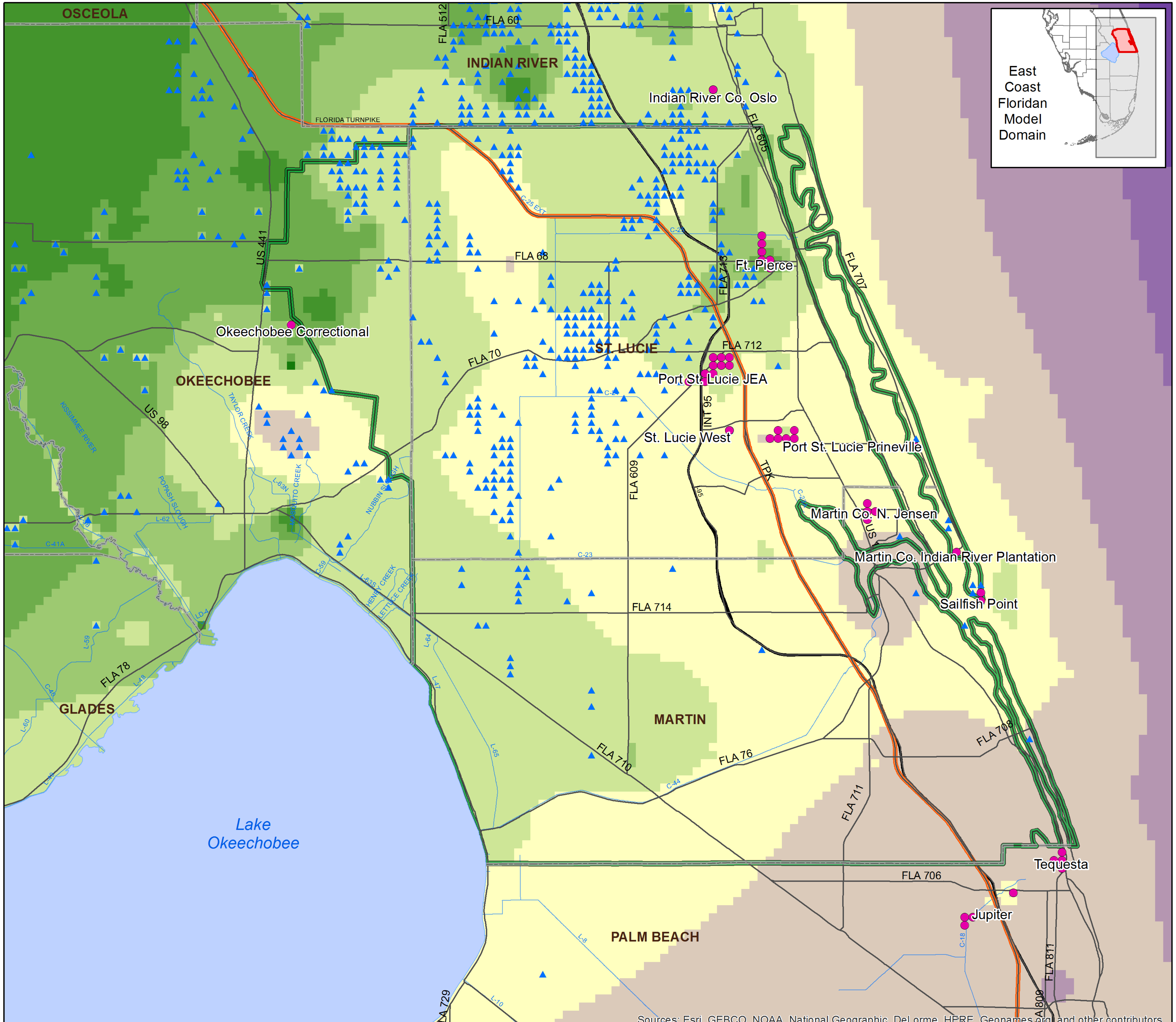
Floridan Aquifer System Modeling Results

