmental	FDOT	
Location Hydraulics Technical Memorandum	Engineering	FDOT	
Utility Assessment Package	Engineering	FDOT	
Pond Siting Report	Engineering	FDOT	
Natural Resources Evaluation (NRE)	Environmental	FDOT	

Sociocultural Data Reports

Census Places Within 500 Feet

- Loughman CDP
- Poinciana CDP

- Davenport city

User Defined Communities Within 500 Feet

No census places were found within a 500 ft. buffer distance for this project.

Analysis Areas SDRs

- CPP East Extension Area

Cultural Resources Reports

- CPP East Extension Area

Analysis Areas

CPP East Extension Area

Name	From	To	Type	Status	Total Length	Cost	Modes	SIS
CPP East Extension Area	South of US 17/92	SR 538 (Poinciana Parkway)	New Alignment	ETAT Review Complete	6.5 mi.		Roadway	Yes

Study Area

Plan Year	Planned Configuration	Planned Capacity
2024	This facility is a proposed four-lane divided limited access roadway with the potential to be expanded to six lanes in the future.	The updated 2045 Annual Average Daily Traffic (AADT) volumes forecast for the CPP East Extension are presented in the Central Polk Parkway East Interchange Concept Development Traffic Memorandum, dated June 2022. These 2045 AADT volume for the segment from US 17/92 to SR 538 (Poinciana Parkway) is 38,200 vehicles per day.

Polygon Details

Location and Length

Polygon No.	Name	Beginning Location	Ending Location	Length (mi.)	Roadway Id	BMP	EMP
A-001							

Jurisdiction and Class

Polygon No.	Jurisdiction	Urban Service Area	Functional Class
A-001			

Base Conditions

Polygon No.	Year	AADT	Lanes	Config
A-001				

Interim Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Needs Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Cost Feasible Plan

Polygon No.	Year	AADT	Lanes	Config
A-001				

Funding Sources

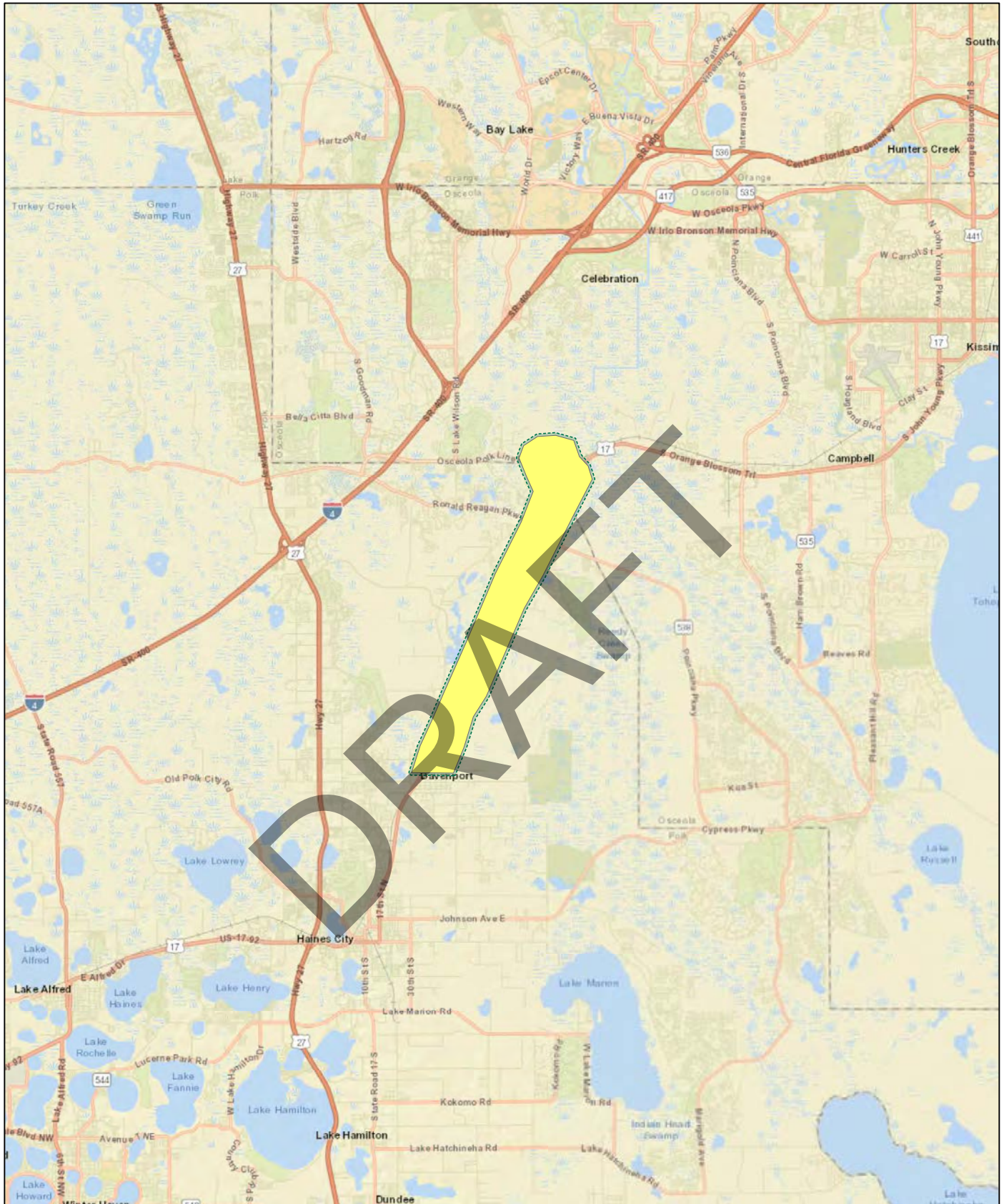
No funding sources found.

Eliminated Alternatives

There are no eliminated alternatives for this project.

DRAFT

Environmental Screening Tool

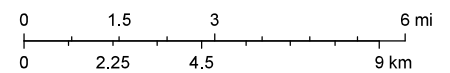


March 27, 2025

aoi_polygon_36210

polygonLayer

1:144,448



Esri, HERE, Garmin, NGA, USGS, NPS

Central Polk Parkway EST Area of Interest

Description:

Project Type: Watershed Approach to Evaluate Regional Stormwater Solutions (WATERSS)

Expiration: This AOI will be available in the EST until 04/25/2025

Last updated: Billie Castillo @ Florida's Turnpike Enterprise on Wed Mar 26 10:05:56 EDT 2025

Central Polk Parkway EST - Feature 1



Map Information

Analysis Type		Date Run	Features within AOI Count
City, County, Regional, Agency Boundaries			
WMD Water Management District Boundaries	i	03/26/2025	2
GEOPLAN Rural Land Stewardship Area (RLSA) Overlay Program in Collier County	i	03/26/2025	0
GEOPLAN American Indian Lands and Native Entities In Florida	i	03/26/2025	0
GEOPLAN Community and Fraternal Center Boundaries	i	03/26/2025	0
Government-owned Lands and Facilities			
GEOPLAN Aviation Transportation Facilities	i	03/26/2025	0
GEOPLAN Cultural Centers (Polygons)	i	03/26/2025	0
		03/26/2025	0

Analysis Type		Date Run	Count
FDEP Florida State Parks	i		
GEOPLAN Fire Stations (Points)	i	03/26/2025	1
GEOPLAN Local Florida Parks and Recreational Facility Boundaries	i	03/26/2025	6
GEOPLAN State Owned Parks and Recreational Facilities	i	03/26/2025	0
GEOPLAN Law Enforcement Facilities	i	03/26/2025	1
GEOPLAN Geocoded Government Buildings	i	03/26/2025	1
GEOPLAN Schools (Points)	i	03/26/2025	3
GEOPLAN Geocoded Social Service Facilities	i	03/26/2025	0
GEOPLAN Hospitals	i	03/26/2025	0
GEOPLAN Cemeteries (Polygons)	i	03/26/2025	3
FDEP Public Water Supply (PWS) Plants	i	03/26/2025	10
FDEP Wastewater Facilities	i	03/26/2025	5
FNAI Florida Forever BOT Projects	i	03/26/2025	0
FNAI Florida Managed Areas	i	03/26/2025	2
FNAI Public Lands in Florida	i	03/26/2025	1
NOAA Submerged Lands Act	i	03/26/2025	0
UFCLCP Florida Ecological Greenways Network	i	03/26/2025	N/A
GEOPLAN U.S. Military Installations	i	03/26/2025	0
Tax Maps and Landowner Information			
GEOPLAN Generalized Agricultural Land Use (Parcel Derived)	i	03/26/2025	15

WMD Water Management District Boundaries

Metadata: <https://etdmpub.flh-etat.org/meta/wmdbnd.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Description
SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

Summary: 5585.6 acres, 100 percent of analysis area.

GEOPLAN Fire Stations (Points)

Metadata: https://etdmpub.flh-etat.org/meta/gc_firestat.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Description	Google Map
POLK COUNTY FIRE DEPARTMENT STATION 230 (LOUGHMAN)	https://www.google.com/maps/place/17RMM4456824055

Summary: 1 feature(s) found within buffer.

GEOPLAN Local Florida Parks and Recreational Facility Boundaries

Metadata: https://etdmpub.flh-etat.org/meta/gc_parksbnd.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name	Type	Google Map
CITY OF DAVENPORT BASEBALL FIELD	NEIGHBORHOOD PARK / ATHLETIC	https://www.google.com/maps/place/17RMM4073815482
JAMESTOWN PARK	NEIGHBORHOOD PARK / OPEN SPACE	https://www.google.com/maps/place/17RMM4088315036
JAMESTOWN PLAY GROUND	NEIGHBORHOOD PARK / PLAYGROUND	https://www.google.com/maps/place/17RMM4121815824
LEWIS W MATHEWS MEMORIAL SPORTS COMPLEX	NEIGHBORHOOD PARK / ATHLETIC	https://www.google.com/maps/place/17RMM4193515407
LOUGHMAN PARK	NEIGHBORHOOD PARK / MIXED USE RECREATION	https://www.google.com/maps/place/17RMM4512624151
WILSON PARK	NEIGHBORHOOD PARK / OPEN SPACE	https://www.google.com/maps/place/17RMM4071315069

Summary: 43.39 acres, 0.8 percent of analysis area.

GEOPLAN Law Enforcement Facilities

Metadata: https://etdmpub.flh-etat.org/meta/gc_lawenforce.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Name	Description	Google Map
DAVENPORT POLICE DEPARTMENT	DAVENPORT POLICE DEPARTMENT	https://www.google.com/maps/place/17RMM4105115041

Summary: 1 feature(s) found within buffer.

GEOPLAN Geocoded Government Buildings

Metadata: https://etdmpub.flh-etat.org/meta/gc_govbuild.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Name	Description
U S POST OFFICE - LOUGHMAN	US POST OFFICES

Summary: 1 feature(s) found within buffer.

GEOPLAN Schools (Points)

Metadata: https://etdmpub.flh-etat.org/meta/gc_schools.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Name	Operating Entity Class	Enrollment	Educational Level	Title 1 School	Number of Free Lunches	Number of Reduced Lunches	Google Map
LOUGHMAN OAKS ELEMENTARY SCHOOL	PUBLIC	1089.0	ELEMENTARY	YES	537.0	0.0	https://www.google.com/maps/place/17RMM4418621549
MATER ACADEMY DAVENPORT	CHARTER	0.0	ELEMENTARY		0.0	0.0	https://www.google.com/maps/place/17RMM4484723991
MATER ACADEMY DAVENPORT MIDDLE SCHOOL	CHARTER	0.0	MIDDLE/JR. HIGH		0.0	0.0	https://www.google.com/maps/place/17RMM4484523976

Summary: 3 feature(s) found within buffer.

GEOPLAN Cemeteries (Polygons)

Metadata: https://etdmpub.flh-etat.org/meta/gc_cemeterybnd.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name	Google Map
EVERGREEN CEMETERY	https://www.google.com/maps/place/17RMM4142417964
KINNY HARMON ROAD CEMETERY	https://www.google.com/maps/place/17RMM4536323326
RET ROW CEMETERY	https://www.google.com/maps/place/17RMM4168515759

Summary: 7.17 acres, 0.1 percent of analysis area.

FDEP Public Water Supply (PWS) Plants

Metadata: https://etdmpub.flh-etat.org/meta/pws_plants_nonfed.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Public Water System, Plant Name, ID	Google Map
21 PALMS RV RESORT [21 PALMS RV RESORT - PWS ID: 3494320]	https://www.google.com/maps/place/17RMM4488626159
DAVENPORT, CITY OF [DAVENPORT W.T.P. # 1 - PWS ID: 6530431]	https://www.google.com/maps/place/17RMM4059115385
DAVENPORT, CITY OF [DAVENPORT W.T.P. # 2 - PWS ID: 6530431]	https://www.google.com/maps/place/17RMM4083515076
HIDDEN GLEN [HIDDEN GLEN - PWS ID: 3494416]	https://www.google.com/maps/place/17RMM4612525308
HORSE CREEK VILLAGE [PROCTORS MHP WTP - PWS ID: 6531657]	https://www.google.com/maps/place/17RMM4141416519
KISSIMMEE SOUTH [THREE WORLDS WTP #1 - PWS ID: 6531812]	https://www.google.com/maps/place/17RMM4383220323
LOUGHMAN COUNTY PARK [LOUGHMAN PARK WATER PLANT - PWS ID: 6532777] NEW ANTIOCH MISSIONARY BAPTIST [NEW ANTIOCH/EARLY CHILDHOOD WP - PWS ID: 6535408]	https://www.google.com/maps/place/17RMM4524024194
OAK HAVEN MOBILE HOME PARK [OAK HAVEN MHP WTP - PWS ID: 6530421]	https://www.google.com/maps/place/17RMM4551725085
SHADY OAKS MHP [SHADY OAKS M.H.P. WATER PLANT - PWS ID: 6530746]	https://www.google.com/maps/place/17RMM4141616827

Summary: 10 feature(s) found within buffer.

FDEP Wastewater Facilities
FDEP Wastewater facilities from FDEP
Metadata: <https://etdmpub.flh-etat.org/meta/wafr.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Facility ID	Facility Name	Google Map
FLA010985	21 PALMS RV RESORT	https://www.google.com/maps/place/17RMM4488226636
FLA012991	KISSIMMEE SOUTH RV RESORT (FKA THREE WORLDS WWTF)	https://www.google.com/maps/place/17RMM4363520254
FLA013023	SHADY OAKS MHP	https://www.google.com/maps/place/17RMM4140416770
FLA013057	CROSSROADS INN	https://www.google.com/maps/place/17RMM4073315306
FLG110347	CEMEX LLC - DAVENPORT SAND MINE	https://www.google.com/maps/place/17RMM4202918173

Summary: 5 feature(s) found within buffer.

FNAI Florida Managed Areas
Metadata: <https://etdmpub.flh-etat.org/meta/flma.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Name
REEDY CREEK MITIGATION BANK
UPPER LAKES BASIN WATERSHED
Summary: 209.29 acres, 3.8 percent of analysis area.
FNAI Public Lands in Florida
Metadata: https://etdmpub.flh-etat.org/meta/flma.xml
Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025. Footprint analyzed
UPPER LAKES BASIN WATERSHED
Summary: 169.64 acres, 3.0 percent of analysis area.

UFCLCP Florida Ecological Greenways Network

Metadata: <https://etdmpub.fl-a-etat.org/meta/fegn.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
OUT	2,892.46	51.75%
PRIORITY 2	2,696.75	48.25%
Totals	5,589.2	-

GEOPLAN Generalized Agricultural Land Use (Parcel Derived)

Metadata: https://etdmpub.fl-a-etat.org/meta/lu_gen.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Description	Area of Interest	
	Acr	Pct
AGRICULTURAL	662.27	11.84%
Totals	662.27	-

Designated Regulatory Regions

Analysis Type	TMDLs, BMAPs, RAPs	Date Run	Features within AOI	
				Count
USEPA National Pollutant Discharge Elimination System (NPDES)	i	03/26/2025		152
FDEP NPDES Stormwater Permits	i	03/26/2025		3
FDEP Verified Impaired Florida Waters	i	03/26/2025		1
USEPA Impaired Waters with TMDLs (polygons)	i	03/26/2025		0
FDEP Adopted Total Maximum Daily Loads (TMDLs) in Florida	i	03/26/2025		0
FDOT WBIDs with Verified Nutrient or Dissolved Oxygen Impairment or Adopted TMDLs or RAPs for the State of Florida	i	03/26/2025		2
FDEP Basin Management Action Plans (BMAP) Areas in Florida	i	03/26/2025		1
		03/26/2025		0

Analysis Type		Date Run	Count
FDEP Restoration Area Plans and Non-BMAP TMDL Implementation	i		
FDEP Waterbody IDs	i	03/26/2025	2
FDEP Watershed Information Network (WIN) Monitoring Locations	i	03/26/2025	2
FDEP Adopted Minimum Flows and Levels (MFLs)	i	03/26/2025	0
FDEP Adopted Aquifer Minimum Flows and Levels (MFLs)	i	03/26/2025	0
FDEP Adopted Estuary Minimum Flows and Levels (MFLs)	i	03/26/2025	0
FDEP Adopted Lake Minimum Flows and Levels (MFLs)	i	03/26/2025	0
FDEP Adopted River Minimum Flows and Levels (MFLs)	i	03/26/2025	0
Water Supply / Groundwater Recharge / Aquifer Protection			
FNAI CLIP Version 4 Aquifer Recharge	i	03/26/2025	N/A
FDEP Floridan Aquifer System FAVA II Response Theme	i	03/26/2025	N/A
FDEP Intermediate Aquifer System FAVA II Response Theme	i	03/26/2025	N/A
SWFWMD Recharge Areas of the Floridan Aquifer	i	03/26/2025	2
FDOH Known On-Site Septic Systems	i	03/26/2025	226
FDOH Likely On-Site Septic Systems	i	03/26/2025	602
Wells and Wellfields			
FDOH Limited Use Drinking Water Wells	i	03/26/2025	17
SWFWMD Well Construction Permit Locations	i	03/26/2025	773
FDOH Known On-Site Domestic Wells	i	03/26/2025	125
FDOH Likely On-Site Domestic Wells	i	03/26/2025	30
Government Water Quality Programs			
SWFWMD Comprehensive Everglades Restoration Plan (CERP) Project Boundaries	i	03/26/2025	0
		03/26/2025	23

Analysis Type		Date Run	Count
USEPA Water Quality Data Monitoring Stations	i		
FDEP Mitigation Bank Service Areas	i	03/26/2025	11
FDEP Mitigation Banks	i	03/26/2025	1
USACE Mitigation Bank and In-Lieu Fee Program Sites	i	03/26/2025	1
Developments of Regional Impacts (DRIs), Large Private Lands, and Sector Plans			
GEOPLAN Developments of Regional Impact (DRI)	i	03/26/2025	2
GEOPLAN Golf Courses	i	03/26/2025	0

DRAFT

USEPA National Pollutant Discharge Elimination System (NPDES)
USEPA National Pollutant Discharge Elimination System (NPDES)

Metadata: <https://etdimpub.flh-etat.org/meta/epanpdes.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Facility ID	Facility Name	Permit or Program Type
11009095282	CELEBRATION BLVD EXTENSION-CON	ICIS-NPDES NON-MAJOR
11009095282	CELEBRATION BLVD EXTENSION-CON	STORM WATER CONSTRUCTION
110010044683	CELEBRATION HIGH SCHOOL SITE W	ICIS-NPDES NON-MAJOR
110010044683	CELEBRATION HIGH SCHOOL SITE W	STORM WATER CONSTRUCTION
110012329328	CEMEX DAVENPORT	ICIS-NPDES NON-MAJOR
110020169921	DAVENPORT ESTATES	ICIS-NPDES NON-MAJOR
110020169921	DAVENPORT ESTATES	STORM WATER CONSTRUCTION
110020172800	PROVIDENCE N2-3	ICIS-NPDES NON-MAJOR
110020172800	PROVIDENCE N2-3	STORM WATER CONSTRUCTION
110020547201	COUNTRY CREEK	ICIS-NPDES NON-MAJOR
110020547201	COUNTRY CREEK	STORM WATER CONSTRUCTION
110020551767	SANDY RIDGE LOTS 133-150, 157-	ICIS-NPDES NON-MAJOR
110020551767	SANDY RIDGE LOTS 133-150, 157-	STORM WATER CONSTRUCTION
110020554700	OAK HILLS BOULEVARD EXTENSION	ICIS-NPDES NON-MAJOR
110020554700	OAK HILLS BOULEVARD EXTENSION	STORM WATER CONSTRUCTION
110020717857	RIDGE AT OAK HILL	ICIS-NPDES NON-MAJOR
110020717857	RIDGE AT OAK HILL	STORM WATER CONSTRUCTION
110027951697	DOLLAR GENERAL STORE #14632	STORM WATER CONSTRUCTION
110027951697	DOLLAR GENERAL STORE #14632	ICIS-NPDES NON-MAJOR
110028305723	LEXINGTON GREEN AT PROVIDENCE	ICIS-NPDES NON-MAJOR
110028305723	LEXINGTON GREEN AT PROVIDENCE	STORM WATER CONSTRUCTION
110032760439	PROVIDENCE	ICIS-NPDES NON-MAJOR
110032760439	PROVIDENCE	STORM WATER CONSTRUCTION
110032760439	PROVIDENCE	ICIS-NPDES NON-MAJOR
110032760439	PROVIDENCE	STORM WATER CONSTRUCTION
110032761303	MARBELLA	ICIS-NPDES NON-MAJOR
110032761303	MARBELLA	STORM WATER CONSTRUCTION
110032761848	AVIANA - PHASE 2 LOT 33-42 & 1	ICIS-NPDES NON-MAJOR
110032761848	AVIANA - PHASE 2 LOT 33-42 & 1	STORM WATER CONSTRUCTION
110032762865	LOUGHMAN CROSSING AT CR-54	ICIS-NPDES NON-MAJOR
110032762865	LOUGHMAN CROSSING AT CR-54	STORM WATER CONSTRUCTION
110032763613	AVIANA PHASE 2	STORM WATER CONSTRUCTION
110032763613	AVIANA PHASE 2	ICIS-NPDES NON-MAJOR

Facility ID	Facility Name	Permit or Program Type
110032771588	SANDY RIDGE - PHASE 2	ICIS-NPDES NON-MAJOR
110032771588	SANDY RIDGE - PHASE 2	STORM WATER CONSTRUCTION
110032782308	HERITAGE GREEN	ICIS-NPDES NON-MAJOR
110032782308	HERITAGE GREEN	STORM WATER CONSTRUCTION
110032782326	LAKESIDE VILLAS	ICIS-NPDES NON-MAJOR
110032782326	LAKESIDE VILLAS	STORM WATER CONSTRUCTION
110032783174	DRAYTON WOODS - LOT 14,15,16,3	ICIS-NPDES NON-MAJOR
110032783174	DRAYTON WOODS - LOT 14,15,16,3	STORM WATER CONSTRUCTION
110032807149	PROVIDENCE - PHASE 1	ICIS-NPDES NON-MAJOR
110032807149	PROVIDENCE - PHASE 1	STORM WATER CONSTRUCTION
110032807176	PROVIDENCE PHASE 2 MASS GRADIN	ICIS-NPDES NON-MAJOR
110032807176	PROVIDENCE PHASE 2 MASS GRADIN	STORM WATER CONSTRUCTION
110032809904	PROVIDENCE GOLF CLUB HOUSE	ICIS-NPDES NON-MAJOR
110032809904	PROVIDENCE GOLF CLUB HOUSE	STORM WATER CONSTRUCTION
110032809904	PROVIDENCE GOLF CLUB HOUSE	ICIS-NPDES NON-MAJOR
110032809904	PROVIDENCE GOLF CLUB HOUSE	STORM WATER CONSTRUCTION
110032809904	PROVIDENCE GOLF CLUB HOUSE	ICIS-NPDES NON-MAJOR
110032809904	PROVIDENCE GOLF CLUB HOUSE	STORM WATER CONSTRUCTION
110035457154	TROPICAL LAKES	ICIS-NPDES NON-MAJOR
110035457154	TROPICAL LAKES	STORM WATER CONSTRUCTION
110035530930	SUNSET RIDGE	ICIS-NPDES NON-MAJOR
110035530930	SUNSET RIDGE	STORM WATER CONSTRUCTION
110035714554	LIMASSOL LOUNGE	ICIS-NPDES NON-MAJOR
110035714554	LIMASSOL LOUNGE	STORM WATER CONSTRUCTION
110037469628	PRESTON WOODS	ICIS-NPDES NON-MAJOR
110037469628	PRESTON WOODS	STORM WATER CONSTRUCTION
110041266322	SR-600 ROADWAY RESURFACING-CUL	ICIS-NPDES NON-MAJOR
110041266322	SR-600 ROADWAY RESURFACING-CUL	STORM WATER CONSTRUCTION
110043168700	DOLLAR GENERAL AT LOUGHMAN	ICIS-NPDES NON-MAJOR
110043168700	DOLLAR GENERAL AT LOUGHMAN	STORM WATER CONSTRUCTION
110046304584	LOUGHMAN LANDINGS	ICIS-NPDES NON-MAJOR
110046304584	LOUGHMAN LANDINGS	STORM WATER CONSTRUCTION
110046304584	LOUGHMAN LANDINGS	ICIS-NPDES NON-MAJOR
110046304584	LOUGHMAN LANDINGS	STORM WATER CONSTRUCTION
110046332866	WILSON PARK	ICIS-NPDES NON-MAJOR
110046332866	WILSON PARK	STORM WATER CONSTRUCTION
110055364564	GRANTHAM SPRINGS N10, LAKESIDE VILLAS N4 & VICTORIA WOODS N9	STORM WATER CONSTRUCTION
110055364564	GRANTHAM SPRINGS N10, LAKESIDE VILLAS N4 & VICTORIA WOODS N9	ICIS-NPDES NON-MAJOR
110056989166	CORTLAND WOODS	ICIS-NPDES NON-MAJOR
110060354646	DRAYTON-PRESTON WOODS AT PROVIDENCE	ICIS-NPDES NON-MAJOR
110060354646	DRAYTON-PRESTON WOODS AT PROVIDENCE	STORM WATER CONSTRUCTION

