

CONTAMINATION SCREENING EVALUATION REPORT

Florida's Turnpike (SR 91) and Interstate I-95 Direct Connection Interchange (MP 125)
Along SR 91 and I-95
Approximately 2 Miles North and South of SE Bridge Road (CR 708)
Martin County, Florida

Financial Management Number: 446975-1

ETDM Number: 14444

Prepared By: Florida's Turnpike Enterprise
Environmental Management Office
Turkey Lake Headquarters | Mile Post 263, Bldg. #5315
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Ocoee, Florida 34761

June 17, 2025

The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being, or have been, carried out by the Florida Department of Transportation (FDOT) pursuant to 23 U.S.C. §327 and a Memorandum of Understanding dated May 26, 2022, and executed by Federal Highway Administration and FDOT.

EXECUTIVE SUMMARY

Florida's Turnpike Enterprise (FTE) is conducting a Project Development and Environment (PD&E) study to evaluate the potential for a new system-to-system direct connection interchange between Florida's Turnpike (SR 91) and Interstate 95 (I-95) at SE Bridge Road (CR 708) in Martin County, Florida. The study area begins approximately two miles south of SE Bridge Road at SR 91 Milepost (MP) 123.44 and extends approximately two miles north of SE Bridge Road to SR 91 MP 127.53. The proposed interchange concept aims to improve traffic operations for the north-south through trips in the project area and to enhance traffic conditions on existing local roadways that currently serve as connections between SR 91 and I-95. A Type 2 Categorical Exclusion is being prepared as part of this PD&E study, which will satisfy all applicable federal and state environmental requirements, including the National Environmental Policy Act (NEPA), to qualify the project for federal-aid funding in future phases such as design, right-of-way (R/W) acquisition, and construction.

This Contamination Screening Evaluation Report (CSER) was prepared to identify potential contamination issues in the project vicinity and rate the risk of impact to existing/proposed project R/W or construction. Seven potential contamination sites were identified within PD&E Chapter 20 search criteria on regulatory databases including two vehicle crash fuel spill incidents along I-95 rated as medium risks. Additionally, former and existing groves, crops, and nurseries were identified at multiple proposed R/W locations and rated medium risk. Level II contamination impact to construction assessment may be warranted depending on final design.

Category II non-friable asbestos-containing white Class 5 finish was identified in 2016 at Bridge 890119 (Bridge Road over SR 91), which may warrant abatement depending on final design of renovations for widening.

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1.0 Project Summary

1.1 Introduction

The purpose of this report is to present the findings of a contamination screening evaluation for a new system-to-system direct connection interchange between Florida's Turnpike (SR 91) and Interstate 95 (I-95) at SE Bridge Road (CR 708) in Martin County, Florida. This report identifies known or potential contamination issues attributed to land uses in the project vicinity and rates risk of impact to existing and proposed project right of way (R/W) or construction.

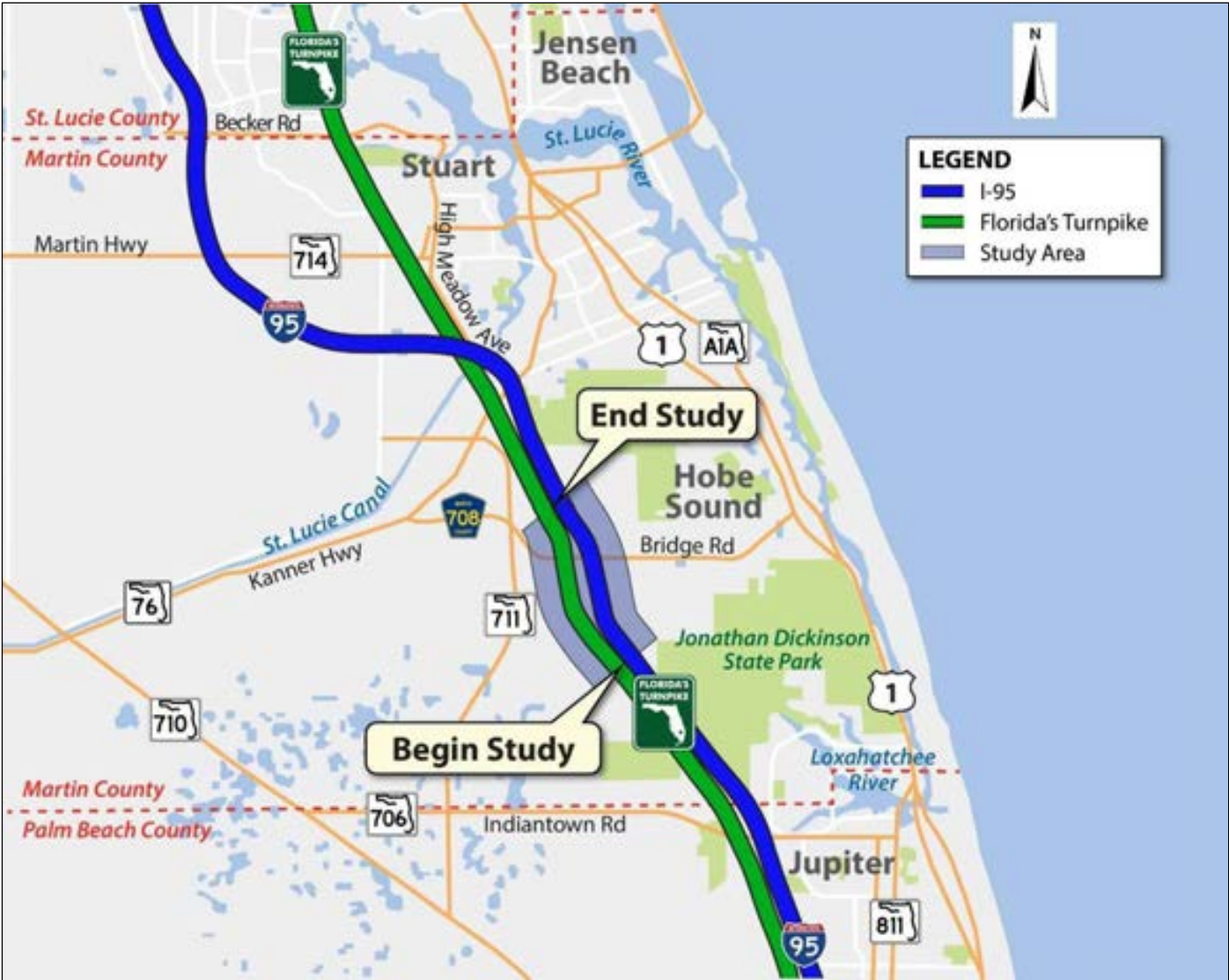
A Type 2 Categorical Exclusion is being prepared as part of the PD&E study, which will satisfy all applicable requirements, including the National Environmental Policy Act (NEPA), to qualify for federal-aid funding of subsequent development phases (design, R/W acquisition, and construction).

1.2 Project Description

The project involves the evaluation of a proposed system-to-system direct connection interchange to/from SR 91 and I-95 near SE Bridge Road in Martin County, Florida. The study area begins approximately two miles south of SE Bridge Road at SR 91 Milepost (MP) 123.44 and extends approximately two miles north of SE Bridge Road to SR 91 MP 127.53. A map of the project limits is shown in Figure 1-1.

The existing limited-access R/W along SR 91 is generally 300 feet wide. SR 91 is classified as a Rural Principal Arterial Expressway. The existing typical section consists of a four-lane divided facility with 12-foot travel lanes. As part of the mainline widening, the proposed typical section for SR 91 will include an eight-lane divided facility with 12-foot travel lanes. The posted speed limit along the project corridor is 70 miles per hour. A Florida Gas Transmission (FGT) easement runs along the east side of SR 91 for the entire project limits.

Figure 1-1: Project Location Map



1.3 Preferred Alternative

The preferred alternative for the SR 91 and I-95 direct connection interchange study includes the construction of four system-to-system ramps to accommodate all directional movements between SR 91 and I-95 near SE Bridge Road in Martin County. South of SE Bridge Road, the ramps will serve northbound I-95 to northbound SR 91 and southbound SR 91 to southbound I-95 movements. North of SE Bridge Road, ramps will accommodate northbound SR 91 to northbound I-95 and southbound I-95 to southbound SR 91 movements. Additionally, SR 91 will be widened from four to eight lanes, with all widening occurring to the west side to avoid impacts to existing FGT infrastructure located along the east side of SR 91. A two-lane collector-distributor (CD) road is proposed between the northbound SR 91 to northbound I-95 and northbound I-95 to northbound SR 91 ramps to facilitate safe and efficient weaving operations. No geometric changes are proposed for I-95, as all ramp tie-ins will occur at the outer edges of the existing facility. While the SE Bridge Road typical section will remain unchanged, the existing bridge will be reconstructed to accommodate SR 91 widening and to span the southbound SR 91 to southbound I-95 ramp. Two tolling points are proposed—one on the ramp from the CD road to northbound I-95 and the other on the ramp from southbound I-95 to southbound SR 91. All ramps will be single-lane facilities, with a 15-foot-wide lane and a design speed of 50 miles per hour.

Figure 1-2 shows the proposed interchange alternative.

Figure 1-2: Proposed Turnpike at I-95 Direct Connection Interchange Alternative



2.0 Contamination Screen Methodology

Contamination screening evaluation for the proposed SR 91 and I-95 direct connection interchange was conducted in accordance with PD&E Part 2, Chapter 20 Contamination to identify potential contamination issues within the proposed project limits attributed to current or past land uses at the vicinity of the project. Evaluation methodology consisted of the following tasks:

2.1 Desktop Review

A previous CSER identified with coverage of the project area was reviewed, 423374-1 PD&E Florida's Turnpike SR 91 MP 117-153.7 dated February 2021. Excerpts are contained in **Appendix A**. Groves/row crops adjoining west of SR 91 south of Bridge Road were designated potential contamination Site #105 and rated a low risk. Other potential contamination sites identified in the 423374-1 CSER are not located in the current project area of interest, thus they are not discussed further herein.

Historical aerial photographs were reviewed to identify sources of potential contamination attributed to land use activities. Historical aerial photograph sources included the FDOT Aerial Photo Look-Up System <https://fdotwp1.dot.state.fl.us/AerialPhotoLookUpSystem/>, University of Florida Digital Collections <https://ufdc.ufl.edu/collections/aerials>, 2025 Cultural Resource Assessment Survey (CRAS) for 446975-1, and the 2021 CSER for 423374-1. Aerial photographs of the project area prior to 1950 were not identified. Select aerial photographs are contained in **Appendix B**. Potential contamination Site #105A groves/crops/nursery was designated to discern areas that were not denoted as Site #105 in the 423374-1 CSER. The potential contamination site locations are shown on **Figure 3-1**.