Water Quality Map

Initial Condition

Upper Floridan Aquifer

(Layer 1)



- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the Initial Condition

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- 3,000 to 5,000
- 5,000 to 10,000
- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 1 are shown

N W E S

0 2.5 5 10 15 20 Miles

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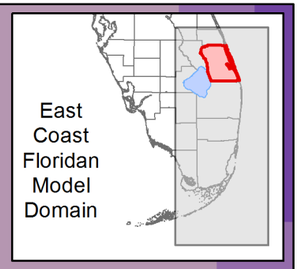
Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Water Quality Map
2013 Model Run
Upper Floridan Aquifer (Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake
Okeechobee
FLORIDA TURNPIKE
US 441
US 98
FLA 60
FLA 512
FLA 68
FLA 70
FLA 712
FLA 609
FLA 605
FLA 713
FLA 707
INT 95
TPK
FLA 714
FLA 710
FLA 76
FLA 711
FLA 709
FLA 706
FLA 811
FLA 809
FLA 78
FLA 729
C-25 EXT
C-23
C-44
C-41A
L-62
L-63N
L-59
L-64
L-47
L-65
L-8
L-10
C-18
Indian River Co. Oslo
Ft. Pierce
Okeechobee Correctional
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the end of model run (month 288)

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- 3,000 to 5,000
- 5,000 to 10,000
- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 1 are shown

N
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0 2.5 5 10 15 20 Miles

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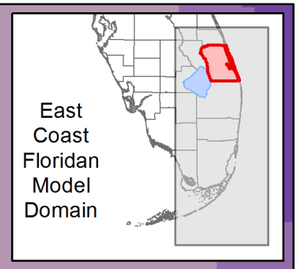
Floridan Aquifer System Modeling Results

Water Quality Map
2040 Model Run
Upper Floridan Aquifer
(Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake
Okeechobee
FLA 512
FLA 60
US 441
US 98
FLA 68
FLA 70
FLA 712
FLA 714
FLA 710
FLA 76
FLA 78
FLA 609
FLA 605
FLA 707
FLA 708
FLA 711
FLA 706
FLA 811
FLA 809
INT 95
TPK
FLORIDA TURNPIKE
Indian River Co. Oslo
St. Lucie Co. North
Ft. Pierce
Okeechobee Correctional
St. Lucie Co. Central
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Port St. Lucie Southwest
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the end of model run (month 288)

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
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- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 1 are shown

N
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0 2.5 5 10 15 20 Miles

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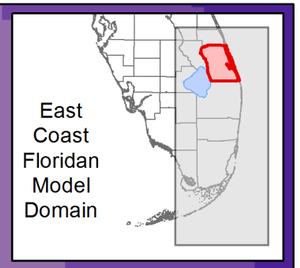
Floridan Aquifer System Modeling Results

Water Quality Map
Initial Condition
Avon Park Permeable Zone
(Layer 3)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake
Okeechobee
FLA 512
FLA 60
FLA 605
FLA 68
US 441
FLA 713
FLA 707
FLA 70
US 98
FLA 712
Port St. Lucie JEA
TPK
INT 95
St. Lucie West
FLA 609
Martin Co. N. Jensen
FLA 714
FLORIDA TURNPIKE
Martin Co. Tropical Farms
FLA 78
FLA 710
FLA 76
FLA 708
So. Martin Regional
FLA 711
FLA 706
Jupiter
FLA 729
FLA 811
FLA 809

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the Initial Condition

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- 3,000 to 5,000
- 5,000 to 10,000
- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 3 are shown

N
W E
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0 2.5 5 10 15 20 Miles