Facility ID	Facility Name	Permit or Program Type
110063603676	J & N STONE - MASTER DEVELOPMENT PLAN	ICIS-NPDES NON-MAJOR
110063603676	J & N STONE - MASTER DEVELOPMENT PLAN	STORM WATER CONSTRUCTION
110063605905	PROVIDENCE	STORM WATER CONSTRUCTION
110063605905	PROVIDENCE	ICIS-NPDES NON-MAJOR
110064409395	CITRUS CENTER SUBSTATION	STORM WATER CONSTRUCTION
110064409395	CITRUS CENTER SUBSTATION	ICIS-NPDES NON-MAJOR
110064410043	PROVIDENCE N2 & N3	ICIS-NPDES NON-MAJOR
110064410043	PROVIDENCE N2 & N3	STORM WATER CONSTRUCTION
110064867595	AVIANA	STORM WATER CONSTRUCTION
110064867595	AVIANA	ICIS-NPDES NON-MAJOR
110067177851	BELLA VITA PH 3	ICIS-NPDES NON-MAJOR
110067177851	BELLA VITA PH 3	STORM WATER CONSTRUCTION
110067177851	BELLA VITA PH 3	ICIS-NPDES NON-MAJOR
110067177851	BELLA VITA PH 3	STORM WATER CONSTRUCTION
110067177851	BELLA VITA PH 3	ICIS-NPDES NON-MAJOR
110067177851	BELLA VITA PH 3	STORM WATER CONSTRUCTION
110067177851	BELLA VITA PH 3	ICIS-NPDES NON-MAJOR
110067177851	BELLA VITA PH 3	STORM WATER CONSTRUCTION
110067371659	GILL MANUFACTURING INC.	STORM WATER INDUSTRIAL
110067371659	GILL MANUFACTURING INC.	ICIS-NPDES NON-MAJOR
110069488762	DRAYTON WOODS AT PROVIDENCE	ICIS-NPDES NON-MAJOR
110069488762	DRAYTON WOODS AT PROVIDENCE	STORM WATER CONSTRUCTION
110069580625	KINDER MORGAN PETROLEUM #66240	ICIS-NPDES NON-MAJOR
110070045910	GREENFIELD	ICIS-NPDES NON-MAJOR
110070045910	GREENFIELD	STORM WATER CONSTRUCTION
110070045910	GREENFIELD	ICIS-NPDES NON-MAJOR
110070045910	GREENFIELD	STORM WATER CONSTRUCTION
110070264269	LOUGHMAN OAKS ELEMENTARY SCHOOL	ICIS-NPDES NON-MAJOR
110070266011	PROVIDENCE-CAMDEN PARK	STORM WATER CONSTRUCTION
110070266011	PROVIDENCE-CAMDEN PARK	ICIS-NPDES NON-MAJOR
110070388381	LOUGHMAN CROSSING AT COUNTY RD 54 & 17/92	STORM WATER CONSTRUCTION
110070388381	LOUGHMAN CROSSING AT COUNTY RD 54 & 17/92	ICIS-NPDES NON-MAJOR
110070391444	FIRST PLACE	STORM WATER CONSTRUCTION
110070391444	FIRST PLACE	STORM WATER CONSTRUCTION
110070391444	FIRST PLACE	ICIS-NPDES NON-MAJOR
110070391444	FIRST PLACE	ICIS-NPDES NON-MAJOR
110070603601	TRUCKING PARKING FACILITY AT SUNNY ACRES LOT 46 & 51	ICIS-NPDES NON-MAJOR
110070603601	TRUCKING PARKING FACILITY AT SUNNY ACRES LOT 46 & 51	STORM WATER CONSTRUCTION
110070625888	HEARTLAND DENTAL-LOUGHMAN, FL	ICIS-NPDES NON-MAJOR
110070625888	HEARTLAND DENTAL-LOUGHMAN, FL	STORM WATER CONSTRUCTION
110070669326	BURGER KING	ICIS-NPDES NON-MAJOR

Facility ID	Facility Name	Permit or Program Type
110070669326	BURGER KING	STORM WATER CONSTRUCTION
110070674151	DAVENPORT SEWER EXTENSION	ICIS-NPDES NON-MAJOR
110070674151	DAVENPORT SEWER EXTENSION	STORM WATER CONSTRUCTION
110070675074	VISTAMAR VILLAGES PHASES 1 AND 2	ICIS-NPDES NON-MAJOR
110070675074	VISTAMAR VILLAGES PHASES 1 AND 2	STORM WATER CONSTRUCTION
110070695526	AUTOZONE #5195	ICIS-NPDES NON-MAJOR
110070695526	AUTOZONE #5195	STORM WATER CONSTRUCTION
110070741573	VISTA MAR VILLAGES	ICIS-NPDES NON-MAJOR
110070741573	VISTA MAR VILLAGES	STORM WATER CONSTRUCTION
110070832954	VISTA MAR	ICIS-NPDES NON-MAJOR
110070832954	VISTA MAR	STORM WATER CONSTRUCTION
110070865587	DAVENPORT COMMUNITY CENTER	ICIS-NPDES NON-MAJOR
110070865587	DAVENPORT COMMUNITY CENTER	STORM WATER CONSTRUCTION
110070947750	HORSE CREEK PHASE 1A	ICIS-NPDES NON-MAJOR
110070947750	HORSE CREEK PHASE 1A	STORM WATER CONSTRUCTION
110070947974	LOUGHMAN FIRE RESCUE STATION	ICIS-NPDES NON-MAJOR
110070947974	LOUGHMAN FIRE RESCUE STATION	STORM WATER CONSTRUCTION
110071157554	MATER ACADEMY	ICIS-NPDES NON-MAJOR
110071157554	MATER ACADEMY	STORM WATER CONSTRUCTION
110071178938	HORSE CREEK	STORM WATER CONSTRUCTION
110071178938	HORSE CREEK	ICIS-NPDES NON-MAJOR
110071180753	HOLLYWOOD HOMES	ICIS-NPDES NON-MAJOR
110071180753	HOLLYWOOD HOMES	STORM WATER CONSTRUCTION
110071253162	HORSE CREEK	ICIS-NPDES NON-MAJOR
110071253162	HORSE CREEK	STORM WATER CONSTRUCTION
110071370298	TEMPLES CROSSING	ICIS-NPDES NON-MAJOR
110071370298	TEMPLES CROSSING	STORM WATER CONSTRUCTION
110071377647	HILLPOINTE DAVENPORT MULTIFAMILY	ICIS-NPDES NON-MAJOR
110071377647	HILLPOINTE DAVENPORT MULTIFAMILY	STORM WATER CONSTRUCTION
110071435414	O'REILLY AUTO PARTS	ICIS-NPDES NON-MAJOR
110071435414	O'REILLY AUTO PARTS	STORM WATER CONSTRUCTION
110071439359	HORSE CREEK	ICIS-NPDES NON-MAJOR
110071439359	HORSE CREEK	STORM WATER CONSTRUCTION
110071525798	TOWNHOMES AT VISTA VILLAGE	STORM WATER CONSTRUCTION
110071525798	TOWNHOMES AT VISTA VILLAGE	ICIS-NPDES NON-MAJOR
110071643849	TEMPLES CROSSING	ICIS-NPDES NON-MAJOR
110071643849	TEMPLES CROSSING	STORM WATER CONSTRUCTION
110071727159	POWERLINE ROAD 1ST EXTENSION	ICIS-NPDES NON-MAJOR
110071727159	POWERLINE ROAD 1ST EXTENSION	STORM WATER CONSTRUCTION
110071728231	TLE LOUGHMAN	ICIS-NPDES NON-MAJOR

Facility ID	Facility Name	Permit or Program Type
110071728231	TLE LOUGHMAN	STORM WATER CONSTRUCTION

Summary: 152 feature(s) found within buffer.

FDEP NPDES Stormwater Permits

Metadata: https://etdmpub.fl.a-etat.org/meta/npdes_stormwater.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Permittee and Permit ID		Permit ID
DAVENPORT, CITY OF [FLS0000015]		FLS0000015
OSCEOLA COUNTY [FLR04E012]		FLR04E012
POLK COUNTY [FLS0000015]		FLS0000015

Summary: 5585.6 acres, 100 percent of analysis area.

FDEP Verified Impaired Florida Waters

Metadata: https://etdmpub.fl.a-etat.org/meta/impaired_waters.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name and Waterbody ID	Unique Waterbody Identifier Number	Impairment(s) that Failed Water Quality Standards	Parameter Group
HORSE (HORSESHOE) CREEK [WBID: 1436]	1436	FECAL COLIFORM	BACTERIA

Summary: 1496.66 acres, 26.8 percent of analysis area.

FDOT WBIDs with Verified Nutrient or Dissolved Oxygen Impairment or Adopted TMDLs or RAPs for the State of Florida

Metadata: https://etdmpub.fl.a-etat.org/meta/vi_tmdl_ra.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name and Waterbody ID	Waterbody ID
HORSE (HORSESHOE) CREEK [WBID: 1436]	1436
REEDY CREEK ABOVE LAKE RUSSELL [WBID: 3170C]	3170C

Summary: 5585.6 acres, 100 percent of analysis area.

FDEP Basin Management Action Plans (BMAP) Areas in Florida

Metadata: https://etdmpub.fl-a-etat.org/meta/bmap_area.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

TMDL Basin Rotation Group	Description	Type	Status
LAKE OKEECHOBEE	LAKE OKEECHOBEE	SURFACE WATER BMAP	ADOPTED BMAPS

Summary: 5585.6 acres, 100 percent of analysis area.

FDEP Waterbody IDs

Metadata: <https://etdmpub.fl-a-etat.org/meta/wbids.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name and Waterbody ID
HORSE (HORSESHOE) CREEK [WBID: 1436]
REEDY CREEK ABOVE LAKE RUSSELL [WBID: 3170C]

Summary: 5585.6 acres, 100 percent of analysis area.

FDEP Watershed Information Network (WIN) Monitoring Locations

Metadata: https://etdmpub.fl-a-etat.org/meta/win_monitor_loc.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Primary Type	Name and ID	Google Map
SURFACE WATER	HORSE CREEK @ 547 [M LOC ID: G4CE0207]	https://www.google.com/maps/place/17RMMM4128116792
SURFACE WATER	HORSE CRK2 [M LOC ID: HORSE CRK2]	https://www.google.com/maps/place/17RMMM4128016789

Summary: 2 feature(s) found within buffer.

FNAI CLIP Version 4 Aquifer Recharge

Metadata: https://etdmpub.flh-etat.org/meta/clipv4_recharge.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
PRIORITY 1 - HIGHEST	62.27	1.11%
PRIORITY 2	1,184.91	21.21%
PRIORITY 3	2,504.82	44.84%
PRIORITY 4	1,348.99	24.15%
PRIORITY 5	369.17	6.61%
PRIORITY 6	115.98	2.08%
Totals	5,586.15	-

FDEP Floridan Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.flh-etat.org/meta/fava_fas_response.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
MOST VULNERABLE	5,588.09	100.0%
Totals	5,588.09	-

FDEP Intermediate Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.flh-etat.org/meta/fava_ias_response.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	5,589.2	100.0%
Totals	5,589.2	-

SWFWMD Recharge Areas of the Floridan Aquifer

Metadata: <https://etdmpub.flh-etat.org/meta/rcharg.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Description	Area of Interest	
	Acr	Pct
RECHARGE/1 TO 10	2,995.22	53.62%
DISCHARGE/1 TO 5	2,590.37	46.38%
Totals	5,585.6	-

FDOH Known On-Site Septic Systems

Metadata: https://etdmpub.flh-etat.org/meta/flwmi_well_septic.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Septic (Known)	0 Ft.
KnownSeptic	226

FDOH Likely On-Site Septic Systems

Metadata: https://etdmpub.flh-etat.org/meta/flwmi_well_septic.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Septic (Likely or Somewhat Likely)	0 Ft.
LikelySeptic	598
SWLSeptic	4

FDOH Limited Use Drinking Water Wells

Metadata: <https://etdmpub.fl-a-etat.org/meta/drinkwater.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Status	Permit Number	Description
ACTIVE	53-57-00568	BAILEY'S TRAILER PARK
ACTIVE	53-57-00984	CEMEX - DAVENPORT READY MIX
ACTIVE	49-57-00287	TIM GOAD MINISTRIES
ACTIVE	53-57-00652	STANDARD SAND & SILICA (FLINT)
ACTIVE	53-57-00651	CEMEX - DAVENPORT MINE
ACTIVE	53-57-00647	STANDARD SAND & SILICA/BAGGING
ACTIVE	53-57-00635	SUMMERLIN FENCE
ACTIVE	53-57-1292210	WANDA'S COUNTRY STORE
ACTIVE	53-57-1373412	LOUGHMAN CIVIC CENTER
ACTIVE	53-57-1495299	CEMEX/DAVENPORT SHOPS
ACTIVE	53-57-00488	NEW DESTINY ASSEMBLY OF GOD
ACTIVE	53-57-1650643	A DIRECT AUTO SERVICE
ACTIVE	53-57-00803	FIRST BAPTIST CHURCH OF LOUGHMAN
ACTIVE	53-57-1526683	HILLIARD MHP
ACTIVE	53-57-1529239	LOEBER LAND MHP
ACTIVE	53-57-1303193	SHADY OAK RECREATION AREA
ACTIVE	49-57-00136	ACE WRECKER SERVICE

Summary: 17 feature(s) found within buffer.

SWFWMD Well Construction Permit Locations

Metadata: https://etdmpub.fl-a-etat.org/meta/sw_wcp.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Well Permit number	Site Name	Well Owner	Google Map
335179.0	335179 - 1	BD OF C COM	https://www.google.com/maps/place/17RMM4450223668
342303.0	342303 - 1	GERALD SMITH	https://www.google.com/maps/place/17RMM4450223668
345713.0	345713 - 1	EASON J W	https://www.google.com/maps/place/17RMM4123717217
346928.0	346928 - 1	VIRGIL SEARS, JR.	https://www.google.com/maps/place/17RMM4122415599
349901.0	349901 - 1	DONALD N. GOTTS	https://www.google.com/maps/place/17RMM4123717217
351277.0	351277 - 1	ALBERT S TEMPLES	https://www.google.com/maps/place/17RMM4123717217
351278.0	351278 - 1	CARNEL CHAPPIN	https://www.google.com/maps/place/17RMM4285420456
352432.0	352432 - 1	BREWER, JAMES	https://www.google.com/maps/place/17RMM4450223668
353450.0	353450 - 1	BILL HANCOCK	https://www.google.com/maps/place/17RMM4346421458
353547.0	353547 - 1	CONROY, MARTHA	https://www.google.com/maps/place/17RMM4285420456
354756.0	354756 - 1	POLK CO	https://www.google.com/maps/place/17RMM4450223668
362270.0	362270 - 1	JONES, CARL O.	https://www.google.com/maps/place/17RMM4123717217
364132.0	364132 - 1	LAFAUCI, SANTO	https://www.google.com/maps/place/17RMM4450223668
368471.0	368471 - 1	BAR-BAR-WEN	https://www.google.com/maps/place/17RMM4448922054
372551.0	372551 - 1	MERRITT SR., PATRICK	https://www.google.com/maps/place/17RMM4123717217
373463.0	373463 - 1	MERRITT SR., PATRICK	https://www.google.com/maps/place/17RMM4123717217
373794.0	373794 - 1	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4190218145
379555.0	379555 - 1	TOWN OF DAVENPORT	https://www.google.com/maps/place/17RMM4123717217

Well Permit number	Site Name	Well Owner	Google Map
379574.0	379574 - 1	TOWN OF DAVENPORT	RMM4122415599 https://www.google.com/maps/place/17RMM4122415599
380590.0	380590 - 1	R V CORRAL INC	https://www.google.com/maps/place/17RMM4369421020
382816.0	382816 - 1	WILLIAMS, BILL	https://www.google.com/maps/place/17RMM4122415599
384564.0	384564 - 1	GRAHAM, JAMES	https://www.google.com/maps/place/17RMM4285420456
393057.0	393057 - 1	FRONTIER COMMUNICATIONS / ATTN: J. MCELMAN, P.G.	https://www.google.com/maps/place/17RMM4122415599
397785.0	397785 - 1	DUDDLY, CHARIS	https://www.google.com/maps/place/17RMM4122415599
399358.0	399358 - 1	GARY HILL	https://www.google.com/maps/place/17RMM4450223668
402279.0	402279 - 1	BREWER, BETTY & JOHNNY	https://www.google.com/maps/place/17RMM4285218839
402545.0	402545 - 1	GLOVER, JOHN	https://www.google.com/maps/place/17RMM4122415599
402546.0	402546 - 1	HIGDON, LEON	https://www.google.com/maps/place/17RMM4122415599
402547.0	402547 - 1	THOMPSON, BYRON	https://www.google.com/maps/place/17RMM4122415599
404291.0	404291 - 1	MATHEWS, WILLIE	https://www.google.com/maps/place/17RMM4123717217
404764.0	404764 - 1	HAMILTON, MARY	https://www.google.com/maps/place/17RMM4123717217
406763.0	406763 - 1	GRETA FISCHER	https://www.google.com/maps/place/17RMM4450223668
406972.0	406972 - 1	MONTOYA, PEDRO OR LAURIE	https://www.google.com/maps/place/17RMM4510223468
410518.0	410518 - 1	HAYWOOD, CALVIN	https://www.google.com/maps/place/17RMM4450223668
411696.0	411696 - 1	MILLER, JOHN R.	https://www.google.com/maps/place/17RMM4380420306
412740.0	412740 - 1	PATTON, E	https://www.google.com/maps/place/17RMM4450223668
413219.0	413219 - 1	AQUITATO, STEPHEN C & JOAN M	https://www.google.com/maps/place/17RMM4285420456
415684.0	415684 - 1	ERICKSON, J	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
416481.0	416481 - 1	PRICE, RITA	https://www.google.com/maps/place/17RMM4450223668
416769.0	416769 - 1	LOCKE, FLOYD	https://www.google.com/maps/place/17RMM4122415599
416786.0	416786 - 1	CHARLES S CAMPBELL	https://www.google.com/maps/place/17RMM4122415599
419567.0	419567 - 1	T J CAMPBELL OIL CO	https://www.google.com/maps/place/17RMM4122415599
419568.0	419568 - 1	T J CAMPBELL OIL CO	https://www.google.com/maps/place/17RMM4122415599
419569.0	419569 - 1	T J CAMPBELL OIL CO	https://www.google.com/maps/place/17RMM4122415599
419570.0	419570 - 1	T J CAMPBELL OIL CO	https://www.google.com/maps/place/17RMM4122415599
419649.0	419649 - 1	DICKERSON, MARGERIE	https://www.google.com/maps/place/17RMM4123717217
420056.0	420056 - 1	HEFFLEY, OLIVER	https://www.google.com/maps/place/17RMM4143717417
420165.0	420165 - 1	CROSBY, DON	https://www.google.com/maps/place/17RMM4510223468
423106.0	423106 - 1	FARRAH, BEVERLY	https://www.google.com/maps/place/17RMM4450223668
428461.0	428461 - 1	JONES, COY	https://www.google.com/maps/place/17RMM4123717217
430753.0	430753 - 1	MICHALAK, ROBERT	https://www.google.com/maps/place/17RMM4123717217
430754.0	430754 - 1	PUSSEY, JOSHUA & KATIE	https://www.google.com/maps/place/17RMM4123717217
431393.0	431393 - 1	ALLEN, ROBERT	https://www.google.com/maps/place/17RMM4123717217
432081.0	432081 - 1	CARDNER, CHARLES	https://www.google.com/maps/place/17RMM4123717217
432555.0	432555 - 1	USTACH, WALTER & MYRA	https://www.google.com/maps/place/17RMM4123717217
433538.0	433538 - 1	CHARLES GARDNER	https://www.google.com/maps/place/17RMM4123717217
433705.0	433705 - 1	CASTRO, JAMES	https://www.google.com/maps/place/17RMM4123717217
434197.0	434197 - 1	BAILEY, JAMES R	https://www.google.com/maps/place/17RMM4123717217
434199.0	434199 - 1	EMBRY, DARRIN	https://www.google.com/maps/place/17RMM4123717217

Well Permit number	Site Name	Well Owner	Google Map
434609.0	434609 - 1	BIELEFELD, PHYLLIP	RMM4123717217 https://www.google.com/maps/place/17RMM4123717217
434826.0	434826 - 1	HOPPER, MARK T	https://www.google.com/maps/place/17RMM4123717217
435121.0	435121 - 1	COOPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4450223668
435270.0	435270 - 1	DENHAM, TERRY	https://www.google.com/maps/place/17RMM4123717217
436845.0	436845 - 1	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4123717217
437680.0	437680 - 1	JACKSON, RICHARD E	https://www.google.com/maps/place/17RMM4123717217
439105.0	439105 - 1	HILLARD, JERRY	https://www.google.com/maps/place/17RMM4123717217
439686.0	439686 - 1	CARSON, RED	https://www.google.com/maps/place/17RMM4123717217
440414.0	440414 - 1	FORE OIL CO INC	https://www.google.com/maps/place/17RMM4122415599
440415.0	440415 - 1	FORE OIL CO INC	https://www.google.com/maps/place/17RMM4122415599
440416.0	440416 - 1	FORE OIL CO INC	https://www.google.com/maps/place/17RMM4122415599
440417.0	440417 - 1	FORE OIL CO INC	https://www.google.com/maps/place/17RMM4122415599
440591.0	440591 - 1	BROWN, VERNON	https://www.google.com/maps/place/17RMM4123717217
440673.0	440673 - 1	OAGLES, MARGARET	https://www.google.com/maps/place/17RMM4123717217
440722.0	440722 - 1	GREEN, JEFFERY	https://www.google.com/maps/place/17RMM4123717217
440723.0	440723 - 1	EMBRY, DARRIN	https://www.google.com/maps/place/17RMM4123717217
441170.0	441170 - 1	OAGLES, MARGARET	https://www.google.com/maps/place/17RMM4123717217
441302.0	441302 - 1	WILLIAM O JOHNSON	https://www.google.com/maps/place/17RMM4123717217
441305.0	441305 - 1	DEER RUN ESTATES	https://www.google.com/maps/place/17RMM4448922054
441307.0	441307 - 1	DEER RUN ESTATES	https://www.google.com/maps/place/17RMM4448922054

Well Permit number	Site Name	Well Owner	Google Map
441404.0	441404 - 1	MORLAND, RALPH	https://www.google.com/maps/place/17RMM4122415599
441946.0	441946 - 1	LOVERN, JIM	https://www.google.com/maps/place/17RMM4123717217
441947.0	441947 - 1	PORTER, RAYMOND	https://www.google.com/maps/place/17RMM4123717217
442362.0	442362 - 1	KOON, CARL	https://www.google.com/maps/place/17RMM4123717217
442434.0	442434 - 1	GREEN SWAMP ENTERPRISE	https://www.google.com/maps/place/17RMM4510223868
442513.0	442513 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
442514.0	442514 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
442515.0	442515 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
442516.0	442516 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
442805.0	442805 - 1	HAMILTON, JILES	https://www.google.com/maps/place/17RMM4123717217
442941.0	442941 - 1	GREEN SWAMP ENTERPRISE	https://www.google.com/maps/place/17RMM4510223868
443797.0	443797 - 1	TEMPLES, RANDY	https://www.google.com/maps/place/17RMM4122415599
444575.0	444575 - 1	CURRIE, PATRICK	https://www.google.com/maps/place/17RMM4123717217
444839.0	444839 - 1	ALBERT TEMPLES	https://www.google.com/maps/place/17RMM4123717217
447421.0	447421 - 1	CURRIE, PATRICK	https://www.google.com/maps/place/17RMM4123717217
447763.0	447763 - 1	JOHNSON, BRAD	https://www.google.com/maps/place/17RMM4448922054
447969.0	447969 - 1	MARBLE, KENNETH	https://www.google.com/maps/place/17RMM4448922054
447970.0	447970 - 1	JOHNSON, BRAD	https://www.google.com/maps/place/17RMM4448922054
453795.0	453795 - 1	VARGAS, OSCAR L.	https://www.google.com/maps/place/17RMM4123717217
462025.0	462025 - 1	HIGDON, LEON	https://www.google.com/maps/place/17RMM4122415599
465382.0	465382 - 1	DONALD N. GOTTS	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
466464.0	466464 - 1	BROWN, GALE	RMM4122415599 https://www.google.com/maps/place/17RMM4122415599
468268.0	468268 - 1	BURNSIDE, DAVID	https://www.google.com/maps/place/17RMM4123717217
469387.0	469387 - 1	DEER RUN ESTATES	https://www.google.com/maps/place/17RMM4448922054
471677.0	471677 - 1	LEE WELKER	https://www.google.com/maps/place/17RMM4123717217
472566.0	472566 - 1	LAROCHE INDUSTRIES INC	https://www.google.com/maps/place/17RMM4123717217
472567.0	472567 - 1	LAROCHE INDUSTRIES INC	https://www.google.com/maps/place/17RMM4123717217
472568.0	472568 - 1	LAROCHE INDUSTRIES INC	https://www.google.com/maps/place/17RMM4123717217
472569.0	472569 - 1	LAROCHE INDUSTRIES INC	https://www.google.com/maps/place/17RMM4123717217
472570.0	472570 - 1	LAROCHE INDUSTRIES INC	https://www.google.com/maps/place/17RMM4123717217
473306.0	473306 - 1	HIGHTOWER, CHARLIE	https://www.google.com/maps/place/17RMM4123717217
475129.0	475129 - 1	SEAY, JOHNNIE	https://www.google.com/maps/place/17RMM4285420456
477457.0	477457 - 1	WRIGHT, FRANK	https://www.google.com/maps/place/17RMM4123717217
479355.0	479355 - 1	ALFORD, W. A.	https://www.google.com/maps/place/17RMM4123717217
479786.0	479786 - 1	POLK COUNTY BOARD OF COUNTY COMM	https://www.google.com/maps/place/17RMM4450223668
479964.0	479964 - 1	DENHAM, SUSAN	https://www.google.com/maps/place/17RMM4448922054
480750.0	480750 - 1	POLK BOARD OF CO.COMM,FIRE DEPT	https://www.google.com/maps/place/17RMM4450223668
480751.0	480751 - 1	POLK BOARD OF CO.COMM,FIRE DEPT	https://www.google.com/maps/place/17RMM4450223668
480968.0	480968 - 1	BOARD OF CO. COMM.	https://www.google.com/maps/place/17RMM4450223668
481737.0	481737 - 1	POLK COUNTY BOARD OF COUNTY COMM	https://www.google.com/maps/place/17RMM4450223668
482784.0	482784 - 1	MARKSTALER, MICHAEL	https://www.google.com/maps/place/17RMM4123717217

