

PREPARED FOR



HYDROLOGICAL TECHNOLOGY SERVICES

SPECIFIC PURPOSE SURVEY SURVEYOR'S REPORT

VERTICAL DATUM UPGRADE PROJECT

WO# 4600002187-WO13
SAP PO# 9500007032
WGI# 1071.13

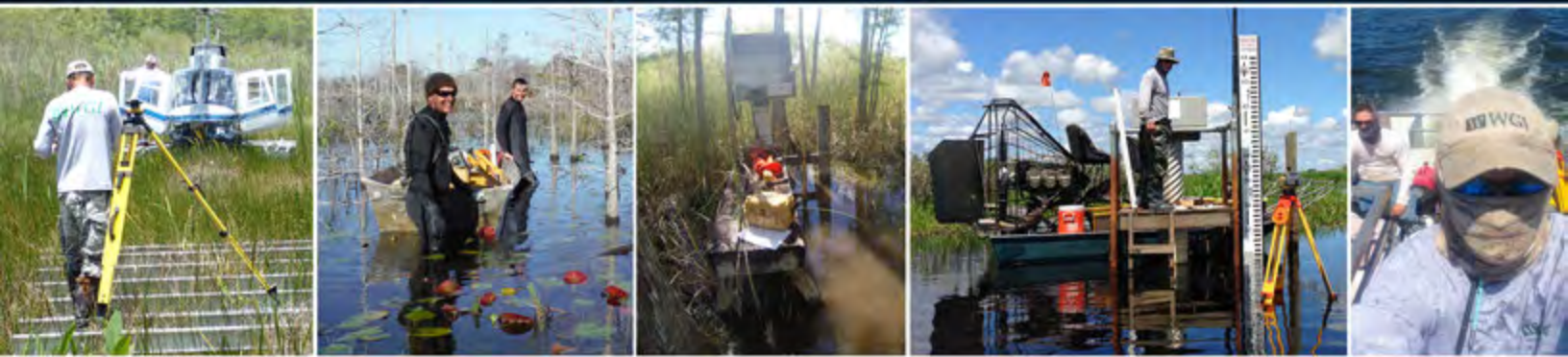


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Overview of Project

OVERVIEW OF PROJECT

Purpose of Project:

Procure all materials to construct and install 60 staff gauges (and 1 staff gauge BBCW1 from 4600002187-WO14) calibrated to the North American Vertical Datum of 1988 (NAVD88) at various sites identified by the Vertical Datum Project Manager. Establish a new NAVD88 Bench Mark at sites where needed, and prepare a SFWMD Bench Mark Data Sheet. Establish a NAVD88 Reference Elevation on the inside deck of existing Telemetry Stations and Ground Well Sites, and stamp site specific data onto a brass tag, using a steel stamp die set. The brass tags were delivered to SFWMD and would be installed by SFWMD Field Personnel during site inspections.

Accuracy:

Staff gauges have been set (adjusted) to the nearest two hundredth (.02') of a foot. Elevations have been transferred from bench mark using a digital level, level rod, and redundant measurements.

Bench Marks:

A bench mark was provided by SFWMD at each location, unless otherwise noted, and used to establish the reference elevation and calibrate each staff gauge. Six (6) new bench marks were set during this project.

Survey Equipment Used:

Topcon DL-502 (Digital Level)
Fiberglass Digital Level Rods
Conventional Level Rod

Vertical Datum Factor:

The staff gauges in this report, have been correctly calibrated to the North American Vertical Datum of 1988. The datum conversion to the National Geodetic Vertical Datum of 1929 (NGVD 29), as shown herein and engraved on each gauge, were provided by the SFWMD VDUP Project Manager.

Completion Date:

Staff Gauge installation and calibration was completed on July 26, 2017.

Construction:

Each Staff Gauge is attached to a 4" O.D. galvanized steel pipe with stainless steel hardware, except where installed on existing structures or pilings, as noted on the installation sheet. The pipes were driven by jack hammer to a depth to achieve required stability, to a minimum of 10', unless otherwise noted. Sections of pipes were attached with a galvanized threaded coupling.