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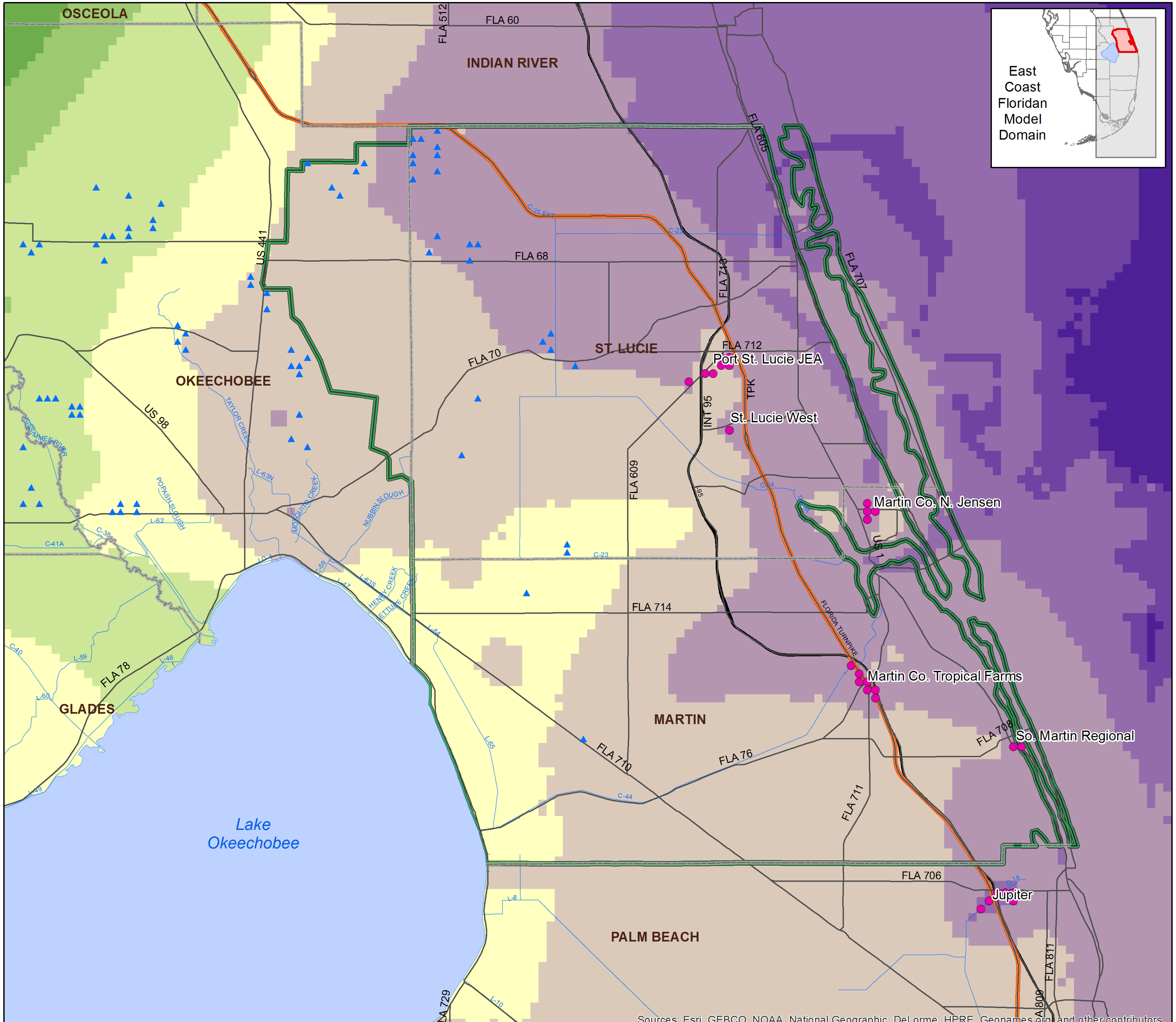

Floridan Aquifer System Modeling Results

Water Quality Map
2013 Model Run
Avon Park Permeable Zone (Layer 3)

- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the end of model run (month 288)

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- 3,000 to 5,000
- 5,000 to 10,000
- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 3 are shown

N S E W

0 2.5 5 10 15 20 Miles

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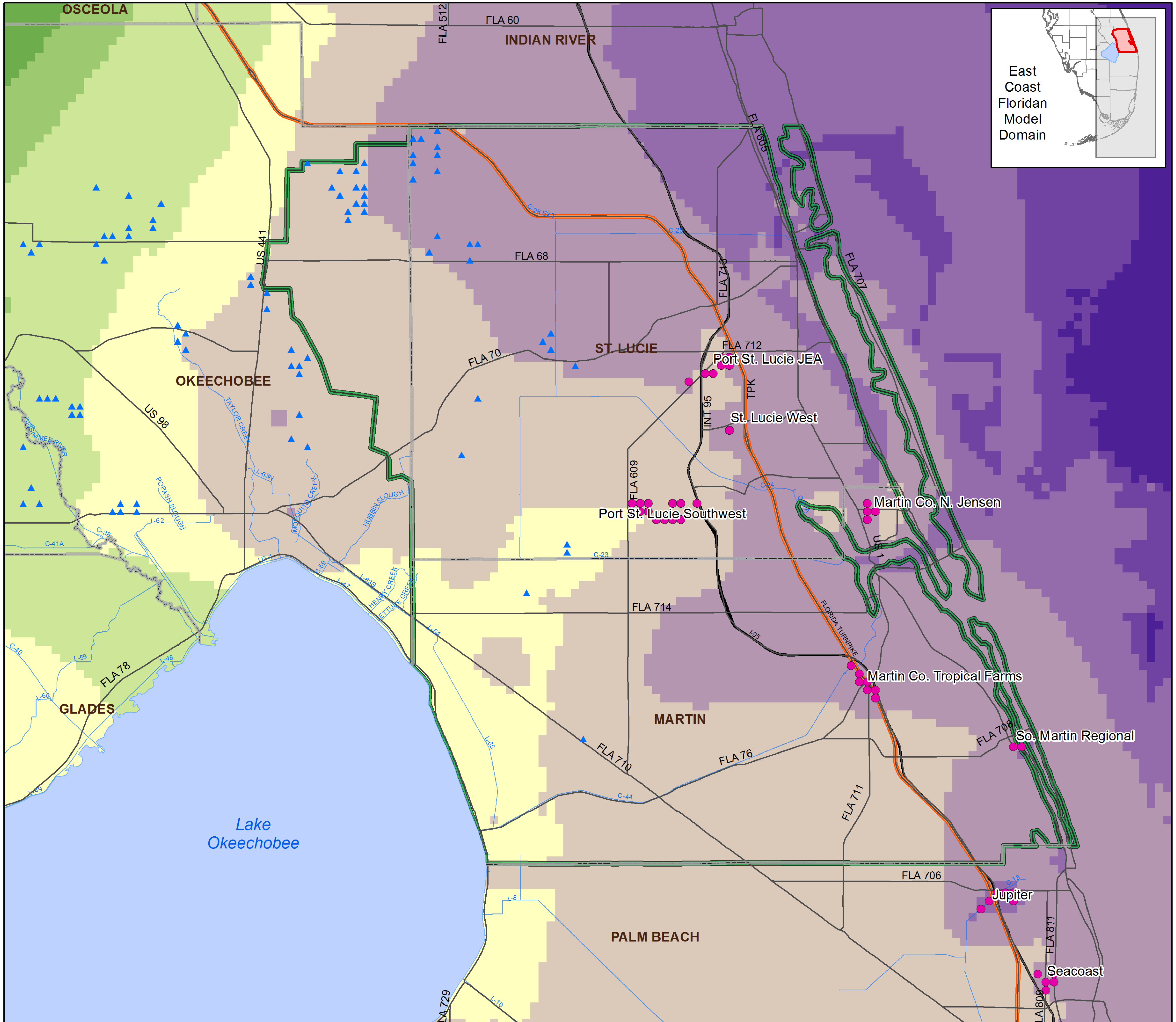

