

**HAZARD MITIGATION TECHNICAL ASSISTANCE PROGRAM  
CONTRACT NO. EMW-2000-CO-0247  
TASK ORDER 345  
HURRICANE JEANNE RAPID RESPONSE  
FLORIDA RIVERINE HIGH WATER MARK (RHWM) COLLECTION  
FEMA-1561-DR-FL**

**FINAL REPORT  
FEBRUARY 28, 2005**

**SUBMITTED TO:**



**FEMA**

**FEDERAL EMERGENCY MANAGEMENT AGENCY  
REGION IV  
ATLANTA, GA**

**PREPARED BY:**

**URS**

**URS GROUP, INC.  
200 ORCHARD RIDGE DRIVE  
SUITE 101  
GAITHERSBURG, MD 20878**

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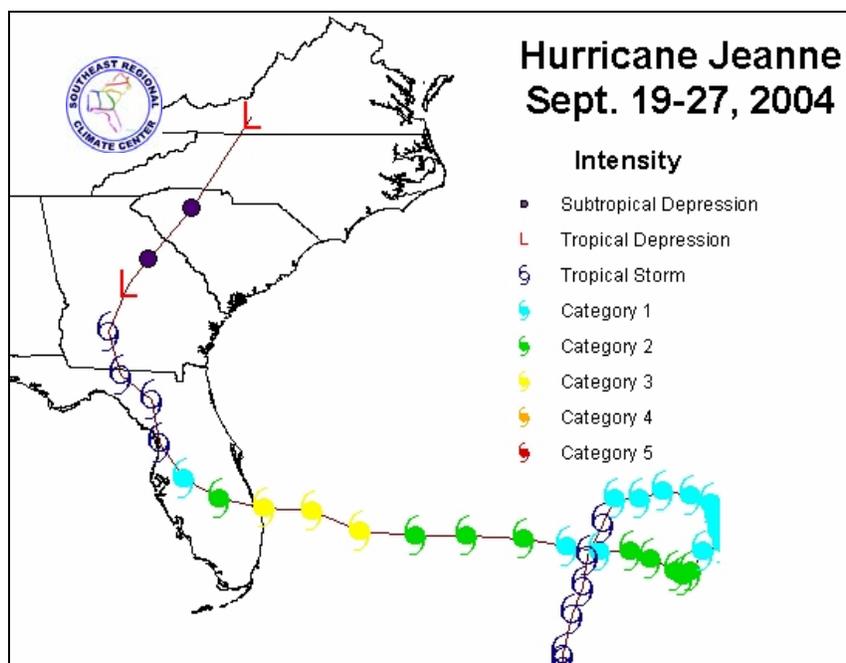
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**INTRODUCTION**

Jeanne formed from a tropical wave on September 7, 2004, and moved into the eastern tropical Atlantic Ocean. Jeanne became a tropical depression on September 13 as it approached the Leeward Islands, and was upgraded to Tropical Storm Jeanne the next day. After crossing Puerto Rico it reached hurricane strength on September 16 near the eastern tip of the Dominican Republic. On September 18, while the system was being tracked near Great Inagua and Haiti, a new center formed well to the northeast and the previous circulation dissipated. The new center strengthened again, becoming a hurricane on September 20. Jeanne continued to meander for several days before beginning a steady westward motion toward the Bahamas and Florida.

Jeanne continued strengthening as it headed west, passing over Great Abaco Island in the Bahamas on the morning of September 25. Shortly thereafter, it reached Category 3 strength. It maintained this intensity as it passed Grand Bahama during the remainder of the day. At 11:50 pm EDT September 25, Jeanne made landfall on Hutchinson Island, just east of Stuart, Florida, at Category 3 strength. This is only about 2 miles (3 km) from Sewall's Point, where Hurricane Frances struck Florida three weeks earlier. According to the National Hurricane Center, at the time of landfall, Jeanne's eye diameter was approximately 60 miles, its maximum winds were 120 mph over a very small area north of the center of circulation, and movement was west-northwest at approximately 9 mph. The maximum storm surge was estimated to be 6 feet above normal tide levels. The track for Hurricane Jeanne is shown in Figure 1.



**Figure 1: Hurricane Jeanne Track**

Jeanne's track continued to follow within 20 miles of that of Frances until it reached Pasco County. It then swung more rapidly to the north, and the center remained over land all the way to the Georgia state line. Hurricane Jeanne produced widespread rainfall of up to 8 inches in eastern, central, and northern Florida, with up to 13 inches observed in the vicinity of the eyewall track. Jeanne became extratropical over Virginia on September 28 and the remnant returned to sea off the New Jersey coast the next day. The last advisory was issued when it was 200 miles (320 km) east of New York City and heading east-northeast over the Atlantic. Hurricane Jeanne caused catastrophic loss and property loss throughout its path.

Notice was given in the Federal Register, in a letter dated September 26, 2004, that the President declared a major disaster under the authority of the Robert T. Stafford Disaster Relief and Emergency Assistance Act for damage in certain areas in Florida resulting from Hurricane Frances (FEMA-1561-DR, Florida; <http://www.fema.gov/news/event.fema?id=3823>). The declaration provides the necessary Federal assistance to meet immediate needs and to help Florida recover as quickly as possible. Declared Florida counties under disaster declaration FEMA-1561-DR-FL are described below and shown on Figure 2.

**Individual Assistance** was provided to: Brevard, Hardee, Hernando, Highlands, Hillsborough, Indian River, Lake, Martin, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Seminole, St. Lucie, Sumter, and Volusia Counties with the September 26, 2004, declaration.

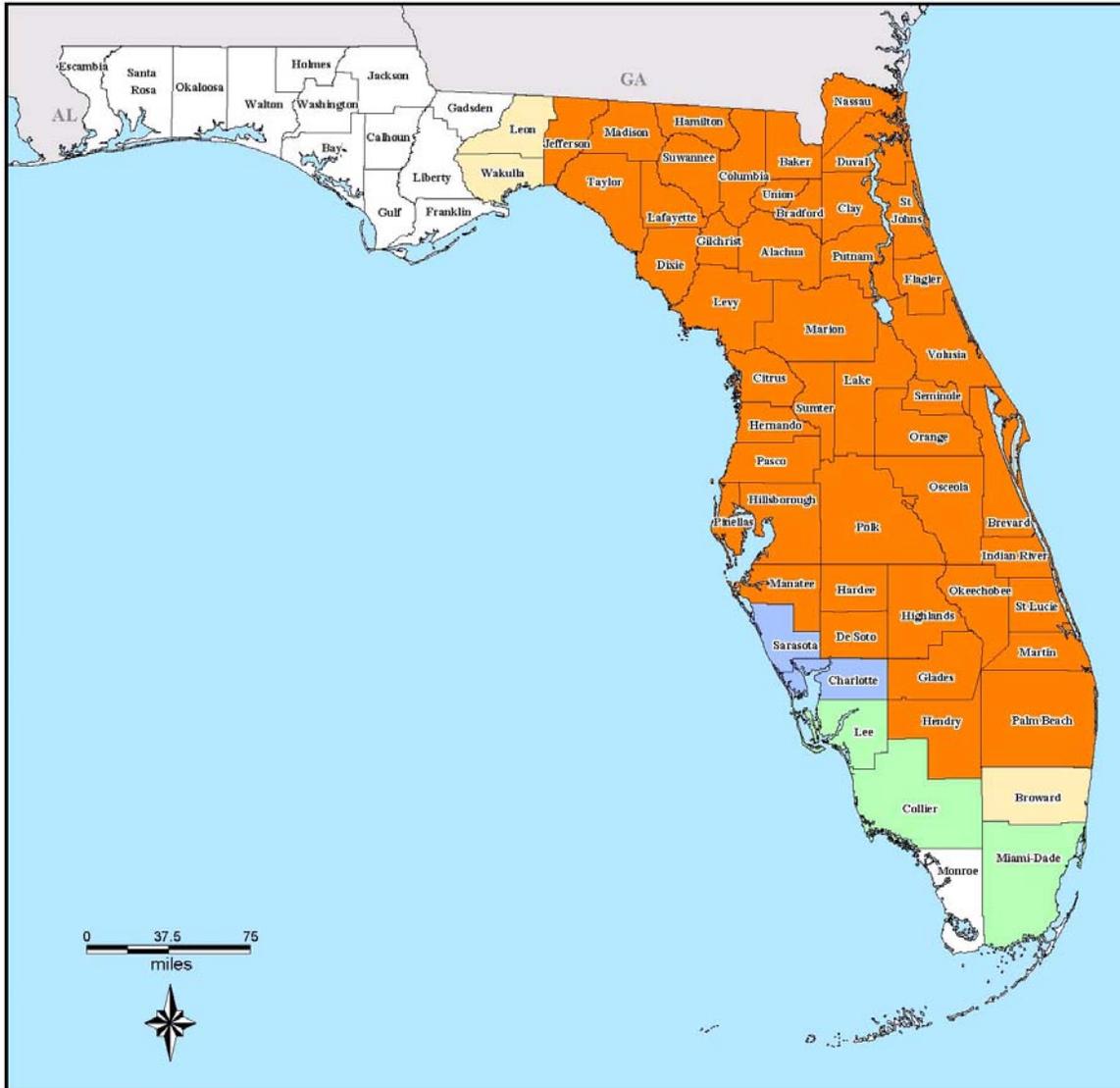
Amendment No. 1, September 27, 2004, included Marion County for Individual Assistance.

Amendment No. 2, September 30, 2004, included Alachua, Baker, Bradford, Charlotte, Citrus, Clay, Columbia, DeSoto, Dixie, Duval, Flagler, Gilchrist, Glades, Hamilton, Hendry, Jefferson, Lafayette, Levy, Madison, Manatee, Nassau, Putnam, Sarasota, St. Johns, Suwannee, Taylor, and Union counties for Individual Assistance.

**Public Assistance** was provided to: Brevard, Citrus, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Indian River, Lake, Levy, Manatee, Marion, Martin, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Seminole, St. Lucie, Sumter, and Volusia Counties within the State of Florida for assistance for debris removal and emergency protective measures, including direct Federal assistance, at 100 percent Federal funding of the total eligible costs of Categories A and B for a period of up to 72 hours. Consistent with the requirement that Federal assistance be supplemental, any Federal funds provided under the Stafford Act for Public Assistance will be limited to 75 percent of the total eligible costs.

Amendment No. 4 to the Notice of a Major Disaster Declaration, October 14, 2004, included Brevard, Citrus, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Indian River, Lake, Levy, Manatee, Marion, Martin, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Polk, Seminole, St. Lucie, Sumter, and Volusia Counties for Public Assistance (Categories C-G) under the Public Assistance program.

# FEMA-1561-DR, Florida Disaster Declaration as of 11/05/2004



**Legend**

**Designated Counties**  
(all counties are eligible for Hazard Mitigation)

- Individual Assistance
- Individual & Public Assistance (A - G)
- Individual & Public Assistance (A & B only)
- Individual & Public Assistance (B only)
- Public Assistance (A - G)
- Public Assistance (B only)



*ITS Mapping and Analysis Center  
Washington, DC  
11/08/2004 -- 10:15:47 EDT*

j:\2004\disaster\dr\_1561\_f\dec\_1561.wor

**Figure 2: Disaster Declaration Map**

Amendment No. 5, October 14, 2004, included Charlotte, Collier, Lee, Miami-Dade, and Sarasota Counties for Category B under the Public Assistance program.

Amendment No. 6, October 14, 2004, included Alachua, Baker, Bradford, Broward, Clay, Columbia, Dixie, Duval, Flagler, Gilchrist, Hamilton, Jefferson, Lafayette, Madison, Nassau, St. Johns, Suwanne, Taylor, and Union Counties for the Public Assistance program.

Amendment No. 7, October 20, 2004, included Hillsborough, Pinellas, and Putnam Counties for Categories C-G under the Public Assistance program.

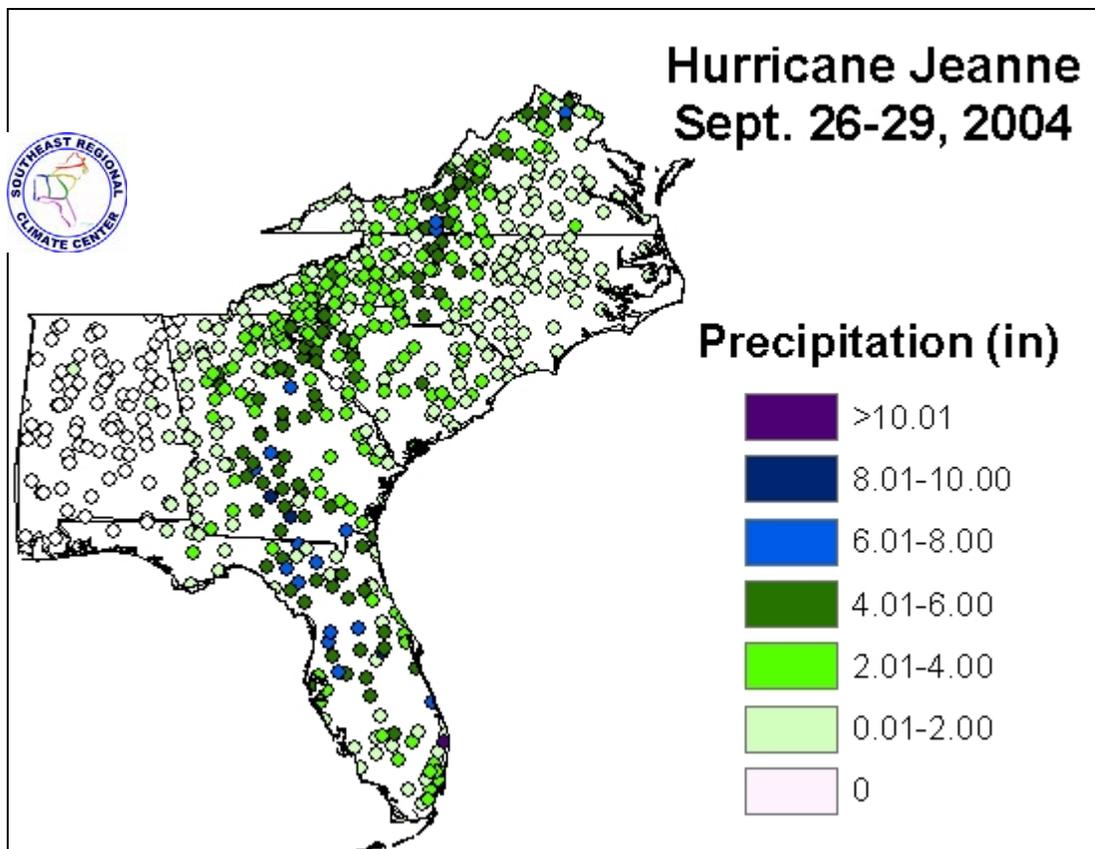
Amendment No. 8, November 5, 2004, included Leon, Sarasota, and Wakulla Counties for Categories A and C-G under the Public Assistance program.

**Hazard Mitigation Grant Program (HMGP):** All counties in the State of Florida are eligible to apply for assistance under the HMGP.

Hurricane Jeanne resulted in both coastal and riverine flooding. URS Group, Inc. (URS) was contracted by the Federal Emergency Management Agency (FEMA) under the Hazard Mitigation Technical Assistance Program (HMTAP) to assist in hurricane disaster recovery. Assistance provided under this Task Order included collection and survey of Riverine High Water Marks (RHWMs). The purpose of this report is to document the methodologies used to flag the RHWM locations and to present the data collected, including surveyed locations and elevations, in a concise format.

**AREA OF STUDY**

Hurricane Jeanne crossed the State of Florida on September 26, 2004, following the track illustrated on Figure 1. The system was relatively large with storm bands extending outward across most of the State. Jeanne produced significant amounts of precipitation throughout a large portion of the state, resulting in disaster declarations in many counties. According to the National Weather Service, Jeanne produced widespread rainfall of up to 8 inches across eastern, central, and northern Florida with a narrower band of up to 13 inches over Osceola, Broward, and Indian River Counties. A secondary rainfall maximum of around 11 inches was observed over northeast Florida in Duval and Nassau Counties. Figure 3 illustrates precipitation quantities within the State for an approximate 24-hour period. It is significant that Hurricane Jeanne followed Hurricane Frances by about three weeks because many of the river systems impacted by Frances were still well above normal stage when Jeanne occurred, which exacerbated flood conditions caused by Hurricane Jeanne.



**Figure 3: Hurricane Jeanne Rainfall**

An initial review of the affected areas within the State of Florida was completed on October 11, 2004. The purpose of the review was: (1) to determine areas that were flooding and/or areas that were predicted to flood due to Hurricane Jeanne; (2) to develop a plan for the collection of RHWm data that would adequately cover the affected areas; and (3) to develop the Work Plan that was submitted to FEMA (for approval), detailing the scope of work, schedule, personnel requirements, and budget. The following discussion describes in detail the assessment conducted to determine critical flood areas (Area of Study) and the locations of required RHWms.

The critical flood assessment was conducted based upon data from several sources, which were used to prioritize flood locations with respect to severity and timing. Data sources used in this assessment included:

- State of Florida, Department of Community Affairs,
- Florida Water Management Districts (WMDs) – prioritized flood locations,
- National Weather Service (NWS) Southeast River Forecast Center (SRFC), Advanced Hydrologic Prediction Services (online) – observed and forecast stage hydrographs,
- U.S. Geological Survey (USGS) (online) – real-time and historical streamflow (gage) data, and
- Local media reports.

Each of the five WMDs in Florida was solicited for information regarding flooding due to Hurricane Jeanne. Two of the WMDs, Suwannee River and Southwest Florida Water Management Districts, provided prioritized lists of river systems that were experiencing flooding. The NWS' SRFC online resource was used in conjunction with the WMD data, USGS online data, local media reports of flooding, and direct knowledge of Florida's river systems to determine which river systems were experiencing flooding and, where possible, to determine specific areas, severity, and timing of that flooding. As part of this planning effort, consideration was given to the possible effects that Hurricane Frances-related flooding might have on Hurricane Jeanne water levels and data collection efforts.

Table 1 is a summary of the USGS and NWS stream gage stations within the study area. Many of these gages are used by the NWS SRFC to acquire real-time stream data and to predict flood peak and timing at these locations. Table 1 presents information on flood stage at each location as well as the maximum measured or predicted stage and timing at the station.

Information regarding the location and nature of flooding described above was plotted on maps to select RHWm locations within and adjacent to critical flood areas. Maps with the selected locations were reproduced for use by field personnel (flaggers).

The Area of Study covered as part of the Hurricane Jeanne RHWm assessment stretches from Lake Okeechobee in South Florida to an area just east of the City of Tallahassee in North Florida. The Area of Study comprises 16 river systems. Table 2 presents a summary by river system of the number of RHWms collected as part of this Task Order. The Area of Study is located within 21 counties, which are presented in Table 3 along with the number of RHWms within each county. As shown, a total of 76 RHWms were located.

**Table 1: USGS and NWS Gage Stations Within the Study Area**

<b>Gage ID No.</b>	<b>Gage Location</b>	<b>Flood Stage <sup>(1)</sup> (ft-gage)</b>	<b>Max. Stage <sup>(2)</sup> (ft-gage)</b>	<b>Date Max. Stage</b>	<b>Lat. (NAD 27*)</b>	<b>Long. (NAD 27)</b>
02256500	Fisheating Creek at Palmdale	7	8.24	09/29/04	26°55'56"	81°18'54"
02303000	Hillsborough River nr. Zephyrhills	10	12.94	9/28/2004	28°08'59"	82°13'57"
02299950	Manatee River at Myakka Head	11	14.07	09/27/04	27°28'24"	82°12'41"
02300500	Little Manatee River at Wimauma	11	14.37	09/28/04	27°40'15"	82°21'10"
02301500	Alafia River at Lithia	13	18.88	9/28/2004	27°52'19"	82°12'41"
02310000	Anclote River at Elfers	20	19.53	9/29/2004	28°12'50"	82°40'00"
02313000	Withlacoochee River at Holder	8	11.2	10/13/04	28°59'19"	82°20'59"
02295637	Peace River at Zolfo Springs	16	21.09	9/29/2004	27°30'15"	81°48'04"
02313200	Withlacoochee River at Dunnellon	29	30.11	10/07/04	29°02'45"	82°27'53"
LIK1 <sup>(3)</sup>	Suwannee River near Suwannee Springs	67	71.3 <sup>(4)</sup>	10/06/04	30°23'34"	82°56'00"
02319500	Suwannee River at Ellaville	26.78	29.62	10/08/04	30°23'04"	83°10'19"
02312000	Withlacoochee River at Trilby	12	16.43	10/5/2004	28°28'47"	82°10'40"
02294650	Peace River at Bartow	8	10.83	9/30/2004	27°13'19"	81°52'34"
02322800	Santa Fe River near Hildreth	21	22.5	10/12/04	29°54'41"	82°51'38"
02298830	Myakka River near Sarasota, FL	7	8.49	10/11/2004	27°14'25"	82°18'50"
02312500	Withlacoochee River at Croom	9	11.59	9/30/2004	28°35'33"	82°13'20"
02322500	Santa Fe River near Fort White	3.14	8.89	10/2/2004	29°50'55"	82°42'55"
LAM1 <sup>(3)</sup>	Aucilla River at Lamont	9	10.88 <sup>(4)</sup>	9/11/2004	30°22'11"	83°48'25"
02323500	Suwannee River near Wilcox	14	14.29	10/16/04	29°35'22"	82°56'12"
02234500	St. Johns River near Sanford	5.8	7.48	10/7/2004	28°50'16"	81°19'28"
02315500	Suwannee River at White Springs	77	84.01	10/4/2004	30°19'32"	82°44'18"
02234000	St. Johns River above Lake Harney	8.5	10.07	10/2/2004	28°42'50"	81°02'08"
02320500	Suwannee River at Branford	24.19	25.56	10/12/04	29°57'20"	82°55'40"
02236000	St. Johns River near Deland	4.2	5.08	10/7/2004	29°00'29"	81°22'58"
TREF1 <sup>(3)</sup>	Santa Fe River at Three Rivers Estates	19	25.79 <sup>(4)</sup>	10/13/04	---	---

\* NAD 27 = North American Datum of 1927

(1) Flood Stage from NWS-SRFC Advanced Hydrologic Prediction Service website (<http://www.srh.noaa.gov/serfc/ahps/>).

(2) Max Stage from USGS website (<http://waterdata.usgs.gov/fl/nwis/>), except where noted. Values represent actual maximum stage taken from historical data following the flood event.

(3) NWS gage.

(4) Max. Stage from NWS-SRFC Advanced Hydrologic Prediction Service website.

**Table 2: Number of RHWL Locations by River System**

<b>River System</b>	<b>Number of RHWLs</b>
Anclote River	1
Aucilla River	2
Cannon Creek	2
Fisheating Creek	1
Hillsborough River	1
Myakka River	2
New River	2
Olustee Creek	1
Peace Creek Canal	7
Peace River	6
Rose Creek	2
Saddle Creek	4
Santa Fe River	7
St. John's River	15
Suwannee River	11
Withlacoochee River	12
<b>Total</b>	<b>76</b>

**Table 3: Number of RHWL Locations by County**

<b>County</b>	<b>Number of RHWLs</b>
Brevard	2
Citrus	3
Columbia	11
Dixie	1
Gilchrist	3
Glades	1
Hamilton	3
Hardee	2
Hernando	5
Jefferson	2
Levy	1
Madison	1
Marion	2
Pasco	2
Polk	15
Sarasota	2
Seminole	9
Sumter	2
Suwannee	2
Union	3
Volusia	4
<b>Total</b>	<b>76</b>

## MARKING AND SURVEY METHODOLOGY

The critical flood assessment described above resulted in the selection of a number of RHWMs (76) within the Area of Study and a prioritization of those points with respect to severity and timing. This information was used to develop a field program for the collection of data in the critical flood areas. Areas where flooding was most severe or where peak flood stage had most recently occurred were scheduled first for data collection, then areas with less severe flooding or where peak flood stage was forecast at a future time were scheduled next.