Hydrogeologic information for the project area was reviewed using the FDOT EST, FDEP Map Direct <https://ca.dep.state.fl.us/mapdirect/?focus=standard>, historic United States Geological Survey (USGS) maps, and Geotechnical Technical Memorandum dated June 2025 for FPID 446975-1. Select hydrogeologic information is contained in **Appendix C**.

The FDOT Efficient Transportation Decision Making (ETDM) Environmental Screening Tool (EST), the FDEP Map Direct <https://ca.dep.state.fl.us/mapdirect/?focus=standard>, and FDEP Contamination Locator Map <https://prodenv.dep.state.fl.us/DepClnup> were reviewed to identify regulated facilities of potential contamination concern located in the project area of interest. The EST GIS Analysis Report for Contamination is contained in **Appendix D**. Potential contamination Site #1 to Site #5 were identified within a 500-foot buffer surrounding the project footprint. The potential contamination site locations are shown on **Figure 3-1**. No CERCLA, NPL Superfund, or landfills were identified within a ½ mile of the project R/W.

FTE's Roadway Spill Response Field Report ArcGIS Map for vehicle crash fuel spill incidents reported since 2020 was reviewed. Two incidents along SR 91 were documented within the project area of interest and designated as potential contamination Site #6 and Site #7. The potential contamination site locations are shown on **Figure 3-1**.

Regulatory file documents for the identified potential contamination sites were reviewed at the Florida Department of Environmental Protection (FDEP) Information Portal Nexus website <https://prodenv.dep.state.fl.us/DepNexus/public/searchPortal> and the EPA's Enforcement and Compliance History Online (ECHO) website <https://echo.epa.gov/facilities/facility-search>. Information is summarized on **Table 3-1**.

Contamination risk rating (low, medium, or high) for each potential contamination site identified within PD&E Chapter 20 search criteria is summarized on **Table 3-1**.

2.2 Project Reconnaissance

Project reconnaissance field review was performed to verify desktop information and to identify other potential contamination sources in the project area of interest on June 5, 2025. Field reconnaissance photographs and Google Earth Pro 2025 aerial views of the two proposed crossovers are contained in **Appendix E**.

At the time of the field reconnaissance, proposed R/W west of SR 91 south of Bridge Road was a sugar cane field (Site #105). The proposed R/W west of SR 91 north of Bridge Road was wooded. Mr. Landscape Wholesale Nursery (portion of Site #105A), pasture, wooded area, and a portion of a stormwater pond were at the proposed crossover south of Bridge Road. Access to the proposed crossover south of Bridge Road was limited to SR 91 R/W and I-95 R/W. The proposed emergency access road at the east side of SR 91 was wooded and the landscape nursery (Site 105A). Pasture with grazing livestock apparently associated with Hobe Sound Farmers Market was at the proposed crossover north of Bridge Road.

2.3 Interviews

Attempts to contact the owner of Mr. Landscape Wholesale (adjacent east of SR 91 south of Bridge Road) for nursery access at the proposed crossover and nursery maintenance information were unsuccessful at the time of site reconnaissance and by telephone.

2.4 Structures Asbestos Survey Review

Previous asbestos and metal-based coating surveys identified for bridges within the project footprint were reviewed, which include:

- Bridge 890082, SR 91 over Phipp Canal. A November 2016 Asbestos Survey, Lead-Based Paint Survey, Limited TCLP Sampling, and Paint Screening Survey indicates asbestos-

containing materials were not identified. Metals at non-hazardous concentrations were measured in a paint chip sample.

- Bridge 890119, Bridge Road (CR708) over SR 91. A November 2016 Asbestos Survey, Lead-Based Paint Survey, Limited TCLP Sampling, and Paint Screening Survey indicates Category II non-friable asbestos-containing white Class 5 finish was identified on the end bent, beam span, parapet wall, column, and intermediate cap. Metals at non-hazardous concentrations were measured in a paint chip sample.

3.0 Contamination Screen Evaluation

3.1 Land Uses

The CRAS for 446975-1 includes mid-1800s General Land Office historic plat maps and surveyor notes indicating the project area mainly as cypress swamp and third-rate pine. The CRAS indicates a 1940 aerial photograph shows the area was undeveloped flatwoods and grassland with scattered wetland ponds, sloughs, and a small tributary of the St. Lucie River near the northern end of the project area. The USGS 1948 Gomez Florida topographic map indicates the project area was undeveloped and relatively flat with clear land, swampy areas, and ponds. Aerial photographs show Bridge Road was present in 1950. By 1966, SR 91 crossed over Bridge Road and the adjoining area included undeveloped land with numerous ponds, drainage canals, pastureland, citrus groves or crop fields (Site #105 / Site #105A), and a residence. Based on historical aerials, existing and fallow grove/crop areas were more extensive than designated as Site #105 in the 2021 CSER which are noted herein as potential contamination Site #105A. Interstate I-95 with drainage ponds and an interchange at Bridge Road was constructed adjacent east of SR 91 in the 1980s.

The area between SR 91 and I-95 south of Bridge Road was improved pasture by the 1960s. An existing residence with shed/barn buildings and pond were present by the 1970s-1980s. Kanner Organics (Site #5) registered as a yard trash transfer and processing facility in 2018 and closed by 2023. Mr. Landscape Wholesale (component of Site #105A) has adjoined east of SR 91 since 2018. South Florida Grassing Inc. adjoins west of I-95. North of Bridge Road between SR 91 and I-95, Hobe Sound Farmers Market, areas of pasture, and plant nurseries (components of Site #105A) have operated since 2020.

3.2 Hydrogeologic Features

The USGS Gomez Florida topographic map indicates the project area is relatively flat with numerous ponds and low-lying areas, which indicates the groundwater is shallow and flow

direction may vary. A Geotechnical Technical Memorandum dated June 2025 for FPID 446975-1 indicates sandy soils from ground surface to depth of 30 to 80 feet. The seasonal high groundwater table is reported to range from above natural grade to a depth of 2 feet below predevelopment natural grade. The Florida STATEMAP geology indicates at the surface of the project area are Pleistocene age Anastasia Formation which may include limestone, coquina, and sand, and Plio-Pleistocene age shelly sediments which may include sand, clayey sand, sandy clay, and limestones. The ArcGIS Sinkhole Risk Map indicates cover is 30 - 200 feet thick and consists of incohesive and permeable sand, sinkholes are few, shallow, of small diameter, and develop gradually. The FGS Favorable Geology for Sinkhole Formation indicates the project area is Least Favorable.

3.3 Evaluation of Potential Contamination Impacts

Seven potential contamination sites (Site #1 to Site #7) were identified on regulatory databases within PD&E Chapter 20 search criteria. Groves/row crops adjoining west of SR 91 south of Bridge Road were designated potential contamination Site #105 in the 2021 CSER for FPID 423374-1. Site #4 identified during the regulatory database search is a portion of Site #105. Additional areas of former and existing groves, crops, and nurseries were identified during the desktop review and project reconnaissance at proposed R/W locations and designated Site #105A. The potential contamination site locations are shown on **Figure 3-1**. Risk rating evaluation is provided on **Table 3-1**.