Details of Staff Gauges

Staff Gauge Detail Summary:

Gauges completed:

Staff Gauge Site	Latitude	Longitude	Bench-mark Used	Benchmark Elevation NAVD88	Well Head Reference BM Elevation	Conversion Elevation to NGVD29
BBCW1	25° 27' 55.2"	80° 20' 45.8"	DCBM F61 1	7.13'	N/A	+1.53'
BARW4	25° 59' 41.567"	81° 20' 49.25"	CEH4	6.543'	13.07'	+1.37'
BARW6A	26° 03' 04.286"	81° 20' 40.702"	1174 73a	9.772'	14.65'	+1.36'
FU1_H	25° 57' 37.86"	81° 30' 34.31"	Y407	7.70'	11.69'	+1.34'
FU1_T	25° 57' 36.26"	81° 30' 34.26"	Y407	7.70'	10.62'	+1.34'
S332BS	25° 32' 41.59"	80° 34' 02.32"	S332BS2	10.19'	14.28'	+1.57'
S384_H	27° 23' 45.382"	80° 23' 59.353"	S384	24.90'	26.89'	+1.48'
S384_T	27° 23' 46.227"	80° 23' 57.327"	S384	24.90'	20.04'	+1.48'
TMBR45	25° 58' 41.4"	81° 33' 30.8"	E408	6.43'	6.74'	+1.33'
TMBR52	25° 57' 38.359"	81° 30' 55.312"	TAMI52	6.57'	7.21'	+1.34'
TMBR55	25° 57' 38"	81° 30' 01"	BR55	6.25'	6.86'	+1.34'
TMBR66	25° 55' 59.4"	81° 26' 49.8"	6.31 RESET	6.98'	7.45'	+1.36'
TMBR71	25° 55' 19.3"	81° 24' 39.7"	6.13 RESET	6.81'	7.06'	+1.36'
SGT5W3_GW1	25° 56' 18.686"	81° 29' 08.024"	SGT5W3	1.33'	6.37'	+1.34'
SGT5W3_STG	25° 56' 18.686"	81° 29' 08.024"	SGT5W3	1.33'	6.79'	+1.34'
SGT5W2_GW1	25° 56' 59.786"	81° 31' 55.807"	SGT5W2	1.45'	5.74'	+1.34'
SGT5W2_GW2	25° 56' 59.786"	81° 31' 55.807"	SGT5W2	1.45'	6.91'	+1.34'
SGT5W1_GW1	25° 57' 34.554"	81° 34' 01.543"	SGT5W1	2.25'	6.40'	+1.33'
SGT5W1_STG	25° 57' 34.554"	81° 34' 01.543"	SGT5W1	2.25'	6.94'	+1.33'
TMBR40	25° 59' 16.5"	81° 34' 53.5"	BR40	6.37'	7.27'	+1.32'
TMBR37	25° 59' 54.41"	81° 35' 53.4"	TAMIBR37	7.886'	7.13'	+1.32'
TAMTOM	26° 00' 20.564"	81° 36' 33.06"	L527	3.78'	6.31'	+1.32'
HENDTAMI_H	26° 03' 27.35"	81° 41' 21.77"	HENDTAMI	6.472'	8.74'	+1.32'
COCO4_H	26° 16' 32.03"	81° 37' 34.22"	TE1	13.24'	21.37'	+1.30'
COCO4_T	26° 16' 32.03"	81° 37' 34.22"	TE1	13.24'	21.78'	+1.30'
NAP31_H	26° 10' 55.412"	81° 46' 01.559"	AG25W	8.505'	11.98'	+1.27'
NAP31_T	26° 10' 51.889"	81° 46' 01.308"	AG25W	8.505'	11.99'	+1.27'
BRDROOK	26° 18' 54.84"	81° 38' 07.82"	BRDROOK	16.276'	21.84'	+1.29'
FU6_H	26° 18' 10.35"	81° 31' 47.51"	COLL	17.49'	21.60'	+1.32'
FU6_T	26° 18' 10.35"	81° 31' 47.51"	COLL	17.49'	20.47'	+1.32'
FU5_H	26° 16' 17.17"	81° 31' 43.665"	S5	15.46'	21.12'	+1.32'
FU5_T	26° 16' 15.795"	81° 31' 43.673"	S5	15.46'	21.13'	+1.32'
FU4_H	26° 11' 41.335"	81° 31' 39.838"	FU4S	11.86'	14.94'	+1.33'
FU4_T	26° 11' 38.197"	81° 31' 39.719"	FU4S	11.86'	15.55'	+1.33'
MLRI75	26° 09' 09"	81° 33' 18.7"	I75 R32	19.67'	15.96'	+1.33'