Well Permit number	Site Name	Well Owner	Google Map
483054.0	483054 - 1	MARKSTALER, MICHAEL	https://www.google.com/maps/place/17RMM4123717217
485514.0	485514 - 1	DEER RUN ESTATES	https://www.google.com/maps/place/17RMM4448922054
487829.0	487829 - 1	ALBANESE, BUTCH	https://www.google.com/maps/place/17RMM4123717217
488973.0	488973 - 1	SMITH, RICHARD & JACKIE	https://www.google.com/maps/place/17RMM4285420456
489242.0	489242 - 1	WILLIAM G ROE & SONS, INC.	https://www.google.com/maps/place/17RMM4122415599
490338.0	490338 - 1	KOCH OIL	https://www.google.com/maps/place/17RMM4450223668
490339.0	490339 - 1	KOCH OIL	https://www.google.com/maps/place/17RMM4450223668
491887.0	491887 - 1	TOM SEESE	https://www.google.com/maps/place/17RMM4123717217
493947.0	493947 - 1	PRICE, RICHARD	https://www.google.com/maps/place/17RMM4123717217
495085.0	495085 - 1	MILLER, JACK, JR	https://www.google.com/maps/place/17RMM4614025269
495990.0	495990 - 1	BOB ZIMMERLY	https://www.google.com/maps/place/17RMM4122415599
501778.0	501778 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4123717217
501779.0	501779 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4123717217
501780.0	501780 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4123717217
501781.0	501781 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4123717217
504556.0	504556 - 1	BISHOP GRAY INN	https://www.google.com/maps/place/17RMM4122415599
504557.0	504557 - 1	BISHOP GRAY INN	https://www.google.com/maps/place/17RMM4122415599
504558.0	504558 - 1	BISHOP GRAY INN	https://www.google.com/maps/place/17RMM4122415599
505315.0	505315 - 1	CHARLES BRUCKER	https://www.google.com/maps/place/17RMM4450223668
505431.0	505431 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4430223468
505586.0	505586 - 1	MORRIS ADDISON	https://www.google.com/maps/place/17RMM4430223468

Well Permit number	Site Name	Well Owner	Google Map
			RMM4430223868
506547.0	506547 - 1	BRASWELL, W.L.	https://www.google.com/maps/place/17RMM4123717217
508718.0	508718 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4430223468
511654.0	511654 - 1	JOHNSON, BRAD	https://www.google.com/maps/place/17RMM4428922254
513328.0	513328 - 1	ROCKY STRINGFELLOW	https://www.google.com/maps/place/17RMM4387920642
513403.0	513403 - 1	RUFUS PAINNEY	https://www.google.com/maps/place/17RMM4430223868
513829.0	513829 - 1	STAN HEDGEPEETH	https://www.google.com/maps/place/17RMM4468922654
513830.0	513830 - 1	BRAD JOHNSON CONSTRUCTION	https://www.google.com/maps/place/17RMM4468922654
514110.0	514110 - 4	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514110.0	514110 - 5	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514110.0	514110 - 6	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514110.0	514110 - 1	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514110.0	514110 - 2	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514110.0	514110 - 3	FIELDS CADILLAC	https://www.google.com/maps/place/17RMM4122415599
514804.0	514804 - 1	POLK COUNTY SCHOOL BOARD	https://www.google.com/maps/place/17RMM4468922654
515617.0	515617 - 1	POLK CO SCHOOL BOARD	https://www.google.com/maps/place/17RMM4468922654
517915.0	517915 - 1	JOHN BLACK	https://www.google.com/maps/place/17RMM4122415599
518958.0	518958 - 1	JIM EMORY	https://www.google.com/maps/place/17RMM4510223868
519842.0	519842 - 1	JOHNSON DEVELOPMENT CO.	https://www.google.com/maps/place/17RMM4508921854
522672.0	522672 - 1	ROBERT SMITH	https://www.google.com/maps/place/17RMM4143717017
523094.0	523094 - 1	FRANK JUDY	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
527853.0	527853 - 1	KEITH KEENAN	https://www.google.com/maps/place/17RMM4143717017
533394.0	533394 - 1	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4430223868
533394.0	533394 - 3	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4430223868
533394.0	533394 - 4	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4430223868
533394.0	533394 - 5	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4430223868
533394.0	533394 - 2	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4430223868
535920.0	535920 - 1	HOWARD CISCO	https://www.google.com/maps/place/17RMM4510223868
536185.0	536185 - 1	LEREOY KNOWLES	https://www.google.com/maps/place/17RMM4122415599
537401.0	537401 - 1	HENRY LOZANO,	https://www.google.com/maps/place/17RMM4430223468
538153.0	538153 - 1	AL LAMKE	https://www.google.com/maps/place/17RMM4265419856
539580.0	539580 - 1	CHARLES NAFZIGER	https://www.google.com/maps/place/17RMM4122415599
540769.0	540769 - 1	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470223468
540769.0	540769 - 2	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470223468
540769.0	540769 - 3	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470223468
540769.0	540769 - 4	U S POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470223468
546155.0	546155 - 1	JOHN LYONS	https://www.google.com/maps/place/17RMM4508922254
548256.0	548256 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 2	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 3	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 4	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468

Well Permit number	Site Name	Well Owner	Google Map
548257.0	548257 - 5	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 8	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 6	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548257.0	548257 - 7	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548258.0	548258 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548258.0	548258 - 2	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
548259.0	548259 - 1	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
548259.0	548259 - 2	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
548259.0	548259 - 3	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
548260.0	548260 - 1	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223468
548608.0	548608 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
548757.0	548757 - 1	BENJAMIN ADAMS	https://www.google.com/maps/place/17RMM4122415599
550188.0	550188 - 1	HOLLY HILL FRUIT PRODUCTS CO., INC./ATTN: L. WARREN MCKNIGHT, JR	https://www.google.com/maps/place/17RMM4122415599
551045.0	551045 - 1	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4265218639
553088.0	553088 - 1	PRESTIGE HOMES	https://www.google.com/maps/place/17RMM4427920242
553697.0	553697 - 2	POLK COUNTY UTILITIES (NORTH LAKELAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468
553697.0	553697 - 3	POLK COUNTY UTILITIES (NORTH LAKELAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468
553697.0	553697 - 4	POLK COUNTY UTILITIES (NORTH LAKELAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468
553697.0	553697 - 5	POLK COUNTY UTILITIES (NORTH LAKELAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468
553697.0	553697 - 6	POLK COUNTY UTILITIES (NORTH LAKELAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468

Well Permit number	Site Name	Well Owner	Google Map
553697.0	553697 - 1	POLK COUNTY UTILITIES (NORTH LAKE LAND & MOUNT OLIVE AREA)	https://www.google.com/maps/place/17RMM4510223468
554582.0	554582 - 1	HANSON TAYLOR BELLOMO HORBERT	https://www.google.com/maps/place/17RMM4510223468
556043.0	556043 - 1	FRANK J ELLIS	https://www.google.com/maps/place/17RMM4510224268
556217.0	556217 - 1	FRANCIS SCHRANG	https://www.google.com/maps/place/17RMM4427920642
559523.0	559523 - 1	LIL' CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
559523.0	559523 - 2	LIL' CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
559523.0	559523 - 3	LIL' CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562031.0	562031 - 6	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
562974.0	562974 - 1	SONJA TEMPLE	https://www.google.com/maps/place/17RMM4123717217
565087.0	565087 - 1	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4208017253
565090.0	565090 - 1	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4285218839
565347.0	565347 - 1	EWELL INDUSTRIES INC	https://www.google.com/maps/place/17RMM4182718028
565385.0	565385 - 1	EWELL INDUSTRIES INC	https://www.google.com/maps/place/17RMM4182718028
568434.0	568434 - 1	LIL CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
568434.0	568434 - 2	LIL CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
568434.0	568434 - 3	LIL CHAMP FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
			RMM4122415599
568468.0	568468 - 1	ANRO INTERNATIONAL LIMITED	https://www.google.com/maps/place/17RMM4450223668
568901.0	568901 - 1	A J'S MOBIL HOME	https://www.google.com/maps/place/17RMM4420320778
570076.0	570076 - 1	MAGIC HOMES	https://www.google.com/maps/place/17RMM4427920642
570077.0	570077 - 1	MAGIC HOMES	https://www.google.com/maps/place/17RMM4427920642
570537.0	570537 - 1	BISHOP GRAY INN	https://www.google.com/maps/place/17RMM4122415599
572816.0	572816 - 1	JOHN H DAUENHAUER	https://www.google.com/maps/place/17RMM4123717217
574204.0	574204 - 1	MAGIC HOMES	https://www.google.com/maps/place/17RMM4420220431
574700.0	574700 - 1	JIM EMORY	https://www.google.com/maps/place/17RMM4450223668
574701.0	574701 - 1	JIM EMORY	https://www.google.com/maps/place/17RMM4450223668
575053.0	575053 - 1	BARBARA BRIGHT	https://www.google.com/maps/place/17RMM4420420727
575863.0	575863 - 1	TOM SPICHER	https://www.google.com/maps/place/17RMM4442820803
579158.0	579158 - 1	STEWART MOBILE HOMES	https://www.google.com/maps/place/17RMM4420220500
581452.0	581452 - 1	JIM EMORY	https://www.google.com/maps/place/17RMM4430223468
582053.0	582053 - 1	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582053.0	582053 - 2	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582054.0	582054 - 1	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582054.0	582054 - 2	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582054.0	582054 - 3	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582054.0	582054 - 4	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582054.0	582054 - 5	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668

Well Permit number	Site Name	Well Owner	Google Map
582054.0	582054 - 6	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
582460.0	582460 - 1	JIM EMORY	https://www.google.com/maps/place/17RMM4450223668
582479.0	582479 - 1	LAWRENCE D CURTISS	https://www.google.com/maps/place/17RMM4427520238
582824.0	582824 - 1	MAUREEN LEA	https://www.google.com/maps/place/17RMM4420320704
582825.0	582825 - 1	EDDIE THORTON	https://www.google.com/maps/place/17RMM4408620894
594270.0	594270 - 1	MORRIS S. & DOROTHY H. ADDISON	https://www.google.com/maps/place/17RMM4450223668
594278.0	594278 - 1	ROBERT ALLEN	https://www.google.com/maps/place/17RMM4422520180
597456.0	597456 - 1	THREE WORLDS LIMITED PARTNERSHIP	https://www.google.com/maps/place/17RMM4383320293
599047.0	599047 - 1	WALLY'S MINI MART	https://www.google.com/maps/place/17RMM4450223668
599074.0	599074 - 1	JIMMY EMORY	https://www.google.com/maps/place/17RMM4450223668
601983.0	601983 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
601983.0	601983 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
601983.0	601983 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
601983.0	601983 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
606000.0	606000 - 1	FRED BURRESS	https://www.google.com/maps/place/17RMM4122415599
606598.0	606598 - 1	BOBBY BARNES	https://www.google.com/maps/place/17RMM4430223868
606602.0	606602 - 1	JOHNNIE A ENLEY	https://www.google.com/maps/place/17RMM4305420256
607693.0	607693 - 1	RONNIE'S MANUFACTURED HOMES	https://www.google.com/maps/place/17RMM4452520932
607694.0	607694 - 1	RONNIE'S MANUFACTURED HOMES	https://www.google.com/maps/place/17RMM4438620772
608892.0	608892 - 1	RONNIE'S MANUFACTURED HOMES	https://www.google.com/maps/place/17RMM4448420901
608894.0	608894 - 1	BONNIE JO SONGER	https://www.google.com/maps/place/17RMM4448420901

Well Permit number	Site Name	Well Owner	Google Map
609287.0	609287 - 1	DONALD MARSHALL	RMM4430520766 https://www.google.com/maps/place/17RMM4377320955
610116.0	610116 - 1	RUTH GILLIAN	https://www.google.com/maps/place/17RMM4450223668
610676.0	610676 - 1	LOUGHMAN CIVIC CENTER % PATTY REDGRAVES	https://www.google.com/maps/place/17RMM4430223868
610800.0	610800 - 1	EXECUTIVE HOUSING	https://www.google.com/maps/place/17RMM4448420901
612101.0	612101 - 1	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
612101.0	612101 - 3	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4450223668
612101.0	612101 - 2	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4450223668
612101.0	612101 - 4	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4450223668
612101.0	612101 - 5	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4450223668
612485.0	612485 - 1	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
612485.0	612485 - 2	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
612485.0	612485 - 3	JANICE A SUMMERS	https://www.google.com/maps/place/17RMM4510223868
614111.0	614111 - 1	CASEY HARRIS	https://www.google.com/maps/place/17RMM4420220448
617941.0	617941 - 1	J D HANCOCK SR	https://www.google.com/maps/place/17RMM4123717217
621109.0	621109 - 1	PRESTO FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
621109.0	621109 - 3	PRESTO FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
621109.0	621109 - 4	PRESTO FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
621109.0	621109 - 2	PRESTO FOOD STORES, INC.	https://www.google.com/maps/place/17RMM4122415599
622349.0	622349 - 1	ALLEN STEPHENS	https://www.google.com/maps/place/17RMM4123717217
622634.0	622634 - 1	J D HANCOCK SR	https://www.google.com/maps/place/17RMM4123717217

Well Permit number	Site Name	Well Owner	Google Map
623669.0	623669 - 1	JULIE DEMEO	https://www.google.com/maps/place/17RMM4420220448
624432.0	624432 - 1	LAFAUCCI, SANTO	https://www.google.com/maps/place/17RMM4468922254
626462.0	626462 - 1	TONY LOZADA	https://www.google.com/maps/place/17RMM4450223668
629408.0	629408 - 1	LORI MACUMBER	https://www.google.com/maps/place/17RMM4430223868
631735.0	631735 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
631735.0	631735 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
631735.0	631735 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
631735.0	631735 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
631735.0	631735 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
632694.0	632694 - 1	GEROLD AMOS	https://www.google.com/maps/place/17RMM4430223868
636510.0	636510 - 1	LILLY JUDY	https://www.google.com/maps/place/17RMM4122415599
637850.0	637850 - 1	IRONWOOD HOMES	https://www.google.com/maps/place/17RMM4420220483
639458.0	639458 - 1	ASHOK PATEL	https://www.google.com/maps/place/17RMM4122415599
639458.0	639458 - 2	ASHOK PATEL	https://www.google.com/maps/place/17RMM4122415599
640658.0	640658 - 1	ELSIE STEWART	https://www.google.com/maps/place/17RMM4122415599
641114.0	641114 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
641114.0	641114 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
641114.0	641114 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
641114.0	641114 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
641114.0	641114 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
643946.0	643946 - 1	YOUNG CHALLENGERS CHRISTIAN PRE-SCHOOL	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
			RMM4450223668
644030.0	644030 - 1	UNITED STATES POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470224268
644030.0	644030 - 2	UNITED STATES POSTAL SERVICE	https://www.google.com/maps/place/17RMM4470224268
648405.0	648405 - 1	HAROLD E PROCTOR	https://www.google.com/maps/place/17RMM4123717217
649092.0	649092 - 1	CLIFFORD JORDAN	https://www.google.com/maps/place/17RMM4123717217
649354.0	649354 - 1	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
649354.0	649354 - 2	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
649354.0	649354 - 3	WILLIAM BYRD	https://www.google.com/maps/place/17RMM4510223468
652354.0	652354 - 1	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 2	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 3	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 4	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 5	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 6	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652354.0	652354 - 7	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
652355.0	652355 - 1	US POSTAL SERVICE FACILITIES SERVICE OFFICE	https://www.google.com/maps/place/17RMM4390223068
653714.0	653714 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
653714.0	653714 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
653714.0	653714 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
653714.0	653714 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
653859.0	653859 - 1	GARY PEARSON	https://www.google.com/maps/place/17RMM4120416855

Well Permit number	Site Name	Well Owner	Google Map
653964.0	653964 - 1	CARL JONES	https://www.google.com/maps/place/17RMM4143717017
656752.0	656752 - 1	LOUIS B RIVERA	https://www.google.com/maps/place/17RMM4470223868
656897.0	656897 - 1	HAROLD PROCTOR	https://www.google.com/maps/place/17RMM4143716617
659326.0	659326 - 1	AMOS ROBERTS	https://www.google.com/maps/place/17RMM4510223868
660861.0	660861 - 1	CENTRAL HOMES	https://www.google.com/maps/place/17RMM4510223868
661977.0	661977 - 1	VERA PESKAN	https://www.google.com/maps/place/17RMM4407520871
667326.0	667326 - 1	RINKER MATERIALS CORP DBA CSR RINKER	https://www.google.com/maps/place/17RMM4175518092
667469.0	667469 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 8	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 6	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 7	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667469.0	667469 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 6	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667471.0	667471 - 7	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599

Well Permit number	Site Name	Well Owner	Google Map
667471.0	667471 - 4	CIRCLE K CORP	RMM4122415599 https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 6	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 8	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667649.0	667649 - 7	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667651.0	667651 - 1	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667651.0	667651 - 2	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667651.0	667651 - 3	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667651.0	667651 - 4	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
667651.0	667651 - 5	CIRCLE K CORP	https://www.google.com/maps/place/17RMM4122415599
669723.0	669723 - 1	JEANETTE HUGHES	https://www.google.com/maps/place/17RMM4510223868
670407.0	670407 - 1	RINKER MATERIALS CORP	https://www.google.com/maps/place/17RMM4205917974
670592.0	670592 - 1	CO-OPERATIVES ENT	https://www.google.com/maps/place/17RMM4510223468
670592.0	670592 - 2	CO-OPERATIVES ENT	https://www.google.com/maps/place/17RMM4450223668
672988.0	672988 - 1	RINKER MATERIALS CORP	https://www.google.com/maps/place/17RMM4225218639
673534.0	673534 - 1	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468

Well Permit number	Site Name	Well Owner	Google Map
673534.0	673534 - 2	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 4	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 6	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 7	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 8	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 3	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673534.0	673534 - 5	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 1	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 2	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 3	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 4	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 5	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 6	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 7	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
673535.0	673535 - 8	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
674126.0	674126 - 1	KEN KREBBS	https://www.google.com/maps/place/17RMM4346421458
675480.0	675480 - 1	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
676022.0	676022 - 1	ROBERT ALLEN	https://www.google.com/maps/place/17RMM4422720183
676113.0	676113 - 1	RINKER MATERIALS CORP DBA CSR RINKER	https://www.google.com/maps/place/17RMM4205917974
676219.0	676219 - 1	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468
676220.0	676220 - 1	WIL'S COUNTRY STORE	https://www.google.com/maps/place/17RMM4510223468

Well Permit number	Site Name	Well Owner	Google Map
678926.0	678926 - 1	LOUGHMAN OAKS ELEMENTARY SCHOOL	RMM4510223468 https://www.google.com/maps/place/17RMM4468922654
678927.0	678927 - 1	LOUGHMAN OAKS ELEMENTARY SCHOOL	https://www.google.com/maps/place/17RMM4468922654
680842.0	680842 - 1	LOYLE WIAD	https://www.google.com/maps/place/17RMM4265419856
680994.0	680994 - 1	GREG CREECH	https://www.google.com/maps/place/17RMM4123717217
690595.0	690595 - 1	SKI SKALECKI	https://www.google.com/maps/place/17RMM4450223668
690596.0	690596 - 1	SKI SKALECKI	https://www.google.com/maps/place/17RMM4450223668
697311.0	697311 - 1	DAVE HAAS	https://www.google.com/maps/place/17RMM4443423687
699703.0	699703 - 1	RINKER MATERIALS CORP	https://www.google.com/maps/place/17RMM4123717217
704942.0	704942 - 1	DANIEL V STATELER	https://www.google.com/maps/place/17RMM4489023789
705117.0	705117 - 1	IRMA NIEVES	https://www.google.com/maps/place/17RMM4381920953
705688.0	705688 - 1	POLK CO RECREATION DEPT	https://www.google.com/maps/place/17RMM4499924139
708262.0	708262 - 1	FRANK MERRILL	https://www.google.com/maps/place/17RMM4123717217
711287.0	711287 - 1	VIRGINA TEMPLES	https://www.google.com/maps/place/17RMM4183716617
717575.0	717575 - 5	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
717575.0	717575 - 6	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
717575.0	717575 - 2	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
717575.0	717575 - 1	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
717575.0	717575 - 3	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
717575.0	717575 - 4	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
723259.0	723259 - 1	WILMER BYRD	https://www.google.com/maps/place/17RMM4510223468

Well Permit number	Site Name	Well Owner	Google Map
724925.0	724925 - 4	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
724925.0	724925 - 5	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
724925.0	724925 - 1	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
724925.0	724925 - 2	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
724925.0	724925 - 3	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
726992.0	726992 - 1	PROVIDENCE COMMUNITY ASSOCIATION, INC.	https://www.google.com/maps/place/17RMM4428922254
726997.0	726997 - 1	PROVIDENCE COMMUNITY ASSOCIATION, INC.	https://www.google.com/maps/place/17RMM4448922054
726998.0	726998 - 1	PROVIDENCE COMMUNITY ASSOCIATION, INC.	https://www.google.com/maps/place/17RMM4448922054
726999.0	726999 - 1	PROVIDENCE COMMUNITY ASSOCIATION, INC.	https://www.google.com/maps/place/17RMM4448922054
737431.0	737431 - 2	HOLLY HILL FRUIT PRODUCTS CO INC & JAMES M SHEARER	https://www.google.com/maps/place/17RMM4122415599
737431.0	737431 - 1	HOLLY HILL FRUIT PRODUCTS CO INC & JAMES M SHEARER	https://www.google.com/maps/place/17RMM4122415599
745951.0	745951 - 1	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
745951.0	745951 - 2	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
745951.0	745951 - 3	LEWIS MATHEWS	https://www.google.com/maps/place/17RMM4122415599
750877.0	750877 - 1	MKA INVESTMENTS, INC	https://www.google.com/maps/place/17RMM4510223468
753303.0	753303 - 1	EMERALD ISLE INTERIOR INSUL.	https://www.google.com/maps/place/17RMM4123717217
756638.0	PROPOSED WCP WELL	CHRISTOPHER VENIER	https://www.google.com/maps/place/17RMM4464224610
758874.0	PROPOSED WCP WELL	WILLIAM CRAWFORD	https://www.google.com/maps/place/17RMM4509922453
759443.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523623624
759443.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523623624
759443.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523623624

Well Permit number	Site Name	Well Owner	Google Map
759443.0	PROPOSED WCP WELL	WILMER BYRD	RMM4523623624 https://www.google.com/maps/place/17RMM4523623624
759443.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523623624
760562.0	PROPOSED WCP WELL	PARK SQUARE ENTERPRISES LLC	https://www.google.com/maps/place/17RMM4386421119
763704.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4088915136
763704.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4088915136
765991.0	PROPOSED WCP WELL	CEMEX CONSTRUCTION MATERIALS FLORIDA, LLC\ATTN. JASON JONES	https://www.google.com/maps/place/17RMM4211518216
766667.0	PROPOSED WCP WELL	LEDGER ORSON R	https://www.google.com/maps/place/17RMM4081015609
767799.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4092915150
767799.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4092215158
767825.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4092615112
768778.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4511823496
768800.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4511823491
768800.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4511823491
768800.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4511823491
768800.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4511823491
768802.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4513323560
768802.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4513323560
768802.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4513323560
768803.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4513323560
768833.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4514323555