Figure 3-1: Potential Contamination Sites Diagram

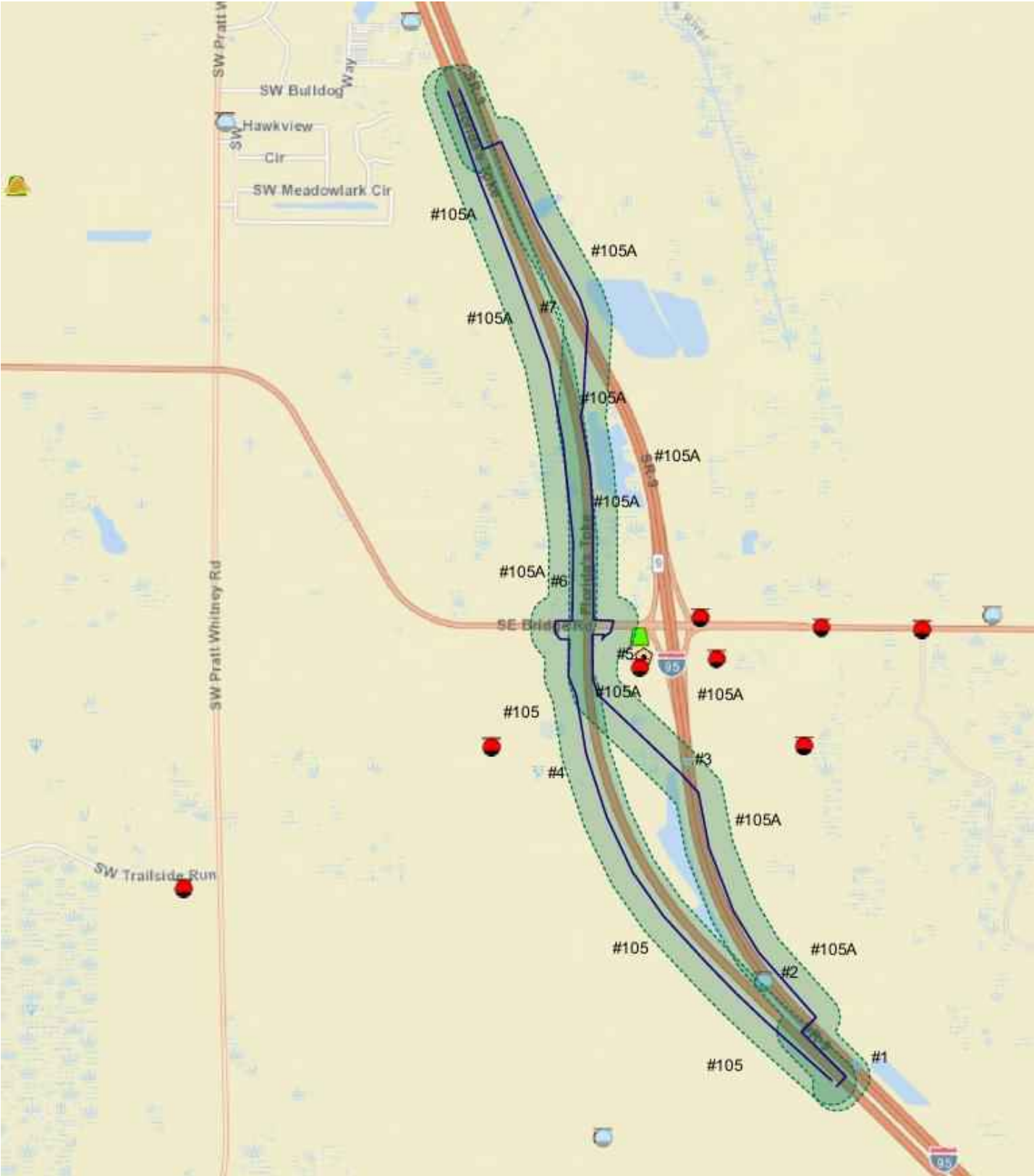


Table 3-1: Potential Contamination Sites Risk Rating Summary

Potential Contamination Site	Location / Current Regulatory Database & ID#	Risk Rating / Regulatory Status
#1, Bunnell Cypress Company, Inc Accident	I-95 R/W MM 94 ERIC_11360	Rated medium risk for potential petroleum contamination along I-95 R/W. 1/10/96 FDEP letter indicates a 1994 soil and water assessment report for the vehicle crash fuel spill was reviewed and additional assessment was requested. A Memo to File indicates efforts to contact the owner were unsuccessful and groundwater impact had not been assessed. 6/25/94 Bunnell Cypress Company Inc. Soil and Surface Water Assessment report indicates 100 gallons of diesel fuel spilled in the I-95 median during a vehicle crash incident on 5/23/94. Approximately 50 cubic yards of impacted soil and 2,200 gallons of impacted water pumped from the excavation were removed and disposed. No further assessment was recommended.
#2, Casa Blanca Express of Palm Beach	I-95 R/W SB MM 94.5 STCM, PCM, SARS 9807334 OER 04-21-0181	Rated medium risk for potential petroleum contamination along I-95 R/W. 5/24/05 FDEP Referral Memorandum indicates diesel fuel and motor oil spilled during a vehicle crash incident on 9/16/04 which had not been abated.
#3, Nichols Sanitation Hydraulic Oil Release	I-95 R/W SB MM 100 ERIC_11448	Rated low risk. Location near proposed southern crossover. 6/12/97 FDEP issued no further assessment required status based on review of a soil Initial Remedial Action Report for a 6/11/96 vehicle crash hydraulic oil spill incident.
#4, Hobe Grove DRI	At proposed R/W west of SR 91 south of Bridge Road	Rated medium risk for potential pesticide, herbicide, metals contamination. Site #4 is a portion of Site #105. 9/12/11 FDEP Memorandum comments regarding a DRI/ADA Sufficiency Response indicate an environmental site assessment should be done due to history of agricultural use.
#5, Kanner Organics	Adjoined west of I-95 south of Bridge Rd	Rated low risk. Yard trash processing was not evident reviewing 2018 to 2023 aerial photographs.

	SWF 105854	5/24/23 FDEP Inspection Checklist indicates the facility was not in operation, considered closed, and no further action is required. 11/15/18 FDEP acknowledged registration for operation of yard trash transfer station and processing.
#6, BB&J Express	SR 91 R/W SB MP 125.6 SWO 2024-5834	Rated low risk. 7/13/24 vehicle crash/fire incident spilled 10 gallons of diesel fuel on pavement which was cleaned up using absorbents by the rapid incident scene clearance contractor.
#7, FAF Inc	SR 91 R/W NB MP 126.5 SWO 2023-6293 OER 2023-2I-70512	Rated low risk. 3/11/24 FDEP Completion of Emergency Response letter indicates an Emergency Source Removal Report documenting assessment and removal of soil impacted by an 8/3/23 vehicle crash fuel spill met criteria of rule 62-780.500 Florida Administrative Code.
#105/105A, Groves, Crops, Nursery	Adjoining east, west, and within proposed R/W	Rated medium for potential pesticide, herbicide, metals contamination where proposed new R/W intersects existing or fallow citrus groves, crop fields, or nursery including west side of SR 91, north crossover, south crossover, emergency access roads east and west of SR 91, and east side of I-95. February 2021 CSER for 423374-1 PD&E Florida's Turnpike SR 91 MP 117-153.7 identified groves/row crops adjoining west of SR 91 south of Bridge Road as potential contamination Site #105 and rated a low risk since no new R/W acquisition was planned in the area. Based on historical aerials, existing and fallow grove/crop areas were more extensive than designated as Site #105 in the 2021 CSER which are noted herein as Site #105A.

Table 3-1 Regulatory Database Acronyms

STCM – Storage Tank Compliance Monitoring, FDEP

PCM – Petroleum Contamination Monitoring, FDEP

CLM – Contamination Locator Map, FDEP

SWF – Solid Waste Facility, FDEP

OER – Office of Emergency Response, FDEP

SWO – State Watch Office, Florida State Emergency Operations Center

SARS - Super Act Risk Source, FDOH

RCRA – Resource Conservation and Recovery Act, EPA

4.0 Conclusions

Level II contamination impact to construction assessment may be warranted depending on final design to further evaluate areas of potential contamination rated medium risk, which include:

- Site #1 Bunnell Cypress Company, Inc. - 1994 vehicle crash diesel fuel spill at I-95 R/W. Potential petroleum contamination along I-95 R/W.
- Site #2 Casa Blanca Express of Palm Beach - 2004 vehicle crash diesel fuel and motor oil spill at I-95 R/W. Potential petroleum contamination along I-95 R/W.
- Site #105/#105A Grove, Crops, Nursery - includes Site #4 Hobe Grove DRI, Mr. Landscape Wholesale, and other areas where proposed new R/W intersects existing or fallow citrus groves, crop fields, or nurseries. Potential pesticide, herbicide, and metals contamination at portions of proposed R/W along west side of SR 91, north crossover, south crossover, emergency access roads east and west of SR 91, and east side of I-95.

Category II non-friable asbestos-containing white Class 5 finish was identified in 2016 at Bridge 890119 (Bridge Road over SR 91). Asbestos abatement may be warranted depending on final design proposed renovations for widening.

Appendix A

Previous Contamination Screening Report Excerpts

Final Level I

Contamination Screening Evaluation Report

Florida's Turnpike (SR 91) PD&E Study
From North of Jupiter/Indiantown Road
To Fort Pierce/Okeechobee Road (SR 70)
MP 117-153.7