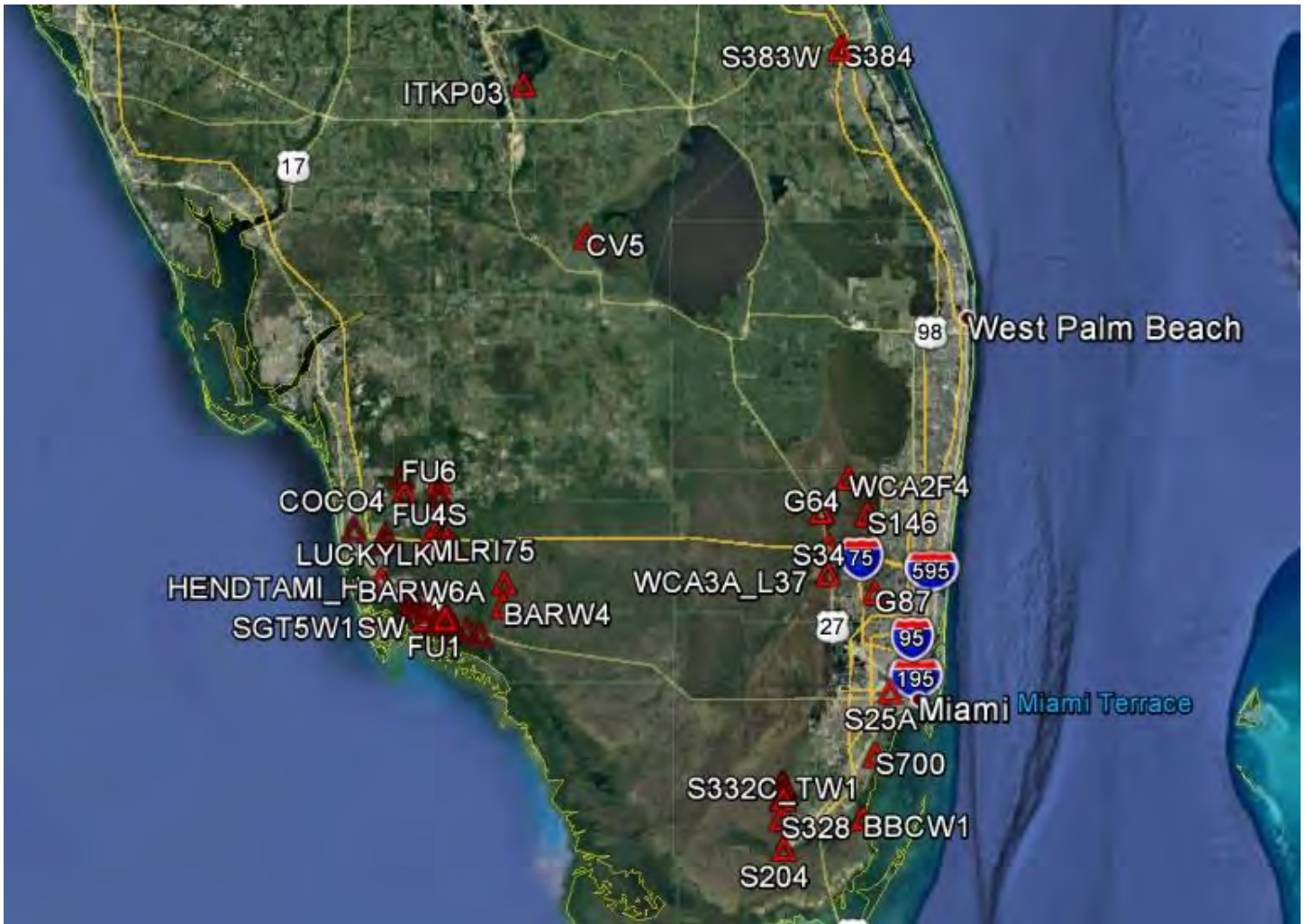
Staff Gauge Site	Latitude	Longitude	Bench-Mark Used	Benchmark Elevation NAVD88	Well Head Reference BM Elevation	Conversion Elevation to NGVD29
FAKI75	26° 09' 10.3"	81° 31' 24.8"	I75U32	20.24'	17.56'	+1.34'
S488_H	26° 08' 22.17"	81° 29' 29.65"	S488	14.191'	16.52'	+1.34'
S488_T	26° 08' 21.18"	81° 29' 29.646"	S488	14.191'	16.38'	+1.34'
CV5_H	26° 55' 10.21"	81° 07' 18.23"	FCE125	24.465'	23.21'	+1.33'
CV5_T	26° 55' 10.21"	81° 07' 18.23"	FCE125	24.465'	19.49'	+1.33'
ITKPO3	27° 18' 03.86"	81° 18' 03.25"	ITKPO3	41.96'	45.93'	+1.14'
LUCKYLK	26° 08' 33.457"	81° 29' 26.854"	COLL0021	11.238'	13.85'	+1.34'
S328_H	25° 27' 47.64"	80° 34' 24.65"	S328	7.119'		+1.56'
S328_T	25° 27' 48.27"	80° 34' 27.09"	S328	7.119'		+1.56'
S204	25° 23' 19.57"	80° 33' 56.506"	Q504	3.543'		+1.58'
S332B_TW1	25° 32' 58.944"	80° 34' 03.598"	S332BTW2	6.751'		+1.57'
S332B_TW2	25° 32' 58.797"	80° 34' 17.921"	S332BTW2	6.751'		+1.57'
S332C_TW1	25° 30' 55.479"	80° 34' 01.951"	S332CTW	11.80'		+1.56'
S332C_TW2	25° 30' 55.555"	80 34' 13.989"	S332CTW	11.80'		+1.56'
S25A_H	25° 46' 57.457"	80° 16' 11.267"	S25A	4.984'		+1.55'
S25A_T	25° 46' 58.062"	80° 16' 10.09"	S25A	4.984'		+1.55'
G87_H	26° 01' 47.3"	80° 18' 46.75"	G87	3.778'		+1.60'