Well Permit number	Site Name	Well Owner	Google Map
768833.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4514323555
768833.0	PROPOSED WCP WELL	ISLAND FOOD STORES	https://www.google.com/maps/place/17RMM4514323555
774095.0	PROPOSED WCP WELL	17 92 LLC	https://www.google.com/maps/place/17RMM4521723754
774178.0	PROPOSED WCP WELL	DAVENPORT CITY OF	https://www.google.com/maps/place/17RMM4088115119
774178.0	PROPOSED WCP WELL	DAVENPORT CITY OF	https://www.google.com/maps/place/17RMM4088115119
774178.0	PROPOSED WCP WELL	DAVENPORT CITY OF	https://www.google.com/maps/place/17RMM4088115119
774178.0	PROPOSED WCP WELL	DAVENPORT CITY OF	https://www.google.com/maps/place/17RMM4088115119
774647.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4110115511
774647.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4110015519
774647.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4111315510
774647.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4112215512
774649.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4110915517
774649.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4112115508
774649.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4109915511
774649.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4110115519
774649.0	PROPOSED WCP WELL	MATHIAS ALBERT C TRUST	https://www.google.com/maps/place/17RMM4111115517
774860.0	PROPOSED WCP WELL	BRIGHT OSCAR RANDY	https://www.google.com/maps/place/17RMM4422920620
777276.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521623613
778085.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4093215082
778085.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4093215082
778085.0	PROPOSED WCP WELL	SUMMERLIN FREDDIE J	https://www.google.com/maps/place/17RMM4093215082

Well Permit number	Site Name	Well Owner	Google Map
			RMM4093215082
781288.0	PROPOSED WCP WELL	CEMEX CONST. MAT. FLA., LLC	https://www.google.com/maps/place/17RMM4267518318
781746.0	PROPOSED WCP WELL	RINKER MATERIALS CORP.	https://www.google.com/maps/place/17RMM4284018332
782227.0	PROPOSED WCP WELL	HAMILTON MARY E	https://www.google.com/maps/place/17RMM4141617403
783953.0	PROPOSED WCP WELL	DAVENPORT UNITED METHODIST CHURCH	https://www.google.com/maps/place/17RMM4094615100
783955.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085915153
783957.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4086215155
785473.0	PROPOSED WCP WELL	CROCKETT DOROTHY	https://www.google.com/maps/place/17RMM4531225139
786156.0	PROPOSED WCP WELL	CROCKETT DOROTHY	https://www.google.com/maps/place/17RMM4531425132
786488.0	PROPOSED WCP WELL	TOLL FL VI LIMITED PARTNERSHIP	https://www.google.com/maps/place/17RMM4516722270
804671.0	PROPOSED WCP WELL	AVIANA HOMEOWNERS ASSOCIATION INC	https://www.google.com/maps/place/17RMM4467923109
806011.0	PROPOSED WCP WELL	BOB YARNALL	https://www.google.com/maps/place/17RMM4470021811
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807855.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111215524
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM411115529

Well Permit number	Site Name	Well Owner	Google Map
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807857.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111115529
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807858.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4110815514
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530

Well Permit number	Site Name	Well Owner	Google Map
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	RMM4111315530 https://www.google.com/maps/place/17RMM4111315530
807859.0	PROPOSED WCP WELL	DAVENPORT FOOD INC	https://www.google.com/maps/place/17RMM4111315530
807860.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4107415519
807860.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4107415519
807860.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4107415519
807860.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4107415519
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807863.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114115520
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504

Well Permit number	Site Name	Well Owner	Google Map
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
807864.0	PROPOSED WCP WELL	HORNSBY JOSEPH R	https://www.google.com/maps/place/17RMM4114315504
812995.0	PROPOSED WCP WELL	CUTCHER JAMES RONNIE SR	https://www.google.com/maps/place/17RMM4444123719
815005.0	PROPOSED WCP WELL	KAVANAGH DESMOND	https://www.google.com/maps/place/17RMM4507822303
815240.0	PROPOSED WCP WELL	FLORIDA POWER CORPORATION DBA	https://www.google.com/maps/place/17RMM4538724210
815242.0	PROPOSED WCP WELL	FLORIDA POWER CORPORATION DBA	https://www.google.com/maps/place/17RMM4539224213
816402.0	PROPOSED WCP WELL	BURRELL KEITH W	https://www.google.com/maps/place/17RMM4497022255
816640.0	PROPOSED WCP WELL	GRIMLEY KENNETH L	https://www.google.com/maps/place/17RMM4500122265
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4512123553
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4512323570
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510323565
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510223565
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510223565
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510223565
817938.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510223565
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4084715184
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4089215204
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4088015184
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4085015189
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4085015189

Well Permit number	Site Name	Well Owner	Google Map
			RMM4085015189
818031.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4085715204
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4086115205
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4084715190
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4087815184
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4087315184
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4087115189
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4088515204
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4085715187
818032.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4088615193
818033.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085815154
818033.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085815154
818033.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4084615137
818033.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085815154
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4084715133
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415138
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085915147
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4086715160
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4084815141
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4084415141
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085215146

Well Permit number	Site Name	Well Owner	Google Map
818035.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4086315164
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085715160
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085815176
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085115176
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415141
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415141
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415141
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415141
818036.0	PROPOSED WCP WELL	MATHEWS BERTHA W	https://www.google.com/maps/place/17RMM4085415141
818037.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089015152
818037.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4088915153
818037.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4088015139
818037.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089115143
818037.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089015152
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4088715134
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4087915135
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089115139
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089115147
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4088415142
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089215134
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4089215134

Well Permit number	Site Name	Well Owner	Google Map
818038.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	RMM4088715134 https://www.google.com/maps/place/17RMM4088715134
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092615108 https://www.google.com/maps/place/17RMM4092615108
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092515094 https://www.google.com/maps/place/17RMM4092515094
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092715089 https://www.google.com/maps/place/17RMM4092715089
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092615108 https://www.google.com/maps/place/17RMM4092615108
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092615108 https://www.google.com/maps/place/17RMM4092615108
818039.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092615108 https://www.google.com/maps/place/17RMM4092615108
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092615106 https://www.google.com/maps/place/17RMM4092615106
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4091315108 https://www.google.com/maps/place/17RMM4091315108
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4091315094 https://www.google.com/maps/place/17RMM4091315094
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4091315087 https://www.google.com/maps/place/17RMM4091315087
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092015104 https://www.google.com/maps/place/17RMM4092015104
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4091915093 https://www.google.com/maps/place/17RMM4091915093
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4091915086 https://www.google.com/maps/place/17RMM4091915086
818040.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815084 https://www.google.com/maps/place/17RMM4092815084
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815106 https://www.google.com/maps/place/17RMM4092815106
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815105 https://www.google.com/maps/place/17RMM4092815105
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815105 https://www.google.com/maps/place/17RMM4092815105
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815105 https://www.google.com/maps/place/17RMM4092815105
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815105 https://www.google.com/maps/place/17RMM4092815105
818041.0	PROPOSED WCP WELL	SUMMERLIN FAMILY REVOCABLE TRUST	https://www.google.com/maps/place/17RMM4092815105 https://www.google.com/maps/place/17RMM4092815105

Well Permit number	Site Name	Well Owner	Google Map
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818042.0	PROPOSED WCP WELL	ORANGE COUNTY DOT	https://www.google.com/maps/place/17RMM4093515108
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4088715115
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4087215116
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4089215115
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4089615115
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4090915114
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4091415114
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4092015114
818043.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4088815129
818044.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4093315110
818044.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4093315105
818044.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4092015130
818044.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4091715131
818044.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4091715131

Well Permit number	Site Name	Well Owner	Google Map
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4088015143
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4088015143
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4088015143
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4088015143
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4086915157
818048.0	PROPOSED WCP WELL	FLORIDA DOT	https://www.google.com/maps/place/17RMM4086715152
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4087015116
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4089315115
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4089515116
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4090215114
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4090615130
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4091515114
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4093215107
818054.0	PROPOSED WCP WELL	POLK COUNTY BOCC	https://www.google.com/maps/place/17RMM4087215120
819101.0	PROPOSED WCP WELL	BOBBY LESTER	https://www.google.com/maps/place/17RMM4144217451
819398.0	PROPOSED WCP WELL	BAKER WILLIAM H	https://www.google.com/maps/place/17RMM4507522461
819399.0	PROPOSED WCP WELL	HUTCHINGS KEVIN J	https://www.google.com/maps/place/17RMM4510222463
819460.0	PROPOSED WCP WELL	MARK FITZGERALD	https://www.google.com/maps/place/17RMM4496222548
819827.0	PROPOSED WCP WELL	HUNTRODS STEPHEN	https://www.google.com/maps/place/17RMM4506122645
820383.0	PROPOSED WCP WELL	ANGLIN MARY	https://www.google.com/maps/place/17RMM4414320449
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17

Well Permit number	Site Name	Well Owner	Google Map
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	RMM4512223571 https://www.google.com/maps/place/17RMM4512323562
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510323565
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510823566
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510823566
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510823566
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510823566
821327.0	PROPOSED WCP WELL	CO OPERATIVE ENTERPRISES INC	https://www.google.com/maps/place/17RMM4510823566
821479.0	PROPOSED WCP WELL	BUTLER VEONNA D	https://www.google.com/maps/place/17RMM4478721614
823504.0	PROPOSED WCP WELL	HERBERGER ALISHA L	https://www.google.com/maps/place/17RMM4490621918
827394.0	PROPOSED WCP WELL	WILBURN CLIVE E	https://www.google.com/maps/place/17RMM4501422224
828081.0	PROPOSED WCP WELL	WATSON DENNIS	https://www.google.com/maps/place/17RMM4517022281
829343.0	PROPOSED WCP WELL	MANNING ANA B	https://www.google.com/maps/place/17RMM4503822318
830648.0	PROPOSED WCP WELL	MINSHEW RONALD E & NANCY E REV	https://www.google.com/maps/place/17RMM4326520554
830861.0	PROPOSED WCP WELL	BARBER ROBERT DANA	https://www.google.com/maps/place/17RMM4472124571
831296.0	PROPOSED WCP WELL	ROBERT ALAIN	https://www.google.com/maps/place/17RMM4503422494
831840.0	PROPOSED WCP WELL	RAMBHAI KISHORE V	https://www.google.com/maps/place/17RMM4487821675
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602

Well Permit number	Site Name	Well Owner	Google Map
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833386.0	PROPOSED WCP WELL	FDOT	https://www.google.com/maps/place/17RMM4519023602
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523823601
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4519123611
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4520923635
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521923611
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4518223604
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521023558
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521723569
833610.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4518823601
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521723571
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523023577
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521023587
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4519623595
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521523622
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523923587
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523923587
833611.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523923587
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4523923587

Well Permit number	Site Name	Well Owner	Google Map
833612.0	PROPOSED WCP WELL	WILMER BYRD	RMM4519723581 https://www.google.com/maps/place/17RMM4519023611
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4518223609
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4518223600
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4520123618
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4525723569
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4525723569
833612.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4525723569
834577.0	PROPOSED WCP WELL	SAR INDUSTRIES LLC	https://www.google.com/maps/place/17RMM4320221441
834577.0	PROPOSED WCP WELL	SAR INDUSTRIES LLC	https://www.google.com/maps/place/17RMM4320221444
835377.0	PROPOSED WCP WELL	MAINSTAY FINANCIAL SERVICES, LLC	https://www.google.com/maps/place/17RMM4387820963
835581.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4521423547
836427.0	PROPOSED WCP WELL	HANOVER GREENFIELD LLC	https://www.google.com/maps/place/17RMM4384423051
836428.0	PROPOSED WCP WELL	HANOVER GREENFIELD LLC	https://www.google.com/maps/place/17RMM4387522956
844254.0	PROPOSED WCP WELL	ED FRAZIER	https://www.google.com/maps/place/17RMM4502322095
845162.0	PROPOSED WCP WELL	PAUL EDWARDS	https://www.google.com/maps/place/17RMM4510822641
845437.0	PROPOSED WCP WELL	HOLLY HILL FRUIT CO.	https://www.google.com/maps/place/17RMM4190815646
845437.0	PROPOSED WCP WELL	HOLLY HILL FRUIT CO.	https://www.google.com/maps/place/17RMM4191015645
845437.0	PROPOSED WCP WELL	HOLLY HILL FRUIT CO.	https://www.google.com/maps/place/17RMM4190915646
845443.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4208115686
845444.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4181516598

Well Permit number	Site Name	Well Owner	Google Map
845444.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4181616598
845444.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4181516597
845444.0	PROPOSED WCP WELL	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17RMM4181416599
845703.0	PROPOSED WCP WELL	HERNAN CORTEZ	https://www.google.com/maps/place/17RMM4458124490
846428.0	PROPOSED WCP WELL	RICHMOND AMERICAN HOMES OF FLA.	https://www.google.com/maps/place/17RMM4509122506
847460.0	PROPOSED WCP WELL	A DIRECT AUTO SERVICE, INC.	https://www.google.com/maps/place/17RMM4152417877
848137.0	PROPOSED WCP WELL	ROBLES CARLOS JAVIER	https://www.google.com/maps/place/17RMM4502222158
848393.0	PROPOSED WCP WELL	RICHMOND AMERICAN HOMES OF FLO	https://www.google.com/maps/place/17RMM4510722589
849044.0	PROPOSED WCP WELL	RICHMOND AMERICAN HOMES OF FLO	https://www.google.com/maps/place/17RMM4515022556
849353.0	PROPOSED WCP WELL	SAURI JOSE R	https://www.google.com/maps/place/17RMM4499722711
850334.0	PROPOSED WCP WELL	STANDARD SAND & SILICA COMPANY	https://www.google.com/maps/place/17RMM4160818054
854589.0	PROPOSED WCP WELL	SANFORD JAMES	https://www.google.com/maps/place/17RMM4507422511
854747.0	PROPOSED WCP WELL	SUNBURST DREAM HOMES, LLC	https://www.google.com/maps/place/17RMM4442120830
855695.0	PROPOSED WCP WELL	HILL MATTHEW CORY	https://www.google.com/maps/place/17RMM4504222277
856146.0	PROPOSED WCP WELL	HANOVER GREENFIELD LLC	https://www.google.com/maps/place/17RMM438722959
856147.0	PROPOSED WCP WELL	HANOVER GREENFIELD LLC	https://www.google.com/maps/place/17RMM4385123055
858261.0	PROPOSED WCP WELL	SOUTO JOSE LUIS REGAL	https://www.google.com/maps/place/17RMM4510622703
860084.0	PROPOSED WCP WELL	SBI GROUP LLC	https://www.google.com/maps/place/17RMM4326420211
860180.0	PROPOSED WCP WELL	GERALDINE PEPE	https://www.google.com/maps/place/17RMM4497722170
860712.0	PROPOSED WCP WELL	RAINONE ANDREW S JR	https://www.google.com/maps/place/17RMM4494222723
862451.0	PROPOSED WCP WELL	CLERMONT MONISE	https://www.google.com/maps/place/17RMM4494222723

Well Permit number	Site Name	Well Owner	Google Map
862807.0	PROPOSED WCP WELL	RICHARDS ROBERT E JR	RMM4513122492 https://www.google.com/maps/place/17RMM4117616133
863831.0	PROPOSED WCP WELL	CORTES HERNAN	https://www.google.com/maps/place/17RMM4460424563
866018.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4522023591
866018.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4522923590
866018.0	PROPOSED WCP WELL	WILMER BYRD	https://www.google.com/maps/place/17RMM4522823585
867540.0	PROPOSED WCP WELL	MCGOWAN CLARENCE	https://www.google.com/maps/place/17RMM4514222508
867914.0	PROPOSED WCP WELL	PUPO JULIAN	https://www.google.com/maps/place/17RMM4496122795
868893.0	PROPOSED WCP WELL	WOOLEN JUSTIN	https://www.google.com/maps/place/17RMM4512722822
869186.0	PROPOSED WCP WELL	GRIMES JOHN	https://www.google.com/maps/place/17RMM4500922815
869197.0	PROPOSED WCP WELL	GORDON KELLY	https://www.google.com/maps/place/17RMM4507522811
869298.0	PROPOSED WCP WELL	FUENTES LOUIS	https://www.google.com/maps/place/17RMM4515022685
869305.0	PROPOSED WCP WELL	WHITTLE CLEOPASE	https://www.google.com/maps/place/17RMM4497022161
869520.0	PROPOSED WCP WELL	MARAJ CHANDRAWATI	https://www.google.com/maps/place/17RMM4494222688
869862.0	PROPOSED WCP WELL	FRIEBOLIN DAMON	https://www.google.com/maps/place/17RMM4153116558
870436.0	PROPOSED WCP WELL	BAI HONGYU	https://www.google.com/maps/place/17RMM4506422830
870975.0	PROPOSED WCP WELL	CORWIN JERRY	https://www.google.com/maps/place/17RMM4502122865
871113.0	PROPOSED WCP WELL	WARFIELD GREG	https://www.google.com/maps/place/17RMM4506022836

Summary: 773 feature(s) found within buffer.

FDOH Known On-Site Domestic Wells

Metadata: https://etdmpub.flh-etat.org/meta/flwmi_well_septic.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Well (Known)	0 Ft.
KnownWell	125

FDOH Likely On-Site Domestic Wells

Metadata: https://etdmpub.flh-etat.org/meta/flwmi_well_septic.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Well (Likely or Somewhat Likely)	0 Ft.
LikelyWell	26
SWLWell	4

USEPA Water Quality Data Monitoring Stations
USEPA Water quality data monitoring stations from EPA STORET system.
Metadata: <https://etdmpub.flh-etat.org/meta/epastoret.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

ID	Station	Agency	Type
21FLCEN_WQX-26010030	26010030	21FLCEN_WQX	RIVER/STREAM
21FLCEN_WQX-26010031	26010031	21FLCEN_WQX	RIVER/STREAM
21FLCEN_WQX-G4CE0207	G4CE0207	21FLCEN_WQX	RIVER/STREAM
21FLPOLK-HORSE CR2	HORSE CR2	21FLPOLK	RIVER/STREAM
21FLPOLK-HORSESHOECR DO2	HORSESHOECR DO2	21FLPOLK	RIVER/STREAM
21FLPOLK_WQX-HORSE CR2	HORSE CR2	21FLPOLK_WQX	RIVER/STREAM
21FLPOLK_WQX-HORSE CRK2	HORSE CRK2	21FLPOLK_WQX	RIVER/STREAM
21FLSFWM-OSF-0005	OSF-0005	21FLSFWM	WELL
21FLSFWM-OSF-5	OSF-5	21FLSFWM	WELL
21FLSFWM_WQX-OSF-0005	OSF-0005	21FLSFWM_WQX	WELL
21FLSFWM_WQX-OSF-5	OSF-5	21FLSFWM_WQX	WELL
21FLTPA_WQX-26010230	26010230	21FLTPA_WQX	RIVER/STREAM
21FLTPA_WQX-26010231	26010231	21FLTPA_WQX	FACILITY INDUSTRIAL
21FLTPA_WQX-26010232	26010232	21FLTPA_WQX	FACILITY INDUSTRIAL
21FLTPA_WQX-26010233	26010233	21FLTPA_WQX	RIVER/STREAM
21FLTPA_WQX-26010234	26010234	21FLTPA_WQX	FACILITY OTHER
21FLTPA_WQX-26010235	26010235	21FLTPA_WQX	RIVER/STREAM
21FLTPA_WQX-26012229	26012229	21FLTPA_WQX	FACILITY MUNICIPAL SEWAGE (POTW)
21FLTPA_WQX-26012230	26012230	21FLTPA_WQX	FACILITY MUNICIPAL SEWAGE (POTW)
21FLTPA_WQX-26012232	26012232	21FLTPA_WQX	FACILITY INDUSTRIAL
USGS-02266700	02266700	USGS-FL	STREAM
USGS-281226081341901	281226081341901	USGS-FL	WELL
USGS-281536081324801	281536081324801	USGS-FL	WELL

Summary: 23 feature(s) found within buffer.

FDEP Mitigation Bank Service Areas

Metadata: https://etdmpub.fl-a-etat.org/meta/mgbank_servarea.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Bank Name	Permitting Agency	Permit Number
BULLFROG BAY	SFWMD	53-00004-M
COLLANY	SFWMD	53-00005-M
FLORIDA	DEP	138562
HATCHINEHA RANCH	SFWMD	53-00003-M
KISSIMMEE RIDGE	SWFWMD	43-42745
LAKE ISTOKPOGA	SFWMD	28-107464-P
REEDY CREEK	SFWMD	53-00002-M
SHINGLE CREEK	SFWMD	49-01937-M
SOUTHPORT RANCH	SFWMD	49-00002-M
SPLIT OAK FOREST	SFWMD	48-00002-M
TWIN OAKS	SFWMD	49-00007-M

Summary: 40046.32 acres, 100 percent of analysis area.

FDEP Mitigation Banks

FDEP Mitigation bank boundaries for select Department of Environmental Protection areas based on legal descriptions

Metadata: <https://etdmpub.fl-a-etat.org/meta/mgbank.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name	Permit Number	Source
REEDY CREEK	53-00002-M	SFWMD

Summary: 39.66 acres, 0.7 percent of analysis area.

USACE Mitigation Bank and In-Lieu Fee Program Sites

Metadata: <https://etdmpub.fl-a-etat.org/meta/ribits.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Name	Bank Type	Bank Status	Is 404	Is Conservation	Is DOT	Is USFWS	In-lieu fee	Is USACE	URL
REEDY CREEK MB	PRIVATE COMMERCIAL	APPROVED	YES	NO	NO	NO	NO	YES	https://ribits.ops.usace.army.mil/ords/f?p=107:10::NO::P10_BANK_ID:247_

Summary: 39.92 acres, 0.7 percent of analysis area.

GEOPLAN Developments of Regional Impact (DRI)
GEOPLAN Developments of Regional Impact

Metadata: <https://etdmpub.fl-a-etat.org/meta/dri.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Description	Area of Interest	
	Acr	Pct
RIDGEWOOD LAKES [ADA NO: 1985-042][APPROVED WITH CONDITIONS]	3.61	0.06%
OAK HILLS ESTATES [ADA NO: 1990-031][APPROVED WITH CONDITIONS]	492.16	8.81%
Totals	495.77	-

Natural Features

Analysis Type	Geotechnical Data	Date Run	Features within AOI	
				Count
FWC Cooperative Land Cover (CLC v3.4)	i	Not Analyzed	Not Analyzed	
NRCS Summary of Specific Soils - SSURGO	i	03/26/2025		346
SWFWMD Sensitive Karst Areas in the SWFWMD	i	03/26/2025		0
FDEP Environmental Geology	i	03/26/2025		2
NRCS Prime Farm Land - Subset of NRCS Specific Soils Data	i	03/26/2025		52
		03/26/2025		141

Analysis Type		Date Run	Count
NRCS Hydric Soils (Summary) - Subset of NRCS Specific Soils Data	i		
Floodplain, FEMA FIRMS			
FNAI CLIP Version 4 Natural Floodplain	i	03/26/2025	N/A
FEMA DFIRM (SFHA) 100 Year Flood Zones	i	03/26/2025	N/A
FEMA DFIRM 100 Year Floodplain	i	03/26/2025	N/A
FEMA DFIRM 500 Year Floodplain	i	03/26/2025	N/A
FEMA DFIRM Panel Areas	i	03/26/2025	7
Existing and Future Land Use Maps			
GEOPLAN GeoPlan Future Land Use 2020 - Level 2	i	03/26/2025	216
GEOPLAN Generalized Land Use	i	03/26/2025	786

DRAFT

NRCS Summary of Specific Soils - SSURGO
NRCS County Soil Survey maps published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) as the Soil Service Geographic (SSURGO) data set.