Floridan Aquifer System Modeling Results

Water Quality Map
2040 Model Run
Avon Park Permeable Zone
(Layer 3)

- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

Total Dissolved Solids (TDS) concentrations at the end of model run (month 288)

TDS (mg/l)

- < 300
- 300 to 500
- 500 to 800
- 800 to 1,000
- 1,000 to 2,000
- 2,000 to 3,000
- 3,000 to 5,000
- 5,000 to 10,000
- 10,000 to 15,000
- 15,000 to 20,000
- > 20,000

* Only wells in Layer 3 are shown

N W E S

0 2.5 5 10 15 20 Miles

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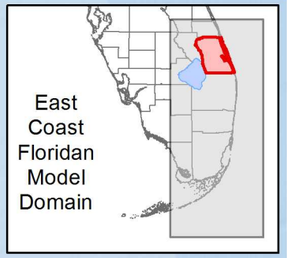
Floridan Aquifer System Modeling Results

Water Quality Difference Map
2013 Model Run
Upper Floridan Aquifer
(Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
GLADES
PALM BEACH
Indian River Co. Oslo
Okeechobee Correctional
Ft. Pierce
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter
Lake Okeechobee
Jupiter Inlet
FLA 60
FLA 512
US 441
FLA 68
FLA 70
US 98
FLA 712
TPK
INT 95
FLA 609
US 1
FLA 707
FLA 714
FLA 710
FLA 76
FLA 711
FLA 709
FLA 706
FLA 811
FLA 805
FLA 729
FLA 78
FLORIDA TURNPIKE
Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2013 model run (month 288) when compared to the Initial Condition

TDS (mg/l)

- < 0 to 100
- 100 to 250
- 250 to 500
- 500 to 1,000
- 1,000 to 3,500

* Only wells in Layer 1 are shown

N W E S

0 2.5 5 10 15 20 Miles

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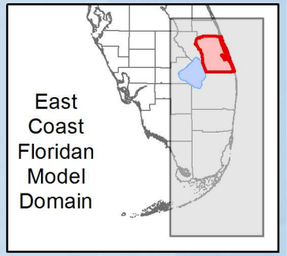
Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Water Quality Difference Map
2040 Model Run
Upper Floridan Aquifer
(Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
GLADES
MARTIN
PALM BEACH
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Lake
Okeechobee
Jupiter Inlet
Indian River Co. Oslo
St. Lucie Co. North
Ft. Pierce
Okeechobee Correctional
St. Lucie Co. Central
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Port St. Lucie Southwest
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter
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FLA 729
FLORIDA TURNPIKE
C-25 EVA
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C-41A
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C-38
C-59
C-60
C-49
C-18
L-63N
L-62
L-47
L-63S
L-64
L-59
L-48
L-65
L-8
L-10
POPASH SLOUGH
TAYLOR CREEK
MOSQUITO CREEK
NUBBIN SLOUGH
HENRY CREEK
ERTLE CREEK
14
25

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2040 model run (month 288) when compared to the Initial Condition

TDS (mg/l)

- < 0 to 100
- 100 to 250
- 250 to 500
- 500 to 1,000
- 1,000 to 3,500

* Only wells in Layer 1 are shown

N
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0 2.5 5 10 15 20 Miles

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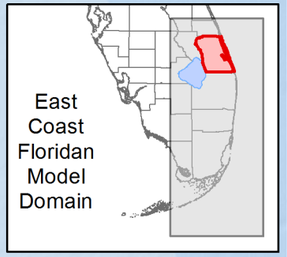
Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Water Quality Difference Map
2040 Model Run
Upper Floridan Aquifer
(Layer 1)