Hurricane Jeanne RHWm data collection was complicated by Hurricane Frances, which occurred only three weeks prior. Given the nature of Florida's hydrology, many of the rivers included in the study area, particularly the larger inland systems, were still experiencing elevated flows and levels from Frances at the time field work for Hurricane Jeanne was conducted. In certain geographic regions of the State, Hurricane Jeanne produced more precipitation than Frances did. Thus, higher river crest elevations were experienced in these areas due to Jeanne. The higher river crests had the potential to damage the markers placed for Frances and to erase or disrupt its flooding evidence. Field crews were made aware of this situation and instructed to take extra care in defining the high water marks for Jeanne.

Flagging crews from URS were dispatched to perform reconnaissance of the affected areas and flag RHWMs. Flaggers identified areas of concern in addition to the prescribed RHWm locations by speaking with residents and witnesses of the flood. Figure 4 is a sample flagger data collection form used for each RHWm. As part of the data collection effort, hand-held static global positioning system (GPS) units were used to determine preliminary coordinates (latitude and longitude) at each of the RHWm locations.

The flaggers' data was reviewed for accuracy and compiled into a concise format for use in the survey program. This effort included the development of a map showing the location and identification of each of the RHWMs and supporting tabular data. The RHWm locations were based on GPS data acquired as part of the field program. This information was supplied to the surveyor to facilitate implementation of the survey program.

The survey program was conducted by URS subconsultant, PBS&J, of Orlando, Florida. The field survey was conducted using static GPS methods to acquire more accurate horizontal location and elevation data for each of the RHWMs. Figure 5 is a sample of the surveyors' data form used to record field information. Since static GPS requires an area with no tree cover to return an accurate result, in some cases it was necessary perform a short level loop survey from the GPS point to the RHWm. Wherever possible, finished floor elevations of structures adjacent to the RHWm were collected. This information may be used later for possible damage assessments or HMGP applications. RHWm locations were surveyed horizontally in North American Datum of 1983 (NAD 83), State Plane feet, and vertically in North American Vertical Datum of 1988 (NAVD 88) US survey feet. RHWm locations have been surveyed to within accuracies of 0.25 foot vertically and 10 feet horizontally with a 95% confidence level.

**Figure 4: Sample RHWL Flagger Form****HIGH WATER MARK (HWM) REPORT - FLAGGERS**

<b>Page 1</b>	
HWM ID	
Stream Name	
Unit Number	
Name of Crew / Interviewer	
Company	
Date of flagging / Interview	
Date of flood event	
Name of storm event	
Address of HWM	
Location / Description of Mark	
Vertical Distance from set point & description of set point	
HWM Object	
Type of Mark	
Type of HWM	
HWM Quality	
Flood Type	
City	
County	
State	
Witness Information:	Name:  Address:  Telephone Number  How long lived there:  Obtained permission to survey?

<b>Page 2</b>	
HWM ID (from first page)	
Photo ID	
Photo Location / Orientation	
Photo Description / Subject	
Flagger HWM Latitude	
Flagger HWM Longitude	
Comments	

**Figure 5: High Water Mark (HWM) Report - Surveyor**

HWM ID	
ADDRESS OF HWM	
Survey Date	
Surveyors	
Company	
Survey Accuracy (1)	
Projection	
Vertical Datum	NAVD 88
Horizontal Datum	NAD 83
Easting	
Northing	
HWM Elevation (2)	
First Floor Elevation (based on measurement from HWM)	

- (1) Indicate survey method / equipment (since different equipment / methods have different accuracy)  
(2) Note that the HWM is the line at the bottom of the tape or paint

## ELEVATION CONVERSION FROM NAVD 88 TO NGVD 29 USING VERTCON

All of the elevations acquired as part of this survey are in the latest NAVD 88 datum. Elevations reported in National Geodetic Vertical Datum of 1929 (NGVD 29) were derived using the VERTCON program with the NAVD 88 elevations as input. The VERTCON software was developed by the National Geodetic Survey (NGS) Office to convert data between different vertical data scales. VERTCON is available as an element of the NGS Geodetic Toolkit and can be downloaded from the NGS website: <http://www.ngs.noaa.gov/TOOLS/Vertcon/vertcon.html>.

VERTCON allows the user to compute the modeled difference in orthometric height for a given location specified by its latitude and longitude. Applying the VERTCON datum difference value to a specific elevation converts from one datum to another.

The following example illustrates how elevation data are converted from the NAVD 1988 datum to elevations in the NGVD 1929 datum. A point with an elevation of 5.33 feet NAVD along with its associated latitude and longitude are selected for use in this example. Using the associated latitude and longitude coordinates, VERTCON computes a datum shift of (-)1.171 feet. To convert to the NGVD 29 elevation, the datum shift is applied to the elevation in NAVD 1988 as follows: Elevation 5.33 feet NAVD minus (-)1.171 feet = elevation 6.50 feet NGVD.

## FINDINGS AND OBSERVATIONS

Results of the RHWM data collection and associated land survey conducted under this task order are presented in appendices as part of this report. The RHWM information is presented by county in individual appendices, including a map illustrating the location and identification of the RHWM data points and RHWM data forms.

As described in the “Area of Study” section of this report, 76 RHWM points within 21 counties were flagged and surveyed. The surveyors located the data points and acquired a RHWM elevation for each location.

**RECOMMENDATIONS**

The following are recommendations of how FEMA can use the RHWL information to assist in the recovery effort from Hurricane Jeanne:

- Compare the Hurricane Jeanne RHWLs to the flood elevation data on the effective or preliminary Flood Insurance Rate Maps. These comparisons can help FEMA determine where the updated flood hazard data were supported by the flooding that occurred or where new detailed studies should be performed to update the maps, which can help illustrate deficiencies on the existing maps.
- Perform an evaluation of the recurrence interval of riverine flooding within the Area of Study.
- Compare the Jeanne RHWLs to those from other significant flood events. This will identify areas of repetitive flooding and assist FEMA in determining locations that would make good flood mitigation projects.
- Complete detail-engineering analysis to determine flood elevations in the areas where deficiencies have been identified on the existing FEMA maps, or on areas where property loss occurred where no previous studies have been prepared.
- Use information on the severity of flooding from the Jeanne RHWLs to help identify areas of concern for future FEMA mitigation projects when funding for such projects becomes available.
- Use the RHWLs to evaluate the performance of completed mitigation projects. The flood depths that occurred during Jeanne can be used to estimate potential damage that would have occurred to structures that were removed as part of previously completed mitigation projects. Documentation of the benefits incurred (damages avoided) can be used to support future mitigation efforts.
- Use the RHWLs to create inundation maps for Hurricane Jeanne. The maps can be delineated on best available base maps. If LIDAR maps were available for this task, the inundation maps would be a spatially correct GIS coverage that can be provided to community officials to assist in disaster recovery.
- Make this report available on the Internet to aid public officials and the community in the flood damage evaluation and recovery effort.

**APPENDICES**

**Appendix A: Brevard County Data Sheets and Location Map**

**BREVARD COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks

-  High Water Marks
-  Limited Access Highway
-  US Highway
-  State Highway
-  Railroads
-  Streams
-  Water Bodies
-  Municipal Areas
-  County Boundary

  
**NOT TO SCALE**  
Date: 01-10-05

 **FEMA**

Due to the scale, High Water Marks may appear coincident.



H:\projects\15702334 - Hurricane Riverine\_High\_Water\_Mark\Applications\leanne\_Portrait.mxd



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12009C0350E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Brev-1

**HWM ID:** 5\_SJR-11      **Type of Mark:** Nail/spray paint line  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 14.9 ft.      **NGVD 29:** 16.2 ft.      **HWM Object:** Wooden fence post  
**Flooding Type:** Hurricane  
**HWM Address:** John Wright Rec. Area - SR 520 bridge of St. Johns River  
**Location of HWM Object:** From I-95 S. bound at Cocoa take SR 520 W. bound - enter John Wright Rec. Area N. of Hwy just before bridge - marker is on fence post NW of pkg lot - just W. of green bench.  
**HWM Type:** Water/mud line  
**Closest Municipality:** Cocoa      **County:** Brevard      **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR      **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA EAST (0901)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 212597      **Easting (feet):** 697497  
**Survey Latitude:** 28.37183      **Northing (Meters):** 447420      **Northing (feet):** 1467911  
**Survey Longitude:** 80.87148      **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-11\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12009C0500E **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Brev-2

**HWM ID:** 5\_SJR-12 **Type of Mark:** Measurement on yard stick  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 17.3 ft. **NGVD 29:** 18.6 ft. **HWM Object:** Yard stick attached to stair railing  
**Flooding Type:** Hurricane  
**HWM Address:** Camp Holly - 6901 US 192  
**Location of HWM Object:** From I-95 S. bound at Melbourne take US 192 W. bound - enter Camp Holly just past bridge over St. Johns River - marker is on left railing of stairway at entrance of Camp Holly main bldg.  
**HWM Type:** Personal account  
**Closest Municipality:** Melbourne **County:** Brevard **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/20/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA EAST (0901) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.08500 **Easting (Meters):** 224288 **Easting (feet):** 735851  
**Survey Longitude:** 80.75287 **Northing (Meters):** 415653 **Northing (feet):** 1363689  
**Approx. First Floor Elevation:** 18.8

**Comments:**

Dan mentioned there is survey base point on property.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-12\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix B: Citrus County Data Sheets and Location Map**

# CITRUS COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks

 **NOT TO SCALE**  
Date: 01-10-05

 High Water Marks

 Limited Access Highway

 US Highway

 State Highway

 Railroads

 Streams

 Water Bodies

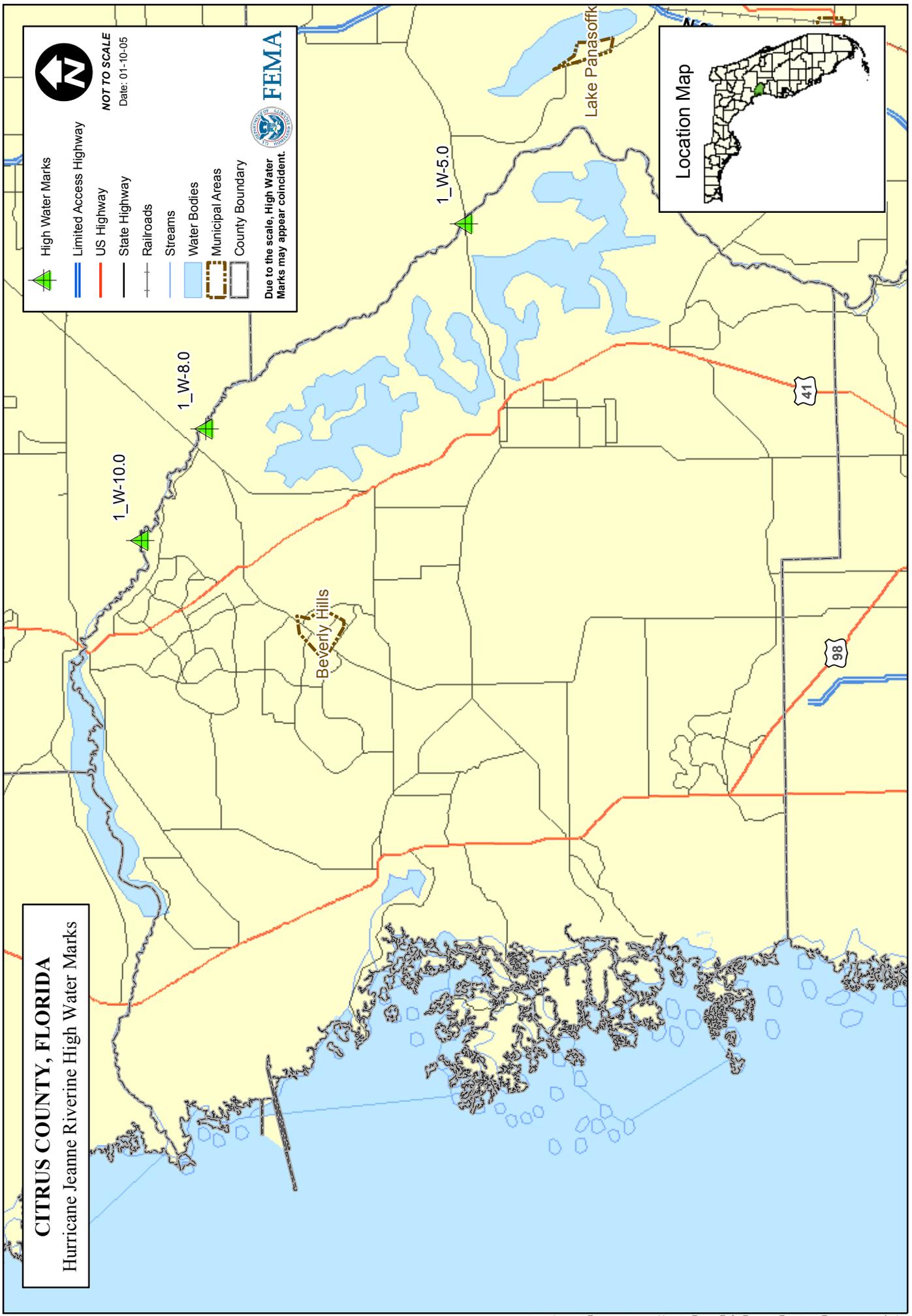
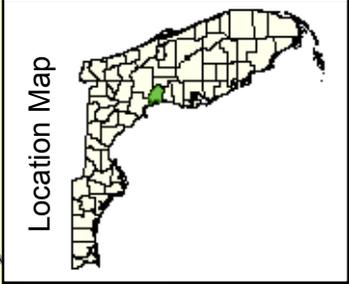
 Municipal Areas

 County Boundary

 **FEMA**



Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200630070B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Citr-1

<b>HWM ID</b>	1_W-10.0	<b>Type of Mark:</b>	Paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>34.1 ft.</b>	<b>NGVD 29:</b>	<b>34.9 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Survey stake
<b>HWM Address:</b>	10463 N. Silverlake Pt.		
<b>Location of HWM Object</b>	I-75 N. to SR 200 - go SW to W. Withlacoochee Trail, turn right - take right on Tall Pines Terrace, then an add'l right on Black Forest Rd. - follow down to Silverlake Pt. and make left.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Dunnellon	<b>County:</b>	Citrus
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/16/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	160770
		<b>Easting (feet):</b>	527459
<b>Survey Latitude:</b>	29.01645	<b>Northing (Meters):</b>	518920
		<b>Northing (feet):</b>	1702490
<b>Survey Longitude:</b>	82.40270	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

W-10.0

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200630300B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Citr-2

**HWM ID:** 1\_W-5.0 **Type of Mark:** Paint/flagging tape  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Withlacoochee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 40.4 ft. **NGVD 29:** 41.3 ft. **HWM Object:** Survey stake  
**Flooding Type:** Hurricane  
**HWM Address:** SR 44 north at Withlacoochee River Bridge  
**Location of HWM Object:** I-75 N. to SR 44 - go W. At intersection of Withlacoochee River on N. side of SR 44 is trailer park. Stake is located to E. side near the river.  
**HWM Type:** Water line  
**Closest Municipality:** Webster **County:** Citrus **State:** FL  
**Name of Flagger/Interviewer:** Shelly E. Brooks **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** MR, RL, BH **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.85176 **Easting (Meters):** 178180 **Easting (feet):** 584577  
**Survey Longitude:** 82.22363 **Northing (Meters):** 500621 **Northing (feet):** 1642456  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



W-5.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1204220250B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Citr-3

<b>HWM ID</b>	1_W-8.0	<b>Type of Mark:</b>	Nail/paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>37.9 ft.</b>	<b>NGVD 29:</b>	<b>38.8 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	River Road at Withlacoochee River Bridge		
<b>Location of HWM Object</b>	I-75 N. to SR 200 - go SW to Stokes Ferry Rd., turn left. Follow around until River Rd. HWM is on tree at bend in River Rd. just past Spoor Cr.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Hernando	<b>County:</b>	Citrus
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/16/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	166932
		<b>Easting (feet):</b>	547675
<b>Survey Latitude:</b>	28.98333	<b>Northing (Meters):</b>	515230
<b>Survey Longitude:</b>	82.33934	<b>Northing (feet):</b>	1690384
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-8.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix C: Columbia County Data Sheets and Location Map**

# COLUMBIA COUNTY, FLORIDA

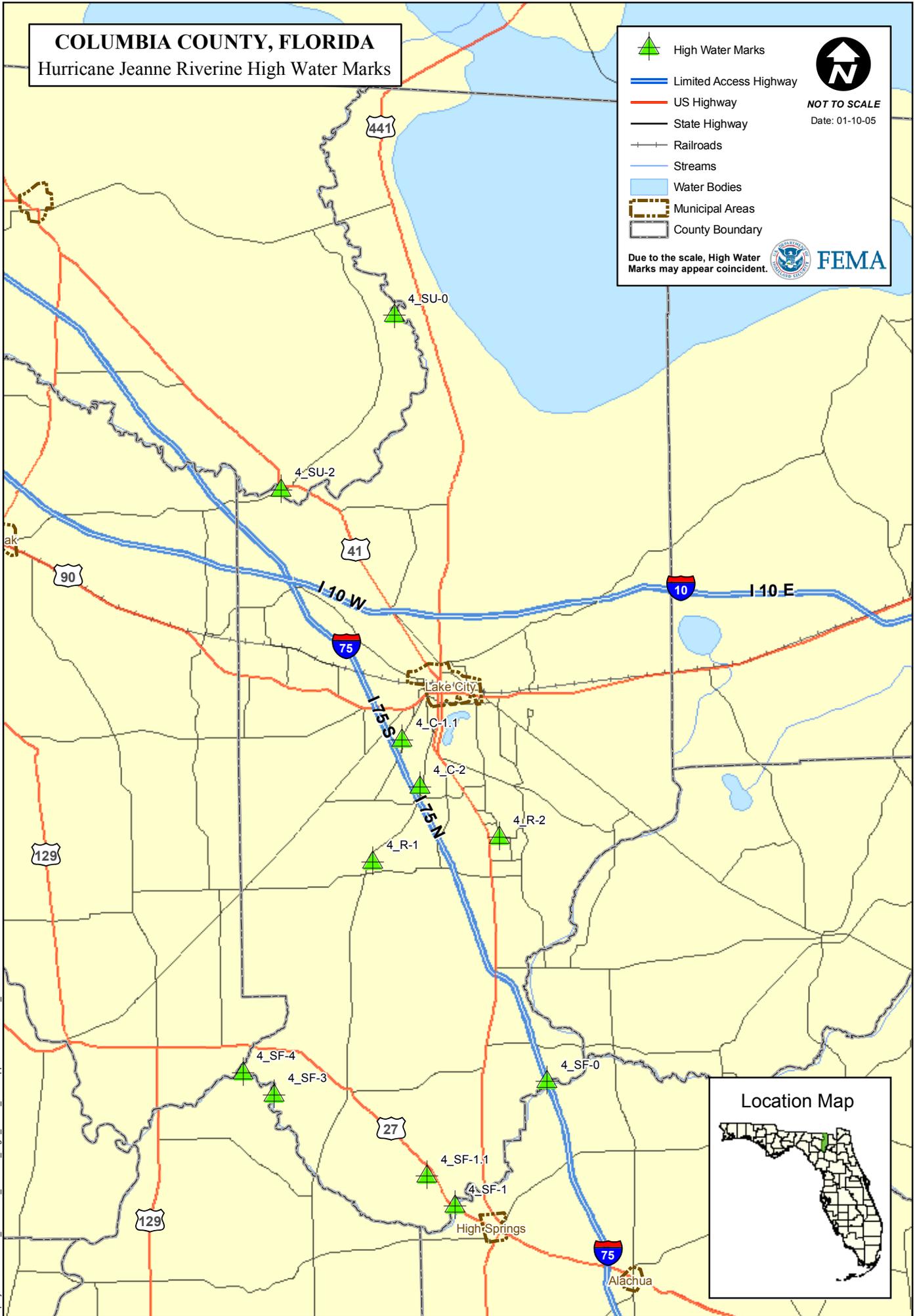
## Hurricane Jeanne Riverine High Water Marks

-  High Water Marks
-  Limited Access Highway
-  US Highway
-  State Highway
-  Railroads
-  Streams
-  Water Bodies
-  Municipal Areas
-  County Boundary

 **NOT TO SCALE**  
 Date: 01-10-05



Due to the scale, High Water Marks may appear coincident.



H:\projects\15702334 - Hurricane Riverine\_High\_Water\_Mark\Applications\leanne\_Portrait.mxd



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700175B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-1

**HWM ID:** 4\_C-1.1 **Type of Mark:** Ribbon tied around pole  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Cannon Creek **Quality of Mark:** Fair  
**Survey Elevation (NAVD 88):** 125.6 ft. **NGVD 29:** 126.4 ft. **HWM Object:** Fence Pole  
**Flooding Type:** Hurricane  
**HWM Address:** Intersection of SW Sisters Welcome Rd. & Boone Gln  
**Location of HWM Object:** From I-75; N. on CR 47 to left on Business Ppoint Dr. to rt. on SW Sisters Welcome Rd. to left on Boone Gln; marker is on fence post corner at intersection of rds.  
**HWM Type:** Water line/debris on pole  
**Closest Municipality:** Lake City **County:** Columbia **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 12/9/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 30.15828 **Easting (Meters):** 776458 **Easting (feet):** 2547428  
**Survey Longitude:** 82.66808 **Northing (Meters):** 129810 **Northing (feet):** 425886  
**Approx. First Floor Elevation:** 130.0

**Comments:**

Could not locate C-1 site. Could not tell if mark was from Frances or Jeanne.



C-1.1\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700175B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-2

**HWM ID:** 4\_C-2 **Type of Mark:** Stake/paint  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Cannon Creek **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 76.0 ft. **NGVD 29:** 76.9 ft. **HWM Object:** Survey stake  
**Flooding Type:** Hurricane  
**HWM Address:** Buisness Point Dr. at Cannon Creek Bridge  
**Location of HWM Object:** From I-75 to N. on SW SR 47 to left on Business Point Dr.; creek is approx. 70 yds from turn; mark is on left (N.) side of rd. next to creek concrete headwall.  
**HWM Type:** Debris line  
**Closest Municipality:** Lake City **County:** Columbia **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 12/9/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 30.12671 **Easting (Meters):** 777800 **Easting (feet):** 2551833  
**Survey Longitude:** 82.65472 **Northing (Meters):** 126332 **Northing (feet):** 414473  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**

Not positive mark is for Jeanne or Frances.



C-2\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700175B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Colu-3

<b>HWM ID</b>	4_R-1	<b>Type of Mark:</b>	Stake in ground
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Rose Creek	<b>Quality of Mark:</b>	Fair
<b>Survey Elevation (NAVD 88):</b>	55.1 ft.	<b>NGVD 29:</b>	55.9 ft.
<b>Survey Elevation (NAVD 88):</b>	55.1 ft.	<b>HWM Object:</b>	Stake
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	346 SW Brookwood Drive		
<b>Location of HWM Object</b>	North on CR 47 to rt. on Brookwood Dr.; residence 346 SW Brookwood Dr. is on rt. after crossing Rose Creek; Frances mark is on residence free standing garage - rt. side of garage door; Jeanne mark is in woods to rt. of driveway and marked with flags in trees & paint.		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Lake City	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/10/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	774319
		<b>Easting (feet):</b>	2540411
<b>Survey Latitude:</b>	30.07655	<b>Northing (Meters):</b>	120715
		<b>Northing (feet):</b>	396047
<b>Survey Longitude:</b>	82.69177	<b>Approx. First Floor Elevation:</b>	53.7

**Comments:**

Witness showed me both marks; Frances mark was much better (water line inside garage was visible).