Metadata: https://etdmpub.flh-etat.org/meta/nrcs_soils.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

	Mapunit Key, Comp Name, Mapunit Name	Area of Interest	
		Acr	Pct
	1454702-(WATER)(WATER)	330.22	5.92%
	1425061-(SATELLITE)(SATELLITE SAND, 0 TO 2 PERCENT SLOPES)	210.16	3.77%
	1425012-(IMMOKALEE)(IMMOKALEE SAND)	256.95	4.58%
	1425016-(PLACID)(PLACID AND MYAKKA FINE SANDS, DEPRESSIONAL)	435.12	7.78%
	1425007-(TAVARES)(TAVARES FINE SAND, 0 TO 5 PERCENT SLOPES)	425.98	7.63%
	1425020-(POMPANO)(POMPANO FINE SAND)	245.37	4.38%
	1425009-(SMYRNA)(SMYRNA AND MYAKKA FINE SANDS)	371.94	6.66%
	1425013-(POMELLO)(POMELLO FINE SAND)	21.49	0.39%
	1425005-(SAMSULA)(SAMSULA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	268.59	4.79%
	1425060-(MILLHOPPER)(MILLHOPPER FINE SAND, 0 TO 5 PERCENT SLOPES)	0.31	0.01%
	1424997-(EAUGALLIE)(EAUGALLIE FINE SAND)	3.25	0.06%
	1425025-(HONTOON)(HONTOON MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	121.46	2.17%
	3103034-(BASINGER)(BASINGER MUCKY FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	238.69	4.25%
	1425021-(ADAMSVILLE)(ADAMSVILLE FINE SAND, 0 TO 2 PERCENT SLOPES)	125.67	2.25%
	2513627-(ASTATULA)(ASTATULA SAND, 5 TO 12 PERCENT SLOPES)	219.39	3.92%
	2513628-(ASTATULA)(ASTATULA SAND, 12 TO 20 PERCENT SLOPES)	13.85	0.25%
	1425008-(URBAN LAND)(URBAN LAND, 0 TO 2 PERCENT SLOPES)	48.05	0.86%
	2513626-(ASTATULA)(ASTATULA SAND, 0 TO 5 PERCENT SLOPES)	436.99	7.8%
	1425014-(ONA)(ONA-ONA, WET, FINE SAND, 0 TO 2 PERCENT SLOPES)	18.5	0.34%
	1425045-(UDORTHERTS)(UDORTHERTS, EXCAVATED)	21.69	0.39%
	1424995-(CANDLER)(CANDLER SAND, 0 TO 5 PERCENT SLOPES)	259.11	4.65%
	1425048-(ARENTS)(ARENTS, ORGANIC SUBSTRATUM-URBAN LAND COMPLEX)	4.52	0.08%
	1425004-(NEILHURST)(NEILHURST SAND, 1 TO 5 PERCENT SLOPES)	288.91	5.17%
	1425032-(FELDA)(FELDA FINE SAND)	8.6	0.15%
	1425047-(ARENTS)(ARENTS, SANDY)	2.83	0.05%
	1425046-(ARENTS)(ARENTS-URBAN LAND COMPLEX, 0 TO 5 PERCENT SLOPES)	44.02	0.79%
	1425027-(PLACID)(PLACID FINE SAND, FREQUENTLY FLOODED)	131.03	2.35%
	1425022-(KALIGA)(KALIGA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	15.55	0.28%
	1425058-(NARCOOSSEE)(NARCOOSSEE SAND)	58.74	1.05%
	1425010-(FLORIDANA)(FLORIDANA MUCKY FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	1.3	0.02%

Mapunit Key, Comp Name, Mapunit Name	Acr	Pct
1425055-(DUETTE)(DUETTE FINE SAND)	18.48	0.33%
1425036-(ZOLFO)(ZOLFO FINE SAND, 0 TO 2 PERCENT SLOPES)	15.17	0.27%
1483881-(SATELLITE)(SATELLITE SAND, 0 TO 2 PERCENT SLOPES)	127.97	2.29%
1483856-(IMMOKALEE)(IMMOKALEE FINE SAND, 0 TO 2 PERCENT SLOPES)	231.77	4.14%
1483889-(WATER)(WATER)	9.99	0.17%
1483845-(BASINGER)(BASINGER FINE SAND, 0 TO 2 PERCENT SLOPES)	12.26	0.22%
1483876-(POMPANO)(POMPANO FINE SAND, 0 TO 2 PERCENT SLOPES)	14.59	0.26%
1483865-(NITTAW)(NITTAW MUCK)	85.78	1.54%
1483878-(RIVIERA)(RIVIERA FINE SAND, 0 TO 2 PERCENT SLOPES)	106.82	1.91%
1483862-(MYAKKA)(MYAKKA FINE SAND, 0 TO 2 PERCENT SLOPES)	8.8	0.16%
1483880-(SAMSULA)(SAMSULA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	47.73	0.86%
1483872-(PLACID)(PLACID FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	33.49	0.6%
1483871-(PITS)(PITS)	5.17	0.09%
1483867-(ONA)(ONA FINE SAND, 0 TO 2 PERCENT SLOPES)	59.13	1.06%
1483855-(HONTOON)(HONTOON MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	66.71	1.19%
1483869-(PARKWOOD)(PARKWOOD LOAMY FINE SAND, OCCASIONALLY FLOODED)	69.55	1.25%
1483885-(WABASSO)(WABASSO FINE SAND, 0 TO 2 PERCENT SLOPES)	8.86	0.16%
1483879-(RIVIERA)(RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	8.09	0.14%
1483852-(FLORIDANA)(FLORIDANA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	26.98	0.48%
Totals	5,585.6	-

FDEP Environmental Geology

Metadata: <https://etdmpub.fl.a-etat.org/meta/fdepgeo.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Geologic Category	Area of Interest	
	Acr	Pct
CLAYEY SAND	20.57	0.37%
MED. FINE SAND AND SILT	5,565.03	99.63%
Totals	5,585.6	-

NRCS Prime Farm Land - Subset of NRCS Specific Soils Data

Metadata: https://etdmpub.flh-etat.org/meta/nrcs_soils.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

	Farmland Classification	
	Area of Interest	
	Acr	Pct
FARMLAND OF UNIQUE IMPORTANCE	835.04	14.97%
Totals	835.02	-

NRCS Hydric Soils (Summary) - Subset of NRCS Specific Soils Data

Metadata: https://etdmpub.flh-etat.org/meta/nrcs_soils.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

	Mapunit Key, Comp Name, Mapunit Name	
	Area of Interest	
	Acr	Pct
1425016-(PLACID)(PLACID AND MYAKKA FINE SANDS, DEPRESSIONAL)	435.12	7.78%
1425020-(POMPANO)(POMPANO FINE SAND)	245.37	4.38%
1425005-(SAMSULA)(SAMSULA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	268.59	4.79%
1425025-(HONTOON)(HONTOON MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	121.46	2.17%
3103034-(BASINGER)(BASINGER MUCKY FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	238.69	4.25%
1425032-(FELDA)(FELDA FINE SAND)	8.6	0.15%
1425027-(PLACID)(PLACID FINE SAND, FREQUENTLY FLOODED)	131.03	2.35%
1425022-(KALIGA)(KALIGA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	15.55	0.28%
1425010-(FLORIDANA)(FLORIDANA MUCKY FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	1.3	0.02%
1483845-(BASINGER)(BASINGER FINE SAND, 0 TO 2 PERCENT SLOPES)	12.26	0.22%
1483876-(POMPANO)(POMPANO FINE SAND, 0 TO 2 PERCENT SLOPES)	14.59	0.26%
1483865-(NITTAW)(NITTAW MUCK)	85.78	1.54%
1483878-(RIVIERA)(RIVIERA FINE SAND, 0 TO 2 PERCENT SLOPES)	106.82	1.91%
1483880-(SAMSULA)(SAMSULA MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	47.73	0.86%
1483872-(PLACID)(PLACID FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	33.49	0.6%
1483855-(HONTOON)(HONTOON MUCK, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	66.71	1.19%
1483869-(PARKWOOD)(PARKWOOD LOAMY FINE SAND, OCCASIONALLY FLOODED)	69.55	1.25%
1483879-(RIVIERA)(RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	8.09	0.14%
1483852-(FLORIDANA)(FLORIDANA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	26.98	0.48%
Totals	1,937.67	-

FNAI CLIP Version 4 Natural Floodplain

Metadata: https://etdmpub.flh-etat.org/meta/clipv4_fldpln.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	3,778.42	67.64%
PRIORITY 1 - HIGHEST	30.47	0.55%
PRIORITY 2	267.15	4.78%
PRIORITY 3	490.27	8.78%
PRIORITY 4	771.65	13.81%
PRIORITY 5	165.85	2.97%
PRIORITY 6	82.34	1.47%
Totals	5,586.15	-

FEMA DFIRM (SFHA) 100 Year Flood Zones

Metadata: https://etdmpub.flh-etat.org/meta/dfirm_100_floodzones.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
OUTSIDE 100 YEAR FLOODPLAIN	3,617.34	64.76%
AE	791.65	14.17%
A	1,168.38	20.92%
AH	8.4	0.15%
Totals	5,585.77	-

FEMA DFIRM 100 Year Floodplain

Metadata: https://etdmpub.flh-etat.org/meta/dfirm_100.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
OUTSIDE 100 YEAR FLOODPLAIN	3,617.34	64.76%
100 YEAR FLOODPLAIN	1,968.43	35.24%
Totals	5,585.77	-

FEMA DFIRM 500 Year Floodplain

Metadata: https://etdmpub.flh-etat.org/meta/dfirm_500.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
OUTSIDE 500 YEAR FLOODPLAIN	3,597.52	64.41%
500 YEAR FLOODPLAIN	1,988.25	35.59%
Totals	5,585.77	-

FEMA DFIRM Panel Areas

Metadata: https://etdmpub.flh-etat.org/meta/dfirm_panel.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

FIRM Panel	Effective date
12097C0040G	2013-06-18 00:00:00
12097C0045G	2013-06-18 00:00:00
12097C0225G	2013-06-18 00:00:00
12105C0125H	2016-12-22 00:00:00
12105C0230H	2016-12-22 00:00:00
12105C0235H	2016-12-22 00:00:00
12105C0240G	2016-12-22 00:00:00

Summary: 11171.2 acres, 100 percent of analysis area.

GEOPLAN GeoPlan Future Land Use 2020 - Level 2

Metadata: https://etdmpub.flh-etat.org/meta/flu_l2_2020.xml

**Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed**

Land Use	Area of Interest	
	Acr	Pct
COMMERCIAL	631.37	11.32%
CONSERVATION	558.9	10.01%
INDUSTRIAL	303.13	5.42%
INSTITUTIONAL	94.64	1.69%
MIXED USE - NEIGHBORHOOD/ACTIVITY CENTER	184.2	3.32%
MIXED USE - SPECIAL PLANNING AREA	240.11	4.3%
OFFICE/PROFESSIONAL	8.85	0.16%
RECREATION	46.46	0.83%
RESIDENTIAL HIGH (> 12 DU/AC)	99.23	1.77%
RESIDENTIAL LOW (2.01 - 5 DU/AC)	1,168.48	20.87%
RESIDENTIAL MEDIUM (5.01 - 12 DU/AC)	1,385.24	24.81%
TRANSPORTATION/UTILITIES	87.86	1.57%
UNKNOWN	123.83	2.22%
WATER	571.11	10.22%
Totals	5,503.35	-

GEOPLAN Generalized Land Use

Metadata: https://etdmpub.flh-estat.org/meta/lu_gen.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Description	Area of Interest	
	Acr	Pct
ACREAGE NOT ZONED FOR AGRICULTURE	685.78	12.3%
AGRICULTURAL	662.27	11.84%
CENTRALLY ASSESSED	106.58	1.91%
INSTITUTIONAL	50.11	0.89%
PUBLIC/SEMI-PUBLIC	433.17	7.72%
RESIDENTIAL	1,597.99	28.54%
RETAIL/OFFICE	112.86	2.03%
VACANT NONRESIDENTIAL	437.59	7.83%
VACANT RESIDENTIAL	460.07	8.09%
PARCELS WITH NO VALUES	59.68	1.06%
INDUSTRIAL	136.38	2.44%
MINING	471.14	8.42%
ROW	9.66	0.17%
RECREATION	1.72	0.02%
WATER	11.86	0.21%
Totals	5,236.82	-

Surface Water / Groundwater

Analysis Type	Date Run	Features within AOI	
			Count
Springs			
FDEP Springs	03/26/2025		0
SJRWMD Spring Capture Zones (Springsheds)	03/26/2025		0
FDEP Springs Priority Focus Areas	03/26/2025		0
Aquifers			
USGS Principal Aquifers of the State of Florida	03/26/2025		1
FDEP Surficial Aquifer System FAVA II Response Theme	03/26/2025		N/A
	03/26/2025		1

Analysis Type		Date Run	Count
USEPA Sole Source Aquifers			
Waterbody Information and Designations			
FDEP Strategic Monitoring Plan (SMP) for Waterbodies	i	03/26/2025	0
USDOT Potential Navigable Waterways	i	03/26/2025	0
NPS Nationwide Rivers Inventory in Florida	i	03/26/2025	0
FDEP List of Aquatic Preserves	i	03/26/2025	0
FDEP Other Outstanding Florida Waters	i	03/26/2025	0
FDEP Wild and Scenic Rivers	i	03/26/2025	0
FWRI Unified Florida Coral Reef Tracts	i	03/26/2025	0
FDEP Surface Water Classification	i	03/26/2025	0
Drainage Systems and Flooding			
USACE Major Dams	i	03/26/2025	0
Wetlands			
FNAI CLIP Version 4 Critical Lands and Waters Identification - High Priority Private Wetlands and Uplands	i	03/26/2025	N/A
FNAI CLIP Version 4 Wetlands	i	03/26/2025	N/A
FNAI CLIP Version 4 Significant Surface Waters	i	03/26/2025	N/A
FNAI CLIP Version 4 Surface Water Resource Priorities	i	03/26/2025	N/A
USFWS National Wetlands Inventory Areas	i	03/26/2025	235
WMD Wetlands (FLUCCS Level 3)	i	03/26/2025	196
Contamination			
FDEP Brownfield Location Boundaries	i	03/26/2025	0
FDEP Hazardous Waste Facilities	i	03/26/2025	11
FDEP Institutional Controls Registry Sites	i	03/26/2025	0

Analysis Type		Date Run	Count
FDEP Large Quantity Generators of Hazardous Waste	i	03/26/2025	0
FDEP Off Site Contamination Notices	i	03/26/2025	8
FDEP Petroleum Contamination Monitoring Sites	i	03/26/2025	20
FDEP Solid Waste Facilities	i	03/26/2025	4
FDEP State funded Hazardous Waste Cleanup Sites	i	03/26/2025	0
FDEP Storage Tank Contamination Monitoring (STCM)	i	03/26/2025	27
FDEP Subsidence Incident Reports for the State of Florida	i	03/26/2025	2
FDEP Treaters, Storers, and Disposers of Hazardous Waste	i	03/26/2025	0
FDEP Environmental Restoration Integrated Cleanup (ERIC) Sites	i	03/26/2025	4
FDOH Super Act Risk Sources	i	03/26/2025	8
FDOH Super Act Wells	i	03/26/2025	94
USEPA Superfund Hazardous Waste Sites	i	03/26/2025	1
FDEP Dry Cleaning Program Sites	i	03/26/2025	0

USGS Principal Aquifers of the State of Florida

Metadata: <https://etdmpub.flh-etat.org/meta/aquip.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Description	Area of Interest	
	Acr	Pct
SURFICIAL AQUIFER SYSTEM	5,585.6	100%
Totals	5,585.6	-

FDEP Surficial Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.flh-etat.org/meta/fava_sas_response.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	1,564.99	28.01%
MORE VULNERABLE	110.97	1.99%
MOST VULNERABLE	3,911.24	70.0%
Totals	5,587.2	-

USEPA Sole Source Aquifers

Metadata: <https://etdmpub.flh-etat.org/meta/epassa.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Aquifer

BISCAYNE AQUIFER SSA STREAMFLOW AND RECHARGE SOURCE ZONES

Summary: 2315.28 acres, 41.5 percent of analysis area.

FNAI CLIP Version 4 Critical Lands and Waters Identification - High Priority Private Wetlands and Uplands

Metadata: https://etdmpub.flh-etat.org/meta/clipv4_private_p1p2.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	3,809.11	68.19%
P1 PRIVATE WETLANDS	47.43	0.85%
P1 PRIVATE NATURAL - SEMINATURAL UPLANDS	420.16	7.52%
P2 PRIVATE WETLANDS	674.35	12.07%
P2 PRIVATE NATURAL - SEMINATURAL UPLANDS	634.77	11.36%
Totals	5,585.81	-

FNAI CLIP Version 4 Wetlands

Metadata: https://etdmpub.flh-estat.org/meta/clipv4_wetland.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	4,097.33	73.35%
PRIORITY 1 - HIGHEST	30.47	0.55%
PRIORITY 2	268.65	4.81%
PRIORITY 3	502.55	9.0%
PRIORITY 4	568.49	10.18%
PRIORITY 5	80.34	1.44%
PRIORITY 6	38.31	0.69%
Totals	5,586.15	-

FNAI CLIP Version 4 Significant Surface Waters

Metadata: https://etdmpub.flh-estat.org/meta/clipv4_surfwtr.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	1,482.53	26.54%
PRIORITY 2	1,070.27	19.16%
PRIORITY 4	2,332.41	41.75%
PRIORITY 6	700.93	12.55%
Totals	5,586.15	-

FNAI CLIP Version 4 Surface Water Resource Priorities

Metadata: https://etdmpub.flas-etat.org/meta/clipv4_srfwtrrp.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	1,482.53	26.54%
PRIORITY 5	413.6	7.4%
PRIORITY 4	1,986.92	35.57%
PRIORITY 3	492.27	8.81%
PRIORITY 2	1,180.36	21.13%
PRIORITY 1 - HIGHEST	30.47	0.55%
Totals	5,586.15	-

USFWS National Wetlands Inventory Areas

Metadata: <https://etdmpub.flas-etat.org/meta/nwip.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

System and Wetland Type	Area of Interest	
	Acr	Pct
LACUSTRINE (LAKE)	166.56	2.97%
PALUSTRINE (FRESHWATER POND)	123.04	2.17%
PALUSTRINE (FRESHWATER EMERGENT WETLAND)	351.06	6.29%
PALUSTRINE (FRESHWATER FORESTED/SHRUB WETLAND)	963.72	17.28%
RIVERINE (RIVERINE)	6.81	0.12%
Totals	1,611.14	-

WMD Wetlands (FLUCCS Level 3)

Metadata: https://etdmpub.fl-a-etat.org/meta/lu_l3_state.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Land Use Classification	Area of Interest	
	Acr	Pct
WETLAND HARDWOOD FORESTS	1.92	0.03%
STREAMS AND LAKE SWAMPS (BOTTOMLAND)	672.15	12.04%
CYPRESS	90.06	1.62%
WETLAND FORESTED MIXED	252.33	4.5%
VEGETATED NON-FORESTED WETLANDS	17.04	0.3%
FRESHWATER MARSHES	380.64	6.81%
EMERGENT AQUATIC VEGETATION	5.38	0.1%
WET PRAIRIES	22.25	0.41%
NON-VEGETATED WETLANDS	5.48	0.11%
INTERMITTENT PONDS	1.61	0.03%
MIXED WETLAND HARDWOODS	59.2	1.05%
HYDRIC PINE FLATWOODS	25.16	0.45%
Totals	1,533.21	-

FDEP Hazardous Waste Facilities

Metadata: <https://etdmpub.fl.a-etat.org/meta/chaz.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

EPA ID	Site ID	Name	Google Map
FLD004090304	5233.0	HOLLY HILL FRUIT PRODUCTS CO INC	https://www.google.com/maps/place/17rmm4102115544
FLD981019383	50627.0	FLORIDA POWER CORP - INTERCESSION CITY PLANT	https://www.google.com/maps/place/17rmm4623126497
FLD984252056	40855.0	CIRCLE K # 7360	https://www.google.com/maps/place/17rmm4110515500
FLD984252601	48818.0	BOOKS OF LOVE	https://www.google.com/maps/place/17rmm4095816172
FLR000026161	56603.0	CUSTOM & CLASSIC AUTO SPECIALIST	https://www.google.com/maps/place/17rmm4582526152
FLR000032649	56656.0	ORANGE INDUSTRIAL SERVICES INC	https://www.google.com/maps/place/17rmm4190517746
FLR000040659	56705.0	AIR PROPS INC	https://www.google.com/maps/place/17rmm4185917667
FLR000091645	49436.0	FATHER & SON AUTO SERVICE	https://www.google.com/maps/place/17rmm4102315316
FLR000091652	49437.0	FLOWERS AUTO SALES	https://www.google.com/maps/place/17rmm4148315857
FLR000225318	120954.0	STT - REUNTON	https://www.google.com/maps/place/17rmm4546126198
FLR000265751	160617.0	O'REILLY AUTO PARTS #6679	https://www.google.com/maps/place/17rmm4536624041

Summary: 11 feature(s) found within buffer.

FDEP Off Site Contamination Notices

Metadata: https://etdmpub.fl.a-etat.org/meta/noticing_fdep.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Program Site Name	0 Ft.
Mathews Property	8

FDEP Petroleum Contamination Monitoring Sites

Metadata: <https://etdmpub.flh-etat.org/meta/pcts.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.
Footprint analyzed

Cleanup Status	Facility ID	Name	Google Map
CLOSURE	8840909	INTERCESSION CITY COMBUSTION TURBINE PLT	https://www.google.com/maps/place/17RMM4621826319
CLOSURE	8840909	INTERCESSION CITY COMBUSTION TURBINE PLT	https://www.google.com/maps/place/17RMM4621826319
CLOSURE	8840909	INTERCESSION CITY COMBUSTION TURBINE PLT	https://www.google.com/maps/place/17RMM4621826319
CLOSURE	8840378	7-ELEVEN STORE # 38538	https://www.google.com/maps/place/17RMM4514823705
CLOSURE	9046109	OAKHILLS ESTATES	https://www.google.com/maps/place/17RMM4514123643
CLOSURE	9202760	US POSTAL SERVICE	https://www.google.com/maps/place/17RMM4454623991
CLOSURE	8732202	DAVENPORT CITY	https://www.google.com/maps/place/17RMM4076315331
CLOSURE	9807327	RAMBO & SONS TRUCKING INC 04-41-0600	https://www.google.com/maps/place/17RMM4591024895
CLOSURE	8623820	SJT GAS AND FOOD INC	https://www.google.com/maps/place/17RMM4110615515
CLOSURE	8736165	EZ FOOD STORE #1	https://www.google.com/maps/place/17RMM4511323567
CLOSURE	8623457	7 STARS DISCOUNT	https://www.google.com/maps/place/17RMM4107015432
CLOSURE	8628348	CEMEX - DAVENPORT	https://www.google.com/maps/place/17RMM4205518341
CLOSURE	8628348	CEMEX - DAVENPORT	https://www.google.com/maps/place/17RMM4205518341
NO CLEANUP REQUIRED	8624326	LOUGHMAN SERVICE CENTER	https://www.google.com/maps/place/17RMM452323608
NO CLEANUP REQUIRED	8623820	SJT GAS AND FOOD INC	https://www.google.com/maps/place/17RMM4110615515
NO CLEANUP REQUIRED	8623457	7 STARS DISCOUNT	https://www.google.com/maps/place/17RMM4107015432
WORK UNDERWAY	8840909	INTERCESSION CITY COMBUSTION TURBINE PLT	https://www.google.com/maps/place/17RMM4621826319
WORK UNDERWAY	8840909	INTERCESSION CITY COMBUSTION TURBINE PLT	https://www.google.com/maps/place/17RMM4621826319

Cleanup Status	Facility ID	Name	Google Map
WORK UNDERWAY	8624326	LOUGHMAN SERVICE CENTER	RMM4621826319 https://www.google.com/maps/place/17RMM4522323608
WORK UNDERWAY	9300981	MATHEWS PROPERTY	https://www.google.com/maps/place/17RMM4084715136

Summary: 20 feature(s) found within buffer.

FDEP Solid Waste Facilities

Metadata: <https://etdmpub.flh-etat.org/meta/sldwst.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Facility Name	Google Map
CITY DAVENPORT DDMS - MAGNOLIA ST YARD	https://www.google.com/maps/place/17RMM4081415381
CITY DAVENPORT DDMS - MAGNOLIA ST YARD	https://www.google.com/maps/place/17RMM4082315385
SITESCAPE MATERIALS	https://www.google.com/maps/place/17RMM4275219168
SITESCAPE MATERIALS	https://www.google.com/maps/place/17RMM4275219168

Summary: 4 feature(s) found within buffer.

FDEP Storage Tank Contamination Monitoring (STCM) FDEP Storage Tank Contamination Monitoring

Metadata: <https://etdmpub.flh-efat.org/meta/stcm.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Facility ID	Facility Status	Site type	Google Map
8623362	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4105416343
8623457	OPEN	RETAIL STATION	https://www.google.com/maps/place/17RMM4107015432
8623503	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4091215190
8623820	OPEN	RETAIL STATION	https://www.google.com/maps/place/17RMM4110615515
8624125	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4128315980
8624326	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4522323608
8628347	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4301718425
8628348	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4205518341
8628349	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4195318269
8732202	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4076315331
8736165	OPEN	RETAIL STATION	https://www.google.com/maps/place/17RMM4511323567
8840378	OPEN	RETAIL STATION	https://www.google.com/maps/place/17RMM4514823705
8840909	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4621826319
9046109	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4514123643
9102950	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4120115656
9200845	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4135616290
9202759	CLOSED	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4181117666
9202760	CLOSED	FEDERAL GOVERNMENT	

Facility ID	Facility Status	Site type	Google Map
9300807	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4454623991
9300981	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4522723627
9401953	CLOSED	RESIDENTIAL	https://www.google.com/maps/place/17RMM4084715136
9700313	CLOSED	RETAIL STATION	https://www.google.com/maps/place/17RMM4464622657
9802324	CLOSED	INDUSTRIAL PLANT	https://www.google.com/maps/place/17RMM4128415927
9806215	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4301818449
9807327	CLOSED	EMERGENCY RESPONSE SPILL SITE	https://www.google.com/maps/place/17RMM4094315473
9811609	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4591024895
9817051	OPEN	FUEL USER/NON-RETAIL	https://www.google.com/maps/place/17RMM4453224085
			https://www.google.com/maps/place/17RMM4513423937

Summary: 27 feature(s) found within buffer.

FDEP Subsidence Incident Reports for the State of Florida Subsidence Incident Reports for the State of Florida

Metadata: <https://etdmpub.flh-etat.org/meta/sir.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

FGS/FSRI Reference number	Longitude in Decimal Degrees	Latitude in Decimal Degrees	Google Map
16-587	-81.5959	28.1777	https://www.google.com/maps/place/17RMM4150217033
16-588	-81.5955524	28.17805031	https://www.google.com/maps/place/17RMM4153817070

Summary: 2 feature(s) found within buffer.

FDEP Environmental Restoration Integrated Cleanup (ERIC) Sites

Metadata: https://etdmpub.fl-a-etat.org/meta/eric_waste_cleanup.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Site Name	ERIC ID	Program	Site Status	Google Map
DUKE ENERGY INTERCESSION CITY SUBSTATION	ERIC_12924	RESPONSIBLE PARTY CLEANUP	CLOSED	https://www.google.com/maps/place/17rmm4620926640
FORMER FLOWERS AUTO SITE PART A-2005	ERIC_6239	SITE INVESTIGATION SECTION	CLOSED	https://www.google.com/maps/place/17rmm4147815871
INTERCESSION CITY COMBUSTION TURBINE PLT	ERIC_18174	PETROLEUM RESTORATION PROGRAM	CLOSEDWCOND	https://www.google.com/maps/place/17rmm4643526357
MATHEWS PROPERTY	ERIC_13384	RESPONSIBLE PARTY CLEANUP	CLOSED	https://www.google.com/maps/place/17rmm4085815100

Summary: 4 feature(s) found within buffer.