Palm Beach, Martin, and St. Lucie Counties, Florida

FPID No.: 423374-1-22-01

ETDM Project No.: 14295

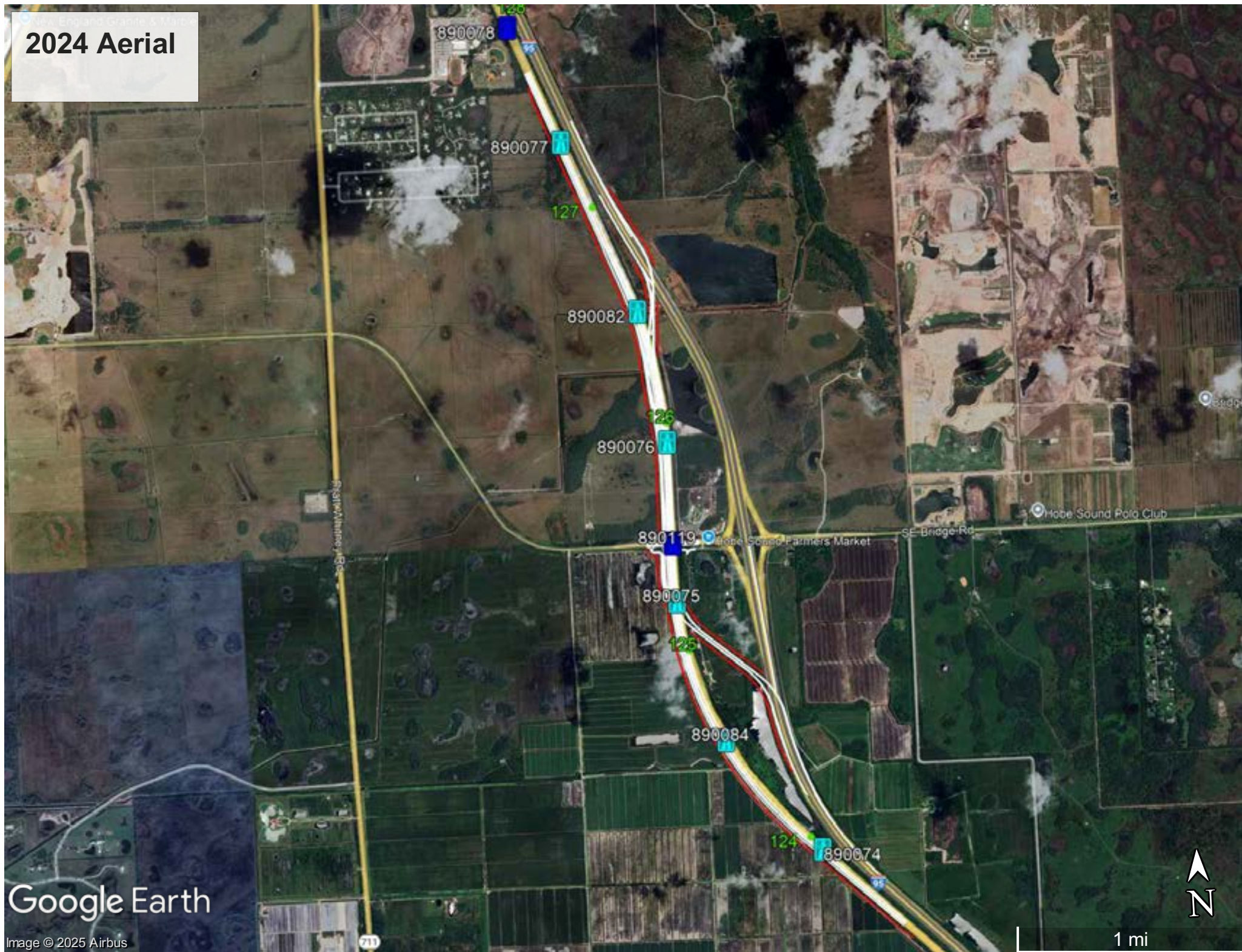
February 2021

TABLE 4: PROJECT IMPACTS - MAINLINE							
Site Number/ EDM Number	CSER Appendix A Sheet Number	Site Name & Address	Databases/ Facility ID	Approximate Distance From Florida's Turnpike Right Of Way (ROW), unless otherwise noted	Contaminants of Concern	Risk Rating	Comments
105	A-2, A-3, A-4, A-6, A-10, and A-11	Groves/Crops	NA	Adjoining east/west	Pesticides, herbicides, arsenic	Low	Groves/Crops were identified on both the topographic maps and historical aerial photographs from at least 1958 to 2019. The locations of the groves presented in CSER Appendix A have been generated from a compilation of the results of the historical aerial photograph review. Agricultural land uses such as citrus groves/row crops can be associated with contamination from residual pesticides, herbicides, metals, and petroleum contaminants in the soil and/or groundwater. The potential for contamination is more concentrated in “source areas” such as mix/load areas, storage/maintenance facilities (i.e. pole barns, equipment maintenance shops, etc.), and at diesel-powered irrigation pumps. Agricultural uses of organic and inorganic pesticides and herbicides are exempt from most RCRA provisions, provided that the farmers apply the chemicals on their own farms and in accordance with labeled instructions. Spills, improper application, too much application and application of disallowed pesticides are not exempted from these requirements. These groves/crops were not located within the ROW and “source areas” where contamination is concentrated such as mix/load areas, maintenance facilities, and irrigation wells with ASTs were not noted within or adjoining the ROW. Therefore, these sites are assigned a risk rating of Low.
106	A-10	Townstar #481 6600 W Midway Road Port St. Lucie, FL	LUST/STCERC/TANKS 8942900	adjoining west of the Midway Rd project limit, Tank farm 120 feet west ----- 0.45 miles west of Florida's Turnpike	Petroleum	Medium	EDM's report states this site has one 22,000-gallon unleaded gasoline UST in service installed in 2009. Three 10,000-gallon unleaded gasoline USTs and one 6,000-gallon diesel fuel UST were removed from the site in 2009. One discharge was reported on July 17, 1989. Assessment is in progress. The Interim Assessment Report dated September 17, 2020 states laboratory results exceeded GCTLs in three monitoring wells sampled (MW-1, MW-9R, and MW-12R). Benzene was detected at concentrations above GCTLs in MW-1. Benzene, ethylbenzene, TRPH, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected at concentrations above GCTLs in MW-9R. Benzene and naphthalene were detected at concentrations above GCTLs in MW-12R. Assessment data indicates that the groundwater contamination plume is not migrating offsite along the southern, eastern, and western boundaries of the site. Groundwater impacts have not been delineated to the north or northwest (away from the Midway Rd project limit) of the plume. Groundwater flow direction is variable. See excerpts in CSER Appendix F . Given the active status as gas station, and open discharge, this site is assigned a risk rating of Medium.
107	A-10	Tropicana Manufacturing Co. 6500 Glades Cutoff Road Fort Pierce, FL	LUST/STCERC/TANKS 8518540	adjoining west of the Midway Rd project limit, Tanks beyond 500 feet northwest ----- 0.45 miles west of Florida's Turnpike	Petroleum, hazardous substances	Low	EDM's report states that this site has 34 registered tanks with 27 ASTs currently in service. The capacities of the registered tanks ranges from 120-gallons to 25,000-gallons. Contents are listed as hazardous substance, unleaded gasoline, diesel fuel, fuel oil, mineral acid, and waste oil. The former and current tanks are located beyond 500 feet northwest of the Midway Road project limit. Three discharges were reported: October 7, 1986, August 3, 1992, and January 5, 1995. Cleanup for the 1986 and 1992 discharges was combined and an NFA was issued on June 30, 1994. The 1995 discharge was given no cleanup required status on December 12, 1998. No current contamination concerns are reported. Given the separation distance and lack of current contamination concerns, this site is assigned a risk rating of Low.

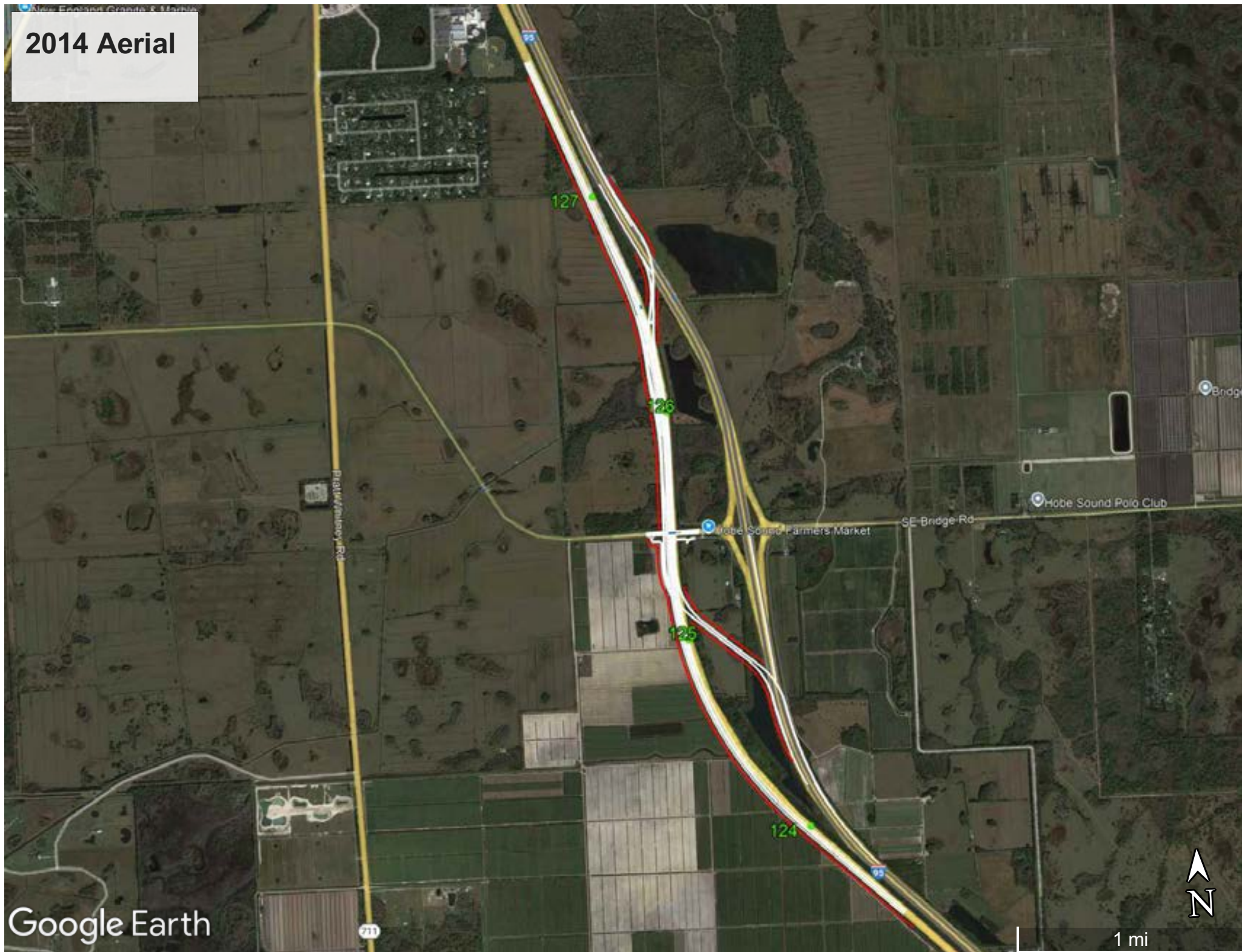
Appendix B

Historical Aerial Photographs

2024 Aerial



2014 Aerial



2007 Aerial

Google Earth

Image USDA/FPAC/GEO

1 mi

124 125 126 127

SE Bridge Rd

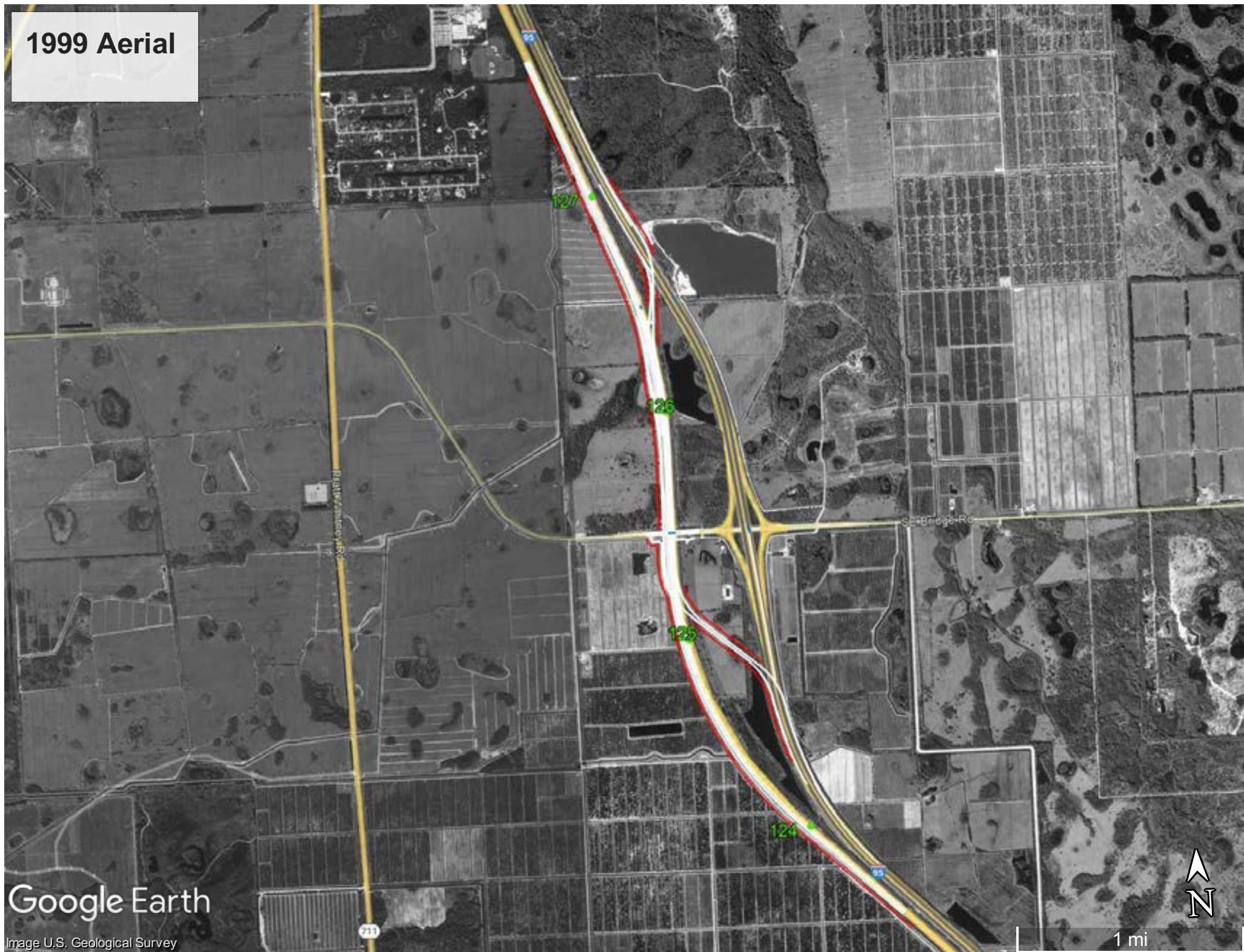
711

95

Image USDA/FPA C/GEO

N

1999 Aerial



Google Earth

Image U.S. Geological Survey



1 mi



SOURCE: FDOT SURVEY AND MAPPING

1986 HISTORICAL AERIAL PHOTOGRAPH

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO. B-47
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		