G87_T	26° 01' 44.28"	80° 18' 46.86"	G87	3.778'		+1.60'
S146_H	26° 13' 32.262"	80° 20' 00.167"	E467	16.102'		+1.53'
S146_T	26° 13' 31.088"	80° 20' 00.228"	E467	16.102'		+1.53'
G64_T	26° 13' 56.52"	80° 27' 43.741"	G64	10.379'		+1.48'
G64_H	26° 13' 56.849"	80° 27' 42.228"	G64	10.379'		+1.48'
S383_H	27° 23' 33.852"	80° 24' 28.698"	S383	32.90'	35.29'	+1.48'
S383_T	27° 23' 33.565"	80° 24' 26.488"	S383	32.90'		+1.48'
S383_Well1	27°23'33.28"	80°24'28.32"	S383	32.90'	34.92'	+1.48'
S383_Well2	27°23'33.28"	80°24'28.32"	S383	32.90'	34.47'	+1.48'
S383_well3	27°23'33.28"	80°24'28.32"	S383	32.90'	34.93'	+1.48'
S383_Well4	27°23'33.28"	80°24'28.32"	S383	32.90'	34.75'	+1.48'
S383_Well5	27°23'33.28"	80°24'28.32"	S383	32.90'	34.89'	+1.48'
S383_Well6	27°23'33.28"	80°24'28.32"	S383	32.90'	34.90'	+1.48'
S383_T1	27° 23' 33.284"	80° 24' 26.506"	S383	32.90'	29.42'	+1.48'
S383_T2	27° 23' 33.384"	80° 24' 26.504"	S383	32.90'	29.37'	+1.48'
WCA2F4_STG	26° 19' 01"	80° 23' 06"	WCA2F4	12.926'	15.29'	+1.49'
WCA2F4_GW1	26° 19' 01"	80° 23' 06"	WCA2F4	12.926'	17.01'	+1.49'
WCA2F4_GW2	26° 19' 01"	80° 23' 06"	WCA2F4	12.926'	15.29'	+1.49'
WCA2F4_GW3	26° 19' 01"	80° 23' 06"	WCA2F4	12.926'	15.83'	+1.49'
WCA2F4_GW4	26° 19' 01"	80° 23' 06"	WCA2F4	12.926'	16.02'	+1.49'