FDOH Super Act Risk Sources

Metadata: https://etdmpub.fl-a-etat.org/meta/superact_risk.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Substance type	Project	Description	Google Map
PETROLEUM	SUPER	RIGHTWAY FOOD (CITGO)	https://www.google.com/maps/place/17RMM4110815517
PETROLEUM	SUPER	PROGRESS ENERGY	https://www.google.com/maps/place/17RMM4631126318
PETROLEUM	SUPER	LOUGHMAN SERVICE CENTER	https://www.google.com/maps/place/17RMM4519223609
PETROLEUM	SUPER	US POSTAL SERVICE	https://www.google.com/maps/place/17RMM4455023990
PETROLEUM	SUPER	MATHEWS PROPERTY	https://www.google.com/maps/place/17RMM4088215144
PETROLEUM	SUPER	RINKER MATERIALS-DAVENPORT	https://www.google.com/maps/place/17RMM4206518326
PETROLEUM	SUPER	9807331	https://www.google.com/maps/place/17RMM4592724951
PETROLEUM	SUPER	MAJIK MART	https://www.google.com/maps/place/17RMM4512023567

Summary: 8 feature(s) found within buffer.

FDOH Super Act Wells

Metadata: https://etdmpub.flh-etat.org/meta/superact_well.xml

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025. Footprint analyzed

Well type	Project	Description	Google Map
COMMUNITY WATER SYSTEM (<100,000 GALLONS/DAY)	DEP	HIDDEN GLEN	https://www.google.com/maps/place/17RMM4610925291
COMMUNITY WATER SYSTEM (<100,000 GALLONS/DAY)	DEP	PROCTOR'S MHP	https://www.google.com/maps/place/17RMM4134216653
COMMUNITY WATER SYSTEM (<100,000 GALLONS/DAY)	DEP	DAVENPORT MHP	https://www.google.com/maps/place/17RMM4145017574
COMMUNITY WATER SYSTEM (<100,000 GALLONS/DAY)	DEP	DAVENPORT MHP	https://www.google.com/maps/place/17RMM4145017574
COMMUNITY WATER SYSTEM (<100,000 GALLONS/DAY)	DEP	SHADY OAKS MOBILE HOME PARK	https://www.google.com/maps/place/17RMM4140616785
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	DEP	THREE WORLDS CAMP RESORT	https://www.google.com/maps/place/17RMM4380520305
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4142215104
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	SUPER	CITY OF DAVENPORT	https://www.google.com/maps/place/17RMM4055515380
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	SUPER	OLD DIXIE M.H.P.	https://www.google.com/maps/place/17RMM4146217664
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	DEP	THREE WORLDS CAMP RESORT	https://www.google.com/maps/place/17RMM4383320294
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	SUPER	CITY OF DAVENPORT	https://www.google.com/maps/place/17RMM4054715430
COMMUNITY WATER SYSTEM (>100,000 GALLONS/DAY)	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4142215404
IRRIGATION WELL	SUPER	ISLAND FOOD STORE #701	https://www.google.com/maps/place/17RMM4508623604
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	BAILY JAMES TRAILER PARK	https://www.google.com/maps/place/17RMM4128716954
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	ANDREW	CENTER STREET APARTMENTS	https://www.google.com/maps/place/17RMM4535224924
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	LOUGHMAN COMMUNITY CLUB	https://www.google.com/maps/place/17RMM4548325090
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	PROGRESS ENERGY	https://www.google.com/maps/place/17RMM4637126282
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	TAI POLK MEDICAL CENTER	https://www.google.com/maps/place/17

Well type	Project	Description	Google Map
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	CUSTOM CLASSIC AUTO SALES	RMM4524523698 https://www.google.com/maps/place/17RMM4580526159
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	HOLLY HILL FRUIT PRODUCTS	https://www.google.com/maps/place/17RMM4106715526
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	RINKER MATERIALS (CEMEX)	https://www.google.com/maps/place/17RMM4182618128
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	PAULINE'S BEAUTY SHOP	https://www.google.com/maps/place/17RMM4161116950
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	CEMEX CONSTRUCTION MET. FLORIDA LLC	https://www.google.com/maps/place/17RMM4267418315
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	GUY BYRD	https://www.google.com/maps/place/17RMM4538823827
LIMITED USE PUBLIC WATER SYSTEM (64E-8)	SUPER	A TO Z AUTO REPAIR	https://www.google.com/maps/place/17RMM4580526184
NON TRANSIENT/NON COMMUNITY WATER SYSTEM	SUPER	HOLLY HILL FRUIT PRODUCTS	https://www.google.com/maps/place/17RMM4093215528
NON TRANSIENT/NON COMMUNITY WATER SYSTEM	SUPER	HOLLY HILL FRUIT PRODUCTS	https://www.google.com/maps/place/17RMM4106315546
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	NEW ANTIOCH MISSIONARY BAPTIST	https://www.google.com/maps/place/17RMM4550325066
NON-COMMUNITY PUBLIC WATER SYSTEM	ANDREW	LOUGHMAN SERVICE CENTER	https://www.google.com/maps/place/17RMM4521523547
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	R V CORRAL & MHP	https://www.google.com/maps/place/17RMM4368720985
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	CSR AMERICAN INC. - CSR AMERICAN WELL #2	https://www.google.com/maps/place/17RMM4197118260
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	LOUGHMAN COUNTY PARK - LOUGHMAN COUNTY PA WELL #1	https://www.google.com/maps/place/17RMM4519924186
NON-COMMUNITY PUBLIC WATER SYSTEM	SUPER	LOUGHMAN PLAZA MINI-MART	https://www.google.com/maps/place/17RMM452223741
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	LOUGHMAN CIVIC CENTER	https://www.google.com/maps/place/17RMM4436324030
NON-COMMUNITY PUBLIC WATER SYSTEM	DEP	21 PALMS RV RESORT	https://www.google.com/maps/place/17RMM4488126154
NON-COMMUNITY PUBLIC WATER SYSTEM	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4142216604
NON-COMMUNITY PUBLIC WATER SYSTEM	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4162216655
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4537224624

Well type	Project	Description	Google Map
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4157215805
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM433220194
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4116617001
PRIVATE WATER WELL	SUPER	GONZALO OCHOA	https://www.google.com/maps/place/17RMM4638325990
PRIVATE WATER WELL	ANDREW	CHARLES RENFROW	https://www.google.com/maps/place/17RMM4495523789
PRIVATE WATER WELL	SUPER	RAY FREEMAN	https://www.google.com/maps/place/17RMM4453623869
PRIVATE WATER WELL	SUPER	HAWARD MARSHALL	https://www.google.com/maps/place/17RMM4471124047
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4618325890
PRIVATE WATER WELL	SUPER	JENIFIER BATTERING	https://www.google.com/maps/place/17RMM4443323709
PRIVATE WATER WELL	SUPER	JOHN LAFUCI	https://www.google.com/maps/place/17RMM4469124037
PRIVATE WATER WELL	SUPER	OAKHILL BAPTIST CHURCH	https://www.google.com/maps/place/17RMM4449224042
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4632425960
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4638625982
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4600226065
PRIVATE WATER WELL	SUPER	TIM	https://www.google.com/maps/place/17RMM4585526061
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4616925892
PRIVATE WATER WELL	SUPER	GROEGER	https://www.google.com/maps/place/17RMM4603125981
PRIVATE WATER WELL	SUPER	LILLIE CADET	https://www.google.com/maps/place/17RMM4557624890
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4628725949
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4102216684
PRIVATE WATER WELL	SUPER	RESIDENT	https://www.google.com/maps/place/17

Well type	Project	Description	Google Map
PRIVATE WATER WELL	SUPER	GRANT	RMM4633525957 https://www.google.com/maps/place/17RMM4572224664
PRIVATE WATER WELL	SUPER	JEANETTE GLENN	https://www.google.com/maps/place/17RMM4567724927
PRIVATE WATER WELL	SUPER	HAHIE CARRY	https://www.google.com/maps/place/17RMM4559625033
PRIVATE WATER WELL	SUPER	TRACY BETTS	https://www.google.com/maps/place/17RMM4566525019
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4553324936
PRIVATE WATER WELL	SUPER	BRUCE THOMPSON	https://www.google.com/maps/place/17RMM4595724859
PRIVATE WATER WELL	SUPER	VENESSA GIBBONS	https://www.google.com/maps/place/17RMM4561524910
PRIVATE WATER WELL	SUPER	DAVID SMITH	https://www.google.com/maps/place/17RMM4568824862
PRIVATE WATER WELL	SUPER	EVERETTE DAVIS	https://www.google.com/maps/place/17RMM4611626067
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4618826048
PRIVATE WATER WELL	TOX-EDB-INVEST	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4481724542
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4497223889
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4108616014
PRIVATE WATER WELL	SUPER	RESIDENT	https://www.google.com/maps/place/17RMM4519923867
PRIVATE WATER WELL	SUPER	EVA EARLEY	https://www.google.com/maps/place/17RMM4495323808
PRIVATE WATER WELL	SUPER	DIANA FLECIANO	https://www.google.com/maps/place/17RMM4465323948
PRIVATE WATER WELL	SUPER	DOUG PETERSON	https://www.google.com/maps/place/17RMM4470623904
PRIVATE WATER WELL	SUPER	MR. STATLLER	https://www.google.com/maps/place/17RMM4473323947
PRIVATE WATER WELL	SUPER	MR. STATLLER	https://www.google.com/maps/place/17RMM4474923953

Well type	Project	Description	Google Map
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4615526049
PRIVATE WATER WELL	SUPER	CADET	https://www.google.com/maps/place/17RMM4557624890
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4609026011
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4596126037
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4625825963
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4621525933
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4115916650
PRIVATE WATER WELL	SUPER	RATLIFF	https://www.google.com/maps/place/17RMM4577124594
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4606926037
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4485523863
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4489823851
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4492423867
PRIVATE WATER WELL	SUPER	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4498623937
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4422223704
PRIVATE WATER WELL	ANDREW	NO DESCRIPT AVAILABLE	https://www.google.com/maps/place/17RMM4199715024

Summary: 94 feature(s) found within buffer.

USEPA Superfund Hazardous Waste Sites

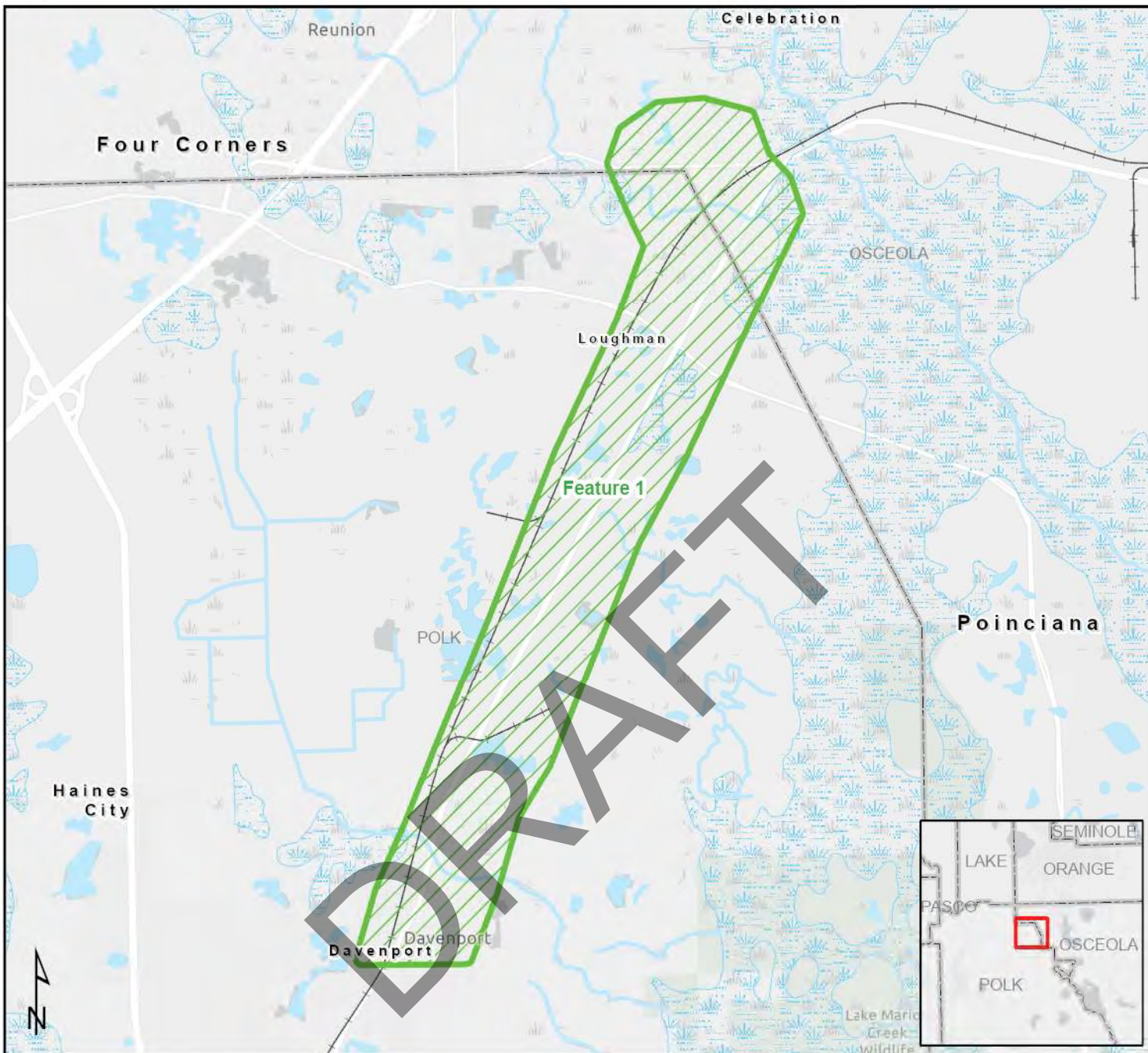
Metadata: <https://etdmpub.flh-etat.org/meta/epasuperfund.xml>

Central Polk Parkway EST - Feature 1, analyzed on 03/26/2025.

Footprint analyzed

Facility ID	Description	Status
110071100542	LA ROCHE INDUSTRIES, INC	NOT ON THE NPL

Summary: 1 feature(s) found within buffer.



WATERSS Base Map

- Area of Interest
- Railroad
- County Boundaries
- River, Stream or Canal
- Swamp/Marsh





NRCS SOILS REPORT DOCUMENTATION

DRAFT





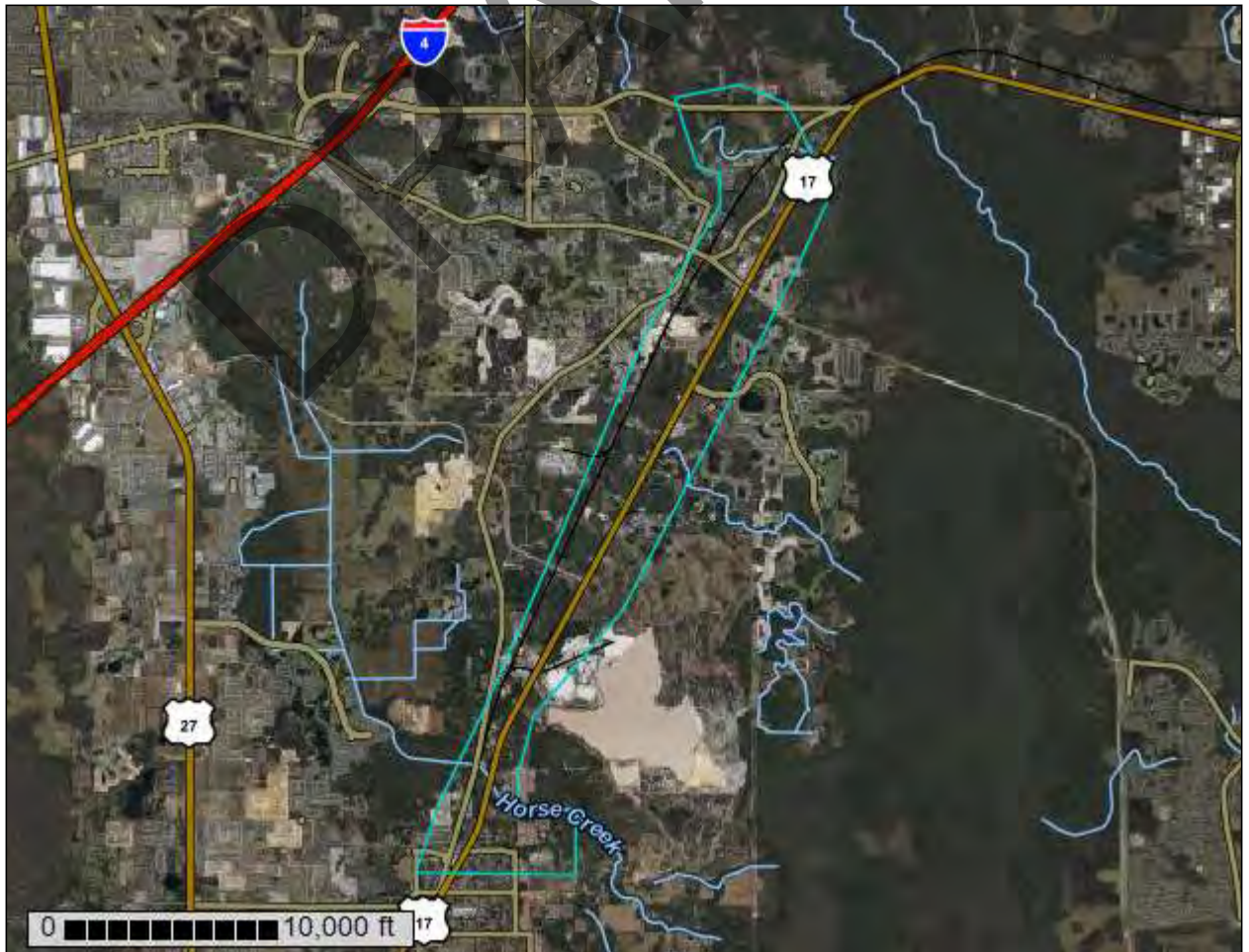
United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for Osceola County, Florida, and Polk County, Florida



October 1, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units).

Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

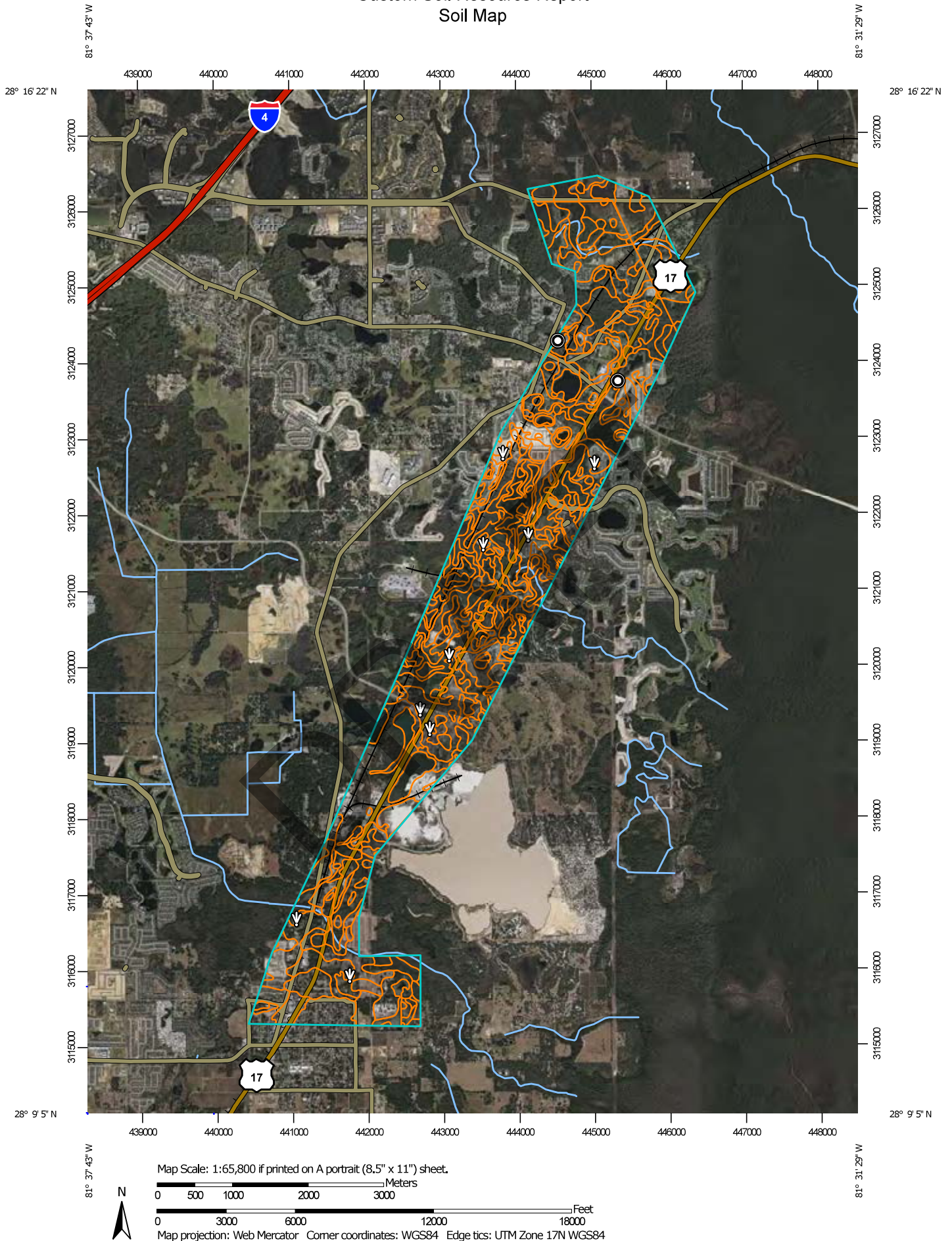
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Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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Custom Soil Resource Report Soil Map



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

Other

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Special Line Features

Other

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Osceola County, Florida
Survey Area Data: Version 22, Aug 22, 2024

Soil Survey Area: Polk County, Florida
Survey Area Data: Version 22, Aug 23, 2024

Your area of interest (AOI) includes more than one soil survey area. These survey areas may have been mapped at different scales, with a different land use in mind, at different times, or at different levels of detail. This may result in map unit symbols, soil properties, and interpretations that do not completely agree across soil survey area boundaries.