OSCEOLA
INDIAN RIVER
OKEECHOBEE
ST. LUCIE
MARTIN
PALM BEACH
GLADES
Lake
Okeechobee
Indian River Co. Oslo
St. Lucie Co. North
Ft. Pierce
Okeechobee Correctional
St. Lucie Co. Central
Port St. Lucie JEA
St. Lucie West
Port St. Lucie Prineville
Port St. Lucie Southwest
Martin Co. N. Jensen
Martin Co. Indian River Plantation
Sailfish Point
Tequesta
Jupiter
Jupiter Inlet
FLA 60
FLA 512
FLA 68
FLA 70
FLA 712
FLA 714
FLA 76
FLA 706
FLA 605
FLA 707
FLA 709
FLA 710
FLA 711
FLA 811
FLA 809
FLA 729
FLA 78
US 441
US 98
US 1
TPK
INT 95
FLA 609
FLORIDA TURNPIKE
Indian River
14
25

Public Water Supply Wells *

Agricultural and Other Wells *

UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2040 model run (month 288) when compared to the 2013 model run

TDS (mg/l)

- < 0 to 100
- 100 to 250
- 250 to 500
- 500 to 1,000
- 1,000 to 3,500

UPDATED DRAFT COPY

* Only wells in Layer 1 are shown

N
W E
S

0 2.5 5 10 15 20 Miles

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

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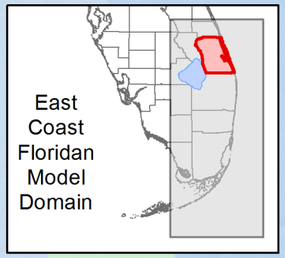
Prepared By: Resource Evaluation

Floridan Aquifer System Modeling Results

Water Quality Difference Map
2013 Model Run
Avon Park Permeable Zone
(Layer 3)



- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2013 model run (month 288) when compared to the Initial Condition

TDS (mg/l)

- < 0 to 500
- 500 to 1,000
- 1,000 to 1,500
- 1,500 to 2,000
- 2,000 to 2,500
- 2,500 to 3,000
- 3,000 to 3,500

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* Only wells in Layer 3 are shown