Staff Gauge Site	Latitude	Longitude	Bench-Mark Used	Benchmark Elevation NAVD88	Well Head Reference BM Elevation	Conversion Elevation to NGVD29
WCA3A_L37	26° 03' 45.6"	80° 26' 37.9"	WCA3A_L37	13.699'		+1.49'
S700_HW	25° 37' 23.2"	80° 18' 43.1"	AMELIA	7.068'	8.13'	+1.53'

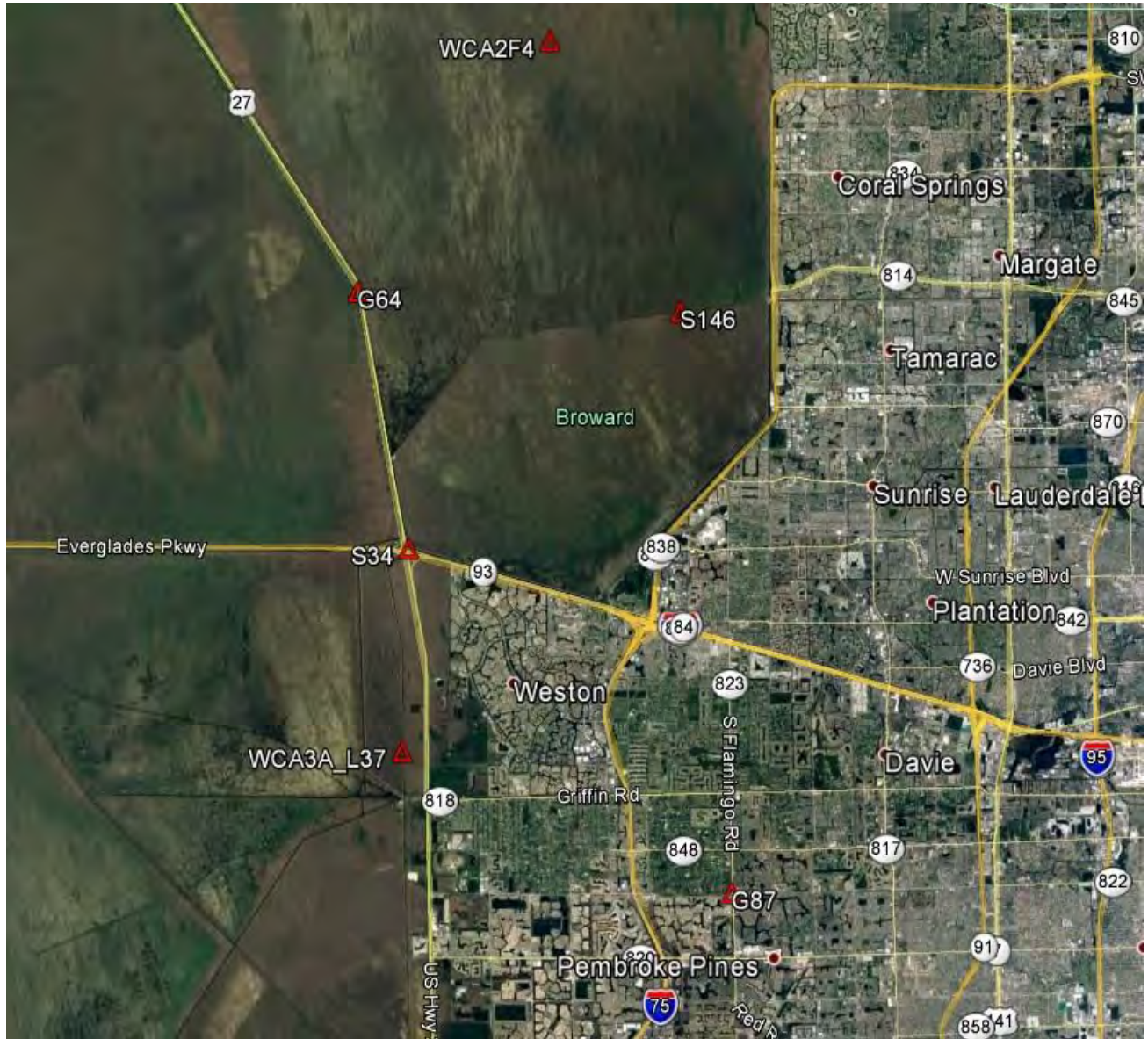
- All Elevations shown are NAVD 88

Project Location Maps:

Overall Map:



Location Map #5



Stage Recorder Site: WCA2F4

Party Chief: Jose Mendoza	Field Book Number: 613	Page Number: 66-67
Benchmark Elevation (NAVD 88): 12.926'	Date of Field Work: June 26, 2017	Datum Offset to NGVD 29: +1.49'
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: WCA2F4
Reference Elevation (NAVD88): 15.29'	Existing Tag Elevation (Datum): 16.847' NGVD29	
Latitude: 26° 19' 01"	Longitude: 80° 23' 06"	
Notes: Datum difference SFWMD +1.49' Field +1.557'		
Removed Old Board: Existing gauge removed, back board & mounting pole not removed		