SOURCE: FDOT SURVEY AND MAPPING

1986 HISTORICAL AERIAL PHOTOGRAPH

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO. B-48
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		



FLORIDA'S TURNPIKE (SR 91)

SOURCE: FDOT SURVEY AND MAPPING

1974 HISTORICAL AERIAL PHOTOGRAPH

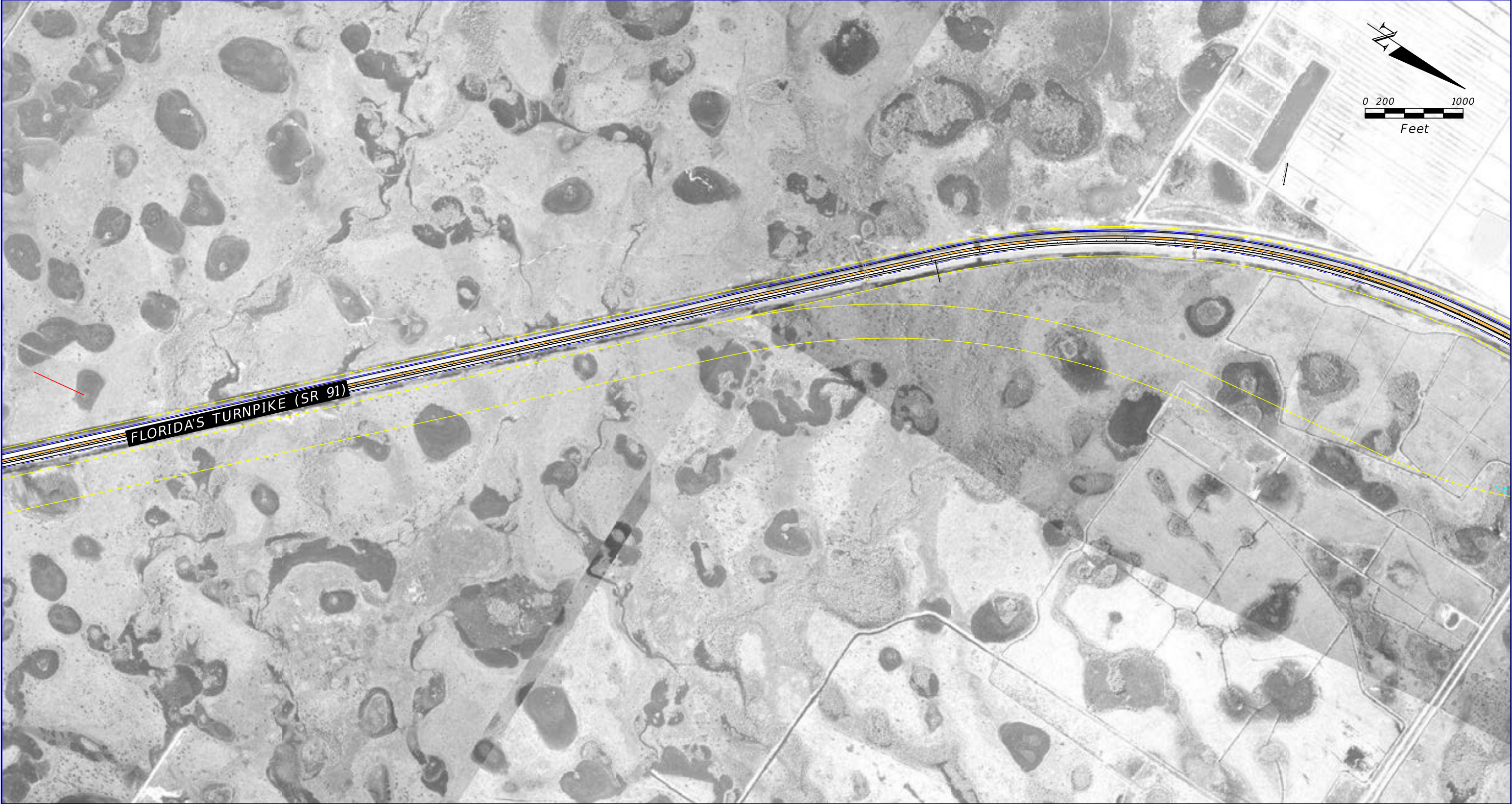
REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO. B-32
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		



SOURCE: FDOT SURVEY AND MAPPING

1974 HISTORICAL AERIAL PHOTOGRAPH

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO. B-33
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		



SOURCE: FDOT SURVEY AND MAPPING

1966 HISTORICAL AERIAL PHOTOGRAPH

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO.
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			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		
								B-15	



SOURCE: FDOT SURVEY AND MAPPING

1966 HISTORICAL AERIAL PHOTOGRAPH

REVISIONS				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PD&E WIDEN FLORIDA'S TURNPIKE (SR 91) FROM JUPITER (INDIANTOWN ROAD) TO OKEECHOBEE ROAD (SR 70) (MP 117 TO 153.7) IN PALM BEACH, MARTIN AND ST. LUCIE COUNTIES	SHEET NO. B-16
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			TIERRA PROJECT NO.: 6511-16-161E		SR 91	PALM BEACH MARTIN ST. LUCIE	423374-1-22-01		