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

R-1\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700200B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-4

<b>HWM ID</b>	4_R-2	<b>Type of Mark:</b>	Stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Rose Creek	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	95.9 ft.	<b>NGVD 29:</b>	96.7 ft.
<b>Survey Elevation (NAVD 88):</b>	95.9 ft.	<b>HWM Object:</b>	Ground
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	7113 SE Country Club Rd.		
<b>Location of HWM Object</b>	Southeast on CR 245 to rt. on SE Hopeful Dr. to rt. on SE April Lane to rt. on SE Country Club Rd. - mark is on edge of rd. approx. 50 yds from intersection (turn); pavement is marked with paint at mark.		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Lake City	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/8/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	783777
		<b>Easting (feet):</b>	2571442
<b>Survey Latitude:</b>	30.09223	<b>Northing (Meters):</b>	122607
		<b>Northing (feet):</b>	402254
<b>Survey Longitude:</b>	82.59335	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Woman said previous mark on residences mailbox was higher (from Frances) than during Jeanne. Note, previous mark was still there on mailbox. Witness said water did cross road but wasn't as high as during Frances.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

R-2\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700280B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-5

<b>HWM ID</b>	4_SF-0	<b>Type of Mark:</b>	Stake/paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Santa Fe River	<b>Quality of Mark:</b>	Fair
<b>Survey Elevation (NAVD 88):</b>	<b>47.5 ft.</b>	<b>NGVD 29:</b>	<b>48.3 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Ground
<b>HWM Address:</b>	I-75 at Santa Fe River Bridge		
<b>Location of HWM Object</b>	South I-75 to bridge; cross bridge over Santa Fe; marker is located on W. side (rt) of I-75 approx. 50 ft. W. down embankment off of SW corner of bridge.		
<b>HWM Type:</b>	Debris/bent grass line		
<b>Closest Municipality:</b>	High Springs	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/8/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	787434
		<b>Easting (feet):</b>	2583441
<b>Survey Latitude:</b>	29.92722	<b>Northing (Meters):</b>	104375
		<b>Northing (feet):</b>	342438
<b>Survey Longitude:</b>	82.55864	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Located 50 ft. W. of SW corner of bridge.



SF-0\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700270B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Colu-6

<b>HWM ID</b>	4_SF-1	<b>Type of Mark:</b>	Stake		
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004		
<b>Stream Name/Flood Source:</b>	Santa Fe River	<b>Quality of Mark:</b>	Good		
<b>Survey Elevation (NAVD 88):</b>	36.8 ft.	<b>NGVD 29:</b>	37.6 ft.	<b>HWM Object:</b>	Ground
<b>Flooding Type:</b>	Hurricane				
<b>HWM Address:</b>	US 27 at Santa Fe River Bridge				
<b>Location of HWM Object</b>	From High Springs, N. on US 27 to bridge over Santa Fe River, cross bridge; marker is at boat ramp located NE of bridge; on N. side of boat ramp approx. 25 yds from parking lot.				
<b>HWM Type:</b>	Debris line				
<b>Closest Municipality:</b>	High Springs	<b>County:</b>	Columbia	<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation		
<b>Date of Flagging/Interview:</b>	10/15/04				
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J		
<b>Survey Date:</b>	12/29/04				
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88	<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	780599	<b>Easting (feet):</b>	2561015
<b>Survey Latitude:</b>	29.84418	<b>Northing (Meters):</b>	95056	<b>Northing (feet):</b>	311862
<b>Survey Longitude:</b>	82.63100	<b>Approx. First Floor Elevation:</b>	Not Applicable		

**Comments:**

Located approx. 6' 10" N. of tree and 2" W. of tree. Tree is dead and cut off at approx. 20' high.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SF-1\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700270B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-7

<b>HWM ID</b>	4_SF-1.1	<b>Type of Mark:</b>	Stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Santa Fe River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	37.1 ft.	<b>NGVD 29:</b>	37.8 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Stake
<b>HWM Address:</b>	720 Bobcat Rd.		
<b>Location of HWM Object</b>	High Springs N. on US 27 to left on CR 138 to 1st rt on Bobcat Rd.; follow rd to low pt. & sharp rt turn up hill; marker is located on left (S) side of rd just before hill		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	High Springs	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/30/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	778504
		<b>Easting (feet):</b>	2554143
<b>Survey Latitude:</b>	29.86462	<b>Northing (Meters):</b>	97287
		<b>Northing (feet):</b>	319182
<b>Survey Longitude:</b>	82.65230	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Witness said a spring had started to flow that hasn't flowed since the 1960's and was flooding Bobcat Rd. Witness said water appears to be still rising.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SF-1.1\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700255B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-8

**HWM ID:** 4\_SF-3 **Type of Mark:** Nail/ribbon  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Santa Fe River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 25.9 ft. **NGVD 29:** 26.7 ft. **HWM Object:** Lattice on house  
**Flooding Type:** Hurricane  
**HWM Address:** 598 SW Manatee Terrace  
**Location of HWM Object:** From US 27 S. on Culleen to Ft. White - S. on SW Wilson Springs to rt. on SW Iowa Dr., rt. on Manatee, house on left.  
**HWM Type:** Water line  
**Closest Municipality:** Fort White **County:** Columbia **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04  
**Survey Crew:** SH, AL **Survey Company:** PBS&J  
**Survey Date:** 12/30/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 29.92043 **Easting (Meters):** 767035 **Easting (feet):** 2516513  
**Survey Longitude:** 82.77006 **Northing (Meters):** 103294 **Northing (feet):** 338891  
**Approx. First Floor Elevation:** 31.4

**Comments:**

Ben says he has all HWM's documented from previous floods.



SF-3\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700255B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Colu-9

<b>HWM ID</b>	4_SF-4	<b>Type of Mark:</b>	Ribbon
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Santa Fe River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	25.2 ft.	<b>NGVD 29:</b>	26.0 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	2497 SW Riverside Ave.		
<b>Location of HWM Object</b>	From Ft. White W. (N.) US 27 to left on SW Riverside Ave; follow to intersection of Riverside & Santa Fe; mark is on left (N.) approx. 10' from rd. and approx. 30 yds before stop sign; pink painted arrow on side of rd. pointing to marked tree.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Fort White	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	SH, AL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/29/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	764695
		<b>Easting (feet):</b>	2508836
<b>Survey Latitude:</b>	29.93538	<b>Northing (Meters):</b>	104917
		<b>Northing (feet):</b>	344215
<b>Survey Longitude:</b>	82.79404	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



SF-4\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700060B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-10

<b>HWM ID</b>	4_SU-0	<b>Type of Mark:</b>	Ribbon around tree
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Fair
<b>Survey Elevation (NAVD 88):</b>	<b>94.0 ft.</b>	<b>NGVD 29:</b>	<b>94.9 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	19118 SE 67 Pl.		
<b>Location of HWM Object</b>	North on CR 135 to rt. on SE 182th BL; cross bridge to rt. on SE 67 Pl. - turn left at utility pole with orange ribbon on it; marker is located behind cabin near the water (river).		
<b>HWM Type:</b>	Water mark		
<b>Closest Municipality:</b>	White Springs	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/29/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	775724
		<b>Easting (feet):</b>	2545020
<b>Survey Latitude:</b>	30.44426	<b>Northing (Meters):</b>	161504
<b>Survey Longitude:</b>	82.67042	<b>Northing (feet):</b>	529868
		<b>Approx. First Floor Elevation:</b>	100.7

**Comments:**

Mark may be from previous events to Jeanne; difficult to tell.



SU-0\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200700105B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Colu-11

<b>HWM ID</b>	4_SU-2	<b>Type of Mark:</b>	Paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>80.9 ft.</b>	<b>NGVD 29:</b>	<b>81.7 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Bridge embankment
<b>HWM Address:</b>	CR 136 at Suwannee River Bridge		
<b>Location of HWM Object</b>	From I-75; W. on CR 136 to bridge over Suwannee; marker is before bridge (W.) and on rt. (S.) on concrete embankment of bridge.		
<b>HWM Type:</b>	Debris/veg. line		
<b>Closest Municipality:</b>	White Springs	<b>County:</b>	Columbia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/13/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	767322
		<b>Easting (feet):</b>	2517455
<b>Survey Latitude:</b>	30.32770	<b>Northing (Meters):</b>	148449
<b>Survey Longitude:</b>	82.75995	<b>Northing (feet):</b>	487036
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

4'3" from line to bottom of concrete embankment. Hard to tell if mark was from recent (Jeanne flooding) or from past hurricanes.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SU-2\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

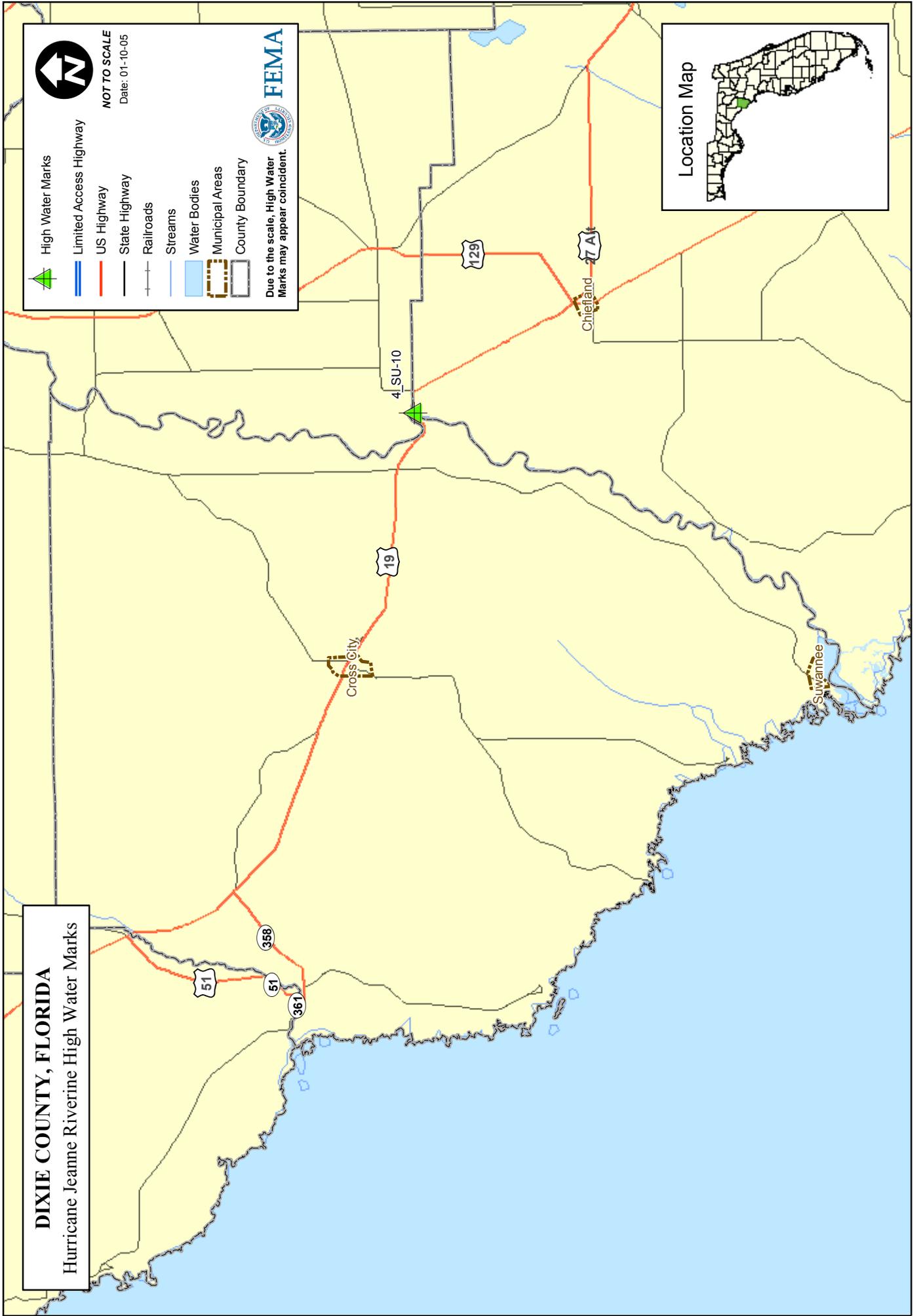
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix D: Dixie County Data Sheets and Location Map**

# DIXIE COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1203360330B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Dixi-1

<b>HWM ID</b>	4_SU-10	<b>Type of Mark:</b>	Nail & ribbon
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	13.4 ft.	<b>NGVD 29:</b>	14.1 ft.
<b>Survey Elevation (NAVD 88):</b>	13.4 ft.	<b>HWM Object:</b>	Fence post
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	SE 989 St.		
<b>Location of HWM Object</b>	From Fanning Springs headed W.; take US 19 Hwy W. across bridge over Suwannee River; take 1st rt. onto SE 989 St.; marker is on fence post on white fence approx. 80 yds on left after turn on SE 989 St.; also flagged a branch to help locate.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Fanning Springs	<b>County:</b>	Dixie
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	SH, AL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/27/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	751125
		<b>Easting (feet):</b>	2464316
<b>Survey Latitude:</b>	29.59019	<b>Northing (Meters):</b>	66455
		<b>Northing (feet):</b>	218028
<b>Survey Longitude:</b>	82.94003	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SU-10\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
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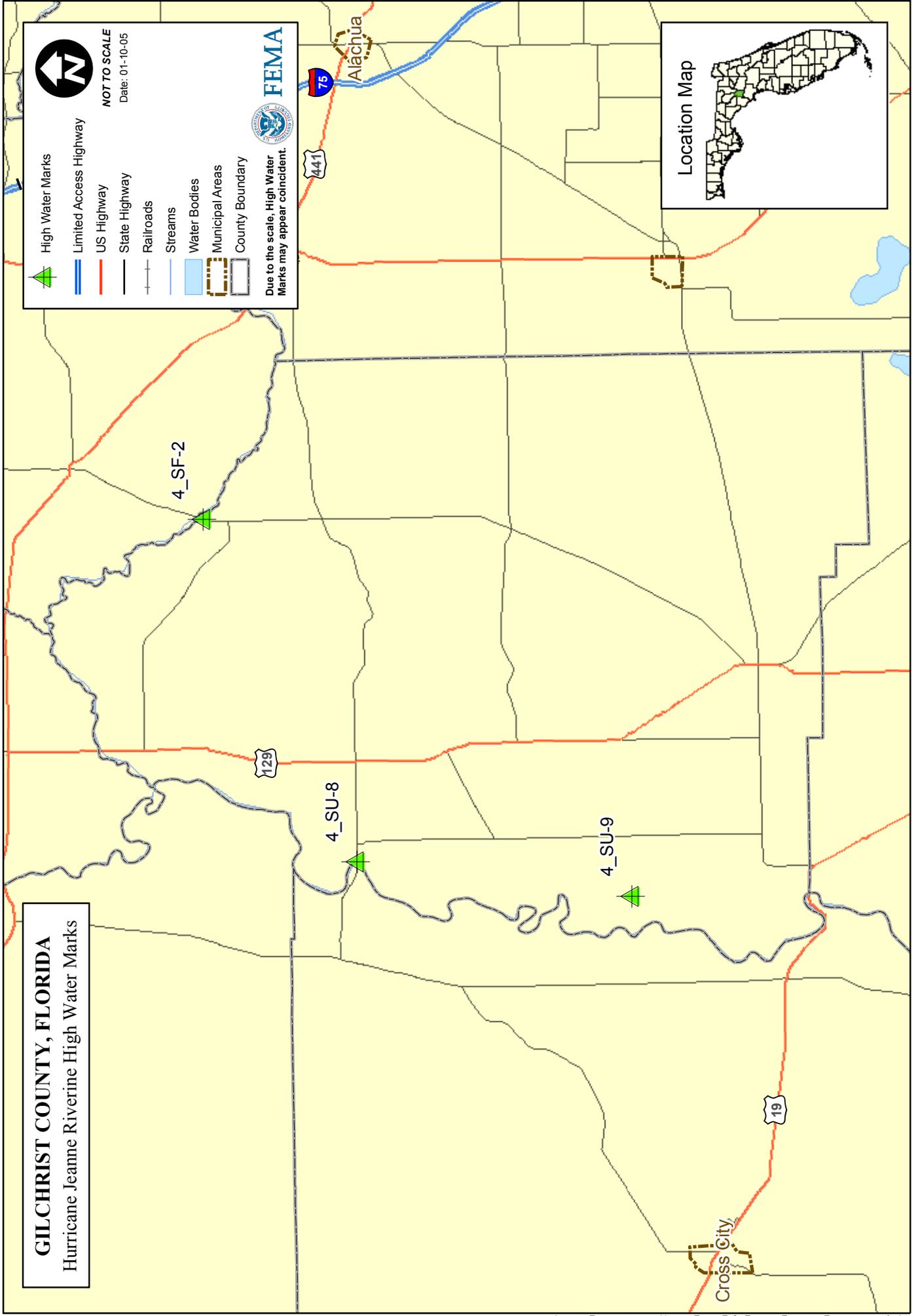
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix E: Gilchrist County Data Sheets and Location Map**

# GILCHRIST COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12041C0080C      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Gilc-1

**HWM ID:** 4\_SF-2      **Type of Mark:** Nail & tape  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Santa Fe River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 27.7 ft.      **NGVD 29:** 28.4 ft.      **HWM Object:** Wooden pole  
**Flooding Type:** Hurricane  
**HWM Address:** SR 47 at Santa Fe River Bridge  
**Location of HWM Object:** South on CR 47; cross bridge into Gilcrest Co; enter Santa Fe River Park on left; marker is located on 6th pole on rt. entering park (guard rail along rd. - marker on 2nd pole is from previous hurricane).  
**HWM Type:** Water line on guard rail pole  
**Closest Municipality:** High Springs      **County:** Gilchrist      **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04  
**Survey Crew:** GMB, CDR      **Survey Company:** PBS&J  
**Survey Date:** 12/30/04  
**Survey Projection:** FLORIDA NORTH (0903)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 770018      **Easting (feet):** 2526301  
**Survey Latitude:** 29.86345      **Northing (Meters):** 97024      **Northing (feet):** 318319  
**Survey Longitude:** 82.74017      **Approx. First Floor Elevation:** Not Applicable

**Comments:**

Previous marker still at site; do not confuse with new.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SF-2\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12041C0045C      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Gilc-2

<b>HWM ID</b>	4_SU-8	<b>Type of Mark:</b>	Stake/paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	21.8 ft. <b>NGVD 29:</b> 22.5 ft.	<b>HWM Object:</b>	Ground
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	NW 67 Terrace Rd.		
<b>Location of HWM Object</b>	US 129 N. to W. on CR 340 to left on NW 67 Terrace Rd. (just before bridge); marker is adjacent to boat ramp (public) on rt. side; approx. 20 yds down boat ramp.		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Rock Bluff Springs	<b>County:</b> Gilchrist	<b>State:</b> FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	SH, AL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/28/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b> NAVD 88	<b>Horizontal Datum:</b> NAD83(90)
		<b>Easting (Meters):</b> 752836	<b>Easting (feet):</b> 2469930
<b>Survey Latitude:</b>	29.79533	<b>Northing (Meters):</b> 89220	<b>Northing (feet):</b> 292717
<b>Survey Longitude:</b>	82.91911	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



SU-8\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12041C0120C      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Gilc-3

<b>HWM ID</b>	4_SU-9	<b>Type of Mark:</b>	Stake/paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	15.8 ft.	<b>NGVD 29:</b>	16.5 ft.
<b>Survey Elevation (NAVD 88):</b>	15.8 ft.	<b>HWM Object:</b>	Ground
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	7900 SW CR 344		
<b>Location of HWM Object</b>	From Fanning Springs CR 26 to N. on CR 232 to left (W.) on CR 344; marker is on left side of rd. directly across from residence fence/driveway entrance; marked on pavement also (arrow) 7900 SW CR 344 (O'Grady).		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Fanning Springs	<b>County:</b>	Gilchrist
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	SH, AL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/28/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	751163
		<b>Easting (feet):</b>	2464440
<b>Survey Latitude:</b>	29.67135	<b>Northing (Meters):</b>	75453
		<b>Northing (feet):</b>	247549
<b>Survey Longitude:</b>	82.93837	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SU-9\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

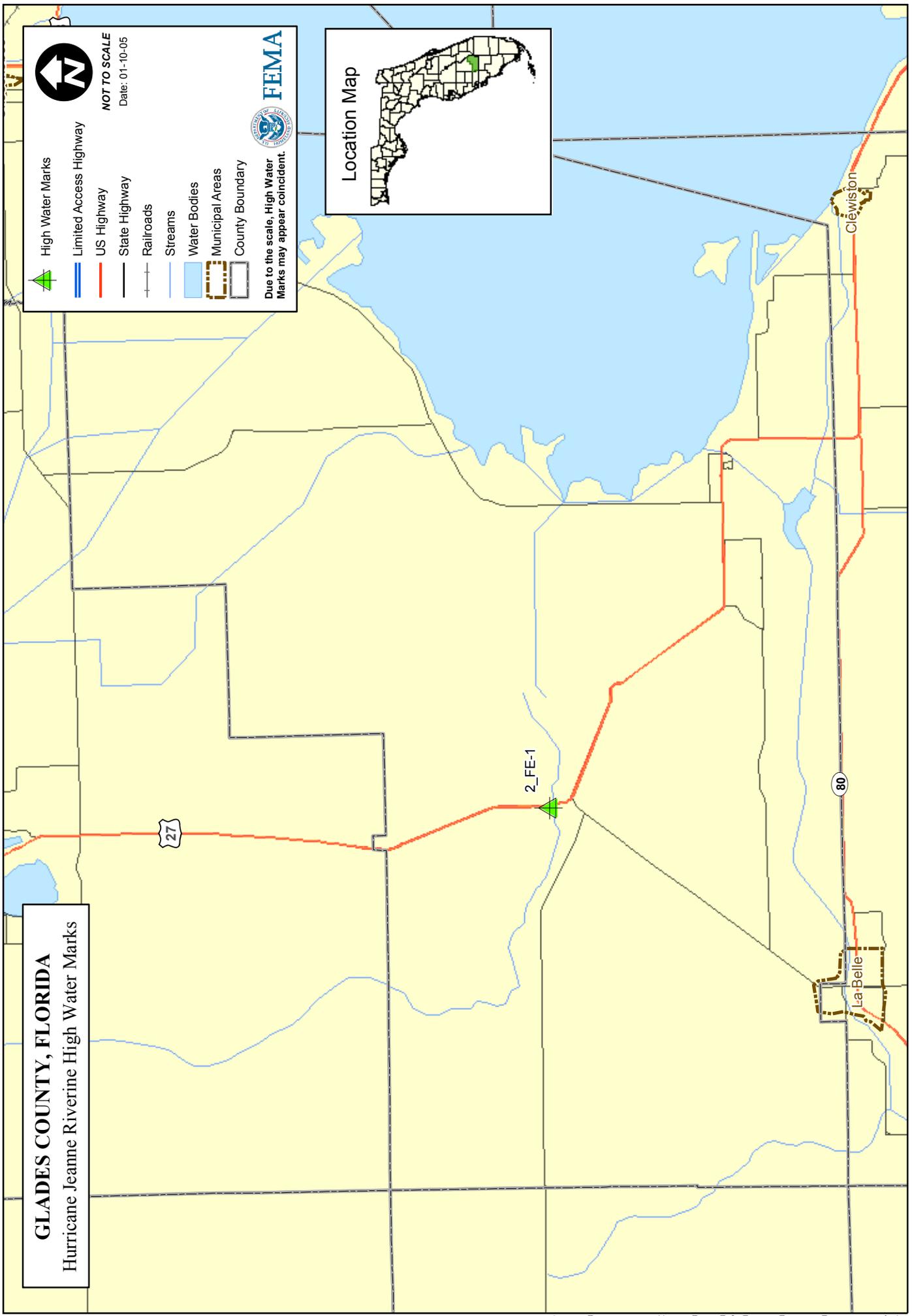
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix F: Glades County Data Sheets and Location Map**

# GLADES COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks

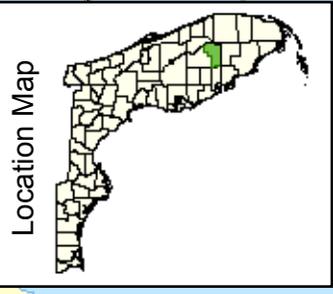


NOT TO SCALE  
Date: 01-10-05

- High Water Marks
- Limited Access Highway
- US Highway
- State Highway
- Railroads
- Streams
- Water Bodies
- Municipal Areas
- County Boundary



Due to the scale, High Water Marks may appear coincident.