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



New Staff Gauge:

Front View:



Side View:



Stage Recorder Site: WCA2F4_GW1

Party Chief: Jose Mendoza	Field Book Number: 613	Page Number: 66-67
Benchmark Elevation (NAVD 88): 12.926'	Date of Field Work: June 26, 2017	Datum Offset to NGVD 29: +1.49'
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: WCA2F4
Reference Elevation (NAVD88): 17.01'	Existing Tag Elevation (Datum): 18.57' NGVD29	
Latitude: 26° 19' 01"	Longitude: 80° 23' 06"	
Notes: Datum difference SFWMD +1.49' Field +1.56'		
Removed Old Board:		

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



Stage Recorder Site: WCA2F4_GW2

Party Chief: Jose Mendoza	Field Book Number: 613	Page Number: 66-67
Benchmark Elevation (NAVD 88): 12.926'	Date of Field Work: June 26, 2017	Datum Offset to NGVD 29: +1.49'
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: WCA2F4
Reference Elevation (NAVD88): 15.29'	Existing Tag Elevation (Datum): 16.84' NGVD29	
Latitude: 26° 19' 01"	Longitude: 80° 23' 06"	
Notes: Datum difference SFWMD +1.49' Field +1.55'		
Removed Old Board:		

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



Stage Recorder Site: WCA2F4_GW3

Party Chief: Jose Mendoza	Field Book Number: 613	Page Number: 66-67
Benchmark Elevation (NAVD 88): 12.926'	Date of Field Work: June 26, 2017	Datum Offset to NGVD 29: +1.49'
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: WCA2F4
Reference Elevation (NAVD88): 15.83'	Existing Tag Elevation (Datum): 17.38' NGVD29	
Latitude: 26° 19' 01"	Longitude: 80° 23' 06"	
Notes: Datum difference SFWMD +1.49' Field +1.55'		
Removed Old Board:		

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:

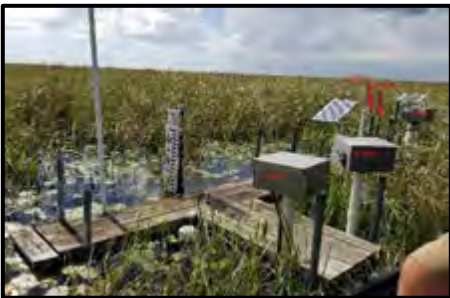


Stage Recorder Site: WCA2F4_GW4

Party Chief: Jose Mendoza	Field Book Number: 613	Page Number: 66-67
Benchmark Elevation (NAVD 88): 12.926'	Date of Field Work: June 26, 2017	Datum Offset to NGVD 29: +1.49'
Benchmark Agency: SFWMD	Benchmark Type: Precision Rod w/Sleeve	Benchmark Stamp: WCA2F4
Reference Elevation (NAVD88): 16.02'	Existing Tag Elevation (Datum): 17.57' NGVD29	
Latitude: 26° 19' 01"	Longitude: 80° 23' 06"	
Notes: Datum difference SFWMD +1.49' Field +1.55'		
Removed Old Board:		

Photographs:

Overall Site:



Benchmark Location:



Benchmark Close Up:



Brass Tag Close Up:



Reference Mark:



Brass Tag & Reference:



REGISTRATION WORKSHEET - WCA2F4 Addendum

Site Name:	WCA2F4	Today's Date:	7/7/2017	Type Recorder:	CR10
Activity:	Addendum	Effective Date:		Start Date of Data:	
Customer:	Amelia Rodriguez-Alers	Bus. Area:	Survey	Agency:	SFWM D
Project Manager:	Patrick Meeds	Bus. Area:		Internal Order:	
				Fund:	
Project Name:	VDUP	Agency:		Contract #:	4600002187-WO13
		Legal Mandate:			
Short Common Name / Description:					
Proj. Mgr. Notes:	Install new NAVD88 staff gauge. To convert to NGVD29 Add +1.49'				