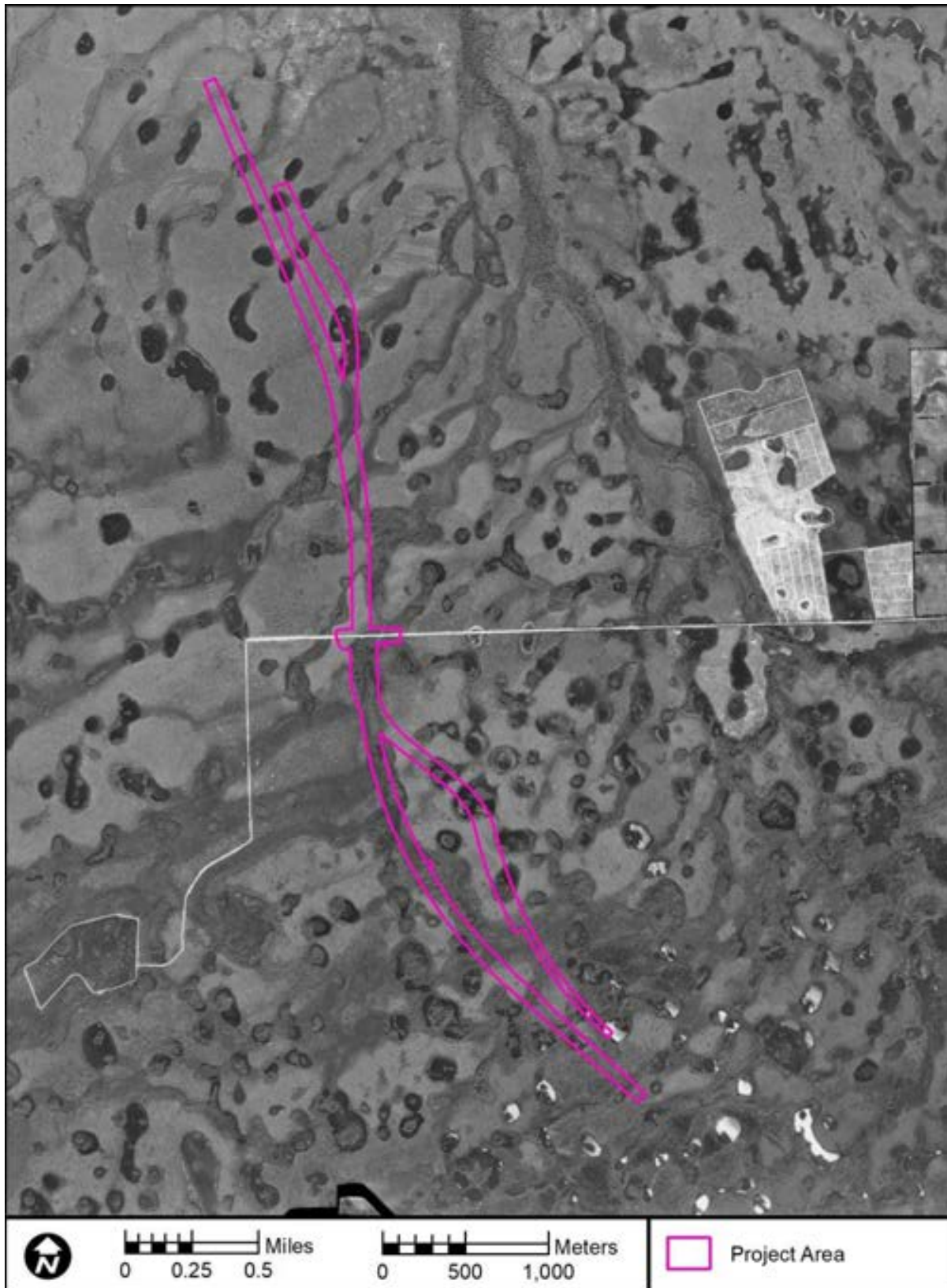


Figure 4-2: 1950 Aerial Photograph

Appendix C

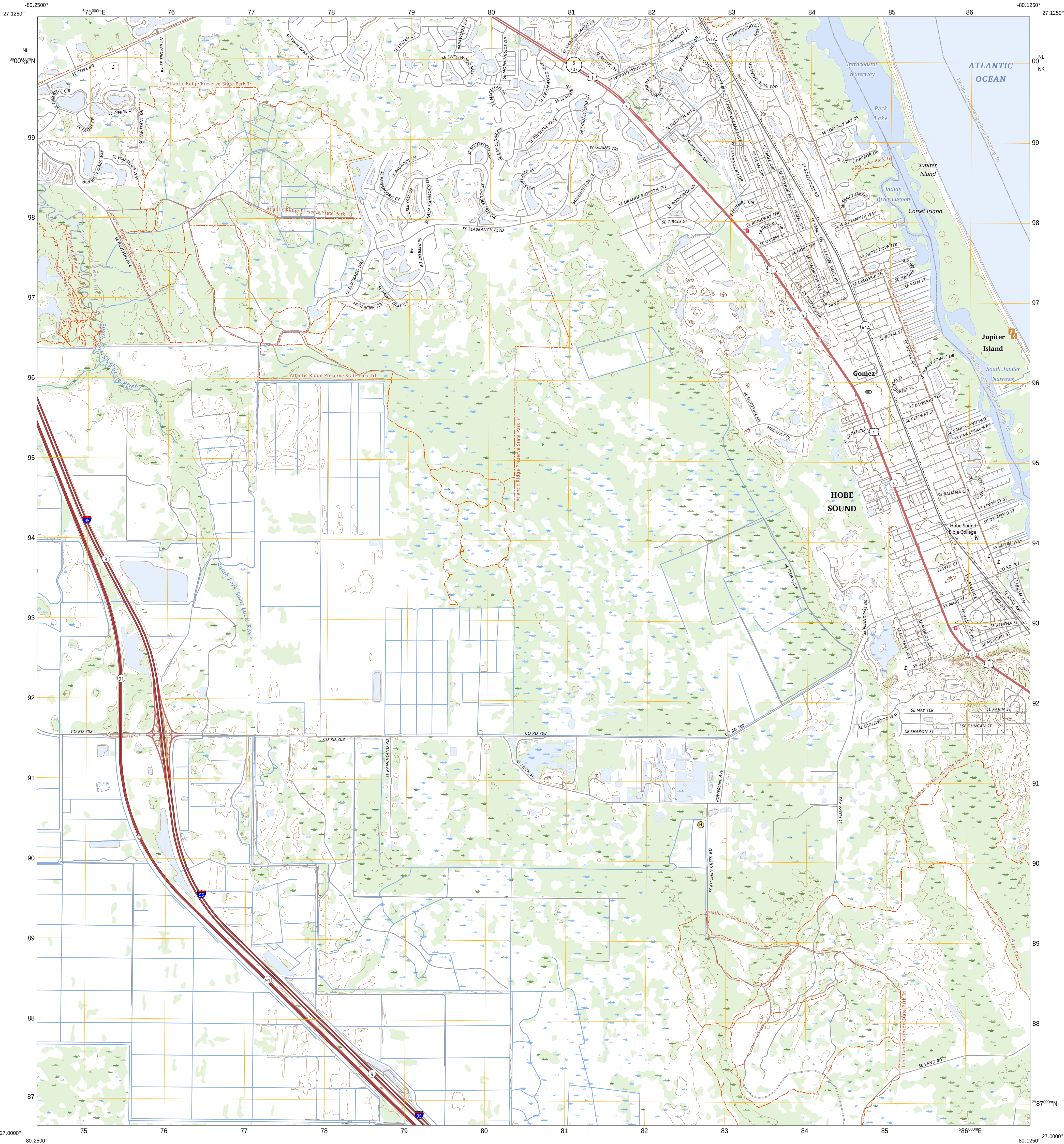
Hydrogeologic Information



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

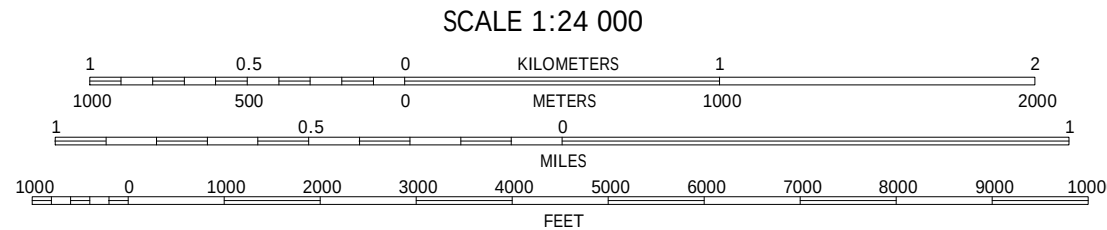
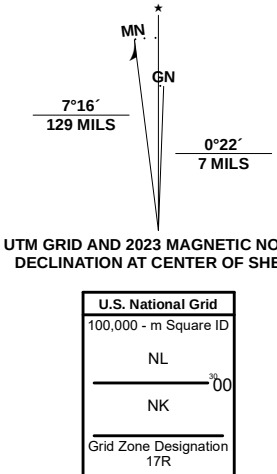


GOMEZ QUADRANGLE
FLORIDA - MARTIN COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid/Universal Transverse Mercator, Zone 17R.
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, December 2019 - December 2019
Roads.....U.S. Census Bureau, 2016
Names.....GNIS, 1979 - 2023
Hydrography.....National Hydrography Dataset, 2005 - 2022
Contours.....National Elevation Dataset, 2022
Boundaries.....Multiple sources: see metadata file 2020 - 2022
Public Land Survey System.....BLM, 2020
Wetlands.....National Wetlands Inventory Not Available



CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3	4
5	6	7	8

ADJOINING QUADRANGLES

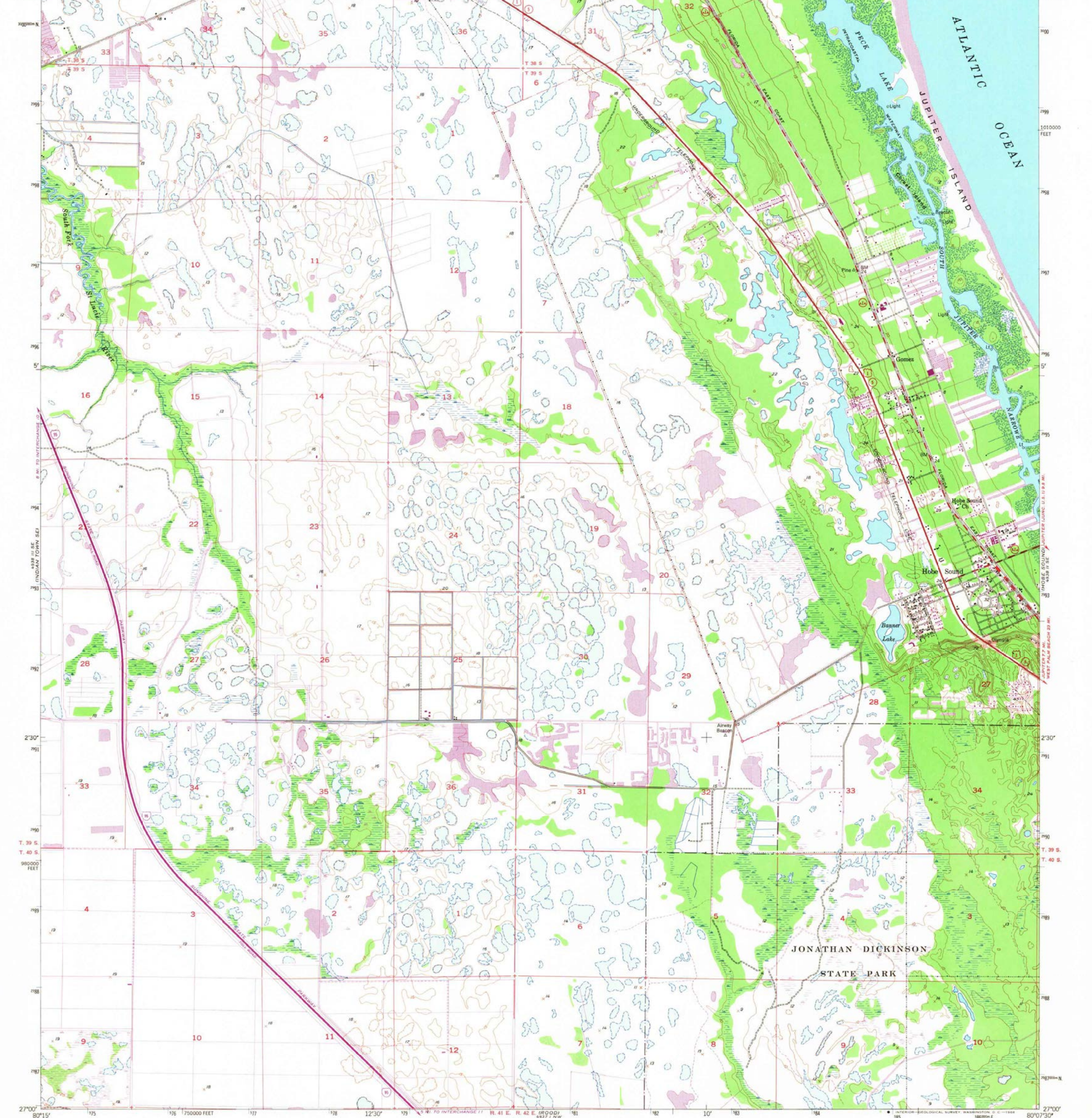
1 Palm City
2 Saint Lucie Inlet
3 Indiantown SE
4 Hobe Sound
5 West of Road
6 Road
7 Jupiter