Location Map

2\_FE-1

27

80

La Belle

Clewiston



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1200950200B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Glad-1

<b>HWM ID</b>	2_FE-1	<b>Type of Mark:</b>	Nail/orange paint/tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Fisheating Creek	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	35.1 ft.	<b>NGVD 29:</b>	36.2 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	Fisheating Creek Campground, near US 27 bridge		
<b>Location of HWM Object</b>	Enter campground off US 27 (N. of bridge) cross RR track - marker near camp store.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Palmdale	<b>County:</b>	Glades
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, JC, WR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/1/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	267745
		<b>Easting (feet):</b>	878428
<b>Survey Latitude:</b>	26.93727	<b>Northing (Meters):</b>	288637
		<b>Northing (feet):</b>	946968
<b>Survey Longitude:</b>	81.31781	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Contact stated that water level higher after Jeanne than after Frances.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

FE-1\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

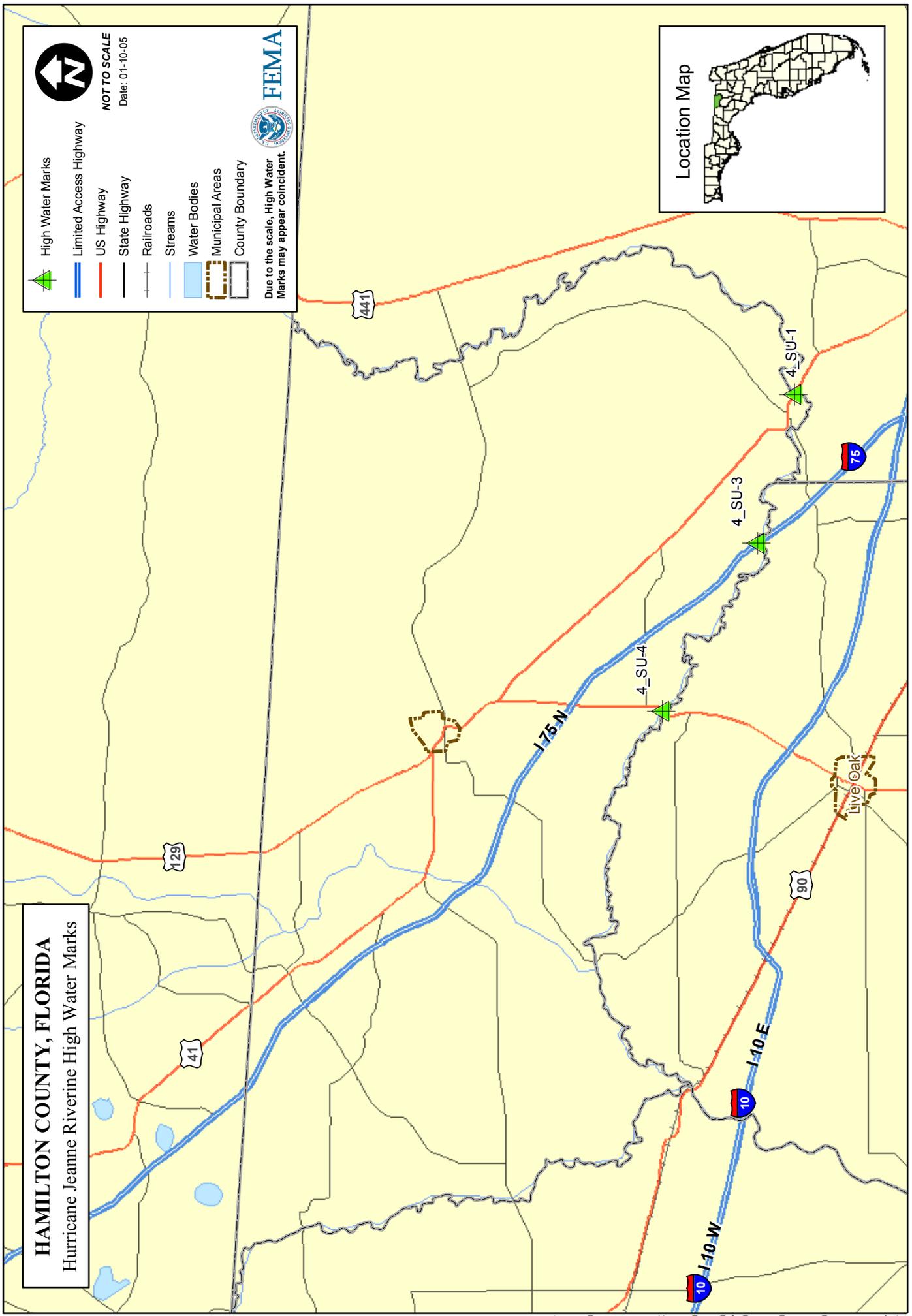
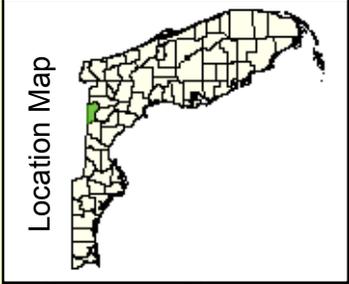
**Appendix G: Hamilton County Data Sheets and Location Map**

**HAMILTON COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks


  
**NOT TO SCALE**  
 Date: 01-10-05

 High Water Marks  
 Limited Access Highway  
 US Highway  
 State Highway  
 Railroads  
 Streams  
 Water Bodies  
 Municipal Areas  
 County Boundary


  
 Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12047C0280B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hami-1

**HWM ID:** 4\_SU-1 **Type of Mark:** Ribbon  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Suwannee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 74.9 ft. **NGVD 29:** 75.8 ft. **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** US 41 at Suwannee River Bridge  
**Location of HWM Object:** From White Springs; S. on US 41 to bridge; just before bridge take rt. into park/boat ramp; marker is located on rt. of boat ramp (where road v's).  
**HWM Type:** Water line  
**Closest Municipality:** White Springs **County:** Hamilton **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 12/13/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 769295 **Easting (feet):** 2523928  
**Survey Latitude:** 30.32606 **Northing (Meters):** 148298 **Northing (feet):** 486541  
**Survey Longitude:** 82.73946 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



SU-1\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12047C0260B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hami-2

**HWM ID:** 4\_SU-3 **Type of Mark:** Nail & ribbon  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Suwannee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 78.1 ft. **NGVD 29:** 78.8 ft. **HWM Object:** Wooden steps over fence  
**Flooding Type:** Hurricane  
**HWM Address:** I-75 at Suwannee River Bridge  
**Location of HWM Object:** White Springs to I-75 N. to bridge over Suwannee River; cross bridge; marker is on rt. (E.) of I-75 approx. 35 yds directly E. of N. bound I-75 bridge corner.  
**HWM Type:** Water line  
**Closest Municipality:** White Springs **County:** Hamilton **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 12/13/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 760297 **Easting (feet):** 2494409  
**Survey Latitude:** 30.34693 **Northing (Meters):** 150477 **Northing (feet):** 493689  
**Survey Longitude:** 82.83268 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



SU-3\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12047C0195B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Hami-3

**HWM ID:** 4\_SU-4      **Type of Mark:** Ribbon/paint line  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Suwannee River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 70.3 ft.      **NGVD 29:** 71.0 ft.      **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** US 129 at Suwannee River Bridge  
**Location of HWM Object:** From Live Oak; US 129 N. to Suwannee River Bridge; go across bridge & marker is on left side of bridge (NW corner); marker is down embankment of US 129 approx. 40 yds from corner of bridge.  
**HWM Type:** Water line  
**Closest Municipality:** Suwannee Springs      **County:** Hamilton      **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** GMB, CDR      **Survey Company:** PBS&J  
**Survey Date:** 12/14/04  
**Survey Projection:** FLORIDA NORTH (0903)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 750182      **Easting (feet):** 2461222  
**Survey Latitude:** 30.39919      **Northing (Meters):** 156127      **Northing (feet):** 512226  
**Survey Longitude:** 82.93708      **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



SU-4\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix H: Hardee County Data Sheets and Location Map**

# HARDEE COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks

 **NOT TO SCALE**  
Date: 01-10-05

 High Water Marks

 Limited Access Highway

 US Highway

 State Highway

 Railroads

 Streams

 Water Bodies

 Municipal Areas

 County Boundary

 **FEMA**



Due to the scale, High Water Marks may appear coincident.

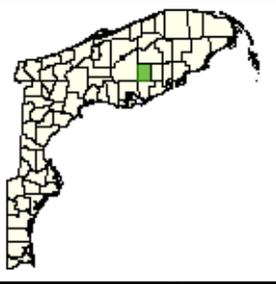
2\_PR-5

Wauchuja

2\_PR-6

17

Location Map





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12049C0195C      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Hard-1

<b>HWM ID</b>	2_PR-5	<b>Type of Mark:</b>	Nail/tape/stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	53.5 ft.	<b>NGVD 29:</b>	54.5 ft.
<b>Survey Elevation (NAVD 88):</b>	53.5 ft.	<b>HWM Object:</b>	Power pole
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	CR 636 at Peace River Bridge		
<b>Location of HWM Object</b>	CR 636 E. of town, N. of road at park - adj. to picnic shelters, S. of sliding board & restroom.		
<b>HWM Type:</b>	None Noted		
<b>Closest Municipality:</b>	Wauchula	<b>County:</b>	Hardee
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, JC	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/2/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	220275
		<b>Easting (feet):</b>	722685
<b>Survey Latitude:</b>	27.55101	<b>Northing (Meters):</b>	356474
<b>Survey Longitude:</b>	81.79471	<b>Northing (feet):</b>	1169532
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-5\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12049C0195C **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hard-2

**HWM ID:** 2\_PR-6 **Type of Mark:** Nail  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 50.5 ft. **NGVD 29:** 51.5 ft. **HWM Object:** 4"x4" post  
**Flooding Type:** Hurricane  
**HWM Address:** US 17 at Peace River Bridge  
**Location of HWM Object:** South of intersection of Gopher Lane & Main Rd. on reast side of road. Orange stake & flagging with nail in base of 4x4.  
**HWM Type:** Water line/interview with owner  
**Closest Municipality:** Zolfo Springs **County:** Hardee **State:** FL  
**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** MR, JC **Survey Company:** PBS&J  
**Survey Date:** 12/2/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 219732 **Easting (feet):** 720904  
**Survey Latitude:** 27.50554 **Northing (Meters):** 351434 **Northing (feet):** 1152996  
**Survey Longitude:** 81.80029 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
 Check in at office before proceeding.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-6\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

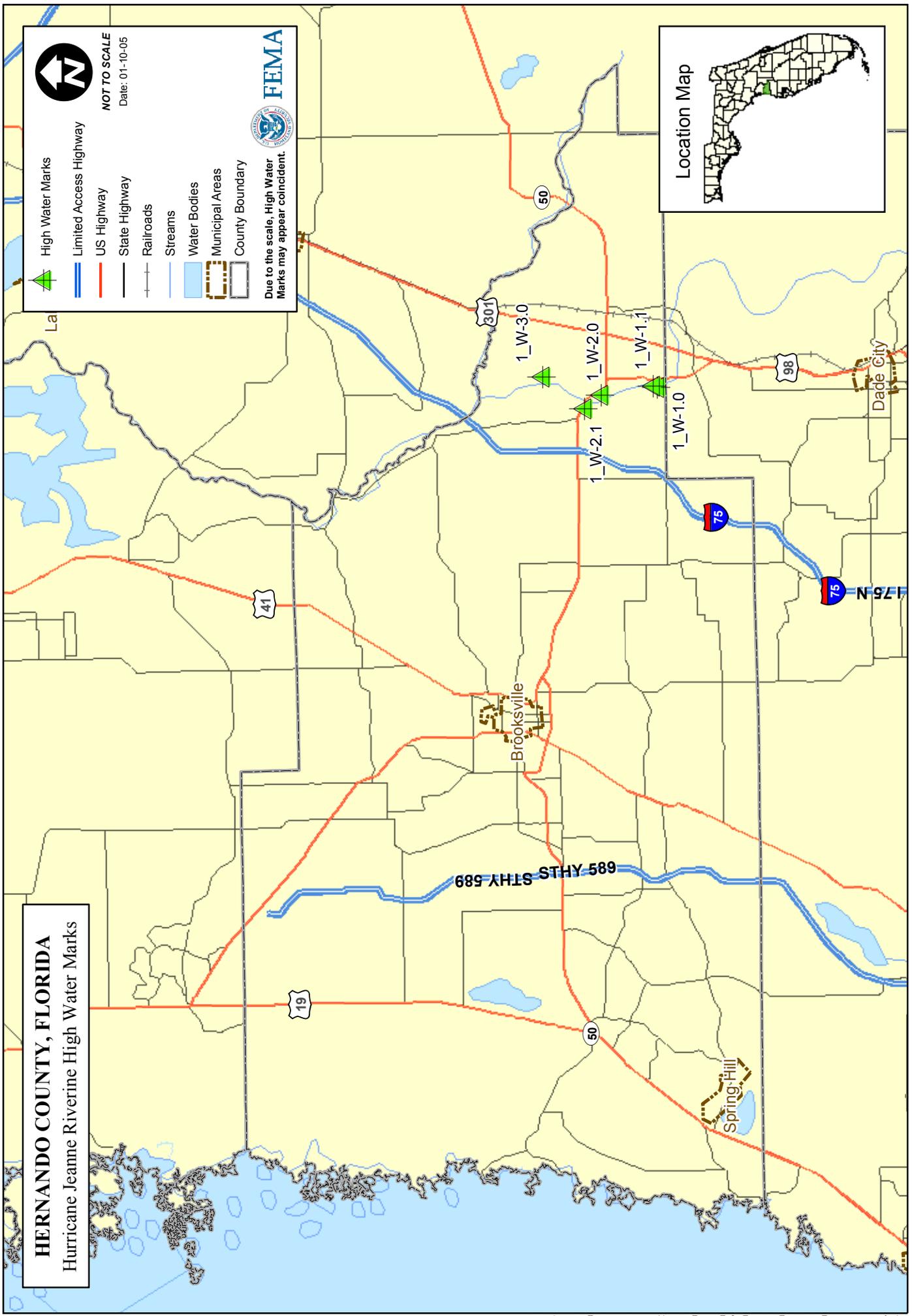
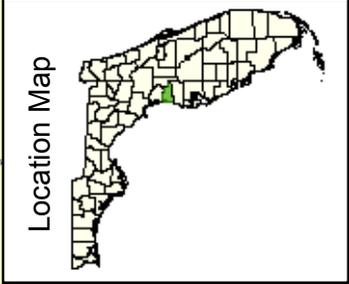
**Appendix I: Hernando County Data Sheets and Location Map**

**HERNANDO COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks


  
**NOT TO SCALE**  
 Date: 01-10-05

	High Water Marks
	Limited Access Highway
	US Highway
	State Highway
	Railroads
	Streams
	Water Bodies
	Municipal Areas
	County Boundary


  
 Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201100375B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hern-1

<b>HWM ID</b>	1_W-1.0	<b>Type of Mark:</b>	Paint on street sign
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>64.0 ft.</b>	<b>NGVD 29:</b>	<b>64.8 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Street sign
<b>HWM Address:</b>	3288 Park Dr.		
<b>Location of HWM Object</b>	US 98 S. to Paulette Blvd., turn right. Make 1st right and then left on Cedonia Rd. Take Cedonia Rd. to intersection of Cedonia and Park Dr.		
<b>HWM Type:</b>	Water/Mud line		
<b>Closest Municipality:</b>	Dade City	<b>County:</b>	Hernando
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/17/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	180322
		<b>Easting (feet):</b>	591606
<b>Survey Latitude:</b>	28.48230	<b>Northing (Meters):</b>	459673
<b>Survey Longitude:</b>	82.20097	<b>Northing (feet):</b>	1508109
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

W-1.0

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201100375B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Hern-2

**HWM ID:** 1\_W-1.1      **Type of Mark:** Nail/paint/flagging tape  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Withlacoochee River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 64.1 ft.      **NGVD 29:** 65.0 ft.      **HWM Object:** Power Pole  
**Flooding Type:** Hurricane  
**HWM Address:** 3383 Riderwood Dr.  
**Location of HWM Object:** US 98 S. to Paulette Blvd., turn right. Make 1st right and then left on Cedonia Rd. Take Cedonia Rd. to Riderwood and take a left.  
**HWM Type:** Water/Mud line  
**Closest Municipality:** Dade City      **County:** Hernando      **State:** FL  
**Name of Flagger/Interviewer:** Shelly E. Brooks      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04  
**Survey Crew:** MR, RL, BH      **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA WEST (0902)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 180413      **Easting (feet):** 591904  
**Survey Latitude:** 28.48451      **Northing (Meters):** 459917      **Northing (feet):** 1508912  
**Survey Longitude:** 82.20005      **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



W-1.1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201100225B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hern-3

**HWM ID:** 1\_W-2.0 **Type of Mark:** Paint/flagging tape  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Withlacoochee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 60.5 ft. **NGVD 29:** 61.3 ft. **HWM Object:** Fence  
**Flooding Type:** Hurricane  
**HWM Address:** 5301 Olivet Dr.  
**Location of HWM Object:** I-75 N. to SR 50 - take SR 50 E. to Olivet Dr. - turn right.

**HWM Type:** Water/Mud line  
**Closest Municipality:** Dade City **County:** Hernando **State:** FL

**Name of Flagger/Interviewer:** Shelly E. Brooks **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04

**Survey Crew:** MR, RL, BH **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 179941 **Easting (feet):** 590356  
**Survey Latitude:** 28.51076 **Northing (Meters):** 462827 **Northing (feet):** 1518459  
**Survey Longitude:** 82.20492 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



W-2.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201100225B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Hern-4

**HWM ID:** 1\_W-2.1 **Type of Mark:** Paint/flagging tape  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Withlacoochee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 58.9 ft. **NGVD 29:** 59.7 ft. **HWM Object:** Speed Limit sign  
**Flooding Type:** Hurricane  
**HWM Address:** Cyril Dr.  
**Location of HWM Object:** I-75 N. to SR 50 - take SR 50 E. to Cyril Dr. - turn right on Cyril Dr.

**HWM Type:** Water/Mud line  
**Closest Municipality:** Dade City **County:** Hernando **State:** FL

**Name of Flagger/Interviewer:** Shelly E. Brooks **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04

**Survey Crew:** MR, RL, BH **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 179180 **Easting (feet):** 587859  
**Survey Latitude:** 28.51928 **Northing (Meters):** 463773 **Northing (feet):** 1521561  
**Survey Longitude:** 82.21271 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

W-2.1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201100225B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Hern-5

<b>HWM ID</b>	1_W-3.0	<b>Type of Mark:</b>	Nail/paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	55.7 ft.	<b>NGVD 29:</b>	56.6 ft.
<b>Survey Elevation (NAVD 88):</b>	55.7 ft.	<b>HWM Object:</b>	Utility pole
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	7371 Canal St.		
<b>Location of HWM Object</b>	I-75 N. to SR 50 - take SR 50 E. to US 301, turn left - make right onto Richardson Blvd. and take to Cackleberry Dr., make left - make 1st right onto Canal St.		
<b>HWM Type:</b>	Water/Mud line		
<b>Closest Municipality:</b>	Webster	<b>County:</b>	Hernando
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/17/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	181021
		<b>Easting (feet):</b>	593898
<b>Survey Latitude:</b>	28.54021	<b>Northing (Meters):</b>	466089
<b>Survey Longitude:</b>	82.19394	<b>Northing (feet):</b>	1529162
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-3.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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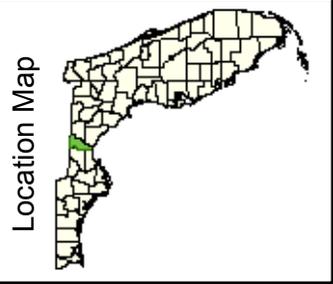
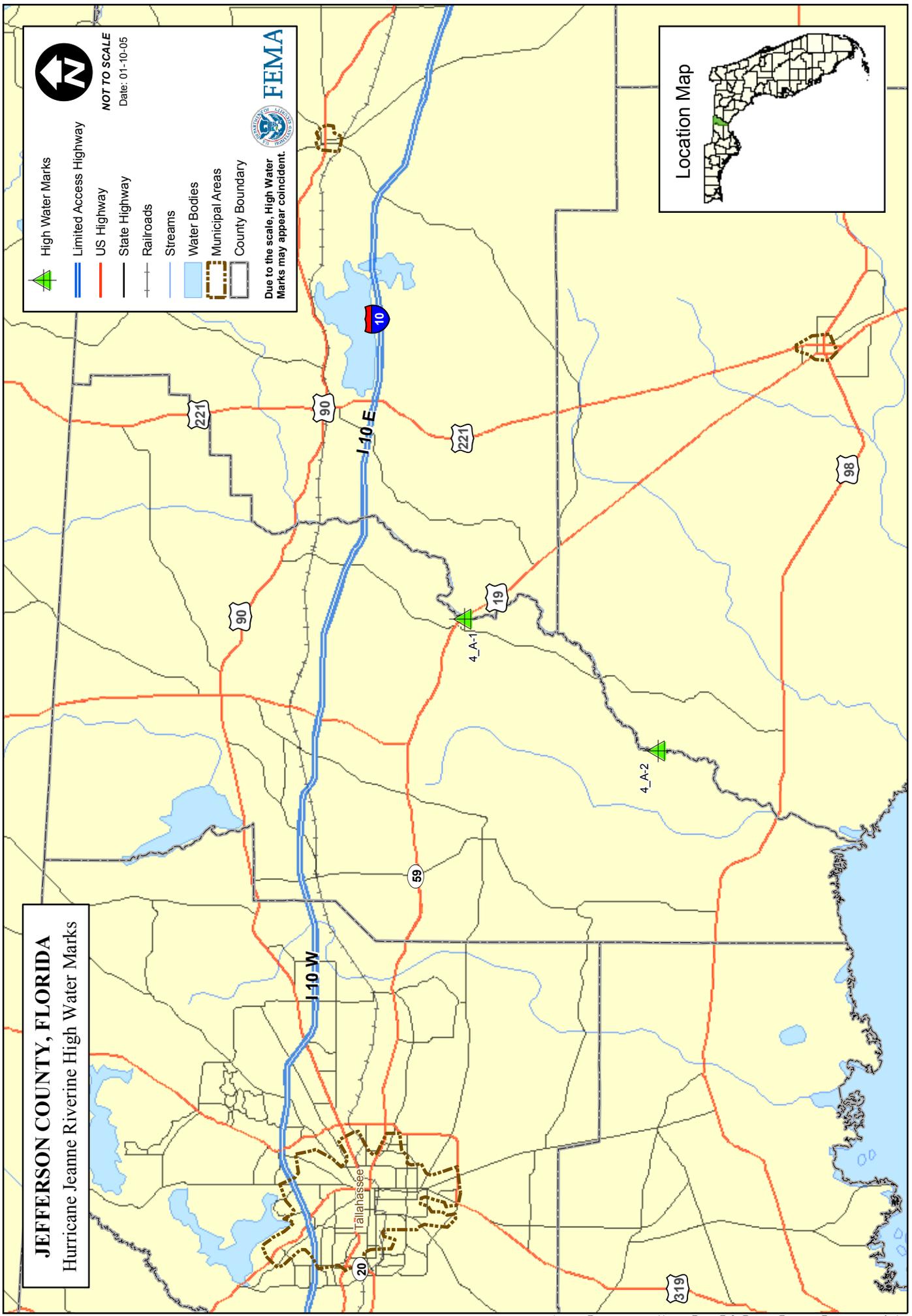
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix J: Jefferson County Data Sheets and Location Map**