Site Directions:	TO REACH THE STATION FROM THE SAWGRASS EXPRESSWAY OVERPASS AND JUNCTION OF U.S. HIGHWAY 441 (STATE ROAD 7) IN PARKLAND, GO NORTH ON U.S. HIGHWAY 441 (STATE ROAD 7) FOR 1.8 MI TO THE JUNCTION OF STATE ROAD 827 (LOXAHATCHEE ROAD) ON THE LEFT, JUST SOUTH OF THE BROWARD -PALM BEACH COUNTY LINE, TURN LEFT ON STATE ROAD 827 (LOXAHATCHEE ROAD) AND GO NORHTWESTERLY FOR 6.3 MI TO THE END OF THE PAVEMENT AND STATE ROAD 827 AND THE ENTRANCE TO THE LOXAHATCHEE NATIONAL WILDLIFE REFUGE, CONTINUE AHEAD ON THE GRAVEL ROAD FOR 0.05 MI TO THE TOP OF THE LEVEE AND THE INTERSECTION OF THE NORTH-SOUTH LEVEE L-36 ROAD, TURN LEFT ON THE LEVEE ROAD AND GO SOUTH FOR 0.2 MI TO THE BOAT RAMP ON THE RIGHT, NOW BY AIRBOAT GO WEST-SOUTHWESTERLY FOR ABOUT 5.9 MI LATITUDE 26° 19' 01.0" LONGITUDE 080° 23' 06.6" TO A WOODEN T-SHAPED PLATFORM, 30.0 FT BY 2.0 FT NORTH-SOUTH AND 6.0 FT BY 2.0 FT EAST-WEST WOODEN PLATFORM AND THE STATION.
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Site Address (if any):			
Transportation:	Airboat	Lock type or combination:	Abloy S #
Recorder Location/Purpose:	Stand-Alone Recorder (Non-Flow Site)	Structure Type:	
Array ID Configuration table attached			

SURVEY INFORMATION

B.M. Elevation:	12.926	Date:	1/1/1998	Stamp:	None (BM WCA2F4)
Agency:	FDEP	Type:	IROD	Datum:	NAVD 88

Benchmark Location/Description	BM WCA2F4 SET IN THE SOUTHWEST CORNER OF THE T-SHAPED PLATFORM, A STAINLESS STEEL ROD DRIVEN TO REFUSAL AT A DEPTH OF 24.6FT SURROUNDED BY A 5-INCH H PVC PIPE, THE DATUM POINT IS RECESSED 0.3FT
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COMMUNICATIONS INFORMATION

Communications System:	Loggernet	Loggernet Server:	0	Loggernet IP Address:	
Tower:	ACME T	Communication Type:		R.F. Code/Modem Address:	
Phone Number:				R.F. Access Point:	
RTU Address:		Gateways:			

WELL INFORMATION

Sensor	Customer Ref	Ref Elev	Elev Date	Top of Well	Bottom of Well	Ground Elev	Benchmark Elev	Benchmark Datum	Ref Elevation Location
STG1		15.29Ft	6/29/2017				12.926Ft	NAVD 88	X/Mark on stilling well denoted by brass tag.
GW1		17.01Ft	6/29/2017				12.926Ft	NAVD 88	Mark on top of 2" galvanized pipe denoted by brass tag.
GW2		15.29Ft	6/29/2017				12.926Ft	NAVD 88	Mark on top of 2" galvanized pipe denoted by brass tag.
GW3		15.83Ft	6/29/2017				12.926Ft	NAVD 88	Top pvc pipe inside case denoted by brass tag.
GW4		16.02Ft	6/29/2017				12.926Ft	NAVD 88	Top pvc pipe inside case denoted by brass tag.

Sensor	GW Sensor Location Offset	Meas Pt Elevation	GW Land Elevation	Depth of Well	Type of Well	Top of Monitored Interval	Base of Monitored Interval	Parameter Transmitted						
STG1														
GW1														
GW2														
GW3														
GW4														

COORDINATE INFORMATION

Item/Param	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
STG1	26° 19' 01"	80° 23' 08"				31.47S	30E	East of Deem C		Palm Beach	
GW1	26° 19' 01"	80° 23' 08"				31.47S	30E	East of Deem C		Palm Beach	
GW2	26° 19' 01"	80° 23' 08"				31.47S	30E	East of Deem C		Palm Beach	
GW3	26° 19' 01"	80° 23' 08"				31.47S	30E	East of Deem C		Palm Beach	
GW4	26° 19' 01"	80° 23' 08"				31.47S	30E	East of Deem C		Palm Beach	