ROAD CLASSIFICATION

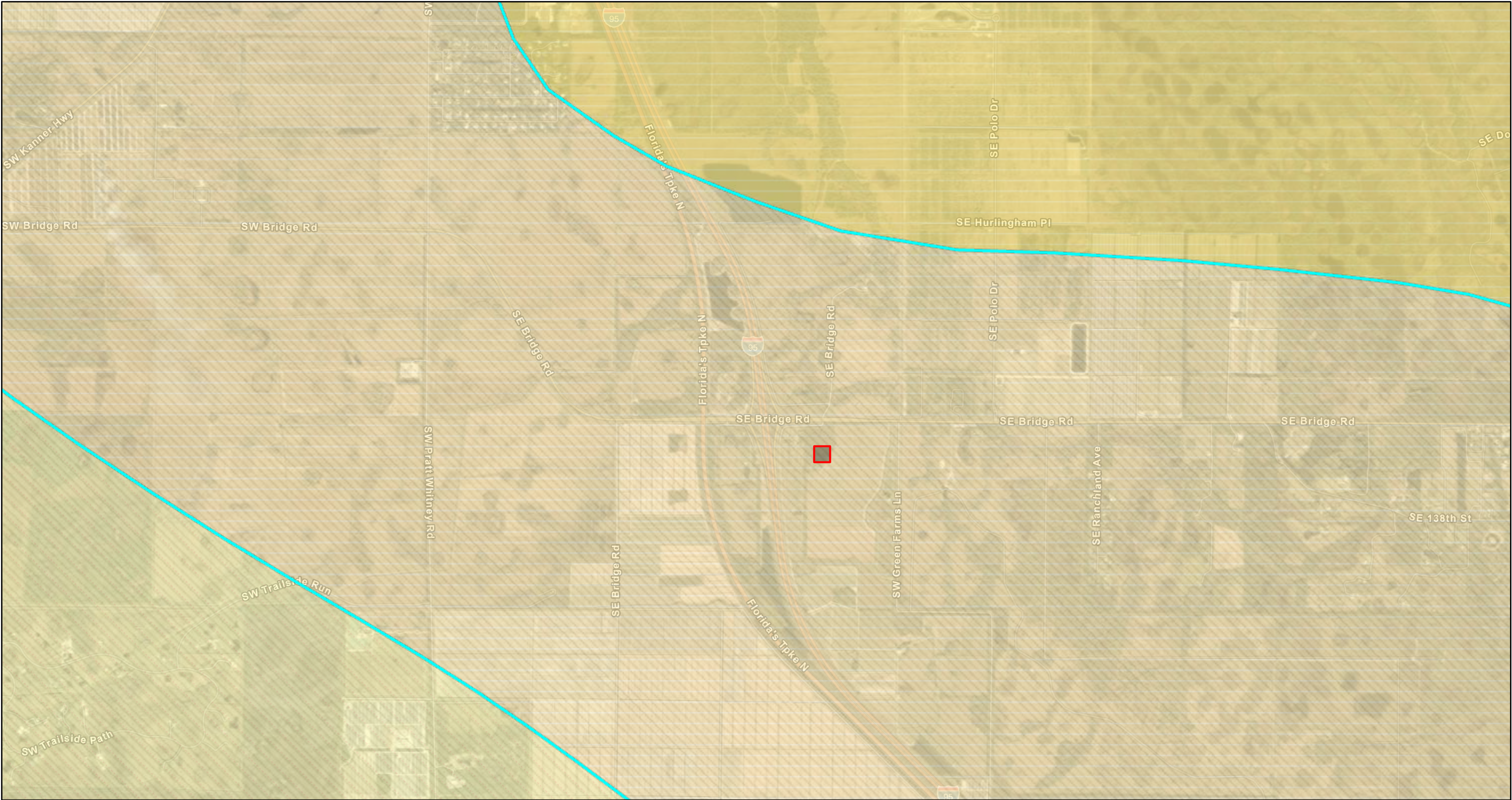
Expressway
Secondary Hwy
Ramp
Interstate Route
Local Connector
Local Road
4WD
US Route
State Route

GOMEZ, FL
2024





FDEP Map Direct, Geology



May 23, 2025

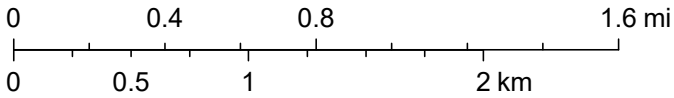
Stratigraphic Geology

- Qa Anastasia Formation
- TQsu Shelly sediments of Plio-Pleistocene age

STATEMAP Geology

- Qu
- TQsu

1:36,112



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



Rick Green et al. (STATEMAP), 1995-2018

Source



These sediments are complex, varying from unconsolidated, variably calcareous and fossiliferous quartz sands to well indurated, sandy, fossiliferous limestones (both marine and freshwater). Clayey sands and sandy clays are present.

Description

TQsu

Generic
Symbolizer

PLIOCENE/PLEISTOCENE

Geologic
History

Shells, sand, clay

Lithology



Nearby



Zoom



Pan



Remove



Florida Stratigraphic Geology



Anastasia Formation

GeologicUnitName



PLEISTOCENE

GeologicHistory



Qa

GeologicUnitCode

Limestone, coquina, sand

Lithology



Nearby



Zoom



Pan



Remove

Layers not Searched:

- Environmental Geology - Rock and Sediment Distribution
- Florida Geomorphology Districts
- Florida Geomorphology Provinces
- Florida Geological Survey (FGS) Borehole - FGS Boreholes

Map

Incident Reports

e by Geology

ity (per square

047

31

2

le Depth (feet)



Sinkhole Types

AREA_DESC	Area II
DESC_1	Cover is 30' to 200' thick
DESC_2	Consists mainly of incohesive and permeable sand. Sinkholes are few, shallow, of small diameter and develop gradually. Cover-subsidence sinkholes dominate.

Department of Environmental Protection Geospatial Open Data

Map for Sinkhole

Administrator

Department of Environmental

Emergency Management

Florida Geological Survey (FGS)

the State's geology to

respond to a large outbreak of

the following Tropical Storm

The project's results are

State Hazard Mitigation Plan's

roads allowing for improved

three-and-a-half-year

the Federal Emergency

Full Details









Legend

FGS FAV SINK F

FGS FAV SIN

Least fav

Favorabl

More fav

Most fav

Hobe
Sound

Appendix D

ETDM EST GIS Analysis Report for Contamination

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) Area of Interest

Description: Along Florida's Turnpike and I-95 Approximately 2 Miles North and South of SE Bridge Road

Project Type: Other Area of Interest (OAOI)

Expiration: This AOI will be available in the EST until 06/30/2025

Last updated: Eric Krebill @ Florida's Turnpike Enterprise on Mon Jun 02 12:05:11 EDT 2025

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - .



Analysis Type		Date Run	Features within AOI
			Count
Contamination			
BTS Abandoned Rails (Subset of BTS Rails)	i	06/02/2025	0
BTS Abandoned Rails 2015 (Subset of BTS Rails)	i	06/02/2025	0
FDEP Brownfield Location Boundaries	i	06/02/2025	0
FDEP DRASTIC Coverage for the Floridan Aquifer System	i	06/02/2025	0
FDEP DRASTIC Coverage for the Intermediate Aquifer	i	06/02/2025	0
FDEP DRASTIC Coverage for the Surficial Aquifer System	i	06/02/2025	1
FDEP Dry Cleaning Program Sites	i	06/02/2025	0
		06/02/2025	1

Analysis Type		Date Run	Count
FDEP Environmental Geology			
FDEP Environmental Restoration Integrated (ERIC) PFAS Sites		06/02/2025	0
FDEP Environmental Restoration Integrated Cleanup (ERIC) Sites		06/02/2025	2
FDEP Floridan Aquifer System FAVA II Response Theme		06/02/2025	N/A
FDEP Hazardous Waste Facilities		06/02/2025	0
FDEP Institutional Controls Registry Sites		06/02/2025	0
FDEP Intermediate Aquifer System FAVA II Response Theme		06/02/2025	N/A
FDEP Large Quantity Generators of Hazardous Waste		06/02/2025	0
FDEP Mandatory Phosphate Mine Boundaries		06/02/2025	0
FDEP NPDES Stormwater Permits		06/02/2025	1
FDEP National Pollutant Discharge Elimination System (NPDES) Stormwater Facilities and Activities		06/02/2025	0
FDEP Off Site Contamination Notices		06/02/2025	0
FDEP Petroleum Contamination Monitoring Sites		06/02/2025	1
FDEP Solid Waste Facilities		06/02/2025	0
FDEP State funded Hazardous Waste Cleanup Sites		06/02/2025	0
FDEP Storage Tank Contamination Monitoring (STCM)		06/02/2025	1
FDEP Subsidence Incident Reports for the State of Florida		06/02/2025	0
FDEP Superfund/National Priority List (NPL) Waste Cleanup Sites		06/02/2025	0
FDEP Surficial Aquifer System FAVA II Response Theme		06/02/2025	N/A
FDEP Treaters, Storers, and Disposers of Hazardous Waste		06/02/2025	0
FDEP Wastewater Facilities		06/02/2025	0

Analysis Type		Date Run	Count
FDEP Waterbody IDs		06/02/2025	3
FDOH Biomedical Waste		06/02/2025	0
FDOH Known On-Site Septic Systems		06/02/2025	0
FDOH Likely On-Site Septic Systems		06/02/2025	0
FDOH Limited Use Drinking Water Wells		06/02/2025	0
FDOH Super Act Risk Sources		06/02/2025	1
FDOH Super Act Wells		06/02/2025	0
GEOPLAN Schools (Points)		06/02/2025	0
NRCS List of Specific Soils - SSURGO		06/02/2025	56
NRCS Summary of Specific Soils - SSURGO		06/02/2025	56
SFWMD Comprehensive Everglades Restoration Plan (CERP) Project Boundaries		06/02/2025	1
SFWMD Surface Water Projects		06/02/2025	1
SFWMD Environmental Resource Permit Project Activity Areas		06/02/2025	0
SFWMD Sensitive Karst Areas in the SWFWMD		06/02/2025	0
SFWMD Storm Water Management Permit Points		06/02/2025	0
SFWMD Water Use Permit Boundaries		06/02/2025	0
SFWMD Well Construction Permit Locations		06/02/2025	0
SFWMD Works of the District		06/02/2025	0
USCB 2010 Census Designated Places		06/02/2025	0
USEPA Assessment Cleanup and Redevelopment Exchange System (ACRES)		06/02/2025	0
USEPA National Pollutant Discharge Elimination System (NPDES)		06/02/2025	2

Analysis Type		Date Run	Count
USEPA Power Plants	i	06/02/2025	0
USEPA Regulated Air Emissions Facilities (ICIS-AIR)	i	06/02/2025	0
USEPA Resource Conservation and Recovery Act (RCA) Regulated Facilities	i	06/02/2025	0
USEPA Superfund Hazardous Waste Sites	i	06/02/2025	0
USEPA Toxic Release Inventory Sites	i	06/02/2025	0
USGS Geologic Units and Structural Features	i	06/02/2025	1
WMD Agricultural Lands (FLUCCS Level 3)	i	06/02/2025	12

FDEP DRASTIC Coverage for the Surficial Aquifer System

Metadata: <https://etdmpub.fl-a-etat.org/meta/aqdrsu.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Index Score (Sum of Weighted Scores)	Area of Interest	
	Acr	Pct
190	939.58	100%
Totals	939.58	-

FDEP Environmental Geology

Metadata: <https://etdmpub.fl-a-etat.org/meta/fdepgeo.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Geologic Category	Area of Interest	
	Acr	Pct
SHELLY SAND AND CLAY	939.58	100%
Totals	939.58	-

FDEP Environmental Restoration Integrated Cleanup (ERIC) Sites

Metadata: https://etdmpub.fl-a-etat.org/meta/eric_waste_cleanup.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Site Name	ERIC ID	Program	Site Status	Google Map
BUNNELL CYPRESS COMPANY, INC. ACCIDENT	ERIC_11360	RESPONSIBLE PARTY CLEANUP	CLOSED	https://www.google.com/maps/place/17RNK7714788784
NICHOLS SANITATION HYDRAULIC OIL RELEASE	ERIC_11448	RESPONSIBLE PARTY CLEANUP	CLOSED	https://www.google.com/maps/place/17RNK7606090684

Summary: 2 feature(s) found within buffer.