# JEFFERSON COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1203310250B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Jeff-1

**HWM ID:** 4\_A-1      **Type of Mark:** Paint  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Aucilla River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 56.8 ft.      **NGVD 29:** 57.5 ft.      **HWM Object:** Concrete column  
**Flooding Type:** Hurricane  
**HWM Address:** US 27 at Aucilla River Bridge  
**Location of HWM Object:** From Lamont; S. on US 27 to access road just before bridge over Aucilla River (right).  
**HWM Type:** Water stain/line  
**Closest Municipality:** Lamont      **County:** Jefferson      **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/20/04  
**Survey Crew:** GMB, CDR      **Survey Company:** PBS&J  
**Survey Date:** 12/16/04  
**Survey Projection:** FLORIDA NORTH (0903)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 666560      **Easting (feet):** 2186872  
**Survey Latitude:** 30.37086      **Northing (Meters):** 152159      **Northing (feet):** 499208  
**Survey Longitude:** 83.80754      **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

A-1\_1

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1203020125B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Jeff-2

<b>HWM ID</b>	4_A-2	<b>Type of Mark:</b>	Painted line
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Aucilla River	<b>Quality of Mark:</b>	Fair
<b>Survey Elevation (NAVD 88):</b>	21.7 ft.	<b>NGVD 29:</b>	22.3 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	O'neal side road at Aucilla River Bridgw		
<b>Location of HWM Object</b>	East US 98 to 2nd left after crossing Aucilla River; left on Power Line Rd.; rt. before river - follow dirt rd. closest to river; when rd. dead ends at river; take rt. on rd. with arrow pointing to river access pt # 37; follow rd. until it almost u-turns; mark is on rt. side of rd.		
<b>HWM Type:</b>	Water line on tree		
<b>Closest Municipality:</b>	Cabbage Grove	<b>County:</b>	Jefferson
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/20/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/16/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	656118
		<b>Easting (feet):</b>	2152613
<b>Survey Latitude:</b>	30.23214	<b>Northing (Meters):</b>	136723
		<b>Northing (feet):</b>	448567
<b>Survey Longitude:</b>	83.91699	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Use GPS; very difficult to give directions, all adjacent roads are unidentified.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

A-2\_1

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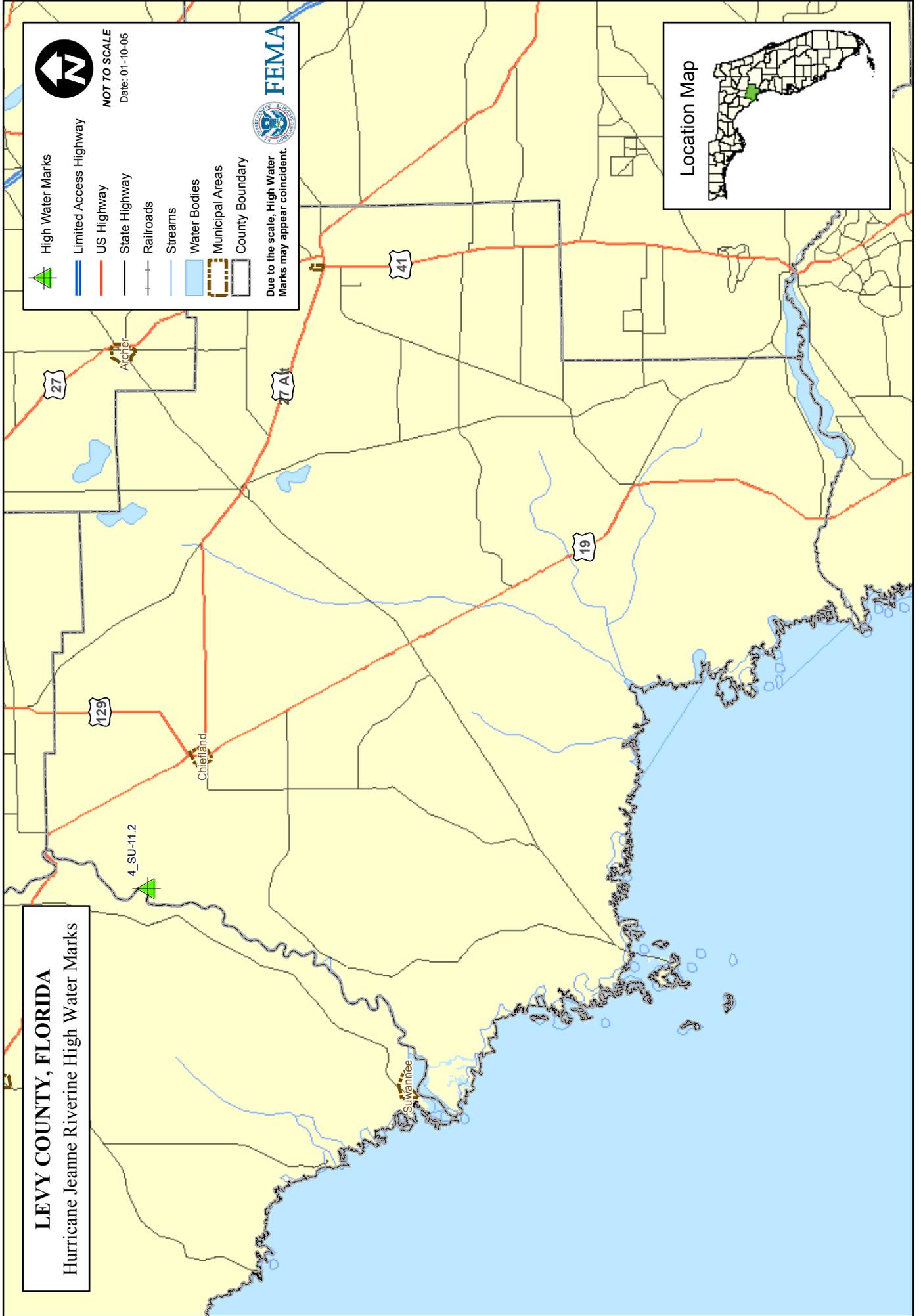
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix K: Levy County Data Sheets and Location Map**

# LEVY COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201450025D **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Levy-1

**HWM ID:** 4\_SU-11.2 **Type of Mark:** Nail & ribbon  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Suwannee River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 4.0 ft. **NGVD 29:** 4.7 ft. **HWM Object:** Pole  
**Flooding Type:** Hurricane  
**HWM Address:** 11670 NW 130 St.  
**Location of HWM Object:** SR 320 to rt. on NW 110 Ave. to left on NW 129 Pl. to left on NW 130 St. to boat ramp (public) marker is on pole (sign).  
**HWM Type:** Water mark  
**Closest Municipality:** Manatee Springs **County:** Levy **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** SH, AL **Survey Company:** PBS&J  
**Survey Date:** 12/28/04  
**Survey Projection:** FLORIDA NORTH (0903) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 748345 **Easting (feet):** 2455195  
**Survey Latitude:** 29.51818 **Northing (Meters):** 58435 **Northing (feet):** 191715  
**Survey Longitude:** 82.96984 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SU-11.2\_1

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

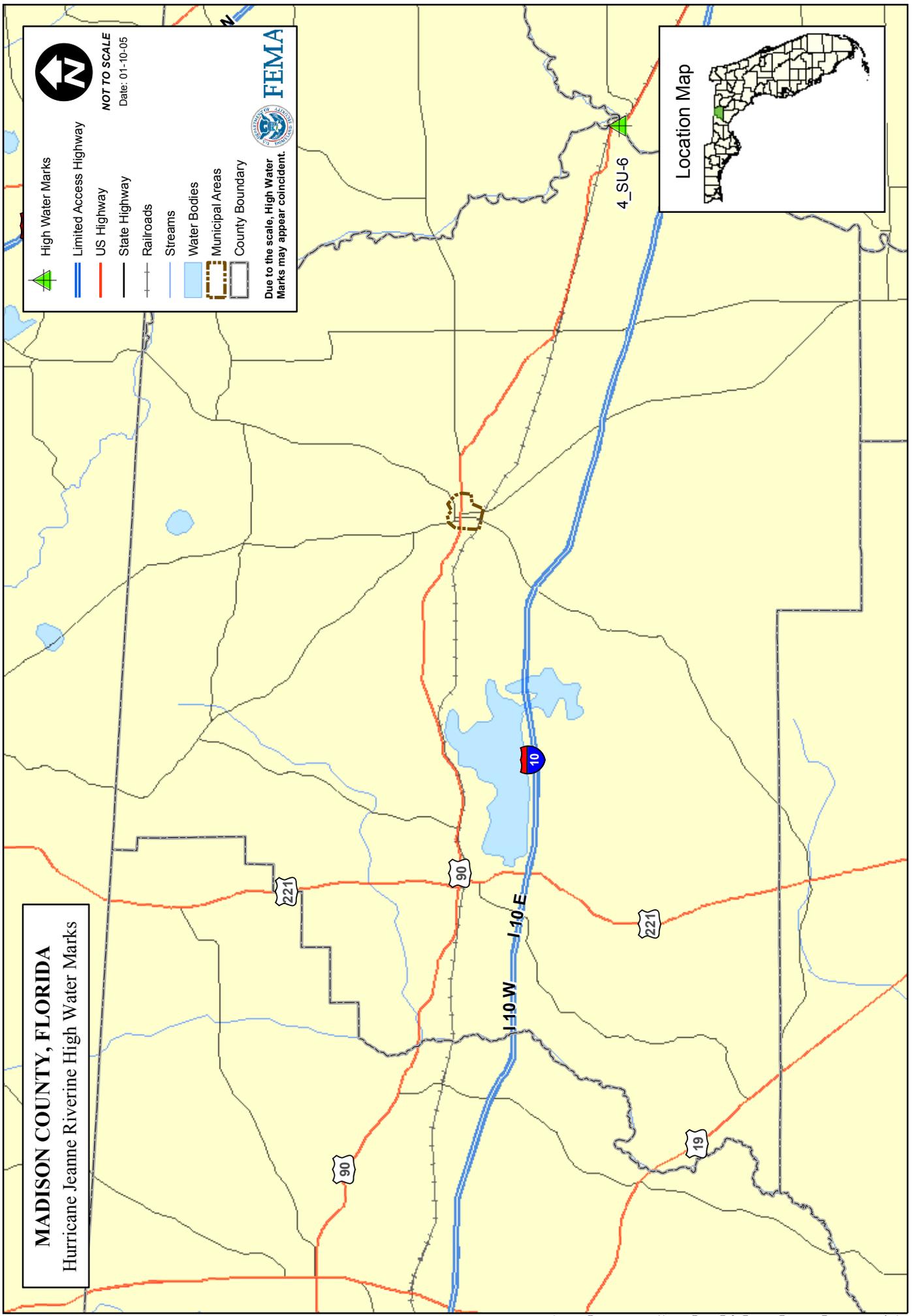
**Appendix L: Madison County Data Sheets and Location Map**

**MADISON COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks


  
**NOT TO SCALE**  
 Date: 01-10-05

	High Water Marks
	Limited Access Highway
	US Highway
	State Highway
	Railroads
	Streams
	Water Bodies
	Municipal Areas
	County Boundary


  
 Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201490345B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Madi-1

<b>HWM ID</b>	4_SU-6	<b>Type of Mark:</b>	Ribbon
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Suwannee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	55.5 ft.	<b>NGVD 29:</b>	56.2 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	US 90 at Suwannee River Bridge		
<b>Location of HWM Object</b>	From Live Oak; W. on US 90 N. to bridge over Suwannee River; cross bridge to N. side; marker is on left side of bridge in group of trees near underside of bridge.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Ellasville	<b>County:</b>	Madison
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/14/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	727193
		<b>Easting (feet):</b>	2385798
<b>Survey Latitude:</b>	30.38541	<b>Northing (Meters):</b>	154308
<b>Survey Longitude:</b>	83.17652	<b>Northing (feet):</b>	506260
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



SU-6\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix M: Marion County Data Sheets and Location Map**

# MARION COUNTY, FLORIDA

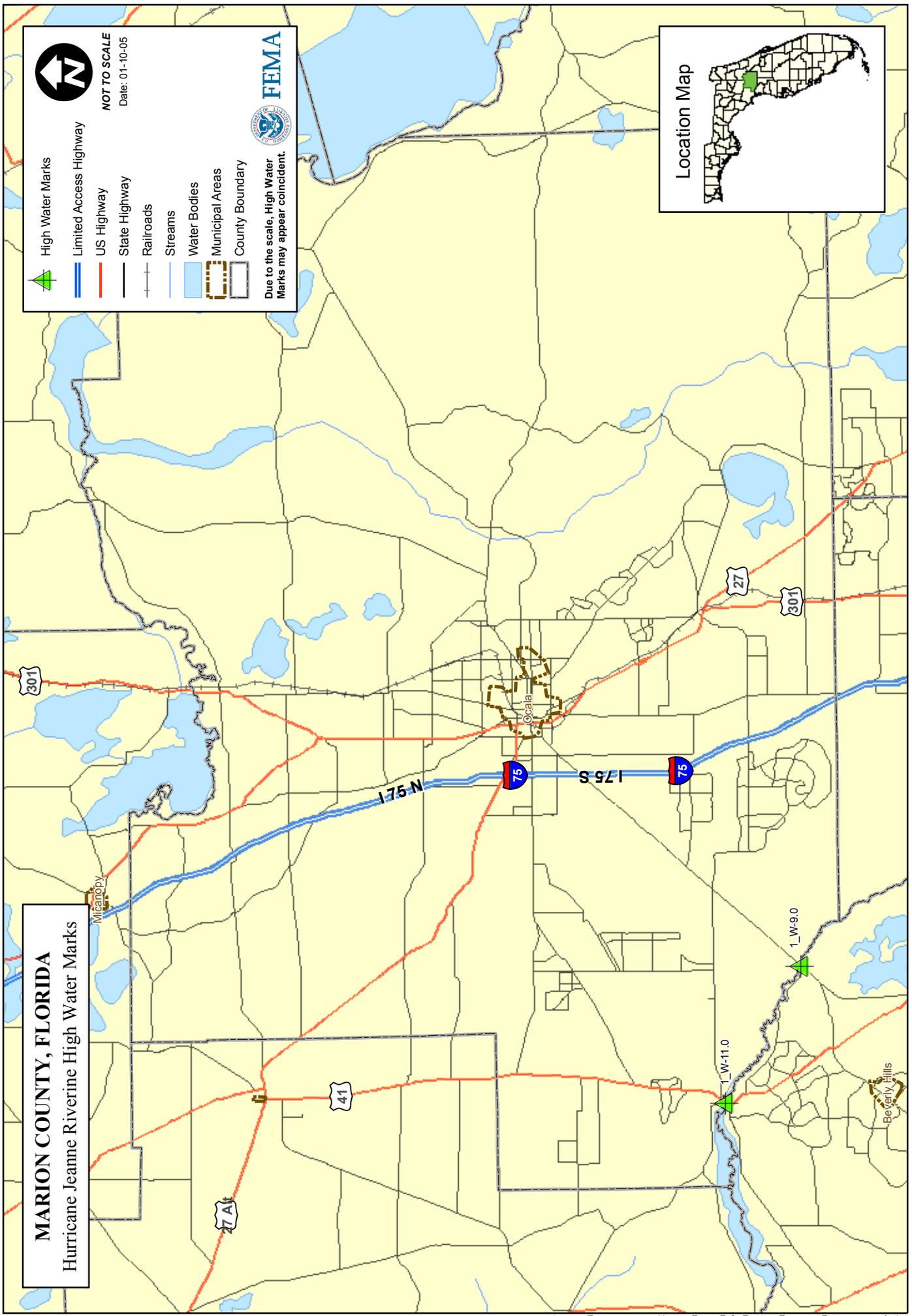
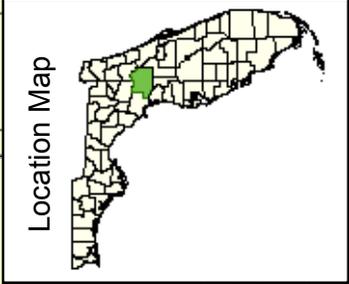
## Hurricane Jeanne Riverine High Water Marks

**NOT TO SCALE**  
Date: 01-10-05

**FEMA**

Due to the scale, High Water Marks may appear coincident.

- High Water Marks
- Limited Access Highway
- US Highway
- State Highway
- Railroads
- Streams
- Water Bodies
- Municipal Areas
- County Boundary





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1205740005B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Mari-1

<b>HWM ID</b>	1_W-11.0	<b>Type of Mark:</b>	Paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	29.2 ft. <b>NGVD 29:</b> 30.1 ft.	<b>HWM Object:</b>	Survey stake
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	US 41 at Withlacoochee River Bridge		
<b>Location of HWM Object</b>	I-75 N. to SR 44 - go W. to US 41, turn right. At intersection of US 41 and Withlacoochee turn right onto Water Way. Overpass is Britan Alexander Bridge. HWM is near oak tree next to boat slip.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Dunnellon	<b>County:</b> Marion	<b>State:</b> FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/16/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b> NAVD 88	<b>Horizontal Datum:</b> NAD83(90)
		<b>Easting (Meters):</b> 154763	<b>Easting (feet):</b> 507753
<b>Survey Latitude:</b>	29.04620	<b>Northing (Meters):</b> 522240	<b>Northing (feet):</b> 1713382
<b>Survey Longitude:</b>	82.46449	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-11.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1201600780B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Mari-2

<b>HWM ID</b>	1_W-9.0	<b>Type of Mark:</b>	Nail/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>37.6 ft.</b>	<b>NGVD 29:</b>	<b>38.4 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Palm tree
<b>HWM Address:</b>	13821 SW SR Hwy 200		
<b>Location of HWM Object</b>	I-75 N. to SR 200 - go SW to Stumpknockers Restaurant.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Dunnellon	<b>County:</b>	Marion
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/16/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	165946
		<b>Easting (feet):</b>	544441
<b>Survey Latitude:</b>	28.98925	<b>Northing (Meters):</b>	515889
<b>Survey Longitude:</b>	82.34947	<b>Northing (feet):</b>	1692544
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-9.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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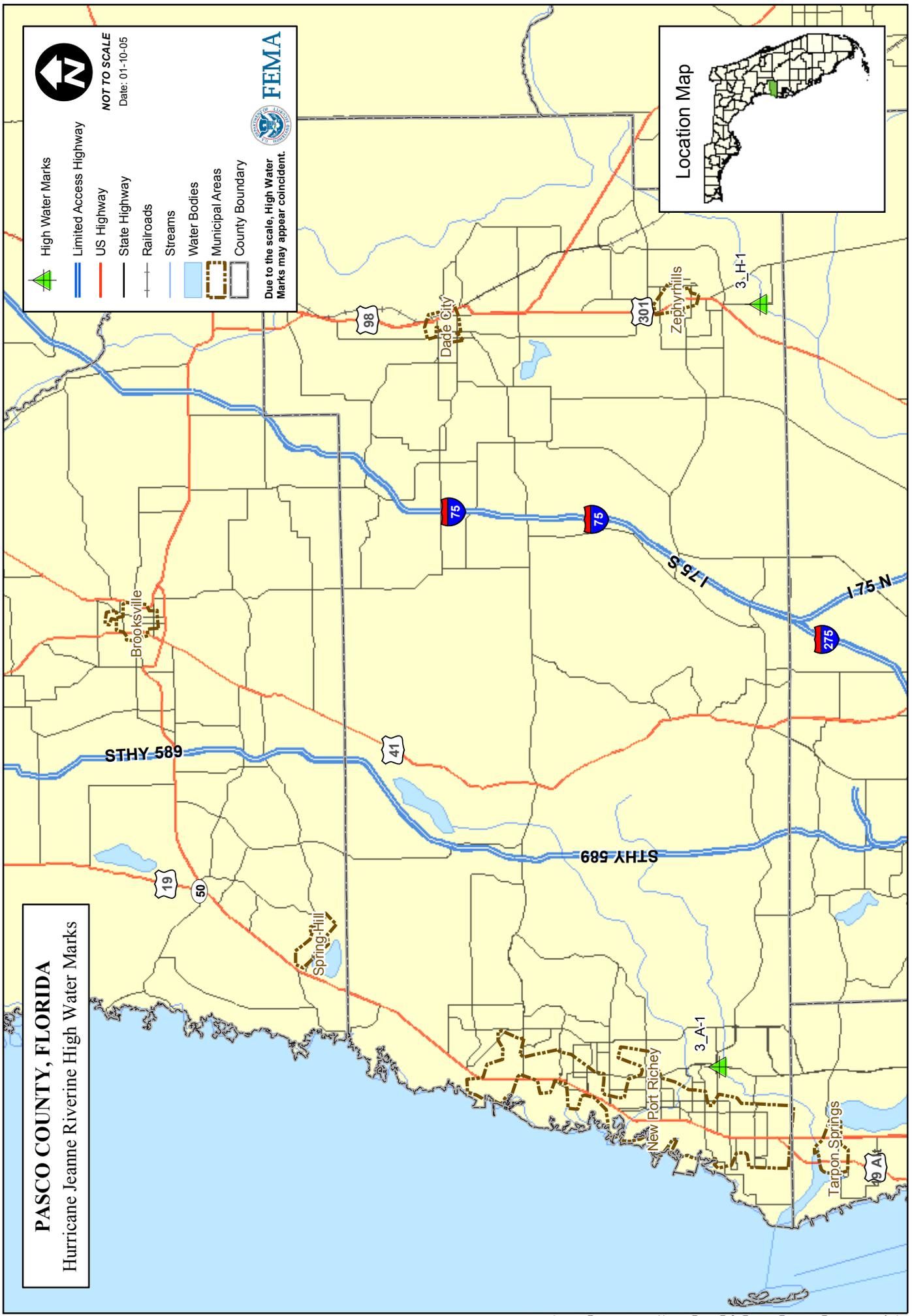
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix N: Pasco County Data Sheets and Location Map**

# PASCO COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1202300354D      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Pasc-1

<b>HWM ID</b>	3_A-1	<b>Type of Mark:</b>	Duct tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Anclote River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	8.2 ft.	<b>NGVD 29:</b>	9.0 ft.
<b>Survey Elevation (NAVD 88):</b>	8.2 ft.	<b>HWM Object:</b>	Bridge pier
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	CR 54 at Anclote River Bridge		
<b>Location of HWM Object</b>	Southeast corner of bridge; 2nd set of bridge piers from S. - 6th pier from E. end.		
<b>HWM Type:</b>	Mud line/debris		
<b>Closest Municipality:</b>	Elfers	<b>County:</b> Pasco	<b>State:</b> FL
<b>Name of Flagger/Interviewer:</b>	Chris Hodyl	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, JF	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/19/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	132003
		<b>Easting (feet):</b>	433080
<b>Survey Latitude:</b>	28.21557	<b>Northing (Meters):</b>	430292
<b>Survey Longitude:</b>	82.69271	<b>Northing (feet):</b>	1411715
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

009

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1202300470B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Pasc-2