N W E S

0 2.5 5 10 15 20 Miles

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

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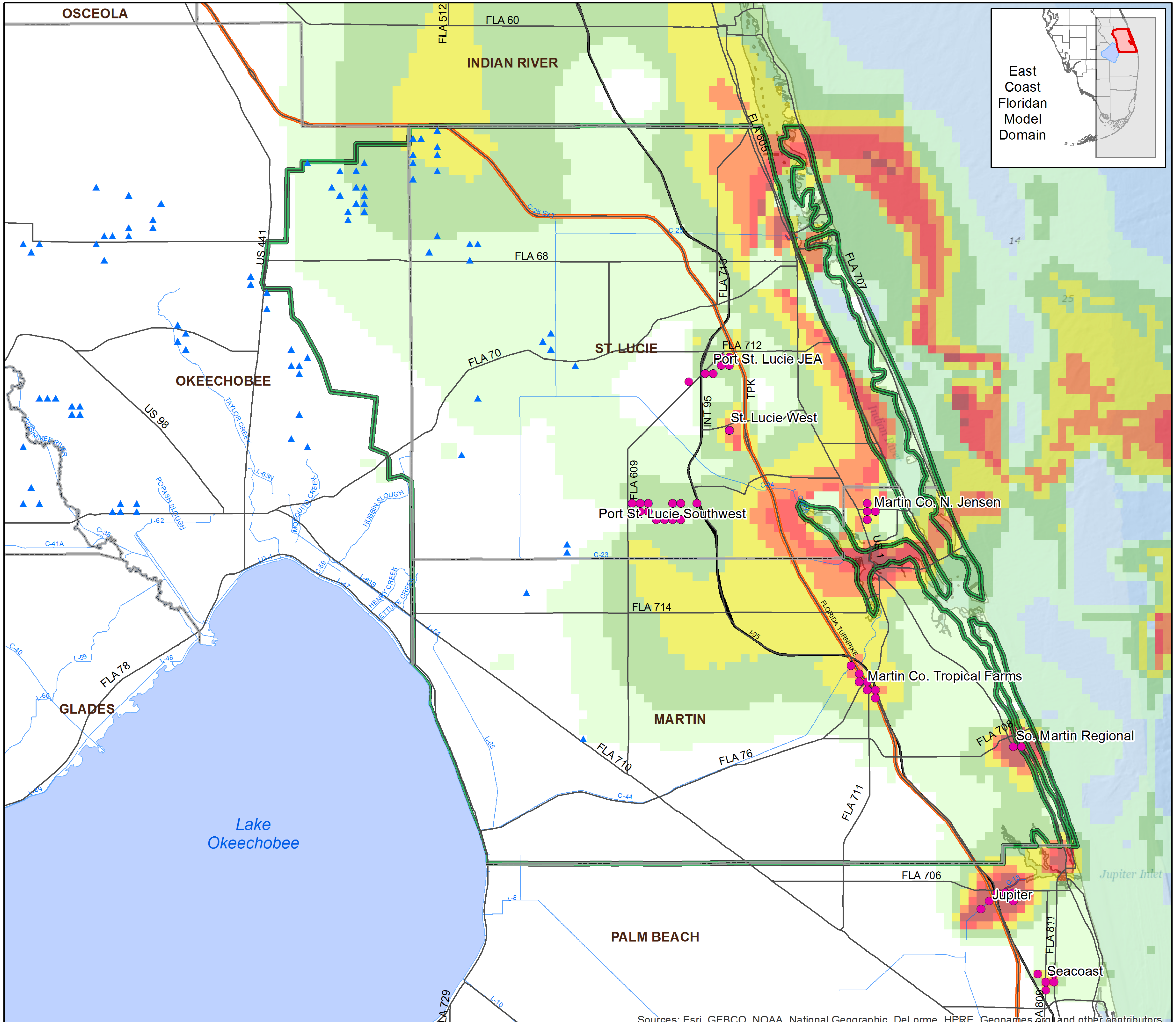

Floridan Aquifer System Modeling Results

Water Quality Difference Map
2040 Model Run
Avon Park Permeable Zone (Layer 3)

- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2040 model run (month 288) when compared to the Initial Condition

TDS (mg/l)

- < 0 to 500
- 500 to 1,000
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- 1,500 to 2,000
- 2,000 to 2,500
- 2,500 to 3,000
- 3,000 to 3,500

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* Only wells in Layer 3 are shown

N S W E

0 2.5 5 10 15 20 Miles

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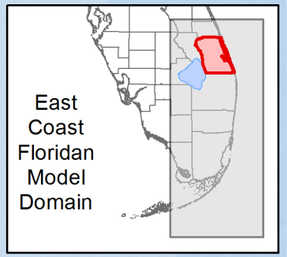
Floridan Aquifer System Modeling Results

Water Quality Difference Map
2040 Model Run
Avon Park Permeable Zone
(Layer 3)



- Public Water Supply Wells *
- Agricultural and Other Wells *
- UEC Planning Area

The change in Total Dissolved Solids (TDS) at the end of the 2040 model run (month 288) when compared to the 2013 model run

TDS (mg/l)

- < 0 to 500
- 500 to 1,000
- 1,000 to 1,500
- 1,500 to 2,000
- 2,000 to 2,500
- 2,500 to 3,000
- 3,000 to 3,500

DRAFT COPY

* Only wells in Layer 3 are shown

N W E S

0 2.5 5 10 15 20 Miles

Sources: Esri, GEBCO, NOAA, National Geographic, DeLorme, HERE, Geonames.org, and other contributors

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