FDEP Floridan Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.fl-a-etat.org/meta/fava_fas_response.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
VULNERABLE	939.17	100.0%
Totals	939.17	-

FDEP Intermediate Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.fl-a-etat.org/meta/fava_ias_response.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	936.95	100.0%
Totals	936.95	-

FDEP NPDES Stormwater Permits

Metadata: https://etdmpub.fl-a-etat.org/meta/npdes_stormwater.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Permittee and Permit ID	Permit ID
MARTIN COUNTY [FLR04E013]	FLR04E013

Summary: 939.58 acres, 100 percent of analysis area.

FDEP Petroleum Contamination Monitoring Sites

Metadata: <https://etdmpub.fl-a-etat.org/meta/pcts.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Cleanup Status	Facility ID	Name	Google Map
NO CLEANUP REQUIRED	9807334	CASA BLANCA EXPRESS OF PALM BEACH 04-2I-0181	https://www.google.com/maps/place/17RNK7655289312

Summary: 1 feature(s) found within buffer.

FDEP Storage Tank Contamination Monitoring (STCM)

FDEP Storage Tank Contamination Monitoring

Metadata: <https://etdmpub.fl-a-etat.org/meta/stcm.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Facility ID	Facility Status	Site type	Google Map
9807334	CLOSED	EMERGENCY RESPONSE SPILL SITE	https://www.google.com/maps/place/17RNK7655289312

Summary: 1 feature(s) found within buffer.

FDEP Surficial Aquifer System FAVA II Response Theme

Metadata: https://etdmpub.fl-a-etat.org/meta/fava_sas_response.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

DESCRIPTION	Area of Interest	
	Acr	Pct
No Data	98.3	10.45%
MORE VULNERABLE	287.11	30.53%
MOST VULNERABLE	554.87	59.01%
Totals	940.28	-

FDEP Waterbody IDs

Metadata: <https://etdmpub.fl-a-etat.org/meta/wbids.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Name and Waterbody ID
CYPRESS CREEK [WBID: 3224C1]
MOONSHINE CREEK [WBID: 3224C2]
SOUTH FORK ST LUCIE RIVER (FRESHWATER SEGMENT) [WBID: 3210D]

Summary: 939.58 acres, 100 percent of analysis area.

FDOH Super Act Risk Sources

Metadata: https://etdmpub.fl-a-etat.org/meta/superact_risk.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Substance type	Project	Description	Google Map
PETROLEUM	SUPER	CASA BLANCA EXPRESS OF PALM BEACH 04-2I-0181	https://www.google.com/maps/place/17RNK7655289311

Summary: 1 feature(s) found within buffer.

NRCS List of Specific Soils - SSURGO

NRCS List of Specific Soils characteristics

Metadata: https://etdmpub.fl-a-etat.org/meta/nrcs_soils.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Mapunit Key	Component Name	Component Percent	Mapunit Name	Mapunit acres	Hydric Soil Rating	Soil Drainage Class	Mapunit Kind
1421561	POMELLO	85	POMELLO SAND, 0 TO 5 PERCENT SLOPES	2080	NO	SOMEWHAT POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION

Mapunit Key	Component Name	Component Percent	Mapunit Name	Mapunit acres	Hydric Soil Rating	Soil Drainage Class	Mapunit Kind
			SLOPES				
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421568	WABASSO	85	WABASSO SAND, 0 TO 2 PERCENT SLOPES	34218	NO	POORLY DRAINED	CONSOCIATION
1421585	FLORIDANA	85	FLORIDANA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	11727	YES	VERY POORLY DRAINED	CONSOCIATION
1421585	FLORIDANA	85	FLORIDANA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	11727	YES	VERY POORLY DRAINED	CONSOCIATION
1421592	PINELLAS	85	PINELLAS FINE SAND, 0 TO 2 PERCENT SLOPES	9913	NO	POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION

Mapunit Key	Component Name	Component Percent	Mapunit Name	Mapunit acres	Hydric Soil Rating	Soil Drainage Class	Mapunit Kind
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421594	RIVIERA	85	RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	31681	YES	VERY POORLY DRAINED	CONSOCIATION
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP

Mapunit Key	Component Name	Component Percent	Mapunit Name	Mapunit acres	Hydric Soil Rating	Soil Drainage Class	Mapunit Kind
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421604	WABASSO	45	WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL	4164	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421606	GATOR	50	GATOR AND TEQUESTA MUCKS	4463	YES	VERY POORLY DRAINED	UNDIFFERENTIATED GROUP
1421627	WATER	100	WATER	86878	UNRANKED	None	CONSOCIATION
1421627	WATER	100	WATER	86878	UNRANKED	None	CONSOCIATION
1421627	WATER	100	WATER	86878	UNRANKED	None	CONSOCIATION
1421627	WATER	100	WATER	86878	UNRANKED	None	CONSOCIATION
1421627	WATER	100	WATER	86878	UNRANKED	None	CONSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102897	PINEDA	45	PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES	49654	YES	POORLY DRAINED	ASSOCIATION
3102921	WINDER	85	WINDER SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES	8502	YES	VERY POORLY DRAINED	CONSOCIATION

Mapunit Key	Component Name	Component Percent	Mapunit Name	Mapunit acres	Hydric Soil Rating	Soil Drainage Class	Mapunit Kind
3236250	CYPRESS LAKE	70	CYPRESS LAKE FINE SAND, 0 TO 2 PERCENT SLOPES	5052	NO	POORLY DRAINED	CONSOCIATION

Summary: 939.58 acres, 100 percent of analysis area.

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.fl-a-etat.org/meta/nrcs_soils.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Mapunit Key, Comp Name, Mapunit Name	Area of Interest	
	Acr	Pct
1421561-(POMELLO)(POMELLO SAND, 0 TO 5 PERCENT SLOPES)	1.21	0.13%
1421568-(WABASSO)(WABASSO SAND, 0 TO 2 PERCENT SLOPES)	297.59	31.66%
1421585-(FLORIDANA)(FLORIDANA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	3.89	0.42%
1421592-(PINELLAS)(PINELLAS FINE SAND, 0 TO 2 PERCENT SLOPES)	18.2	1.94%
1421594-(RIVIERA)(RIVIERA FINE SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	175.93	18.72%
1421604-(WABASSO)(WABASSO AND OLDSMAR FINE SANDS, DEPRESSIONAL)	26.39	2.81%
1421606-(GATOR)(GATOR AND TEQUESTA MUCKS)	6.69	0.71%
1421627-(WATER)(WATER)	29.93	3.19%
3102897-(PINEDA)(PINEDA-RIVIERA FINE SANDS ASSOCIATION, 0 TO 2 PERCENT SLOPES)	371.26	39.51%
3102921-(WINDER)(WINDER SAND, FREQUENTLY PONDED, 0 TO 1 PERCENT SLOPES)	5.69	0.61%
3236250-(CYPRESS LAKE)(CYPRESS LAKE FINE SAND, 0 TO 2 PERCENT SLOPES)	2.8	0.3%
Totals	939.58	-

SFWMD Comprehensive Everglades Restoration Plan (CERP) Project Boundaries

Metadata: https://etdmpub.fl-a-etat.org/meta/sfwmd_cerp_area.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Project Name
INDIAN RIVER LAGOON - SOUTH

Summary: 5.14 acres, 0.6 percent of analysis area.

SFWMD Surface Water Projects

Metadata: https://etdmpub.fl-a-etat.org/meta/sfwmd_surface_water_projects.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Project Name

PALMAR COMPLEX NATURAL STORAGE & WATER QUALITY TREATMENT AREA

Summary: 5.14 acres, 0.6 percent of analysis area.

USEPA National Pollutant Discharge Elimination System (NPDES)

USEPA National Pollutant Discharge Elimination System (NPDES)

Metadata: <https://etdmpub.fl-a-etat.org/meta/epanpdes.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Facility ID	Facility Name	Permit or Program Type
110070063946	RESURFACING I-95	ICIS-NPDES NON-MAJOR
110070063946	RESURFACING I-95	STORM WATER CONSTRUCTION

Summary: 2 feature(s) found within buffer.

USGS Geologic Units and Structural Features

Metadata: <https://etdmpub.fl-a-etat.org/meta/flgeol.xml>

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Description	Area of Interest	
	Acr	Pct
ANASTASIA FORMATION	939.58	100%
Totals	939.58	-

WMD Agricultural Lands (FLUCCS Level 3)

Metadata: https://etdmpub.fl-a-etat.org/meta/lu_l3_state.xml

446975-1 Turnpike (SR91) and I-95 Direct Connection Interchange (MP 125) - ., analyzed on 06/02/2025.

Footprint analyzed

Land Use Classification	Area of Interest	
	Acr	Pct
IMPROVED PASTURES	210.64	22.42%
WOODLAND PASTURES	35.26	3.75%
FIELD CROPS	180.27	19.19%
SOD FARMS	57.42	6.11%
UNIMPROVED PASTURES	39.7	4.22%
CITRUS GROVES	12.83	1.37%
Totals	536.12	-

Appendix E

Field Reconnaissance Photographs

446975-1 Site Reconnaissance Photos 6/6/2025



Photo #1 Looking north of Bridge Rd at wooded proposed R/W along southbound side of SR91



Photo #2 Looking south of Bridge Rd at sugar cane field at proposed R/W west of SB SR91

446975-1 Site Reconnaissance Photos 6/6/2025



Photo 3 Mr. Landscape Wholesale nursery adjacent east of SR91 south of Bridge Rd



Photo 4 Looking SE from SR91 at proposed crossover south of Bridge Rd

[illegible]

A photograph of a grassy field, likely a sports field or park. In the foreground, there is a dense patch of green grass and some low-lying vegetation. A white pole, possibly a light pole or a fence post, is visible on the right side of the frame. In the middle ground, there is a fence line, and beyond that, a line of trees. The sky is overcast with grey clouds. There is some litter on the ground, including a white plastic cup and a piece of paper.

Photo 6 Looking NW from I-95 at proposed crossover south of Bridge Rd

446975-1 Site Reconnaissance Photos 6/6/2025



Photo 7 Looking NE at pasture at proposed crossover north of Bridge Rd



Photo 8 Looking west at Bridge Road over SR91



Photo 9 Bridge 890119 over SR91, looking north



Google Earth Pro 2025 Aerial Proposed Crossover South of Bridge Rd

446975-1 Site Reconnaissance Photos 6/6/2025



Google Earth Pro 2025 Aerial Proposed Crossover North of Bridge Rd