**HWM ID:** 3\_H-1 **Type of Mark:** Nail  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Hillsborough River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 61.4 ft. **NGVD 29:** 62.3 ft. **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** Crystal Springs Rd.  
**Location of HWM Object:** Northeast corner of bridge.  
**HWM Type:** Stain line on tree  
**Closest Municipality:** Crystal Springs **County:** Pasco **State:** FL  
**Name of Flagger/Interviewer:** Chris Hodyl **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** MR, DF, BH **Survey Company:** PBS&J  
**Survey Date:** 11/29/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.18598 **Easting (Meters):** 181940 **Easting (feet):** 596916  
**Survey Longitude:** 82.18393 **Northing (Meters):** 426832 **Northing (feet):** 1400365  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

007

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix O: Polk County Data Sheets and Location Map**

# POLK COUNTY, FLORIDA

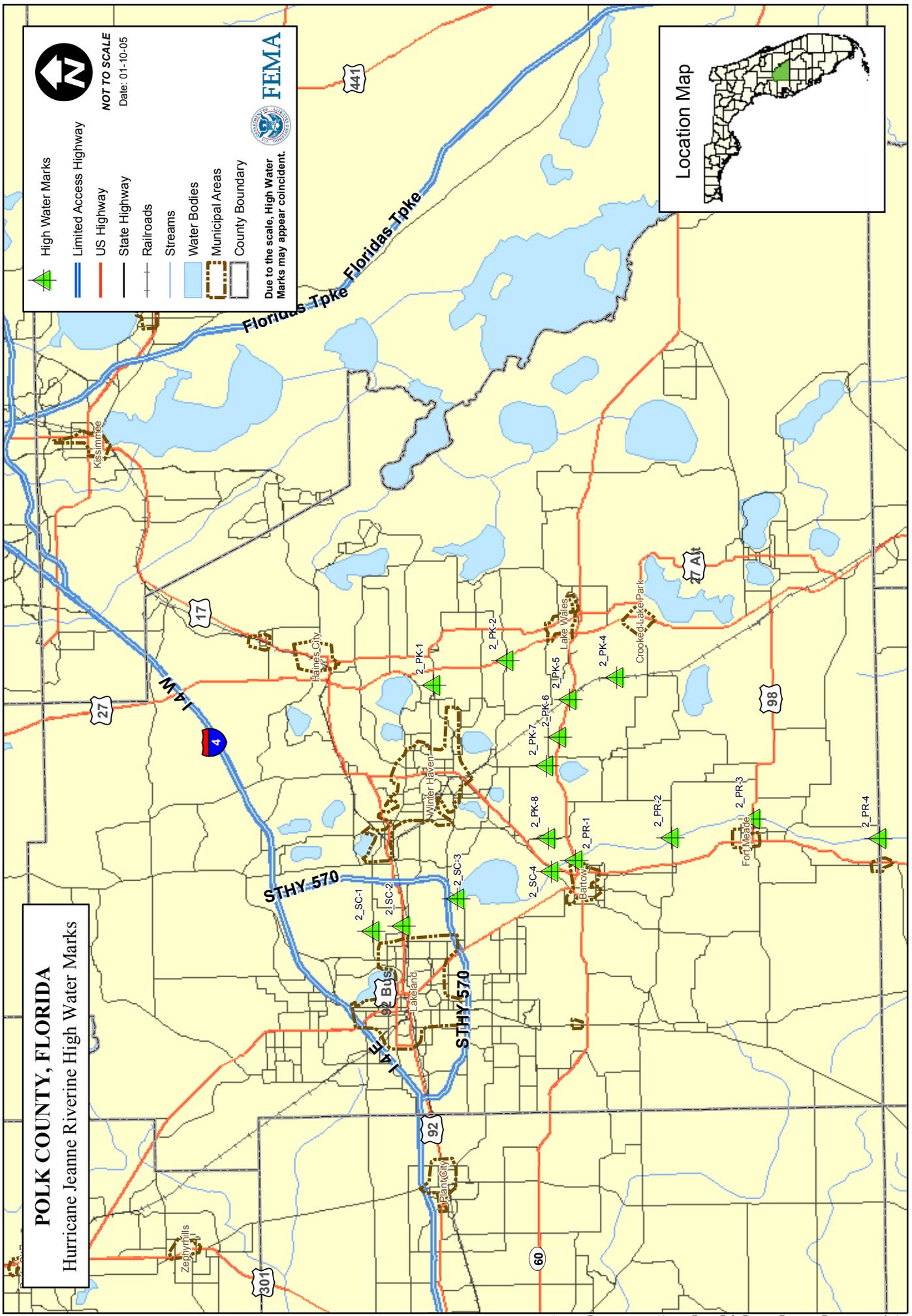
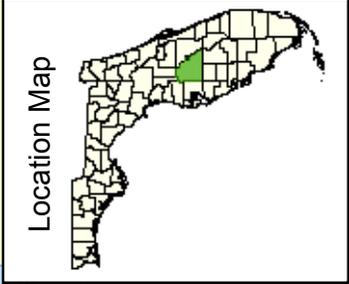
## Hurricane Jeanne Riverine High Water Marks

 **NOT TO SCALE**  
Date: 01-10-05

-  High Water Marks
-  Limited Access Highway
-  US Highway
-  State Highway
-  Railroads
-  Streams
-  Water Bodies
-  Municipal Areas
-  County Boundary

 **FEMA**  
FEDERAL EMERGENCY MANAGEMENT AGENCY  
U.S. DEPARTMENT OF HOMELAND SECURITY

Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0369F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-1

<b>HWM ID</b>	2_PK-1	<b>Type of Mark:</b>	Nail
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace Creek Canal	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	123.0 ft.	<b>NGVD 29:</b>	123.9 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Power pole
<b>HWM Address:</b>	CR 542		
<b>Location of HWM Object</b>	North side of CR 542, 0.3 mi. W. of Cypresswood C.C. - marked by flagging tape & orange marker stake at guardrail.		
<b>HWM Type:</b>	Water line		
<b>Closest Municipality:</b>	Dundee	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/16/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/10/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	234688
		<b>Easting (feet):</b>	769972
<b>Survey Latitude:</b>	28.01888	<b>Northing (Meters):</b>	408352
<b>Survey Longitude:</b>	81.64726	<b>Northing (feet):</b>	1339733
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-1\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0535G      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-2

<b>HWM ID</b>	2_PK-2	<b>Type of Mark:</b>	Nail
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace Creek Canal	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	118.8 ft.	<b>NGVD 29:</b>	119.8 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	CR 540A at Peace Creek Canal		
<b>Location of HWM Object</b>	HWM is approx. 4' N. of warning sign at E. end of bridge.		
<b>HWM Type:</b>	Mud/Water line		
<b>Closest Municipality:</b>	Lake Wales	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/16/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/10/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	236865
		<b>Easting (feet):</b>	777113
<b>Survey Latitude:</b>	27.95706	<b>Northing (Meters):</b>	401508
<b>Survey Longitude:</b>	81.62534	<b>Northing (feet):</b>	1317280
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-2\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0710F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-3

<b>HWM ID</b>	2_PK-4	<b>Type of Mark:</b>	Nail w/ orange paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace Creek Canal	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	114.0 ft.	<b>NGVD 29:</b>	114.9 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Fence post
<b>HWM Address:</b>	Crews Rd. Bridge at Peace Creek Canal		
<b>Location of HWM Object</b>	North end, W. side of bridge, orange painted fence post - HWM near base of post.		
<b>HWM Type:</b>	Water mark		
<b>Closest Municipality:</b>	Lake Wales	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/16/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/9/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	235135
		<b>Easting (feet):</b>	771439
<b>Survey Latitude:</b>	27.86475	<b>Northing (Meters):</b>	391272
<b>Survey Longitude:</b>	81.64322	<b>Northing (feet):</b>	1283699
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-4\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0545G      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-4

**HWM ID:** 2\_PK-5      **Type of Mark:** Nail w/ orange line & tape  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace Creek Canal      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 110.5 ft.      **NGVD 29:** 111.4 ft.      **HWM Object:** Fence post  
**Flooding Type:** Hurricane  
**HWM Address:** SR 60 Peace Creek Canal Bridge  
**Location of HWM Object:** On N. side of SR 60, W. end of bridge adjacent to powerline, 0.25 mi. W. of CSX RR.

**HWM Type:** Mud/Water line  
**Closest Municipality:** Lake Wales      **County:** Polk      **State:** FL

**Name of Flagger/Interviewer:** Roger Dawson      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/16/04

**Survey Crew:** MR, RL      **Survey Company:** PBS&J  
**Survey Date:** 11/9/04  
**Survey Projection:** FLORIDA WEST (0902)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 233145      **Easting (feet):** 764909  
**Survey Latitude:** 27.90458      **Northing (Meters):** 395681      **Northing (feet):** 1298162  
**Survey Longitude:** 81.66331      **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-5\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0540F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-5

**HWM ID:** 2\_PK-6 **Type of Mark:** Wood lath/orange flagging  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace Creek Canal **Quality of Mark:** Fair  
**Survey Elevation (NAVD 88):** 108.5 ft. **NGVD 29:** 109.4 ft. **HWM Object:** Orange stake  
**Flooding Type:** Hurricane  
**HWM Address:** SR 60 at Peace Creek Canal, 1.5 mi. E. of CR 655  
**Location of HWM Object:** Orange arrow on roadway, points to orange marker stake, N. to HWM stake.

**HWM Type:** Mud/Trash line  
**Closest Municipality:** Alturas **County:** Polk **State:** FL

**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/16/04

**Survey Crew:** MR, RL **Survey Company:** PBS&J  
**Survey Date:** 11/9/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 229594 **Easting (feet):** 753260  
**Survey Latitude:** 27.91368 **Northing (Meters):** 396680 **Northing (feet):** 1301441  
**Survey Longitude:** 81.69935 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-6\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0540F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-6

**HWM ID:** 2\_PK-7 **Type of Mark:** Painted line on riprap  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace Creek Canal **Quality of Mark:** Poor  
**Survey Elevation (NAVD 88):** 106.2 ft. **NGVD 29:** 107.1 ft. **HWM Object:** Bridge revetment  
**Flooding Type:** Hurricane  
**HWM Address:** CR 655 at Peace Creek Canal Bridge  
**Location of HWM Object:** Two orange marker stakes at NE end of bridge lead to riprap - orange painted mud line on riprap.

**HWM Type:** Mud/Water line  
**Closest Municipality:** Wahneta **County:** Polk **State:** FL

**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/16/04

**Survey Crew:** MR, RL **Survey Company:** PBS&J  
**Survey Date:** 11/9/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 226940 **Easting (feet):** 744551  
**Survey Latitude:** 27.92517 **Northing (Meters):** 397948 **Northing (feet):** 1305600  
**Survey Longitude:** 81.72629 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-7\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0520F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-7

**HWM ID:** 2\_PK-8 **Type of Mark:** Nail  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace Creek Canal **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 101.9 ft. **NGVD 29:** 102.8 ft. **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** Connersville Rd. at Peace Creek Canal Bridge  
**Location of HWM Object:** 100' S. of bridge on E. side of road 7' E. of orange marker stake.

**HWM Type:** Mud/Water line  
**Closest Municipality:** Bartow **County:** Polk **State:** FL

**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04

**Survey Crew:** MR, RL **Survey Company:** PBS&J  
**Survey Date:** 11/12/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 220153 **Easting (feet):** 722285  
**Survey Latitude:** 27.92458 **Northing (Meters):** 397868 **Northing (feet):** 1305339  
**Survey Longitude:** 81.79524 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PK-8\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0515F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-8

<b>HWM ID</b>	2_PR-1	<b>Type of Mark:</b>	Nail w/ orange paint & tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	97.8 ft.	<b>NGVD 29:</b>	98.7 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	SR 60 at Peace River Bridge		
<b>Location of HWM Object</b>	North end of canoe launch pkg lot - cypress tree at NW corner - nail on E. side of tree, 12" above land with orange paint, tape.		
<b>HWM Type:</b>	Water/Mud line		
<b>Closest Municipality:</b>	Bartow	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	218062
		<b>Easting (feet):</b>	715425
<b>Survey Latitude:</b>	27.90221	<b>Northing (Meters):</b>	395386
<b>Survey Longitude:</b>	81.81653	<b>Northing (feet):</b>	1297195
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-1\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0685F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-9

<b>HWM ID</b>	2_PR-2	<b>Type of Mark:</b>	Nail w/orange paint/tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	89.3 ft.	<b>NGVD 29:</b>	90.2 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	CR 640 at Peace River Bridge		
<b>Location of HWM Object</b>	East end of bridge, 50' S. of road, nail in one tree - orange marker stake, paint, tape.		
<b>HWM Type:</b>	Mud/Water line		
<b>Closest Municipality:</b>	Homeland	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	220032
		<b>Easting (feet):</b>	721888
<b>Survey Latitude:</b>	27.82104	<b>Northing (Meters):</b>	386395
<b>Survey Longitude:</b>	81.79667	<b>Northing (feet):</b>	1267696
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-2\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0695F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-10

<b>HWM ID</b>	2_PR-3	<b>Type of Mark:</b>	Nail
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Peace River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>80.0 ft.</b>	<b>NGVD 29:</b>	<b>80.9 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	US 98 E. at Peace River Bridge		
<b>Location of HWM Object</b>	Approx. 60' N. of E. end of bridge, at group of 4 trees - nail in tree, approx. 10" above ground.		
<b>HWM Type:</b>	Water mark		
<b>Closest Municipality:</b>	Ft. Meade	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	221640
		<b>Easting (feet):</b>	727164
<b>Survey Latitude:</b>	27.75208	<b>Northing (Meters):</b>	378756
<b>Survey Longitude:</b>	81.78048	<b>Northing (feet):</b>	1242636
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-3\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0895F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-11

**HWM ID:** 2\_PR-4      **Type of Mark:** Nail/orange paint/tape  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Peace River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 65.2 ft.      **NGVD 29:** 66.2 ft.      **HWM Object:** Fence post  
**Flooding Type:** Hurricane  
**HWM Address:** Co. Line Rd. at Peace River Bridge  
**Location of HWM Object:** East of bridge, N. of road at FDOT mitigation area access gate - 1st. wood fence post W. of iron gate - nail in post, marked by orange paint, stake, tape.  
**HWM Type:** Water mark  
**Closest Municipality:** Bowling Green      **County:** Polk      **State:** FL  
**Name of Flagger/Interviewer:** Roger Dawson      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** MR, JC      **Survey Company:** PBS&J  
**Survey Date:** 12/2/04  
**Survey Projection:** FLORIDA WEST (0902)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 27.64635      **Easting (Meters):** 219669      **Easting (feet):** 720696  
**Survey Longitude:** 81.80067      **Northing (Meters):** 367037      **Northing (feet):** 1204186  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

PR-4\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0310F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-12

<b>HWM ID</b>	2_SC-1	<b>Type of Mark:</b>	Nail
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Saddle Creek	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	113.0 ft.	<b>NGVD 29:</b>	113.8 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Electric pole
<b>HWM Address:</b>	3924 Saddle Creek Rd. at bridge		
<b>Location of HWM Object</b>	Front yard of trailer home E. of bridge over Saddle Creek - power pole.		
<b>HWM Type:</b>	Mud line		
<b>Closest Municipality:</b>	Lakeland	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/05		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/10/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	211762
		<b>Easting (feet):</b>	694757
<b>Survey Latitude:</b>	28.07368	<b>Northing (Meters):</b>	414379
<b>Survey Longitude:</b>	81.88033	<b>Northing (feet):</b>	1359509
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SC-1\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0320F      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Polk-13

<b>HWM ID</b>	2_SC-2	<b>Type of Mark:</b>	Nail
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Saddle Creek	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	107.2 ft.	<b>NGVD 29:</b>	108.1 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Tree
<b>HWM Address:</b>	US 92 at Saddle Creek Bridge		
<b>Location of HWM Object</b>	Approx. 40' N. of roadway, E. of bridge on W. bound lanes of US 92.		
<b>HWM Type:</b>	Mud/Water line		
<b>Closest Municipality:</b>	Lakeland	<b>County:</b>	Polk
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Roger Dawson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, RL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/10/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	212202
		<b>Easting (feet):</b>	696200
<b>Survey Latitude:</b>	28.04809	<b>Northing (Meters):</b>	411545
<b>Survey Longitude:</b>	81.87588	<b>Northing (feet):</b>	1350210
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SC-2\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0340F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-14

**HWM ID:** 2\_SC-3 **Type of Mark:** Nail/orange paint & tape  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Saddle Creek **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 100.7 ft. **NGVD 29:** 101.6 ft. **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** Winter Lake Rd. at Saddle Creek Bridge  
**Location of HWM Object:** Turn out on bridge on S. side of Winter Lake Rd. - tree is approx. 50' S. of road & S. of orange marker - stake with orange tape.  
**HWM Type:** Mud/Water line  
**Closest Municipality:** Lakeland **County:** Polk **State:** FL  
**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04  
**Survey Crew:** MR, RL **Survey Company:** PBS&J  
**Survey Date:** 11/10/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.00201 **Easting (Meters):** 214653 **Easting (feet):** 704240  
**Survey Longitude:** 81.85102 **Northing (Meters):** 406441 **Northing (feet):** 1333465  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SC-3\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12105C0515F **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Polk-15

**HWM ID:** 2\_SC-4 **Type of Mark:** Nail w/orange tape  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Saddle Creek **Quality of Mark:** Fair  
**Survey Elevation (NAVD 88):** 99.4 ft. **NGVD 29:** 100.3 ft. **HWM Object:** Tree  
**Flooding Type:** Hurricane  
**HWM Address:** Old Bartow - Eagle Lake Rd. at Saddle Creek Bridge  
**Location of HWM Object:** Fifteen feet N. of orange wood stake, on N. side of Old Bartow - Eagle Lake Rd. and W. of Saddle Creek Bridge.

**HWM Type:** Mud/Water line  
**Closest Municipality:** Bartow **County:** Polk **State:** FL

**Name of Flagger/Interviewer:** Roger Dawson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/15/04

**Survey Crew:** MR, RL **Survey Company:** PBS&J  
**Survey Date:** 11/12/04  
**Survey Projection:** FLORIDA WEST (0902) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 217057 **Easting (feet):** 712129  
**Survey Latitude:** 27.92243 **Northing (Meters):** 397625 **Northing (feet):** 1304542  
**Survey Longitude:** 81.82670 **Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SC-4\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

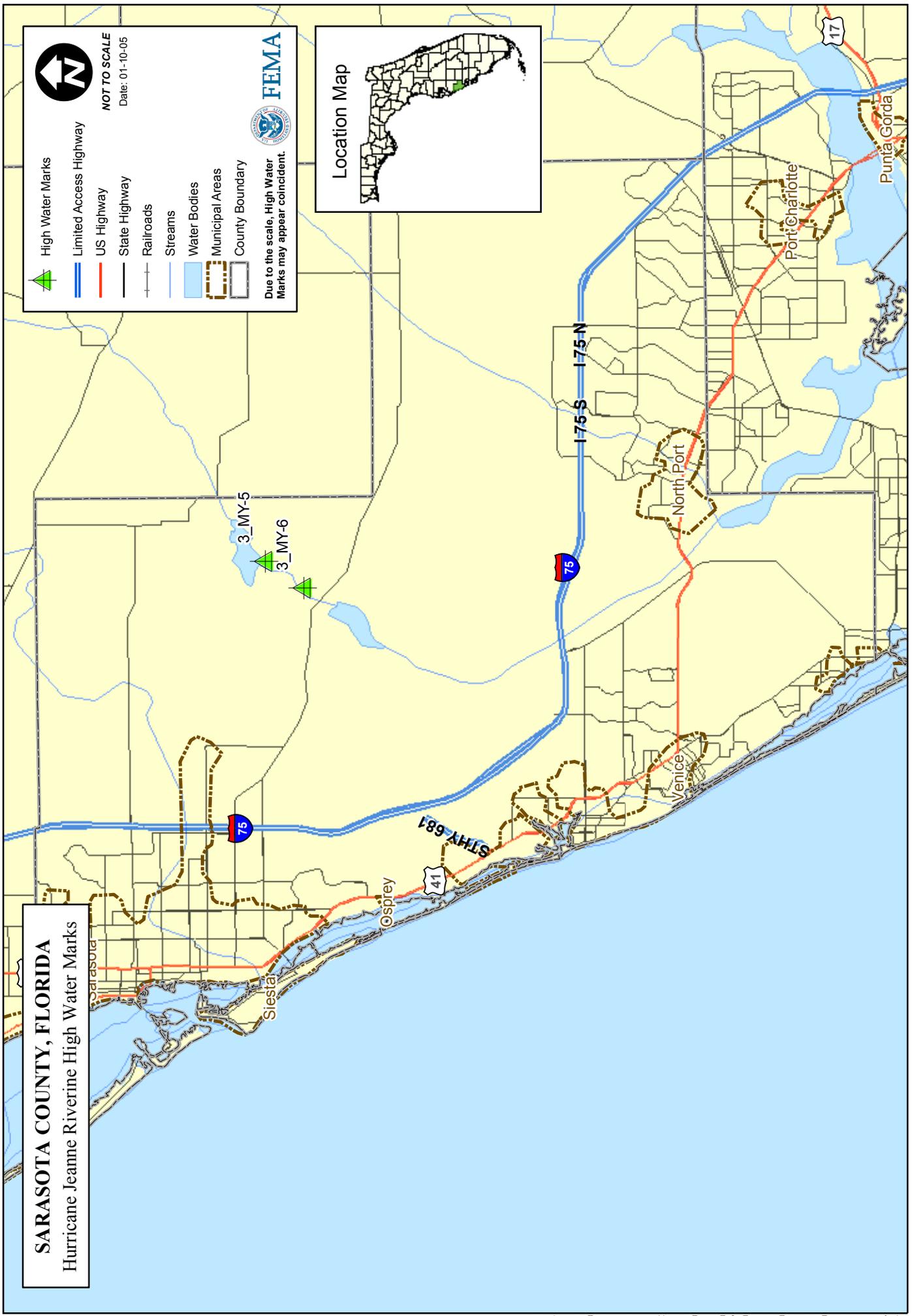
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix P: Sarasota County Data Sheets and Location Map**

# SARASOTA COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1251440200D      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Sara-1

<b>HWM ID</b>	3_MY-5	<b>Type of Mark:</b>	Marked line
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Myakka River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	17.3 ft.	<b>NGVD 29:</b>	18.4 ft.
		<b>HWM Object:</b>	Fence on wood deck
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	Myakka State Park, near dam		
<b>Location of HWM Object</b>	Myakka State Park near dam		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Sarasota	<b>County:</b>	Sarasota
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Chris Hodyl	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/30/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	171169
		<b>Easting (feet):</b>	561576
<b>Survey Latitude:</b>	27.26581	<b>Northing (Meters):</b>	324889
<b>Survey Longitude:</b>	82.29118	<b>Northing (feet):</b>	1065907
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

003

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1251440275D      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Sara-2

<b>HWM ID</b>	3_MY-6	<b>Type of Mark:</b>	Paint line
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Myakka River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	16.4 ft.	<b>NGVD 29:</b>	17.5 ft.
<b>Survey Elevation (NAVD 88):</b>	16.4 ft.	<b>HWM Object:</b>	Bridge revetment
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	Myakka State Park access road bridge		
<b>Location of HWM Object</b>	Within park at bridge on access road.		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Sarasota	<b>County:</b>	Sarasota
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Chris Hodyl	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, BH	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/30/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	169572
		<b>Easting (feet):</b>	556338
<b>Survey Latitude:</b>	27.24575	<b>Northing (Meters):</b>	322671
<b>Survey Longitude:</b>	82.30725	<b>Northing (feet):</b>	1058628
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