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 25, 2020—Mar 21, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND	MAP INFORMATION
	imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
5	Basinger fine sand, 0 to 2 percent slopes	0.2	0.0%
12	Floridana fine sand, frequently ponded, 0 to 1 percent slopes	21.3	0.5%
15	Hontoon muck, frequently ponded, 0 to 1 percent slopes	1.9	0.0%
16	Immokalee fine sand, 0 to 2 percent slopes	97.4	2.4%
22	Myakka fine sand, 0 to 2 percent slopes	8.1	0.2%
27	Ona fine sand, 0 to 2 percent slopes	18.3	0.5%
29	Parkwood loamy fine sand, occasionally flooded	1.4	0.0%
31	Pits	4.6	0.1%
32	Placid fine sand, frequently ponded, 0 to 1 percent slopes	24.8	0.6%
38	Riviera fine sand, 0 to 2 percent slopes	12.7	0.3%
39	Riviera fine sand, frequently ponded, 0 to 1 percent slopes	4.3	0.1%
40	Samsula muck, frequently ponded, 0 to 1 percent slopes	17.7	0.4%
41	Satellite sand, 0 to 2 percent slopes	61.2	1.5%
99	Water	3.4	0.1%
Subtotals for Soil Survey Area		277.5	6.9%
Totals for Area of Interest		4,017.2	100.0%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Candler sand, 0 to 5 percent slopes	176.9	4.4%
4	Candler sand, 5 to 8 percent slopes	6.0	0.2%
5	EauGallie fine sand	3.2	0.1%
12	Neilhurst sand, 1 to 5 percent slopes	246.5	6.1%
13	Samsula muck, frequently ponded, 0 to 1 percent slopes	233.3	5.8%
15	Tavares fine sand, 0 to 5 percent slopes	365.8	9.1%
16	Urban land, 0 to 2 percent slopes	30.7	0.8%

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Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
17	Smyrna and Myakka fine sands	293.4	7.3%
19	Floridana mucky fine sand, frequently ponded, 0 to 1 percent slopes	1.3	0.0%
21	Immokalee sand	228.3	5.7%
22	Pomello fine sand	20.1	0.5%
23	Ona-Ona, wet, fine sand, 0 to 2 percent slopes	18.5	0.5%
25	Placid and Myakka fine sands, depressional	359.7	9.0%
30	Pompano fine sand	190.0	4.7%
31	Adamsville fine sand, 0 to 2 percent slopes	93.6	2.3%
32	Kaliga muck, frequently ponded, 0 to 1 percent slopes	10.5	0.3%
35	Hontoon muck, frequently ponded, 0 to 1 percent slopes	93.9	2.3%
36	Basinger mucky fine sand, frequently ponded, 0 to 1 percent slopes	215.6	5.4%
37	Placid fine sand, frequently flooded	65.4	1.6%
46	Astatula sand, 0 to 5 percent slopes	358.5	8.9%
47	Zolfo fine sand, 0 to 2 percent slopes	13.6	0.3%
58	Udorthents, excavated	48.2	1.2%
59	Arents-Urban land complex, 0 to 5 percent slopes	42.4	1.1%
61	Arents, organic substratum-Urban land complex	4.5	0.1%
70	Duette fine sand	18.5	0.5%
74	Narcoossee sand	44.0	1.1%
76	Millhopper fine sand, 0 to 5 percent slopes	0.4	0.0%
77	Satellite sand, 0 to 2 percent slopes	181.9	4.5%
88	Astatula sand, 5 to 12 percent slopes	178.3	4.4%
89	Astatula sand, 12 to 20 percent slopes	4.9	0.1%
99	Water	191.6	4.8%
Subtotals for Soil Survey Area		3,739.6	93.1%
Totals for Area of Interest		4,017.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas

shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Osceola County, Florida

5—Basinger fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2svym

Elevation: 0 to 100 feet

Mean annual precipitation: 42 to 63 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Basinger and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Basinger

Setting

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear, convex

Across-slope shape: Linear, concave

Parent material: Sandy marine deposits

Typical profile

Ag - 0 to 2 inches: fine sand

Eg - 2 to 18 inches: fine sand

Bh/E - 18 to 36 inches: fine sand

Cg - 36 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)

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Hydric soil rating: Yes

Minor Components

Myakka

Percent of map unit: 6 percent

Landform: Drainageways on marine terraces, flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, talf

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

Immokalee

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Riser, talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

Placid

Percent of map unit: 4 percent

Landform: Depressions on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Pompano

Percent of map unit: 4 percent

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)

Hydric soil rating: Yes

Felda

Percent of map unit: 1 percent

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, talf, dip

Down-slope shape: Linear

Across-slope shape: Linear, concave

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

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Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

Anclote

Percent of map unit: 1 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, convex
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
Hydric soil rating: Yes

12—Floridana fine sand, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2sm53
Elevation: 0 to 90 feet
Mean annual precipitation: 42 to 64 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Floridana and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floridana

Setting

Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 19 inches: fine sand
Eg - 19 to 25 inches: fine sand
Btg - 25 to 80 inches: fine sandy loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

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Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: C/D
Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps
Forage suitability group: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)
Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Minor Components

Tequesta

Percent of map unit: 4 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
Other vegetative classification: Organic soils in depressions and on flood plains (G156AC645FL), Freshwater Marshes and Ponds (R156BY010FL)
Hydric soil rating: Yes

Anclote

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, convex
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
Hydric soil rating: Yes

Riviera

Percent of map unit: 3 percent
Landform: Drainageways on marine terraces, flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL), Slough (R155XY011FL)
Hydric soil rating: Yes

Gator

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Felda

Percent of map unit: 2 percent
Landform: Drainageways on marine terraces, flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

15—Hontoon muck, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2vbpf
Elevation: 0 to 250 feet
Mean annual precipitation: 38 to 65 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 300 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Hontoon and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hontoon

Setting

Landform: Depressions on marine terraces, swamps on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Parent material: Herbaceous organic material

Typical profile

Oe - 0 to 5 inches: mucky peat
Oa1 - 5 to 60 inches: muck

Custom Soil Resource Report

Oa2 - 60 to 65 inches: muck

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very high (about 24.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Forage suitability group: Organic soils in depressions and on flood plains (G155XB645FL)

Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Minor Components

Samsula

Percent of map unit: 7 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Placid

Percent of map unit: 5 percent

Landform: Depressions on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Basinger

Percent of map unit: 4 percent

Landform: Depressions on marine terraces

Custom Soil Resource Report

Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Pompano

Percent of map unit: 2 percent
Landform: Drainageways on marine terraces, flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

Myakka

Percent of map unit: 2 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

16—Immokalee fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2s3lk
Elevation: 0 to 130 feet
Mean annual precipitation: 42 to 68 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Immokalee and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Immokalee

Setting

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf

Custom Soil Resource Report

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 35 inches: fine sand
Bh - 35 to 54 inches: fine sand
BC - 54 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: B/D
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Minor Components

Basinger

Percent of map unit: 4 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Pomello

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluvium, side slope, riser
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Custom Soil Resource Report

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Wabasso

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Placid

Percent of map unit: 1 percent
Landform: Depressions on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Jenada

Percent of map unit: 1 percent
Landform: Flats on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Slough (R155XY011FL)
Hydric soil rating: Yes

22—Myakka fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2s3lg
Elevation: 0 to 130 feet
Mean annual precipitation: 42 to 56 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Myakka and similar soils: 85 percent

Custom Soil Resource Report

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Myakka

Setting

Landform: Drainageways on flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, tal

Down-slope shape: Linear

Across-slope shape: Concave, linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: fine sand

E - 6 to 20 inches: fine sand

Bh - 20 to 36 inches: fine sand

C - 36 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Very high

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 5.95 in/hr)*

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

*Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)*

*Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL), South Florida Flatwoods (R155XY003FL)*

Hydric soil rating: No

Minor Components

Basinger

Percent of map unit: 5 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

*Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)*

Hydric soil rating: Yes

Wabasso

Percent of map unit: 4 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Cassia

Percent of map unit: 3 percent
Landform: Flatwoods on marine terraces, rises on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Immokalee

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Satellite

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces, rises on marine terraces
Landform position (three-dimensional): Tread, talf, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

27—Ona fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2w4gy

Custom Soil Resource Report

Elevation: 10 to 130 feet
Mean annual precipitation: 44 to 63 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Ona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ona

Setting

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand
Bh - 4 to 22 inches: fine sand
C - 22 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Minor Components

Basinger

Percent of map unit: 5 percent
Landform: Flats on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Convex, concave

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Across-slope shape: Linear, concave
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

Immokalee

Percent of map unit: 3 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Myakka

Percent of map unit: 3 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Pomello

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Interfluvium, side slope, riser
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Eaugallie

Percent of map unit: 2 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

29—Parkwood loamy fine sand, occasionally flooded

Map Unit Setting

National map unit symbol: 1lt2r

Elevation: 10 to 100 feet

Mean annual precipitation: 44 to 52 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 342 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Parkwood, occasionally flooded, and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Parkwood, Occasionally Flooded

Setting

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy and loamy marine deposits

Typical profile

A1 - 0 to 5 inches: loamy fine sand

A2 - 5 to 7 inches: fine sand

Btca - 7 to 35 inches: fine sandy loam

C/Bca - 35 to 80 inches: loamy fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: Occasional

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A/D

Ecological site: F155XY140FL - Loamy and Clayey Flats and Hammocks

Custom Soil Resource Report

Forage suitability group: Loamy and clayey soils on stream terraces, flood plains, or in depressions (G155XB345FL)

Other vegetative classification: Wetland Hardwood Hammock (R155XY012FL),
Loamy and clayey soils on stream terraces, flood plains, or in depressions
(G155XB345FL)

Hydric soil rating: Yes

Minor Components

Riviera

Percent of map unit: 2 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

Hydric soil rating: Yes

Pompano

Percent of map unit: 2 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)

Hydric soil rating: Yes

Wabasso

Percent of map unit: 2 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)

Hydric soil rating: No

Malabar

Percent of map unit: 2 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)

Hydric soil rating: Yes

Winder

Percent of map unit: 2 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf
Down-slope shape: Linear, concave
Across-slope shape: Linear
Ecological site: F155XY140FL - Loamy and Clayey Flats and Hammocks
Other vegetative classification: Loamy and clayey soils on stream terraces, flood plains, or in depressions (G155XB345FL)
Hydric soil rating: Yes

31—Pits

Map Unit Setting

National map unit symbol: 1lt2t
Mean annual precipitation: 44 to 52 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 342 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Pits: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pits

Setting

Landform: Marine terraces
Landform position (three-dimensional): Interfluve, dip
Down-slope shape: Linear
Across-slope shape: Linear

Interpretive groups

Land capability classification (irrigated): None specified
Forage suitability group: Forage suitability group not assigned (G155XB999FL)
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)
Hydric soil rating: Unranked

Minor Components

Arents

Percent of map unit: 5 percent
Landform: Rises on marine terraces
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)
Hydric soil rating: No

32—Placid fine sand, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2ttx9

Elevation: 0 to 160 feet

Mean annual precipitation: 44 to 61 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Placid and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Placid

Setting

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Sandy marine deposits

Typical profile

A - 0 to 24 inches: fine sand

Cg - 24 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

Custom Soil Resource Report

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Minor Components

Basinger

Percent of map unit: 7 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Myakka

Percent of map unit: 5 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Gentry

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Samsula

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Felda

Percent of map unit: 2 percent
Landform: Drainageways on marine terraces, flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks
Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)
Hydric soil rating: Yes

38—Riviera fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2tzw2
Elevation: 0 to 80 feet
Mean annual precipitation: 44 to 59 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Riviera and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riviera

Setting

Landform: Flats on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear
Across-slope shape: Concave, linear
Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 28 inches: fine sand
Bt/E - 28 to 32 inches: fine sandy loam
Btg - 32 to 42 inches: sandy clay loam
C - 42 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: About 3 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Custom Soil Resource Report

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Moderate (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A/D

Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks

Forage suitability group: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL), Slough (R155XY011FL)

Hydric soil rating: Yes

Minor Components

Wabasso

Percent of map unit: 8 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

Pinellas

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks

Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL), Cabbage Palm Flatwoods (R155XY005FL)

Hydric soil rating: No

Brynwood

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: Yes

Floridana

Percent of map unit: 2 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Oldsmar

Percent of map unit: 2 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

39—Riviera fine sand, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tzw1

Elevation: 0 to 80 feet

Mean annual precipitation: 44 to 64 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Riviera and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riviera

Setting

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 4 inches: fine sand

E - 4 to 36 inches: fine sand

Bt/E - 36 to 42 inches: fine sandy loam

Cg1 - 42 to 56 inches: fine sand

Cg2 - 56 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Custom Soil Resource Report

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)

Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)

Hydric soil rating: Yes

Minor Components

Chobee

Percent of map unit: 7 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY090FL - Loamy and Clayey Freshwater Isolated Marshes and Swamps

Other vegetative classification: Freshwater Marshes and Ponds (R156BY010FL), Loamy and clayey soils on stream terraces, flood plains, or in depressions (G156BC345FL)

Hydric soil rating: Yes

Tequesta

Percent of map unit: 4 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Organic soils in depressions and on flood plains (G156AC645FL), Freshwater Marshes and Ponds (R156BY010FL)

Hydric soil rating: Yes

Wabasso

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

40—Samsula muck, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tzw9
Elevation: 0 to 250 feet
Mean annual precipitation: 44 to 63 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 335 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Samsula and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Samsula

Setting

Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Herbaceous organic material over sandy marine deposits

Typical profile

Oa1 - 0 to 24 inches: muck
Oa2 - 24 to 32 inches: muck
Cg1 - 32 to 35 inches: sand
Cg2 - 35 to 44 inches: sand
Cg3 - 44 to 80 inches: sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very high (about 13.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Forage suitability group: Organic soils in depressions and on flood plains (G155XB645FL)

Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Minor Components

Myakka

Percent of map unit: 3 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Kaliga

Percent of map unit: 3 percent

Landform: Depressions on flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, talf

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Basinger

Percent of map unit: 3 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

Hydric soil rating: Yes

Anclote

Percent of map unit: 2 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, convex

Across-slope shape: Concave, linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Custom Soil Resource Report

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)

Hydric soil rating: Yes

Floridana

Percent of map unit: 2 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Sanibel

Percent of map unit: 2 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Organic soils in depressions and on flood plains (G155XB645FL)

Hydric soil rating: Yes

41—Satellite sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2svzb

Elevation: 0 to 200 feet

Mean annual precipitation: 44 to 61 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Satellite and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Satellite

Setting

Landform: Drainageways on flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, tal

Down-slope shape: Linear

Custom Soil Resource Report

Across-slope shape: Concave, linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: sand
C1 - 6 to 13 inches: sand
C2 - 13 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 to 50.02 in/hr)
Depth to water table: About 18 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
Other vegetative classification: Sand Pine Scrub (R155XY001FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
Hydric soil rating: No

Minor Components

Myakka

Percent of map unit: 5 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Immokalee

Percent of map unit: 4 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Basinger

Percent of map unit: 3 percent
Landform: Flats on marine terraces, drainageways on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Convex, concave
Across-slope shape: Linear, concave
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

Cassia

Percent of map unit: 2 percent
Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Pompano

Percent of map unit: 1 percent
Landform: Drainageways on flats on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear
Across-slope shape: Linear, concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

99—Water

Map Unit Composition

Water: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water

Interpretive groups

Land capability classification (irrigated): None specified
Ecological site: R156BY150FL - Subaqueous Freshwater Lacustrine Habitats
Forage suitability group: Forage suitability group not assigned (G155XB999FL)
Other vegetative classification: Forage suitability group not assigned (G155XB999FL)
Hydric soil rating: Unranked

DRAFT

Polk County, Florida

3—Candler sand, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2t3z1

Elevation: 10 to 260 feet

Mean annual precipitation: 47 to 56 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 280 to 365 days

Farmland classification: Farmland of unique importance

Map Unit Composition

Candler and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Candler

Setting

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope, interfluvium, tread

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Eolian deposits and/or sandy and loamy marine deposits

Typical profile

A - 0 to 6 inches: sand

E - 6 to 63 inches: sand

E and Bt - 63 to 80 inches: sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A

Ecological site: R154XX001FL - Yellow Sands Xeric Uplands

Forage suitability group: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)

Custom Soil Resource Report

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL), Longleaf Pine-Turkey Oak Hills (R155XY002FL), Sandy soils on ridges and dunes of xeric uplands (G155XB111FL)
Hydric soil rating: No

Minor Components

Millhopper

Percent of map unit: 5 percent
Landform: Ridges on marine terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Tavares

Percent of map unit: 5 percent
Landform: Ridges on marine terraces
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Concave, convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

4—Candler sand, 5 to 8 percent slopes

Map Unit Setting

National map unit symbol: 1jttm
Elevation: 20 to 150 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Candler and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Candler

Setting

Landform: Knolls on marine terraces, hillslopes on marine terraces
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian deposits and/or sandy and loamy marine deposits

Typical profile

A - 0 to 7 inches: sand
E - 7 to 63 inches: sand
E and Bt - 63 to 80 inches: sand

Properties and qualities

Slope: 5 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: R154XX001FL - Yellow Sands Xeric Uplands
Forage suitability group: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL)
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Minor Components

Astatula

Percent of map unit: 4 percent
Landform: Hills on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R154XX001FL - Yellow Sands Xeric Uplands
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Apopka

Percent of map unit: 4 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve, side slope

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Millhopper

Percent of map unit: 4 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Upland Hardwood Hammock (R154XY008FL)
Hydric soil rating: No

Tavares

Percent of map unit: 3 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

5—EauGallie fine sand

Map Unit Setting

National map unit symbol: 1jtn
Elevation: 20 to 150 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Eaugallie, non-hydric, and similar soils: 65 percent
Eaugallie, hydric, and similar soils: 20 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Eaugallie, Non-hydric

Setting

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 26 inches: fine sand
Bh - 26 to 32 inches: fine sand
BE - 32 to 52 inches: fine sand
Btg - 52 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 1.98 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: A/D
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL)
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Description of Eugallie, Hydric

Setting

Landform: Flats on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 6 inches: fine sand
E - 6 to 26 inches: fine sand
Bh - 26 to 32 inches: fine sand
BE - 32 to 52 inches: fine sand
Btg - 52 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: High

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high
(0.06 to 1.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL)

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: Yes

Minor Components

Felda

Percent of map unit: 4 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F155XY130FL - Sandy over Loamy Flatwoods and Hammocks

Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic
lowlands (G154XB241FL), Slough (R154XY011FL)

Hydric soil rating: Yes

Pomona, non-hydric

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: No

Malabar

Percent of map unit: 4 percent

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), Slough (R154XY011FL)

Hydric soil rating: Yes

Wabasso, non-hydric

Percent of map unit: 3 percent

Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

12—Neilhurst sand, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1jttw
Elevation: 80 to 310 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Neilhurst and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Neilhurst

Setting

Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, side slope, rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy mine spoil or earthy fill

Typical profile

A - 0 to 3 inches: sand
C - 3 to 80 inches: sand

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 to 50.02 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0

Custom Soil Resource Report

Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Forage suitability group: Forage suitability group not assigned (G154XB999FL)

Other vegetative classification: Forage suitability group not assigned (G154XB999FL)

Hydric soil rating: No

Minor Components

Haplaquents, clayey

Percent of map unit: 5 percent

Landform: Marine terraces, depressions

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear, concave

Across-slope shape: Linear, concave

Other vegetative classification: Forage suitability group not assigned (G154XB999FL)

Hydric soil rating: Yes

Arents

Percent of map unit: 5 percent

Landform: Rises on marine terraces

Landform position (three-dimensional): Rise

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Forage suitability group not assigned (G154XB999FL)

Hydric soil rating: No

13—Samsula muck, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2tzw9

Elevation: 0 to 250 feet

Mean annual precipitation: 44 to 63 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 335 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Samsula and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Samsula

Setting

Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Herbaceous organic material over sandy marine deposits

Typical profile

Oa1 - 0 to 24 inches: muck
Oa2 - 24 to 32 inches: muck
Cg1 - 32 to 35 inches: sand
Cg2 - 35 to 44 inches: sand
Cg3 - 44 to 80 inches: sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very high (about 13.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: A/D
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
Forage suitability group: Organic soils in depressions and on flood plains (G155XB645FL)
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Minor Components

Basinger

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: Yes

Kaliga

Percent of map unit: 3 percent
Landform: Depressions on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Myakka

Percent of map unit: 3 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Anclote

Percent of map unit: 2 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Convex, concave
Across-slope shape: Linear, concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL)
Hydric soil rating: Yes

Floridana

Percent of map unit: 2 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)
Hydric soil rating: Yes

Sanibel

Percent of map unit: 2 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Linear, concave
Across-slope shape: Concave
Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Organic soils in depressions and on flood plains
(G155XB645FL)
Hydric soil rating: Yes

15—Tavares fine sand, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2w0pz
Elevation: 30 to 160 feet
Mean annual precipitation: 44 to 56 inches
Mean annual air temperature: 68 to 75 degrees F
Frost-free period: 290 to 365 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Tavares and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Tavares

Setting

Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Interfluve, side slope, tread, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Eolian or sandy marine deposits

Typical profile

A - 0 to 5 inches: fine sand
C - 5 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 42 to 60 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A

Custom Soil Resource Report

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Forage suitability group: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL)
Other vegetative classification: Longleaf Pine-Turkey Oak Hills (R154XY002FL), Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL)
Hydric soil rating: No

Minor Components

Candler

Percent of map unit: 5 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve, tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex, concave
Ecological site: R154XX001FL - Yellow Sands Xeric Uplands
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Apopka

Percent of map unit: 4 percent
Landform: Ridges on marine terraces, knolls on marine terraces
Landform position (two-dimensional): Summit, shoulder, footslope
Landform position (three-dimensional): Crest, side slope, nose slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

Zolfo

Percent of map unit: 3 percent
Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), North Florida Flatwoods (R154XY004FL)
Hydric soil rating: No

Narcoossee

Percent of map unit: 3 percent
Landform: Knolls on marine terraces, rises on marine terraces
Landform position (three-dimensional): Interfluve, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), Upland Hardwood Hammock (R154XY008FL)
Hydric soil rating: No

16—Urban land, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2x9fc

Elevation: 0 to 200 feet

Mean annual precipitation: 40 to 68 inches

Mean annual air temperature: 68 to 79 degrees F

Frost-free period: 345 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Urban land: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Urban Land

Setting

Landform: Flatwoods on marine terraces, rises on marine terraces, knolls on marine terraces, ridges on marine terraces, hills on marine terraces

Landform position (two-dimensional): Summit, backslope

Landform position (three-dimensional): Interfluve, side slope, riser, talf, rise

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified

Forage suitability group: Forage suitability group not assigned (G155XB999FL)

Other vegetative classification: Forage suitability group not assigned (G155XB999FL)

Hydric soil rating: Unranked

Minor Components

Matlacha

Percent of map unit: 3 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Convex, linear

Across-slope shape: Linear

Other vegetative classification: Forage suitability group not assigned (G155XB999FL)

Hydric soil rating: No

St. augustine

Percent of map unit: 3 percent

Landform: Marine terraces

Landform position (three-dimensional): Tread, rise

Down-slope shape: Linear

Custom Soil Resource Report

Across-slope shape: Convex

Other vegetative classification: Forage suitability group not assigned
(G155XB999FL)

Hydric soil rating: No

Paola

Percent of map unit: 1 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Summit, backslope

Landform position (three-dimensional): Side slope, interfluvium, riser

Down-slope shape: Convex, linear

Across-slope shape: Linear

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands
(G155XB111FL), Sand Pine Scrub (R155XY001FL)

Hydric soil rating: No

Pomello

Percent of map unit: 1 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Summit, backslope

Landform position (three-dimensional): Side slope, interfluvium, riser

Down-slope shape: Convex, linear

Across-slope shape: Linear

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands
(G155XB131FL), Sand Pine Scrub (R155XY001FL)

Hydric soil rating: No

Adamsville

Percent of map unit: 1 percent

Landform: Knolls on marine terraces, rises on marine terraces

Landform position (three-dimensional): Tread, rise

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands
(G155XB131FL), Upland Hardwood Hammock (R155XY008FL)

Hydric soil rating: No

Apopka

Percent of map unit: 1 percent

Landform: Ridges on marine terraces, hills on marine terraces

Landform position (two-dimensional): Summit, backslope

Landform position (three-dimensional): Interfluvium, side slope, riser

Down-slope shape: Convex

Across-slope shape: Linear

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands
(G155XB111FL), Longleaf Pine-Turkey Oak Hills (R155XY002FL)

Hydric soil rating: No

Cypress lake

Percent of map unit: 1 percent

Landform: Drainageways on marine terraces, flats on marine terraces

Landform position (three-dimensional): Tread, dip, talus

Down-slope shape: Linear, convex

Across-slope shape: Concave, linear

Other vegetative classification: Sandy over loamy soils on flats of hydric or mesic
lowlands (G155XB241FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: Yes

Brynwood

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: Yes

Immokalee

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Riser, talf
Down-slope shape: Linear
Across-slope shape: Linear
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Myakka

Percent of map unit: 1 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear
Across-slope shape: Linear, concave
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Eaugallie

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf
Down-slope shape: Convex
Across-slope shape: Linear
Other vegetative classification: South Florida Flatwoods (R155XY003FL), Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)
Hydric soil rating: No

17—Smyrna and Myakka fine sands

Map Unit Setting

National map unit symbol: 1jtv1
Elevation: 20 to 260 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Smyrna, non-hydric, and similar soils: 41 percent

Myakka and similar soils: 39 percent

Smyrna, hydric, and similar soils: 15 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Smyrna, Non-hydric

Setting

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand

E - 4 to 12 inches: fine sand

Bh - 12 to 25 inches: fine sand

E' - 25 to 42 inches: fine sand

B'h - 42 to 48 inches: fine sand

C - 48 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: High

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 5.95 in/hr)*

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

*Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL)*

*Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)*

Hydric soil rating: No

Description of Myakka

Setting

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Custom Soil Resource Report

Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: fine sand
E - 7 to 25 inches: fine sand
Bh - 25 to 36 inches: fine sand
C - 36 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: A/D
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL)
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Description of Smyrna, Hydric

Setting

Landform: Flats on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 4 inches: fine sand
E - 4 to 12 inches: fine sand
Bh - 12 to 25 inches: fine sand
E' - 25 to 42 inches: fine sand
B'h - 42 to 48 inches: fine sand
C - 48 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Custom Soil Resource Report

Depth to water table: About 0 to 12 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: A/D
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL)
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: Yes

Minor Components

Basinger

Percent of map unit: 2 percent
Landform: Drainageways on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)
Hydric soil rating: Yes

Pomona, non-hydric

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Immokalee, non-hydric

Percent of map unit: 1 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Ona, non-hydric

Percent of map unit: 1 percent
Landform: Flats on marine terraces
Landform position (three-dimensional): Talf

Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

19—Floridana mucky fine sand, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2sm4y
Elevation: 0 to 90 feet
Mean annual precipitation: 45 to 63 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 335 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Floridana and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floridana

Setting

Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave, linear
Across-slope shape: Concave, linear
Parent material: Sandy and loamy marine deposits

Typical profile

A1 - 0 to 4 inches: mucky fine sand
A2 - 4 to 15 inches: fine sand
Eg - 15 to 32 inches: fine sand
Btg - 32 to 44 inches: sandy clay loam
BCg - 44 to 80 inches: sandy loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None

Custom Soil Resource Report

Frequency of ponding: Frequent

Calcium carbonate, maximum content: 4 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Moderate (about 7.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: C/D

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL)

Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Minor Components

Holopaw

Percent of map unit: 5 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Gator

Percent of map unit: 4 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY100FL - Organic Freshwater Isolated Marshes and Swamps

Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

Hydric soil rating: Yes

Felda

Percent of map unit: 4 percent

Landform: Depressions on marine terraces, flats on marine terraces

Landform position (three-dimensional): Tread, dip, talf

Down-slope shape: Linear

Across-slope shape: Linear, concave

Ecological site: R155XY080FL - Sandy over Loamy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy over loamy soils on stream terraces, flood plains, or in depressions (G155XB245FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Placid

Percent of map unit: 2 percent

Landform: Drainageways on marine terraces, depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

21—Immokalee sand

Map Unit Setting

National map unit symbol: 1jtv4

Elevation: 50 to 260 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Immokalee, non-hydric, and similar soils: 75 percent

Immokalee, hydric, and similar soils: 10 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Immokalee, Non-hydric

Setting

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: sand

E - 7 to 39 inches: sand

Bh - 39 to 58 inches: sand

E' - 58 to 66 inches: sand

B'h - 66 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: High

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL)