WCA2F4 Field Notes

W-216-17	WCA2FA	90° R
WENDRA	ELEVATE WELLS	
BEYER	# GAUGE INITIALS	
MULLER		
BS RH	FS RH	ADS ELEV DESC
BS DIST	FS DIST	12.976 WCA2FA
5.129 9.30	2.729 9.40	REF MARK
2.206 9.40	2.010 7.10	REF MARK
1.989 7.10	2.770 9.0	TOP OF 2"
2.705 9.0	0.978 11.5	TOP OF 2"
0.857 11.4	2.107 15.6	REF MARK
2.101 15.6	5.025 9.40	17.976 FLAT SURF
+	41	ELEV DESC
4.76	17.086	12.976 FOUND NO IR
0.77	17.045	0.81 16.876 TOP OF SET
		4.72 12.975 SURF STEEL BM

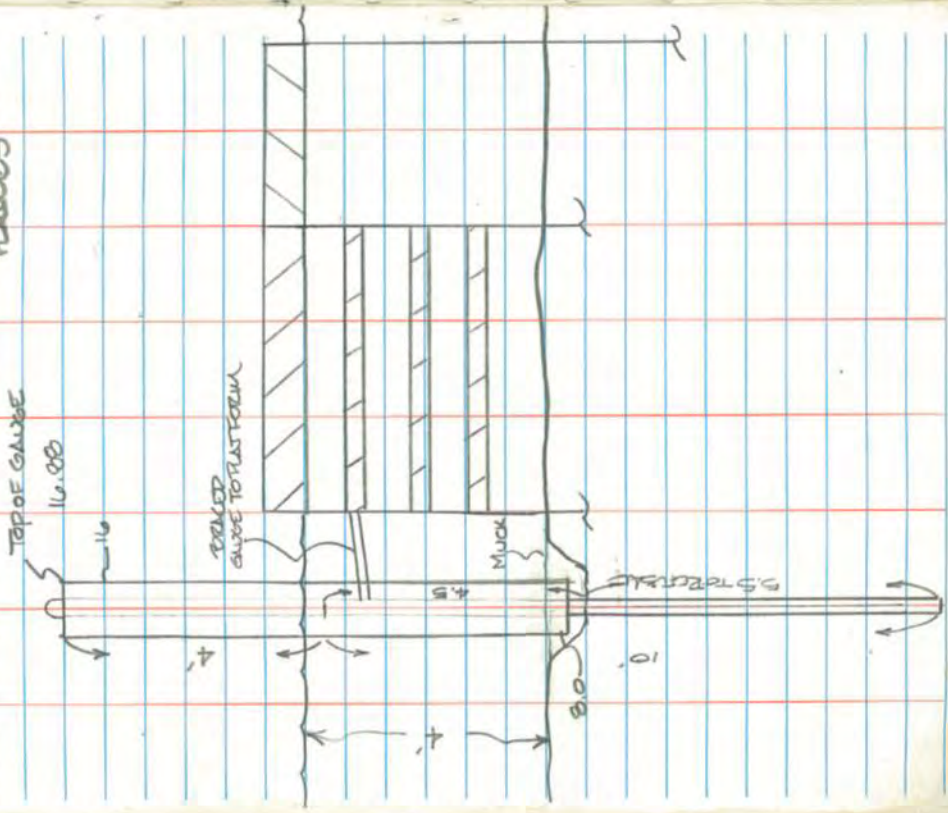
71.13	1020	71.13	1020
FOUND AS DESCRIBED			
PLUGGED			
① GW 1 EX TAG PVB 17.380	CALC DIF 1.55		
PLUGGED			
② GW 2 EX TAG PVB 7.577	CALC DIF 1.540		
PLUGGED			
③ GW 3 EX TAG PVB 10.84	CALC DIF 1.555		
④ UNUNITED STEEL PIPE			
PLUGGED			
⑤ GW 4 EX TAG PVB 10.37	CALC DIF 1.56		
⑥ UNUNITED STEEL PIPE			
PLUGGED			
⑦ WELL EX TAG PVB 10.847	CALC DIF 1.550		
⑧ WELL EX TAG PVB 10.847			
SITE PM			
FOUND AS DESCRIBED LOCATION			
GAUGE			

10-20-17

WENTON
MILLER
PRYOR

WCAZFA
SITE SKETCH

EXISTING GAUGE PLATE REMOVED BACK BOARD AND
MOUNTING TRAILER REMOVED
SIN CECKE INSTALLED TO STAMP TAGS PER EXISTING
TABLE'S MOUNTED TO WELLS. WELLS OWNED PER FLAGE
HAD NO PINS TAGS & CONCRETE'S BRASS TAG DID NOT MATCH
PLATES



10/7/17

1071.13
OVER VIEW