002

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

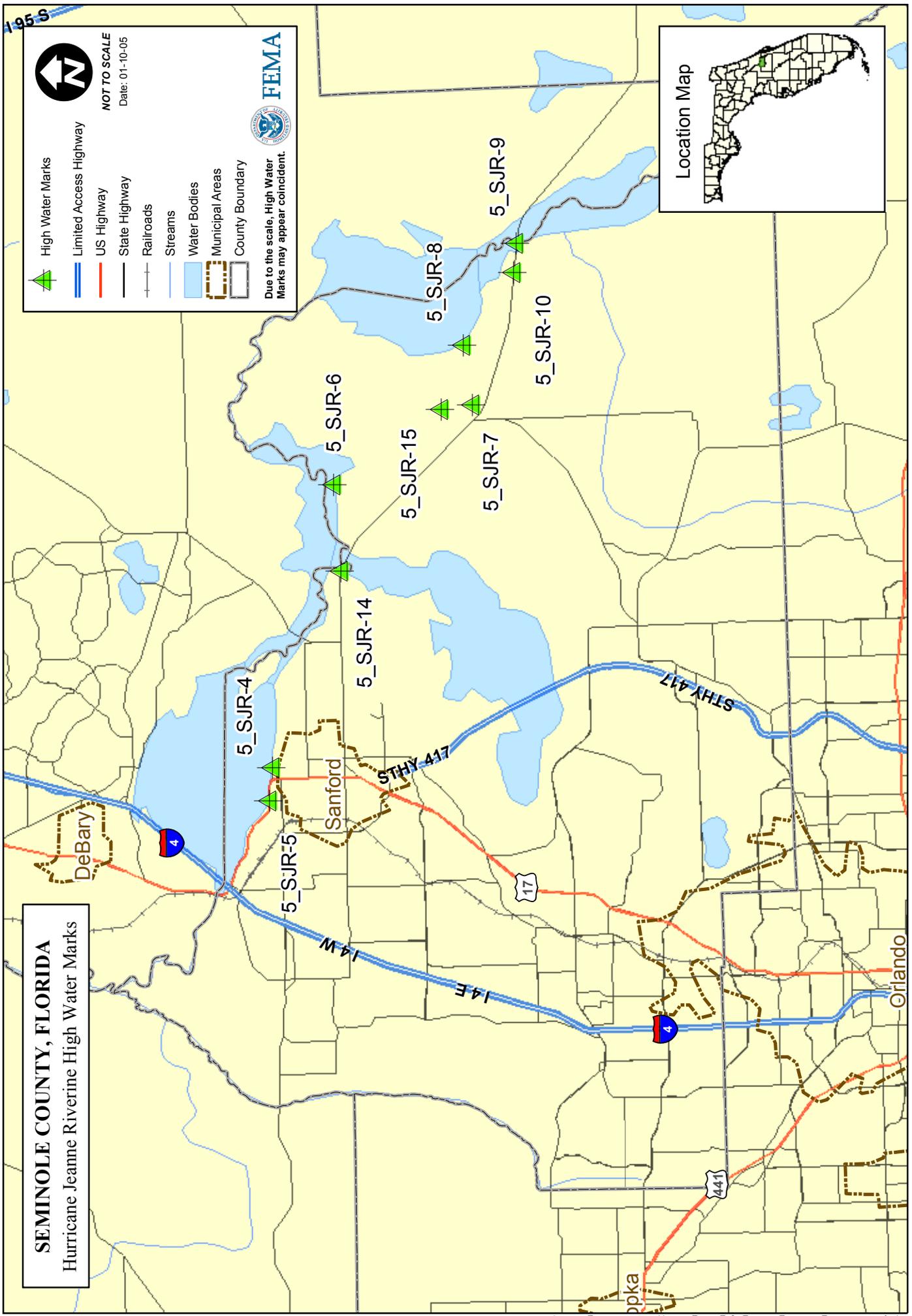
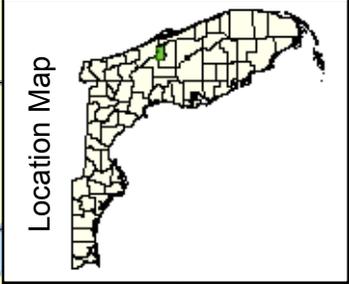
**Appendix Q: Seminole County Data Sheets and Location Map**

**SEMINOLE COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks


  
**NOT TO SCALE**  
 Date: 01-10-05  
**FEMA**  


 High Water Marks  
 Limited Access Highway  
 US Highway  
 State Highway  
 Railroads  
 Streams  
 Water Bodies  
 Municipal Areas  
 County Boundary

Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0185E **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Semi-1

**HWM ID:** 5\_SJR-10 **Type of Mark:** Spray paint line  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 9.1 ft. **NGVD 29:** 10.1 ft. **HWM Object:** Timber pole  
**Flooding Type:** Hurricane  
**HWM Address:** Orlando Rd. overpass of St. Johns River - C.S. Lee Park  
**Location of HWM Object:** From I-95 S. bound at Indian River City take SR 50 W. bound - enter C.S. Lee Park - marker on timber pole N. of boat ramp - closest to water.  
**HWM Type:** Water/mud line  
**Closest Municipality:** Indian River City **County:** Seminole **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 11/17/04  
**Survey Projection:** FLORIDA EAST (0901) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.71460 **Easting (Meters):** 196484 **Easting (feet):** 644631  
**Survey Longitude:** 81.03599 **Northing (Meters):** 485401 **Northing (feet):** 1592519  
**Approx. First Floor Elevation:** 9.4

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-10\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0070E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-2

**HWM ID:** 5\_SJR-14      **Type of Mark:** Spray paint line  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 6.1 ft.      **NGVD 29:** 7.2 ft.      **HWM Object:** Pkg lot/boat ramp  
**Flooding Type:** Hurricane  
**HWM Address:** Cameron Wright Park/Catfish Cover  
**Location of HWM Object:** I-4 to Sanford - SE on US 17/92 - S. on CR 15 - W. on SR 46A turns into SR 46 - turn into Cameron Wright Park on Old Geneva Rd just before SR 46 bends SE - marker on ground NW of boat ramp next to picnic shelter.  
**HWM Type:** Moss line  
**Closest Municipality:** Sanford      **County:** Seminole      **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR      **Survey Company:** PBS&J  
**Survey Date:** 11/15/04  
**Survey Projection:** FLORIDA EAST (0901)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 182355      **Easting (feet):** 598277  
**Survey Latitude:** 28.78628      **Northing (Meters):** 493358      **Northing (feet):** 1618624  
**Survey Longitude:** 81.18073      **Approx. First Floor Elevation:** 6.5

**Comments:**  
None Noted



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-14\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0180E **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Semi-3

**HWM ID:** 5\_SJR-15 **Type of Mark:** Flag  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 25.2 ft. **NGVD 29:** 26.2 ft. **HWM Object:** Tree stump  
**Flooding Type:** Hurricane  
**HWM Address:** Lake Geneva Rd.  
**Location of HWM Object:** From Geneva Intersection of SR 46 and CR 426 - N. on 1st St - rt. (E.) on Lake Geneva Rd - at N. shore of lake, there are five consecutive tree stumps at waters edge - flag around 2nd one in.  
**HWM Type:** Water line/personal account  
**Closest Municipality:** Geneva **County:** Seminole **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/19/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 11/16/04  
**Survey Projection:** FLORIDA EAST (0901) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Easting (Meters):** 189302 **Easting (feet):** 621069  
**Survey Latitude:** 28.74555 **Northing (Meters):** 488835 **Northing (feet):** 1603786  
**Survey Longitude:** 81.10953 **Approx. First Floor Elevation:** 37.2

**Comments:**  
Elevated lake levels were observed.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-15\_2

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0035E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-4

<b>HWM ID</b>	5_SJR-4	<b>Type of Mark:</b>	Flag around stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	6.1 ft.	<b>NGVD 29:</b>	7.1 ft.
<b>HWM Object:</b>		<b>HWM Object:</b>	Metal stake
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	Park Ave.		
<b>Location of HWM Object</b>	I-4 to Sanford - SE on US HWY 17/92 - marker on US 17/92 on N. side between two yellow diamond shape street signs across from end of Mangoustine Dr.		
<b>HWM Type:</b>	Erosion line		
<b>Closest Municipality:</b>	Sanford	<b>County:</b>	Seminole
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/15/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	172411
		<b>Easting (feet):</b>	565652
<b>Survey Latitude:</b>	28.81629	<b>Northing (Meters):</b>	496702
		<b>Northing (feet):</b>	1629597
<b>Survey Longitude:</b>	81.28266	<b>Approx. First Floor Elevation:</b>	10.4

**Comments:**

Marker catty-corner from hospital. Elevation of water covering 1/3 of hospital parking lot.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-4\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0035E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-5

<b>HWM ID</b>	5_SJR-5	<b>Type of Mark:</b>	Orange spray paint X
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	5.9 ft.	<b>NGVD 29:</b>	7.0 ft.
<b>HWM Object:</b>	Concrete sidewalk		
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	Park Ave.		
<b>Location of HWM Object</b>	I-4 to Sanford - SE on US Hwy 17/92 - continue straight onto Seminole Blvd - at round-about intersection of Seminole Blvd. & Park Ave marker is at sidewalk to N just S. of Memorial Park.		
<b>HWM Type:</b>	Debris line - personal account		
<b>Closest Municipality:</b>	Sanford	<b>County:</b>	Seminole
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/15/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	173836
		<b>Easting (feet):</b>	570325
<b>Survey Latitude:</b>	28.81481	<b>Northing (Meters):</b>	496535
		<b>Northing (feet):</b>	1629049
<b>Survey Longitude:</b>	81.26806	<b>Approx. First Floor Elevation:</b>	10.0

**Comments:**

Carl said his survey crew has established points and measured highest water level.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-5\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0070E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-6

<b>HWM ID</b>	5_SJR-6	<b>Type of Mark:</b>	Orange spray paint line
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>6.9 ft.</b>	<b>NGVD 29:</b>	<b>7.9 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Street sign
<b>HWM Address:</b>	Corner of Shady Ln & Mullet Lake Park Pl.		
<b>Location of HWM Object</b>	I-4 to Sanford - SE on US Hwy 17/92 - S. on CR 15 - W. on SR 46A turns into SR 46 - turn onto Osceola Rd & take left on Lake Park Rd - rd. turns into Mullet Lake Park Rd. & winds around into Shady Ln - marker on intersection of street signs.		
<b>HWM Type:</b>	Tanin (?) mark - sign discoloration		
<b>Closest Municipality:</b>	Palm Shadows	<b>County:</b>	Seminole
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/15/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	186124
		<b>Easting (feet):</b>	610643
<b>Survey Latitude:</b>	28.78849	<b>Northing (Meters):</b>	493597
		<b>Northing (feet):</b>	1619409
<b>Survey Longitude:</b>	81.14212	<b>Approx. First Floor Elevation:</b>	10.6

**Comments:**

Entire end of street under water. Unable to continue down Mullet Lake Park Rd. Some trailers/houses may still have standing water.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-6\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0180E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-7

<b>HWM ID</b>	5_SJR-7	<b>Type of Mark:</b>	Flag/stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	26.4 ft.	<b>NGVD 29:</b>	27.4 ft.
<b>Survey Elevation (NAVD 88):</b>	26.4 ft.	<b>HWM Object:</b>	Tree
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	Lake Proctor Rd.		
<b>Location of HWM Object</b>	I-4 to Sanford - SE on US 17/92 - S. on CR 15 - W. on SR 46A turns into SR 46 - N. on 1st St - E. on Cemetery Rd. - S. on Lake Proctor Rd. - dead ends into property - drive in front of last house - marker on N. side of water in front of house.		
<b>HWM Type:</b>	Water line - personal account		
<b>Closest Municipality:</b>	Geneva	<b>County:</b>	Seminole
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/19/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/16/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	189474
		<b>Easting (feet):</b>	621634
<b>Survey Latitude:</b>	28.73325	<b>Northing (Meters):</b>	487471
		<b>Northing (feet):</b>	1599312
<b>Survey Longitude:</b>	81.10775	<b>Approx. First Floor Elevation:</b>	33.9

**Comments:**

Witness may be leaving for Ireland before surveyors arrive. Still ok to get point, just open white picket gate, but be sure to close again after finished. Please call ahead & remove any markers when finished. No flooding from lake.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-7\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0180E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-8

<b>HWM ID</b>	5_SJR-8	<b>Type of Mark:</b>	Nail at water elevation		
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004		
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good		
<b>Survey Elevation (NAVD 88):</b>	8.6 ft.	<b>NGVD 29:</b>	9.7 ft.	<b>HWM Object:</b>	Electrical pole
<b>Flooding Type:</b>	Hurricane				
<b>HWM Address:</b>	201 Whitcomb Rd.				
<b>Location of HWM Object</b>	From Geneva W. on SR 46 - N. on Jungle Rd. - rt. (NE) on Crossover St. - at intersection of Crossover St. and Whitcomb Rd. - electrical pole just to SE of driveway. at 201 Whitcomb Dr.				
<b>HWM Type:</b>	Water/mud line				
<b>Closest Municipality:</b>	Geneva	<b>County:</b>	Seminole	<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation		
<b>Date of Flagging/Interview:</b>	10/19/04				
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J		
<b>Survey Date:</b>	11/16/04				
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88	<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	192091	<b>Easting (feet):</b>	630219
<b>Survey Latitude:</b>	28.73635	<b>Northing (Meters):</b>	487813	<b>Northing (feet):</b>	1600432
<b>Survey Longitude:</b>	81.08097	<b>Approx. First Floor Elevation:</b>	12.2		

**Comments:**

Roadway completely covered in both directions on Whitman. Additional photo/point marked on Lake Harney Rd, with spray paint. Point not as definitive, photo labeled & added to page.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-8\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12117C0185E      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Semi-9

<b>HWM ID</b>	5_SJR-9	<b>Type of Mark:</b>	Spray paint line		
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004		
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good		
<b>Survey Elevation (NAVD 88):</b>	9.7 ft.	<b>NGVD 29:</b>	10.8 ft.	<b>HWM Object:</b>	Gravel Rd./stake
<b>Flooding Type:</b>	Hurricane				
<b>HWM Address:</b>	Intersection of Prevatt Rd and SR 46				
<b>Location of HWM Object</b>	From Geneva W. on SR 46 - Prevatt Rd. on rt. (N.) at S. end of Lake Harney - marker at entrance - NE of mailboxes.				
<b>HWM Type:</b>	Mud line - personal account				
<b>Closest Municipality:</b>	Geneva	<b>County:</b>	Seminole	<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation		
<b>Date of Flagging/Interview:</b>	10/19/04				
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J		
<b>Survey Date:</b>	11/16/04				
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88	<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	195201	<b>Easting (feet):</b>	640422
<b>Survey Latitude:</b>	28.71596	<b>Northing (Meters):</b>	485551	<b>Northing (feet):</b>	1593013
<b>Survey Longitude:</b>	81.04912	<b>Approx. First Floor Elevation:</b>	Not Applicable		

**Comments:**

Witness will not be available at given number until mid November, when able to move back into house. Lives at end of Prevatt Dr., water completely covered Prevatt Dr. all the way to SR 46.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-9\_1

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix R: Sumter County Data Sheets and Location Map**

# SUMTER COUNTY, FLORIDA

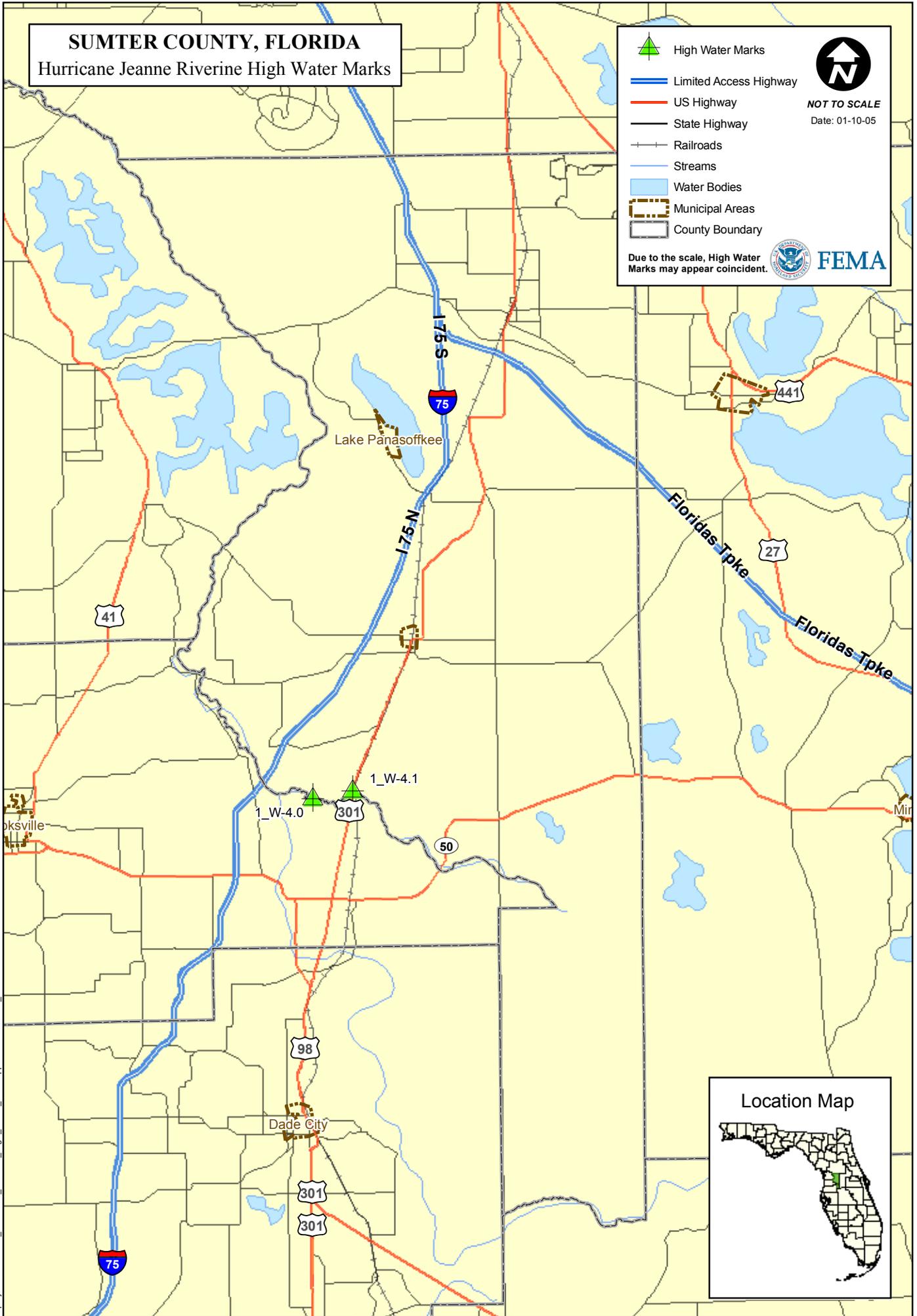
## Hurricane Jeanne Riverine High Water Marks

-  High Water Marks
-  Limited Access Highway
-  US Highway
-  State Highway
-  Railroads
-  Streams
-  Water Bodies
-  Municipal Areas
-  County Boundary

 **NOT TO SCALE**  
 Date: 01-10-05



Due to the scale, High Water Marks may appear coincident.



H:\projects\15702334 - Hurricane Riverine - High Water\_Mark\Applications\Jeanne\_Portrait.mxd



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1202960200B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Sumt-1

<b>HWM ID</b>	1_W-4.0	<b>Type of Mark:</b>	Nail/ paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>57.7 ft.</b>	<b>NGVD 29:</b>	<b>58.5 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Fence
<b>HWM Address:</b>	SW 128th Pl.		
<b>Location of HWM Object</b>	I-75 N. to CR 673. Go E. Take CR 683D S. to CR 683 - follow around to CR 656. Go left on CR 656 to CR 684 turn left. At corner of CR 684 and SW 128th find HWM.		
<b>HWM Type:</b>	Water/Mud line		
<b>Closest Municipality:</b>	Webster	<b>County:</b>	Sumter
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	MR, WR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/18/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	182135
		<b>Easting (feet):</b>	597555
<b>Survey Latitude:</b>	28.56924	<b>Northing (Meters):</b>	469304
<b>Survey Longitude:</b>	82.18260	<b>Northing (feet):</b>	1539708
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-4.0

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1202960200B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Sumt-2

<b>HWM ID</b>	1_W-4.1	<b>Type of Mark:</b>	Nail/paint/flagging tape
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Withlacoochee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>68.5 ft.</b>	<b>NGVD 29:</b>	<b>69.4 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Utility pole
<b>HWM Address:</b>	US 301 at Withlacocchee River Bridge		
<b>Location of HWM Object</b>	I-75 N. to SR 50. Take SR 50 E. to US 301, turn left. Utility pole is located on E. side of US 301 at intersection of Little Withlacoochee River.		
<b>HWM Type:</b>	Water/Mud line		
<b>Closest Municipality:</b>	Webster	<b>County:</b>	Sumter
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Shelly E. Brooks	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	MR, WR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/18/04		
<b>Survey Projection:</b>	FLORIDA WEST (0902)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	184825
		<b>Easting (feet):</b>	606381
<b>Survey Latitude:</b>	28.57354	<b>Northing (Meters):</b>	469778
<b>Survey Longitude:</b>	82.15511	<b>Northing (feet):</b>	1541262
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



W-4.1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix S: Suwannee County Data Sheets and Location Map**

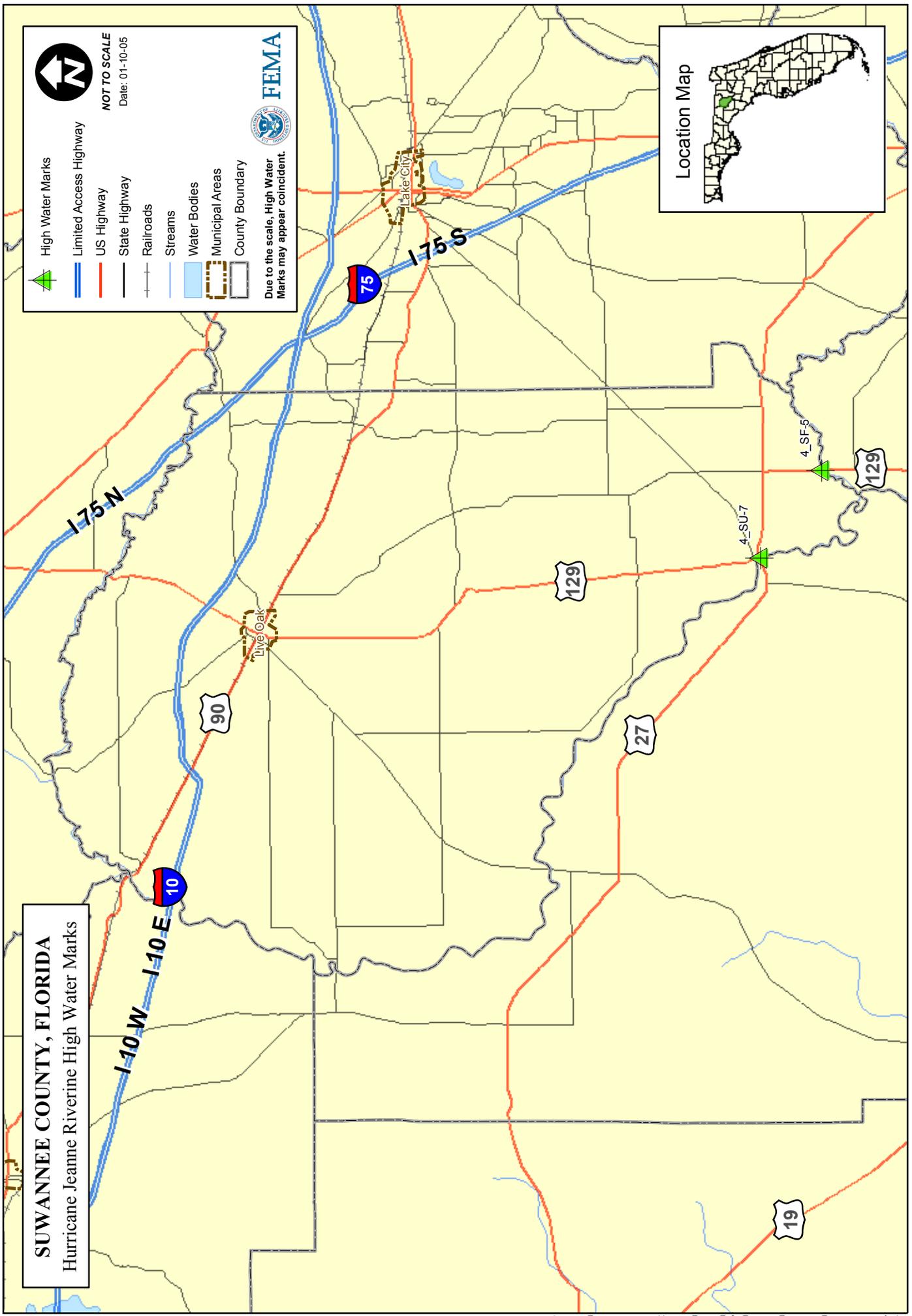
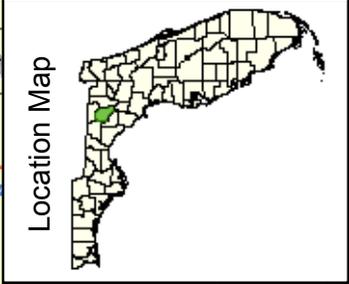
**SUWANNEE COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks

**NOT TO SCALE**  
Date: 01-10-05

**FEMA**

Due to the scale, High Water Marks may appear coincident.