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: No

Description of Immokalee, Hydric

Setting

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Concave

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: sand

E - 7 to 39 inches: sand

Bh - 39 to 58 inches: sand

E' - 58 to 66 inches: sand

B'h - 66 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: B/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL)

Custom Soil Resource Report

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: Yes

Minor Components

Myakka

Percent of map unit: 5 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Basinger

Percent of map unit: 5 percent
Landform: Drainageways on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)
Hydric soil rating: Yes

Smyrna, non-hydric

Percent of map unit: 5 percent
Landform: Flats on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

22—Pomello fine sand

Map Unit Setting

National map unit symbol: 1jtv5
Elevation: 10 to 260 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Pomello and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pomello

Setting

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (three-dimensional): Interfluve, rise

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 5 inches: fine sand

E - 5 to 48 inches: fine sand

Bh - 48 to 63 inches: fine sand

BC - 63 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: About 24 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, F155XY150FL -

Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G154XB131FL)

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Minor Components

Immokalee, non-hydric

Percent of map unit: 5 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods, F155XY120FL - Sandy Flatwoods and Hammocks

Custom Soil Resource Report

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)
Hydric soil rating: No

Archbold

Percent of map unit: 5 percent
Landform: Ridges on marine terraces, knolls on marine terraces
Landform position (three-dimensional): Interfluvium
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Sand Pine Scrub (R154XY001FL)
Hydric soil rating: No

Duette

Percent of map unit: 5 percent
Landform: Rises on marine terraces
Landform position (three-dimensional): Interfluvium, rise
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Sand Pine Scrub (R154XY001FL), Sand Pine Scrub (R154XY001FL)
Hydric soil rating: No

Satellite

Percent of map unit: 5 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (three-dimensional): Interfluvium
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), Sand Pine Scrub (R154XY001FL)
Hydric soil rating: No

23—Ona-Ona, wet, fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2w4gx
Elevation: 10 to 130 feet
Mean annual precipitation: 46 to 56 inches
Mean annual air temperature: 66 to 77 degrees F
Frost-free period: 325 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Ona and similar soils: 75 percent

Ona, wet, and similar soils: 12 percent

Minor components: 13 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ona

Setting

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 9 inches: fine sand

Bh - 9 to 16 inches: fine sand

C - 16 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: High

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.57 to 1.98 in/hr)*

Depth to water table: About 6 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B/D

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

*Forage suitability group: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)*

*Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL)*

Hydric soil rating: No

Description of Ona, Wet

Setting

Landform: Sloughs on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 9 inches: fine sand

Custom Soil Resource Report

Bh - 9 to 16 inches: fine sand

C - 16 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: About 0 to 18 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B/D

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

Hydric soil rating: Yes

Minor Components

Myakka

Percent of map unit: 5 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: No

Basinger, hydric

Percent of map unit: 4 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)

Hydric soil rating: Yes

Immokalee

Percent of map unit: 4 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf

Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: F155XY120FL - Sandy Flatwoods and Hammocks
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

25—Placid and Myakka fine sands, depressional

Map Unit Setting

National map unit symbol: 1jtv8
Elevation: 20 to 250 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Placid, depressional, and similar soils: 60 percent
Myakka, depressional, and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Placid, Depressional

Setting

Landform: Depressions on marine terraces
Landform position (three-dimensional): Dip
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy marine deposits

Typical profile

A - 0 to 18 inches: fine sand
Cg - 18 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL)

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Description of Myakka, Depressional

Setting

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Sandy marine deposits

Typical profile

A - 0 to 3 inches: fine sand

E - 3 to 25 inches: fine sand

Bh - 25 to 35 inches: fine sand

Cg - 35 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL)

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Minor Components

Basinger, depressional

Percent of map unit: 3 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Ona, hydric

Percent of map unit: 3 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: Yes

St. Johns, hydric

Percent of map unit: 2 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Cutthroat Seeps (R154XY007FL)

Hydric soil rating: Yes

Pomona, hydric

Percent of map unit: 2 percent

Landform: Flats on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: Yes

30—Pompano fine sand

Map Unit Setting

National map unit symbol: 1jtvd

Elevation: 10 to 100 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Pompano and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pompano

Setting

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear

Across-slope shape: Concave

Parent material: Sandy marine deposits

Typical profile

A - 0 to 15 inches: fine sand

C - 15 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 to 6 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4w

Hydrologic Soil Group: A/D

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Custom Soil Resource Report

Forage suitability group: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL)

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)

Hydric soil rating: Yes

Minor Components

Placid, depressional

Percent of map unit: 5 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Basinger

Percent of map unit: 5 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)

Hydric soil rating: Yes

Anclothe, depressional

Percent of map unit: 5 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R155XY070FL - Sandy Freshwater Isolated Marshes and Swamps

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

31—Adamsville fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2r8h8

Elevation: 10 to 100 feet

Mean annual precipitation: 47 to 56 inches

Mean annual air temperature: 68 to 75 degrees F

Custom Soil Resource Report

Frost-free period: 290 to 365 days

Farmland classification: Farmland of unique importance

Map Unit Composition

Adamsville and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Adamsville

Setting

Landform: Flats on marine terraces, rises on marine terraces

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluvium, talus

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

Ap - 0 to 7 inches: fine sand

C1 - 7 to 20 inches: fine sand

C2 - 20 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 18 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A/D

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), South Florida Flatwoods (R154XY003FL), Upland Hardwood Hammock (R155XY008FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

Hydric soil rating: No

Minor Components

Myakka

Percent of map unit: 3 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Tread, talus

Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Basinger

Percent of map unit: 2 percent
Landform: Drainageways
Landform position (three-dimensional): Dip, talf
Down-slope shape: Concave, linear
Across-slope shape: Concave, convex
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

32—Kaliga muck, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2ttx5
Elevation: 0 to 130 feet
Mean annual precipitation: 44 to 55 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Kaliga and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kaliga

Setting

Landform: Depressions on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Parent material: Herbaceous organic material over loamy marine deposits

Typical profile

Oa - 0 to 25 inches: muck
C1 - 25 to 35 inches: fine sandy loam
C2 - 35 to 60 inches: sandy clay loam
C3 - 60 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches

Custom Soil Resource Report

Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very high (about 15.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: C/D
Ecological site: F154XA014FL - Histic Wetland Depressions
Forage suitability group: Organic soils in depressions and on flood plains (G155XB645FL)
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Minor Components

Samsula

Percent of map unit: 5 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: F154XA014FL - Histic Wetland Depressions
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Chobee

Percent of map unit: 4 percent
Landform: Depressions on flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear, concave
Across-slope shape: Concave, linear
Ecological site: F154XA015FL - Mineral Depressional Wetlands
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Tequesta

Percent of map unit: 4 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: F154XA014FL - Histic Wetland Depressions
Other vegetative classification: Organic soils in depressions and on flood plains (G156AC645FL), Freshwater Marshes and Ponds (R156BY010FL)
Hydric soil rating: Yes

Felda

Percent of map unit: 4 percent

Landform: Depressions on marine terraces, flatwoods on marine terraces

Landform position (three-dimensional): Tread, dip, talf

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: F154XA012FL - Wet Rich Forests And Woodlands

Other vegetative classification: Slough (R155XY011FL), Sandy over loamy soils on flats of hydric or mesic lowlands (G155XB241FL)

Hydric soil rating: Yes

Placid

Percent of map unit: 3 percent

Landform: Drainageways on marine terraces, depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

35—Hontoon muck, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2vbpg

Elevation: 0 to 250 feet

Mean annual precipitation: 43 to 63 inches

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 300 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Hontoon and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hontoon

Setting

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Herbaceous organic material

Typical profile

Oa - 0 to 75 inches: muck

AC - 75 to 80 inches: sandy loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very high (about 23.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: A/D
Ecological site: F154XA014FL - Histic Wetland Depressions
Forage suitability group: Organic soils in depressions and on flood plains (G154XB645FL)
Other vegetative classification: Organic soils in depressions and on flood plains (G154XB645FL), Freshwater Marshes and Ponds (R154XY010FL)
Hydric soil rating: Yes

Minor Components

Hontoon, drained

Percent of map unit: 5 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: F154XA014FL - Histic Wetland Depressions
Other vegetative classification: Organic soils in depressions and on flood plains (G154XB645FL), Freshwater Marshes and Ponds (R154XY010FL)
Hydric soil rating: Yes

Samsula

Percent of map unit: 5 percent
Landform: Depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: F154XA014FL - Histic Wetland Depressions
Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)
Hydric soil rating: Yes

Placid

Percent of map unit: 3 percent
Landform: Drainageways on marine terraces, depressions on marine terraces
Landform position (three-dimensional): Tread, dip
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: F154XA015FL - Mineral Depressional Wetlands

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Basinger

Percent of map unit: 2 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL)

Hydric soil rating: Yes

36—Basinger mucky fine sand, frequently ponded, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2y9hl

Elevation: 50 to 230 feet

Mean annual precipitation: 45 to 55 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Basinger and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Basinger

Setting

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip, talf

Down-slope shape: Concave, linear

Across-slope shape: Concave, linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: mucky fine sand

E - 7 to 19 inches: fine sand

E/Bh - 19 to 39 inches: fine sand

C - 39 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Negligible

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)

Depth to water table: About 0 inches

Frequency of flooding: None

Frequency of ponding: Frequent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Moderate (about 6.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: A/D

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL)

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Minor Components

Placid

Percent of map unit: 4 percent

Landform: Depressions on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G155XB145FL), Freshwater Marshes and Ponds (R155XY010FL)

Hydric soil rating: Yes

Samsula

Percent of map unit: 4 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: F154XA014FL - Histic Wetland Depressions

Other vegetative classification: Freshwater Marshes and Ponds (R155XY010FL), Organic soils in depressions and on flood plains (G155XB645FL)

Hydric soil rating: Yes

Pompano

Percent of map unit: 4 percent

Landform: Drainageways on marine terraces, flats on marine terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear

Across-slope shape: Concave, linear

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)

Hydric soil rating: Yes

St. Johns

Percent of map unit: 3 percent

Landform: Depressions on marine terraces, flats on marine terraces

Landform position (three-dimensional): Tread, dip, talf

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G155XB141FL), South Florida Flatwoods (R155XY003FL)

Hydric soil rating: Yes

37—Placid fine sand, frequently flooded

Map Unit Setting

National map unit symbol: 1jtvn

Elevation: 10 to 200 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Placid and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Placid

Setting

Landform: Flood plains on marine terraces

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 18 inches: fine sand

Cg - 18 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: About 0 to 6 inches

Frequency of flooding: Frequent

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Custom Soil Resource Report

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Moderate (about 6.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: A/D

Ecological site: F154XA016FL - Wet Mineral Alluvial Forest And Marshlands

Forage suitability group: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL)

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL)

Hydric soil rating: Yes

Minor Components

Adamsville

Percent of map unit: 3 percent

Landform: Ridges on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluvial, talus

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: No

Basinger

Percent of map unit: 3 percent

Landform: Drainageways on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)

Hydric soil rating: Yes

Holopaw, depressional

Percent of map unit: 3 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Anclote, depressional

Percent of map unit: 3 percent

Landform: Depressions on marine terraces

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: F154XA015FL - Mineral Depressional Wetlands

Custom Soil Resource Report

Other vegetative classification: Sandy soils on stream terraces, flood plains, or in depressions (G154XB145FL), Freshwater Marshes and Ponds (R154XY010FL)

Hydric soil rating: Yes

Pompano

Percent of map unit: 3 percent

Landform: Flats on marine terraces, drainageways on marine terraces

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G154XB141FL), Slough (R154XY011FL)

Hydric soil rating: Yes

46—Astatula sand, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2r8gx

Elevation: 20 to 190 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 68 to 75 degrees F

Frost-free period: 276 to 320 days

Farmland classification: Not prime farmland

Map Unit Composition

Astatula and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Astatula

Setting

Landform: Hills on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Eolian or sandy marine deposits

Typical profile

A - 0 to 3 inches: sand

C - 3 to 80 inches: sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Custom Soil Resource Report

Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 to 50.02 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: R154XX001FL - Yellow Sands Xeric Uplands

Forage suitability group: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL)

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Minor Components

Candler, very deep loamy substratum

Percent of map unit: 5 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R154XX001FL - Yellow Sands Xeric Uplands

Other vegetative classification: Sandy soils on ridges and dunes of xeric uplands (G154XB111FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Hydric soil rating: No

Tavares

Percent of map unit: 5 percent

Landform: Flats on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Hydric soil rating: No

47—Zolfo fine sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2w0q1

Custom Soil Resource Report

Elevation: 30 to 160 feet
Mean annual precipitation: 44 to 56 inches
Mean annual air temperature: 68 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Farmland of unique importance

Map Unit Composition

Zolfo and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Zolfo

Setting

Landform: Flatwoods on marine terraces, rises on marine terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread, rise
Down-slope shape: Linear, convex
Across-slope shape: Linear
Parent material: Sandy marine deposits

Typical profile

A - 0 to 5 inches: fine sand
E - 5 to 59 inches: fine sand
Bh - 59 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 18 to 42 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: A
Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods
Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G155XB131FL)
Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G155XB131FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Minor Components

Myakka

Percent of map unit: 5 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, talf, dip

Custom Soil Resource Report

Down-slope shape: Linear
Across-slope shape: Linear, concave
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Tavares

Percent of map unit: 4 percent
Landform: Flatwoods on marine terraces, knolls on marine terraces, rises on marine terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Interfluve, side slope, tread, rise
Down-slope shape: Convex, linear
Across-slope shape: Linear, convex
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL), Longleaf Pine-Turkey Oak Hills (R155XY002FL), Sand Pine Scrub (R155XY001FL)
Hydric soil rating: No

Millhopper

Percent of map unit: 4 percent
Landform: Flatwoods on marine terraces, rises on marine terraces
Landform position (two-dimensional): Summit
Landform position (three-dimensional): Tread, talf, rise
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL)
Hydric soil rating: No

Malabar

Percent of map unit: 2 percent
Landform: — error in exists on —
Landform position (three-dimensional): Tread, talf, dip
Down-slope shape: Linear, concave
Across-slope shape: Linear, concave
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

58—Udorthents, excavated

Map Unit Setting

National map unit symbol: 1jtw6
Elevation: 50 to 250 feet
Mean annual precipitation: 46 to 54 inches

Custom Soil Resource Report

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, excavated, and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Excavated

Setting

Landform: Marine terraces

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Altered marine deposits

Properties and qualities

Slope: 1 to 4 percent

Depth to restrictive feature: More than 80 inches

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Forage suitability group: Forage suitability group not assigned (G154XB999FL)

Other vegetative classification: Forage suitability group not assigned
(G154XB999FL)

Hydric soil rating: No

59—Arents-Urban land complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1jtw7

Elevation: 50 to 210 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Arents and similar soils: 55 percent

Urban land: 45 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arents

Setting

Landform: Rises on marine terraces

Landform position (three-dimensional): Rise

Custom Soil Resource Report

Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Altered marine deposits

Typical profile

C - 0 to 80 inches: sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Forage suitability group: Forage suitability group not assigned (G154XB999FL)
Other vegetative classification: Forage suitability group not assigned (G154XB999FL)
Hydric soil rating: No

Description of Urban Land

Setting

Landform: Marine terraces
Landform position (three-dimensional): Interfluvial
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified
Forage suitability group: Forage suitability group not assigned (G154XB999FL)
Other vegetative classification: Forage suitability group not assigned (G154XB999FL)
Hydric soil rating: Unranked

61—Arents, organic substratum-Urban land complex

Map Unit Setting

National map unit symbol: 1jtw9
Elevation: 50 to 180 feet

Custom Soil Resource Report

Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 70 to 77 degrees F
Frost-free period: 350 to 365 days
Farmland classification: Not prime farmland

Map Unit Composition

Arents, organic substratum, and similar soils: 51 percent
Urban land: 49 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arents, Organic Substratum

Setting

Landform: Flats on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Sandy dredge spoils over organic material over sandy marine deposits

Typical profile

C - 0 to 30 inches: sand
Oa - 30 to 65 inches: muck
Cg - 65 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 24 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very high (about 13.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Forage suitability group: Forage suitability group not assigned (G154XB999FL)
Other vegetative classification: Forage suitability group not assigned (G154XB999FL)
Hydric soil rating: No

Description of Urban Land

Setting

Landform: Marine terraces
Landform position (three-dimensional): Interfluvial, talf
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: No parent material

Interpretive groups

Land capability classification (irrigated): None specified

Forage suitability group: Forage suitability group not assigned (G154XB999FL)

Other vegetative classification: Forage suitability group not assigned (G154XB999FL)

Hydric soil rating: Unranked

70—Duette fine sand

Map Unit Setting

National map unit symbol: 1jtwj

Elevation: 20 to 260 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Duette and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Duette

Setting

Landform: Rises on marine terraces

Landform position (three-dimensional): Interfluve, rise

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 7 inches: fine sand

E - 7 to 59 inches: fine sand

Bh - 59 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands

Forage suitability group: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL)

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Minor Components

Pomello

Percent of map unit: 5 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (three-dimensional): Interfluvium, rise

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Electra

Percent of map unit: 5 percent

Landform: Ridges on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluvium, rise

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands (G154XB131FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Archbold

Percent of map unit: 5 percent

Landform: Ridges on marine terraces, knolls on marine terraces

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

74—Narcoossee sand

Map Unit Setting

National map unit symbol: 1jtwm

Elevation: 10 to 180 feet

Mean annual precipitation: 46 to 54 inches

Mean annual air temperature: 70 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Narcoossee and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Narcoossee

Setting

Landform: Rises on marine terraces

Landform position (three-dimensional): Interfluvium, rise

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy marine deposits

Typical profile

A - 0 to 5 inches: sand

E - 5 to 17 inches: fine sand

Bh - 17 to 22 inches: sand

C - 22 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: About 24 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Custom Soil Resource Report

Forage suitability group: Sandy soils on rises and knolls of mesic uplands
(G154XB131FL)

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands
(G154XB131FL), Upland Hardwood Hammock (R154XY008FL)

Hydric soil rating: No

Minor Components

Adamsville

Percent of map unit: 3 percent

Landform: Ridges on marine terraces, rises on marine terraces

Landform position (three-dimensional): Interfluvium, talus

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands,
F155XY150FL - Sandy Flatwoods and Hammocks on Rises and Knolls of
Mesic Uplands

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands
(G154XB131FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: No

Myakka

Percent of map unit: 3 percent

Landform: Flatwoods on marine terraces

Landform position (three-dimensional): Talus

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods,
F155XY120FL - Sandy Flatwoods and Hammocks

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands
(G154XB141FL), South Florida Flatwoods (R154XY003FL)

Hydric soil rating: No

Pomello

Percent of map unit: 2 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (three-dimensional): Interfluvium, rise

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods, F155XY150FL -
Sandy Flatwoods and Hammocks on Rises and Knolls of Mesic Uplands

Other vegetative classification: Sandy soils on rises and knolls of mesic uplands
(G154XB131FL), Sand Pine Scrub (R154XY001FL)

Hydric soil rating: No

Tavares

Percent of map unit: 2 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands,
R155XY180FL - Sandy Scrub on Rises, Ridges, and Knolls of Mesic Uplands

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic
uplands (G154XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Hydric soil rating: No

76—Millhopper fine sand, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2v177

Elevation: 60 to 230 feet

Mean annual precipitation: 44 to 56 inches

Mean annual air temperature: 68 to 75 degrees F

Frost-free period: 300 to 365 days

Farmland classification: Farmland of unique importance

Map Unit Composition

Millhopper and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Millhopper

Setting

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Sandy and loamy marine deposits

Typical profile

A - 0 to 7 inches: fine sand

E - 7 to 59 inches: fine sand

Bt - 59 to 64 inches: sandy clay loam

Btg - 64 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)

Depth to water table: About 42 to 60 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: A

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Custom Soil Resource Report

Forage suitability group: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL)

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Upland Hardwood Hammock (R154XY008FL)

Hydric soil rating: No

Minor Components

Kendrick

Percent of map unit: 8 percent

Landform: Ridges on marine terraces

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy over loamy soils on knolls and ridges of mesic uplands (G154XB211FL)

Hydric soil rating: No

Tavares

Percent of map unit: 5 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G154XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Hydric soil rating: No

Nobleton

Percent of map unit: 2 percent

Landform: Rises on marine terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy over loamy soils on rises and knolls of mesic uplands (G154XB231FL)

Hydric soil rating: Yes

77—Satellite sand, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2svzc

Elevation: 0 to 70 feet

Mean annual precipitation: 44 to 56 inches

Custom Soil Resource Report

Mean annual air temperature: 68 to 77 degrees F

Frost-free period: 350 to 365 days

Farmland classification: Not prime farmland

Map Unit Composition

Satellite and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Satellite

Setting

Landform: Drainageways on flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf, dip

Down-slope shape: Linear

Across-slope shape: Linear, concave

Parent material: Sandy marine deposits

Typical profile

A - 0 to 6 inches: sand

C1 - 6 to 13 inches: sand

C2 - 13 to 80 inches: sand

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 to 50.02 in/hr)

Depth to water table: About 18 to 42 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: F154XA008FL - Moist Sandy Scrubby Flatwoods

Forage suitability group: Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

Other vegetative classification: Sand Pine Scrub (R155XY001FL), Sandy soils on rises and knolls of mesic uplands (G155XB131FL)

Hydric soil rating: No

Minor Components

Myakka

Percent of map unit: 6 percent

Landform: Drainageways on flatwoods on marine terraces

Landform position (three-dimensional): Tread, talf, dip

Down-slope shape: Linear

Across-slope shape: Linear, concave

Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods

Custom Soil Resource Report

Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Immokalee

Percent of map unit: 5 percent
Landform: Flatwoods on marine terraces
Landform position (three-dimensional): Talf
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), South Florida Flatwoods (R155XY003FL)
Hydric soil rating: No

Basinger

Percent of map unit: 3 percent
Landform: Drainageways on marine terraces, flats on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Concave, convex
Across-slope shape: Concave, linear
Ecological site: F154XA007FL - Moist Sandy Wet-Mesic Flatwoods
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

Pompano

Percent of map unit: 1 percent
Landform: Drainageways on flatwoods on marine terraces
Landform position (three-dimensional): Tread, dip, talf
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: F154XA015FL - Mineral Depressional Wetlands
Other vegetative classification: Sandy soils on flats of mesic or hydric lowlands (G155XB141FL), Slough (R155XY011FL)
Hydric soil rating: Yes

88—Astatula sand, 5 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2r8gy
Elevation: 20 to 190 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 68 to 75 degrees F
Frost-free period: 276 to 320 days
Farmland classification: Not prime farmland

Map Unit Composition

Astatula and similar soils: 90 percent
Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Astatula

Setting

Landform: Hills on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Interfluvium, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian or sandy marine deposits

Typical profile

A - 0 to 3 inches: sand
C - 3 to 80 inches: sand

Properties and qualities

Slope: 5 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 to 50.02 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R154XX001FL - Yellow Sands Xeric Uplands
Forage suitability group: Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)
Other vegetative classification: Sand Pine Scrub (R154XY001FL), Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)
Hydric soil rating: No

Minor Components

Candler, very deep loamy substratum

Percent of map unit: 5 percent
Landform: Knolls on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluvium
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R154XX001FL - Yellow Sands Xeric Uplands
Other vegetative classification: Longleaf Pine-Turkey Oak Hills (R154XY002FL), Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)
Hydric soil rating: No

Tavares

Percent of map unit: 5 percent
Landform: Flats on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Backslope, footslope
Landform position (three-dimensional): Interfluve
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands
Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)
Hydric soil rating: No

89—Astatula sand, 12 to 20 percent slopes

Map Unit Setting

National map unit symbol: 2r8gz
Elevation: 20 to 190 feet
Mean annual precipitation: 46 to 54 inches
Mean annual air temperature: 68 to 75 degrees F
Frost-free period: 276 to 320 days
Farmland classification: Not prime farmland

Map Unit Composition

Astatula and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Astatula

Setting

Landform: Hills on marine terraces, ridges on marine terraces
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian or sandy marine deposits

Typical profile

A - 0 to 3 inches: sand
C - 3 to 80 inches: sand

Properties and qualities

Slope: 12 to 20 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 to 50.02 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Custom Soil Resource Report

Frequency of ponding: None

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: A

Ecological site: R154XX001FL - Yellow Sands Xeric Uplands

Forage suitability group: Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)

Other vegetative classification: Sand Pine Scrub (R154XY001FL), Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)

Hydric soil rating: No

Minor Components

Tavares

Percent of map unit: 5 percent

Landform: Flats on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: F154XA004FL - Moist Sandy Pine-Hardwood Woodlands

Other vegetative classification: Sandy soils on rises, knolls, and ridges of mesic uplands (G155XB121FL), Longleaf Pine-Turkey Oak Hills (R154XY002FL)

Hydric soil rating: No

Candler, very deep loamy substratum

Percent of map unit: 5 percent

Landform: Knolls on marine terraces, ridges on marine terraces

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Interfluvium

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R154XX001FL - Yellow Sands Xeric Uplands

Other vegetative classification: Longleaf Pine-Turkey Oak Hills (R154XY002FL), Sandy soils on strongly sloping to steep side slopes of xeric uplands (G154XB113FL)

Hydric soil rating: No

99—Water

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Water

Interpretive groups

Land capability classification (irrigated): None specified

Forage suitability group: Forage suitability group not assigned (G154XB999FL)

Other vegetative classification: Forage suitability group not assigned
(G154XB999FL)

Hydric soil rating: Unranked

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