- High Water Marks
- Limited Access Highway
- US Highway
- State Highway
- Railroads
- Streams
- Water Bodies
- Municipal Areas
- County Boundary





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1203000415A      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Suwa-1

<b>HWM ID</b>	4_SF-5	<b>Type of Mark:</b>	Nail & ribbon
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Santa Fe River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	25.3 ft.	<b>NGVD 29:</b>	26.1 ft.
<b>Survey Elevation (NAVD 88):</b>	25.3 ft.	<b>HWM Object:</b>	Utility pole
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	William Guy Lemmon Memorial Park		
<b>Location of HWM Object</b>	South on US 129 to rt on 296 St. to left into William Guy Lemmon Memorial Park; marker is on utility pole adjacent to picnic building		
<b>HWM Type:</b>	Debris line		
<b>Closest Municipality:</b>	Branford	<b>County:</b>	Suwannee
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	SH, AL	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/29/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	758326
		<b>Easting (feet):</b>	2487942
<b>Survey Latitude:</b>	29.91296	<b>Northing (Meters):</b>	102338
<b>Survey Longitude:</b>	82.86038	<b>Northing (feet):</b>	335754
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**  
None Noted



SF-5\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1203000385A      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Suwa-2

**HWM ID:** 4\_SU-7      **Type of Mark:** Stake/paint  
**Name of Storm Event:** Hurricane Jeanne      **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** Suwannee River      **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 29.8 ft.      **NGVD 29:** 30.6 ft.      **HWM Object:** Concrete/ground  
**Flooding Type:** Hurricane  
**HWM Address:** SW Ivey Memorial Park Dr.  
**Location of HWM Object:** SW US 27 to right on SW Ivey Memorial Park Dr.; marker is on rt. side in 1st parking spot on rt. after entering park; approx. 40 yds from US 27 and on SW Ivey Memorial Park Dr.  
**HWM Type:** Water mark & debris line  
**Closest Municipality:** Branford      **County:** Suwannee      **State:** FL  
**Name of Flagger/Interviewer:** Jeff Henninger      **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** SH, AL      **Survey Company:** PBS&J  
**Survey Date:** 12/29/04  
**Survey Projection:** FLORIDA NORTH (0903)      **Vertical Datum:** NAVD 88      **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 29.95503      **Easting (Meters):** 751711      **Easting (feet):** 2466237  
**Survey Longitude:** 82.92823      **Northing (Meters):** 106908      **Northing (feet):** 350746  
**Approx. First Floor Elevation:** Not Applicable

**Comments:**  
None Noted



SU-7\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

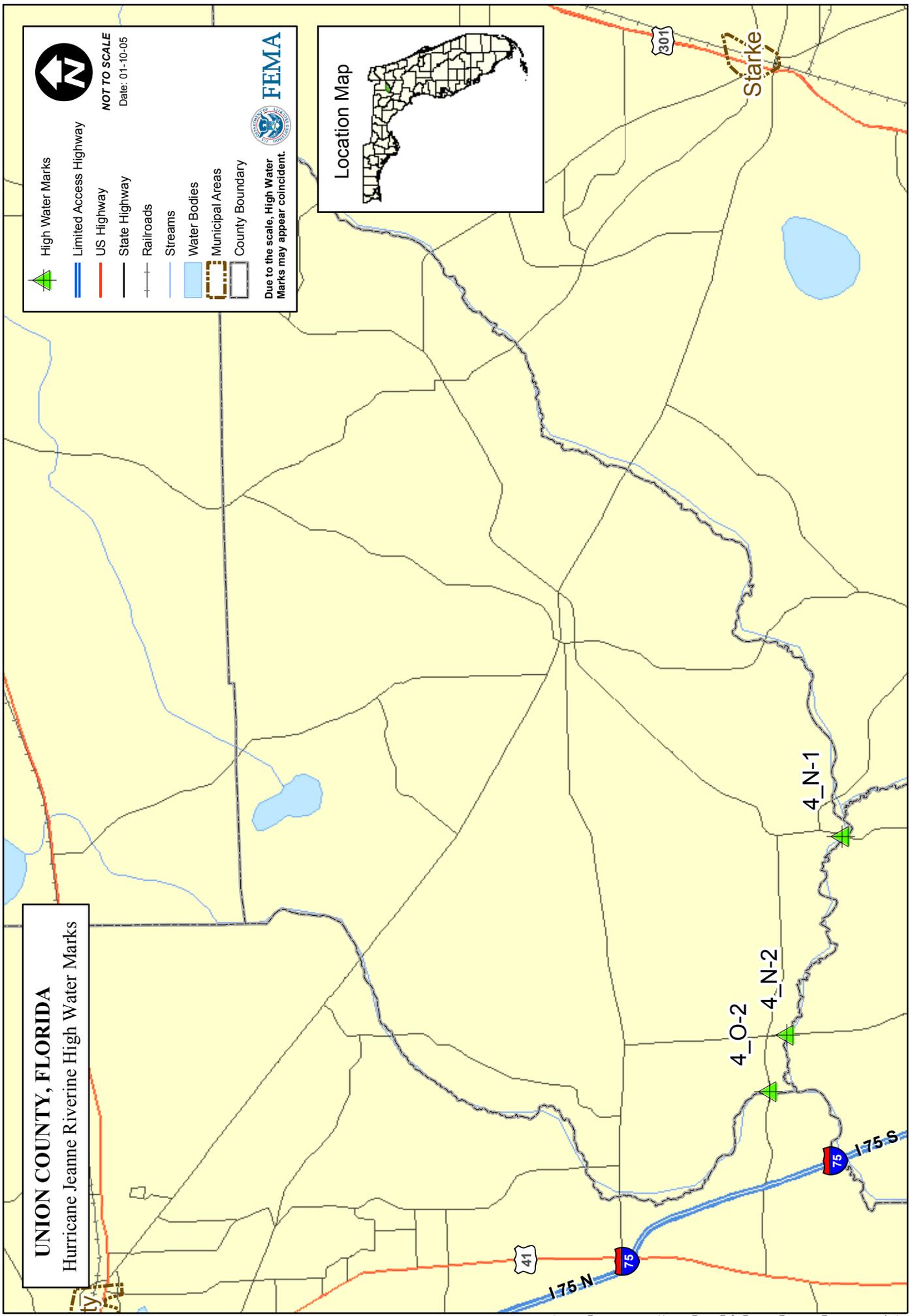
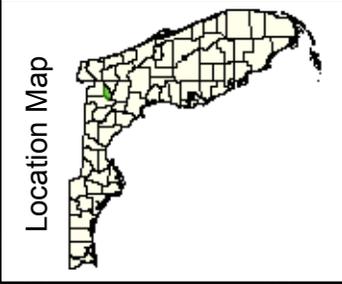
**Appendix T: Union County Data Sheets and Location Map**

**UNION COUNTY, FLORIDA**  
Hurricane Jeanne Riverine High Water Marks


  
**NOT TO SCALE**  
 Date: 01-10-05

	High Water Marks
	Limited Access Highway
	US Highway
	State Highway
	Railroads
	Streams
	Water Bodies
	Municipal Areas
	County Boundary


  
 Due to the scale, High Water Marks may appear coincident.





**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 120595B **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Unio-1

<b>HWM ID</b>	4_N-1	<b>Type of Mark:</b>	Stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	New River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	58.7 ft.	<b>NGVD 29:</b>	59.5 ft.
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Ground
<b>HWM Address:</b>	CR 121 at New River Bridge		
<b>Location of HWM Object</b>	North on CR 121, cross over bridge into Bradford Co.; marker located E. side of CR 121 approx. 24 yds directly E. of end of guard rail from bridge.		
<b>HWM Type:</b>	Dead/bent grass line		
<b>Closest Municipality:</b>	Brooker	<b>County:</b>	Union
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/3/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	800292
		<b>Easting (feet):</b>	2625624
<b>Survey Latitude:</b>	29.92337	<b>Northing (Meters):</b>	104175
<b>Survey Longitude:</b>	82.42553	<b>Northing (feet):</b>	341780
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

Approx. 24 yds. directly E. from guard rail.



N-1\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
PBS & J License Business 24  
482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1204220185B      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Unio-2

<b>HWM ID</b>	4_N-2	<b>Type of Mark:</b>	Stake/paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	New River	<b>Quality of Mark:</b>	Good/Fair
<b>Survey Elevation (NAVD 88):</b>	<b>50.8 ft.</b>	<b>NGVD 29:</b>	<b>51.6 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Ground
<b>HWM Address:</b>	CR 121 at New River Bridge		
<b>Location of HWM Object</b>	North CR 241 from Alachua to Santa Fe River; cross bridge to NW side of bridge; marker is located down embankment approx. 40' from rd. & 40 yds from corner of bridge		
<b>HWM Type:</b>	Stake in ground with paint - debris line		
<b>Closest Municipality:</b>	Alachua	<b>County:</b>	Union
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/3/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	792404
		<b>Easting (feet):</b>	2599746
<b>Survey Latitude:</b>	29.94393	<b>Northing (Meters):</b>	106313
		<b>Northing (feet):</b>	348796
<b>Survey Longitude:</b>	82.50682	<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

6' 6" directly E. (towards road.) from post.



N-2\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

Glenn D. Bryan - Professional Land Surveyor, No. 3700, State of Florida  
 PBS & J License Business 24  
 482 South Keller Road, Orlando, Florida. 32810 PH. 407-647-7275

**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 1204220185B      **PREL.** 1/14/2005    **FINAL** 2/28/2005    **SHEET** Unio-3

<b>HWM ID</b>	4_O-2	<b>Type of Mark:</b>	Stake/flag/paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	Olustee River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>52.8 ft.</b>	<b>NGVD 29:</b>	<b>53.6 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Ground/embankment
<b>HWM Address:</b>	CR 18 at Olustee River Bridge		
<b>Location of HWM Object</b>	North CR 241 to W. on SR 18 to bridge over Olustee Creek; marker located N. side of bridge just before crossing bridge (E. side) approx. 19' down embankment from rd. and corner of bridge		
<b>HWM Type:</b>	Debris/dead grass line		
<b>Closest Municipality:</b>	High Springs	<b>County:</b>	Union
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Jeff Henninger	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/15/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	12/2/04		
<b>Survey Projection:</b>	FLORIDA NORTH (0903)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	790172
		<b>Easting (feet):</b>	2592424
<b>Survey Latitude:</b>	29.95032	<b>Northing (Meters):</b>	106983
<b>Survey Longitude:</b>	82.52982	<b>Northing (feet):</b>	350993
		<b>Approx. First Floor Elevation:</b>	Not Applicable

**Comments:**

North 19' from survey bench mark located on NE corner of bridge.



O-2\_1

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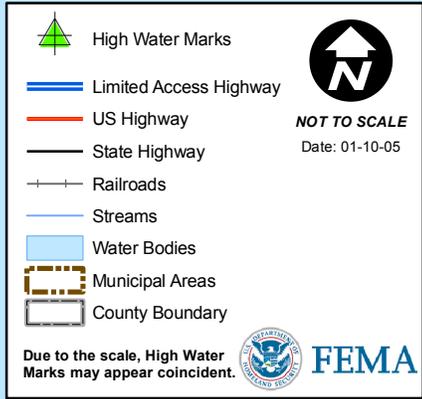
**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:

**APPENDICES**

**Appendix U: Volusia County Data Sheets and Location Map**

# VOLUSIA COUNTY, FLORIDA

## Hurricane Jeanne Riverine High Water Marks

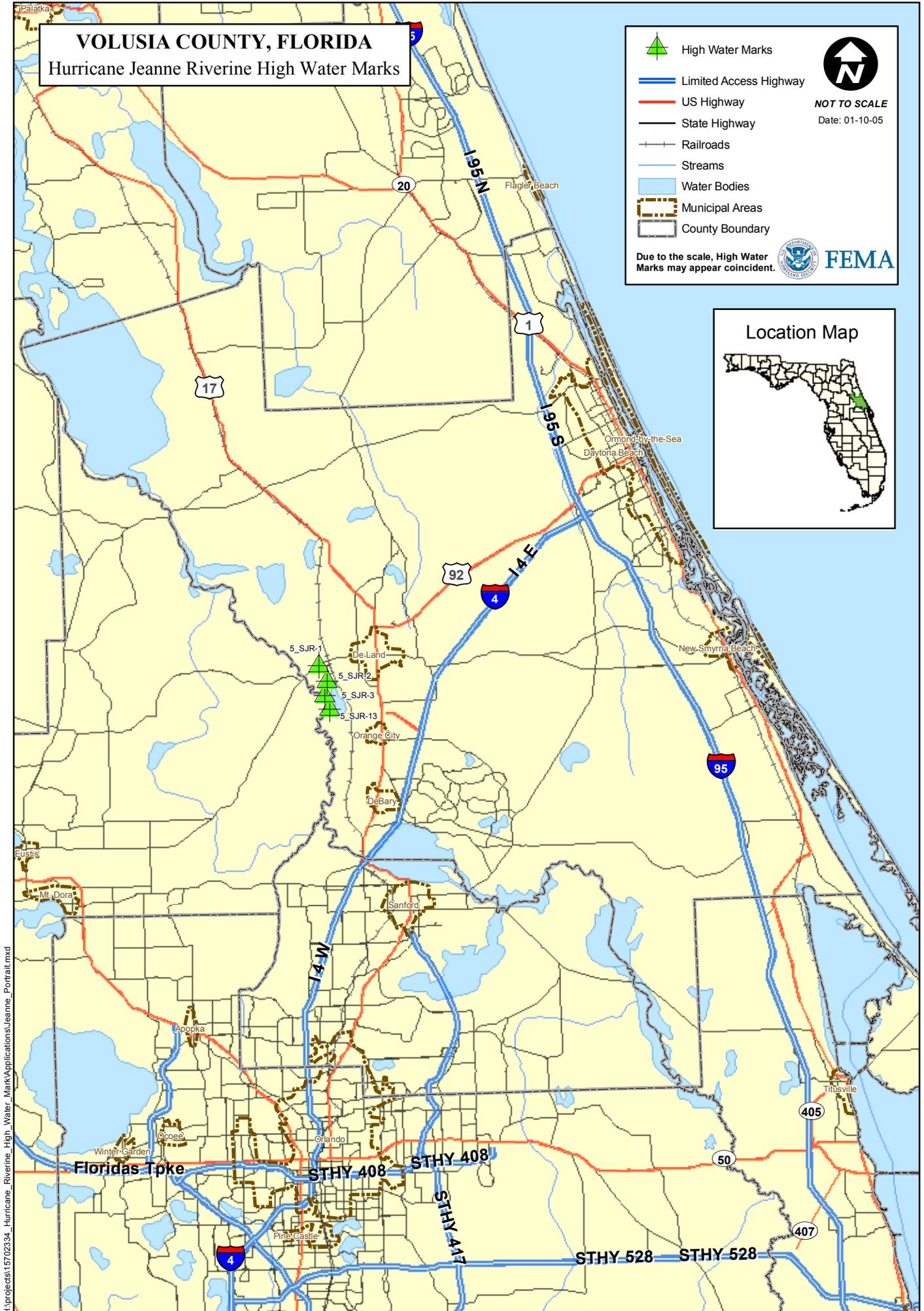


 High Water Marks  
 Limited Access Highway  
 US Highway  
 State Highway  
 Railroads  
 Streams  
 Water Bodies  
 Municipal Areas  
 County Boundary

 **NOT TO SCALE**  
 Date: 01-10-05



Due to the scale, High Water Marks may appear coincident.



H:\projects\15702334 - Hurricane Riverine High Water Mark Applications\leanne\_Porrait.mxd



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12127C0465G      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Volu-1

<b>HWM ID</b>	5_SJR-1	<b>Type of Mark:</b>	Flag/orange spray paint
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Fair
<b>Survey Elevation (NAVD 88):</b>	17.2 ft.	<b>NGVD 29:</b>	18.3 ft.
<b>Survey Elevation (NAVD 88):</b>	17.2 ft.	<b>HWM Object:</b>	Log in ditch
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	225 S. Shell Rd.		
<b>Location of HWM Object</b>	From DeLand - W. on New York Ave.; S. on Shell Rd S. - E. on Murray Ave. (small dirt rd.) marker will be approx. 200 ft. on rt. in ditch.		
<b>HWM Type:</b>	Mudline/Personal account		
<b>Closest Municipality:</b>	DeLand	<b>County:</b>	Volusia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	164362
		<b>Easting (feet):</b>	539244
<b>Survey Latitude:</b>	29.01960	<b>Northing (Meters):</b>	519257
<b>Survey Longitude:</b>	81.36584	<b>Northing (feet):</b>	1703597
		<b>Approx. First Floor Elevation:</b>	19.0

**Comments:**

Heather mentioned that damage was caused by Frances (only rain from Jeanne).



SJR-1\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12127C0605G      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Volu-2

<b>HWM ID</b>	5_SJR-13	<b>Type of Mark:</b>	Stake
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	<b>4.8 ft.</b>	<b>NGVD 29:</b>	<b>5.8 ft.</b>
<b>Flooding Type:</b>	Hurricane	<b>HWM Object:</b>	Survey stake
<b>HWM Address:</b>	Holly Bluff Marina		
<b>Location of HWM Object</b>	From DeLand - W. on Old New York Ave - S. on Hontoon Rd - approx 500 ft. before dead end just across from Holly Bluff Marina and to N. of witness property.		
<b>HWM Type:</b>	Water mark / personal account		
<b>Closest Municipality:</b>	DeLand	<b>County:</b>	Volusia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	165391
		<b>Easting (feet):</b>	542620
<b>Survey Latitude:</b>	28.97841	<b>Northing (Meters):</b>	514689
<b>Survey Longitude:</b>	81.35513	<b>Northing (feet):</b>	1688609
		<b>Approx. First Floor Elevation:</b>	7.2

**Comments:**  
None Noted



SJR-13\_1

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12127C0465G      **PREL.** 1/14/2005      **FINAL** 2/28/2005      **SHEET** Volu-3

<b>HWM ID</b>	5_SJR-2	<b>Type of Mark:</b>	PVC pipe
<b>Name of Storm Event:</b>	Hurricane Jeanne	<b>Date of Flood Event:</b>	9/26/2004
<b>Stream Name/Flood Source:</b>	St. Johns River	<b>Quality of Mark:</b>	Good
<b>Survey Elevation (NAVD 88):</b>	5.1 ft.	<b>NGVD 29:</b>	6.1 ft.
<b>Survey Elevation (NAVD 88):</b>	5.1 ft.	<b>HWM Object:</b>	PVC pipe on light pole
<b>Flooding Type:</b>	Hurricane		
<b>HWM Address:</b>	1563 Lakeside		
<b>Location of HWM Object</b>	From DeLand - W. on Old New York Ave. S. on Hontoon Rd. - E. on Palm Dr.- dead end into Lakeside Dr. - marker behind witness home; in middle of property at edge of lake there's light pole next to large willow tree - marker on pole.		
<b>HWM Type:</b>	Water mark/Personal account		
<b>Closest Municipality:</b>	DeLand	<b>County:</b>	Volusia
		<b>State:</b>	FL
<b>Name of Flagger/Interviewer:</b>	Sarah Peterson	<b>Flagger Company:</b>	URS Corporation
<b>Date of Flagging/Interview:</b>	10/18/04		
<b>Survey Crew:</b>	GMB, CDR	<b>Survey Company:</b>	PBS&J
<b>Survey Date:</b>	11/12/04		
<b>Survey Projection:</b>	FLORIDA EAST (0901)	<b>Vertical Datum:</b>	NAVD 88
		<b>Horizontal Datum:</b>	NAD83(90)
		<b>Easting (Meters):</b>	165165
		<b>Easting (feet):</b>	541880
<b>Survey Latitude:</b>	29.00471	<b>Northing (Meters):</b>	517605
		<b>Northing (feet):</b>	1698176
<b>Survey Longitude:</b>	81.35754	<b>Approx. First Floor Elevation:</b>	9.2

**Comments:**

Allowed to survey point if home or not. Call to let know when coming.



*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

SJR-2\_1

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL:



**PROJECT:** Hurricane Jeanne: FEMA-1561DR-FL  
**CONTENTS:** Individual Historical High Water Mark Survey Report  
**TYPE:** Rapid Response Riverine High Water Marks  
**COMM. NO.** 12069C0300D **PREL.** 1/14/2005 **FINAL** 2/28/2005 **SHEET** Volu-4

**HWM ID:** 5\_SJR-3 **Type of Mark:** Flag and spraypaint  
**Name of Storm Event:** Hurricane Jeanne **Date of Flood Event:** 9/26/2004  
**Stream Name/Flood Source:** St. Johns River **Quality of Mark:** Good  
**Survey Elevation (NAVD 88):** 4.8 ft. **NGVD 29:** 5.9 ft. **HWM Object:** Trash can post  
**Flooding Type:** Hurricane  
**HWM Address:** 1968 Quail Hollow Dr.  
**Location of HWM Object:** From DeLand - W. on Old New York Ave. - S. on Hontoon Rd - S. on Cardinal Village - loop around to Quail Hollow Dr. and turn into Quail Hollow on the River (community clubhouse) pkg lot - marker on trash can post behind swimming pool & N. of boat ramp.  
**HWM Type:** Water mark  
**Closest Municipality:** DeLand **County:** Volusia **State:** FL  
**Name of Flagger/Interviewer:** Sarah Peterson **Flagger Company:** URS Corporation  
**Date of Flagging/Interview:** 10/18/04  
**Survey Crew:** GMB, CDR **Survey Company:** PBS&J  
**Survey Date:** 11/12/04  
**Survey Projection:** FLORIDA EAST (0901) **Vertical Datum:** NAVD 88 **Horizontal Datum:** NAD83(90)  
**Survey Latitude:** 28.99103 **Easting (Meters):** 164877 **Easting (feet):** 540933  
**Survey Longitude:** 81.36045 **Northing (Meters):** 516090 **Northing (feet):** 1693205  
**Approx. First Floor Elevation:** 12.1

**Comments:**  
None Noted



SJR-3\_1

*Survey Certification: Coastal High Water Mark Location survey is certified to 0.25 feet vertically and 10 feet horizontally with a 95% accuracy level.*

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**PROJECT:** Hurricane Jeanne: FEMA-1561-DR-FL: