

Rev. 1/16

DB Hydro Station Names:			dro Site Name:		Da	Date of Field Work:					
PBF-10R					28	28-sep-17					
PBF-11		WHILL									
PBF-12		WHILL									
Party Chief: Giammarco			ook: Misc 6Z	Pages 72 & 73			Prepared by: H. Ehmke				
SITE SPECIFIC DATA											
Site Benchmark:	Elevat	tion (NAVD88)	Y (N)	X (E)	Latitude:		Longitude:	Corpscon 6.0.1			
12.5265 (PBF-10R)	11.00	5	735577.78	886676.45	6676.45 26°21′20.2652″		°17'45.84244"	(NAVD88 to NGVD29)			
12.4785 (PBF-11 & 12)	10.95	7	735569.16	886679.24	26°21′20.1795	" 80	°17'45.81228"	+1.519			
Reference Elevation(s) (A	IAVD88):	Existing Brass	Tag Elevation	(Datum):	Calibr	Calibration Port Elevation(s) (NAVD88):				
PBF-10R GW1 El. 14.68			None			PBF-1	PBF-10R GW1 El. 14.68				
PBF-11 GW2 El. 13.95			None P				PBF-11 GW2 El. 13.98				
PBF-12 GW3 El. 16.44		PBF-12 GW3	17.965 11 20	14 EE JB	PBF-1	PBF-12 GW3 Not Applicable					
Ground Elevation (NAVD	88): tak	en at the corne	rs	Pad Elevation	n (NAVD88): take	en at the corners					
PBF-10R	PBF11 & PBF12		PBF-10R			PBF11 & PBF12					
NW El. 10.8 NE El. 10.5 NW El. 10.7 I			l. 10.6	NW El. 10.93 NE El. 10.94			NW El. 10.93 NE El. 10.91				
SW El. 10.8 SE El. 10.7	!	SW El. 10.7 SE E	. 10.6	SW El. 10.93	SE El. 10.94		SW El. 10.96 SE El. 10.93				
			GEO	OGRAPHIC DAT	ΓΑ						
Section 19		Township 47	South			Range 41 East					
12.5265 Benchmark		Latitude: 26	°21'20.266"	Longitude:	80°17'45.844"	Source: OPUS Session 28-sep-17					
12.5205 Benchmark		State Plane C	oordinates	Northing (Y)	= 735577.91 5	5 Easting (X) = 886676.281					
Notos		·	·	·	·		·	·			

Notes

OPUS – Online Positioning User Service provided by the National Geodetic Survey (NGS)

NAVD88 - North American Vertical Datum of 1988

NGVD29- National Geodetic Vertical Datum of 1929

Corpscon 6.0.1 - A U.S. Army Corps of Engineers Engineering Research and Development Center Topographic Engineering Center Alexandria, Virginia Windows-based program to convert coordinates and elevations between datum's using vertcon05.txt and vertcon05.05 files supplied by the U.S. Army Corps of Engineers South Atlantic Division, Jacksonville Fl.

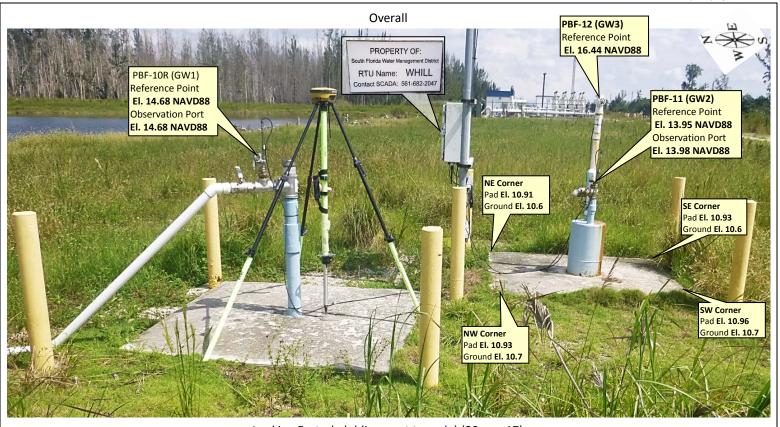
PICTURES



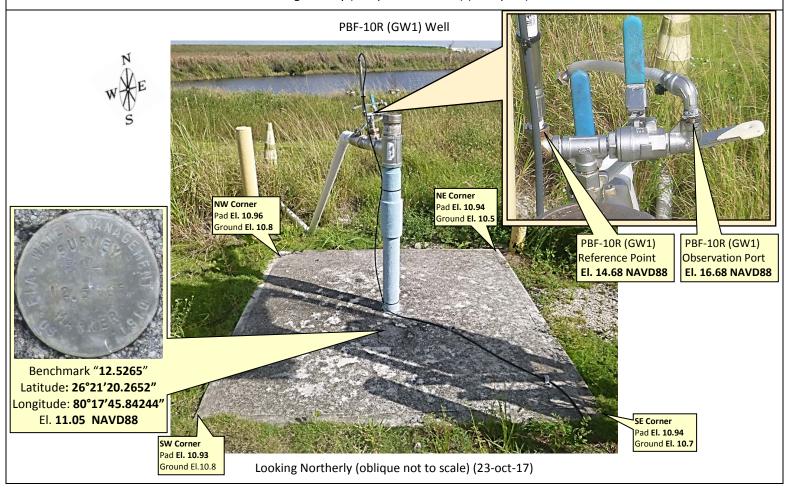
Not to scale (esri product)



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Looking Easterly (oblique not to scale) (28-sep-17),



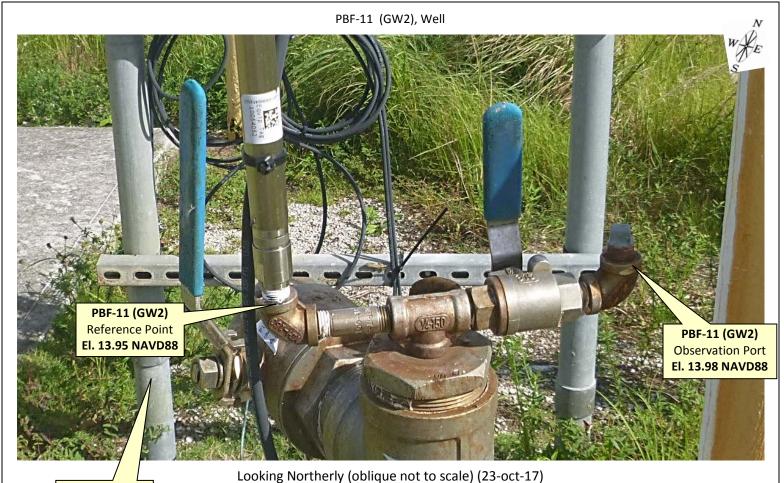


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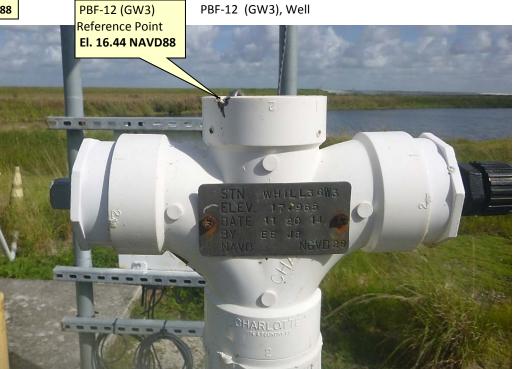




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PBF-12 (GW3) Reference Point El. 16.44 NAVD88



Looking Northerly (oblique not to scale) (23-oct-17)



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New NAVD88 Brass Tag Close-up (to be added)



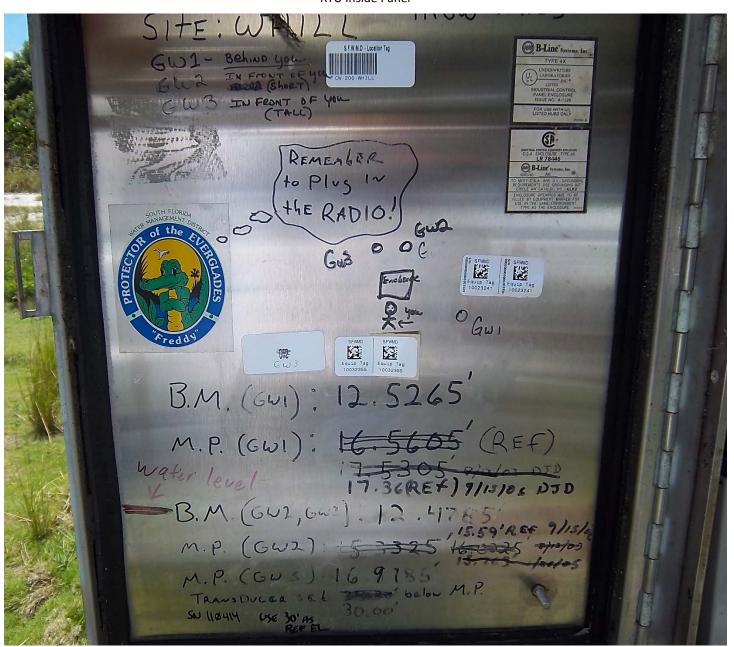
New NAVD88 Brass Tag Close-up (to be added)



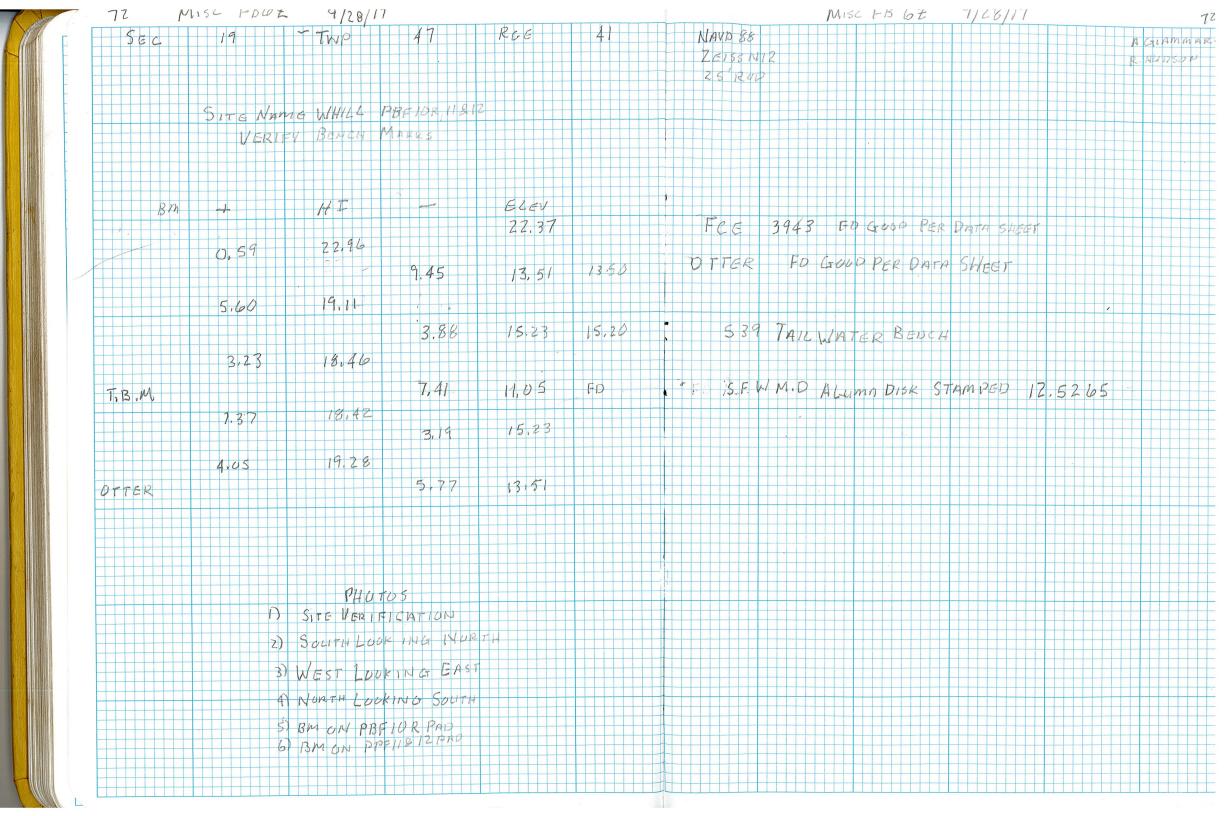
New NAVD88 Brass Tag Close-up (to be added)

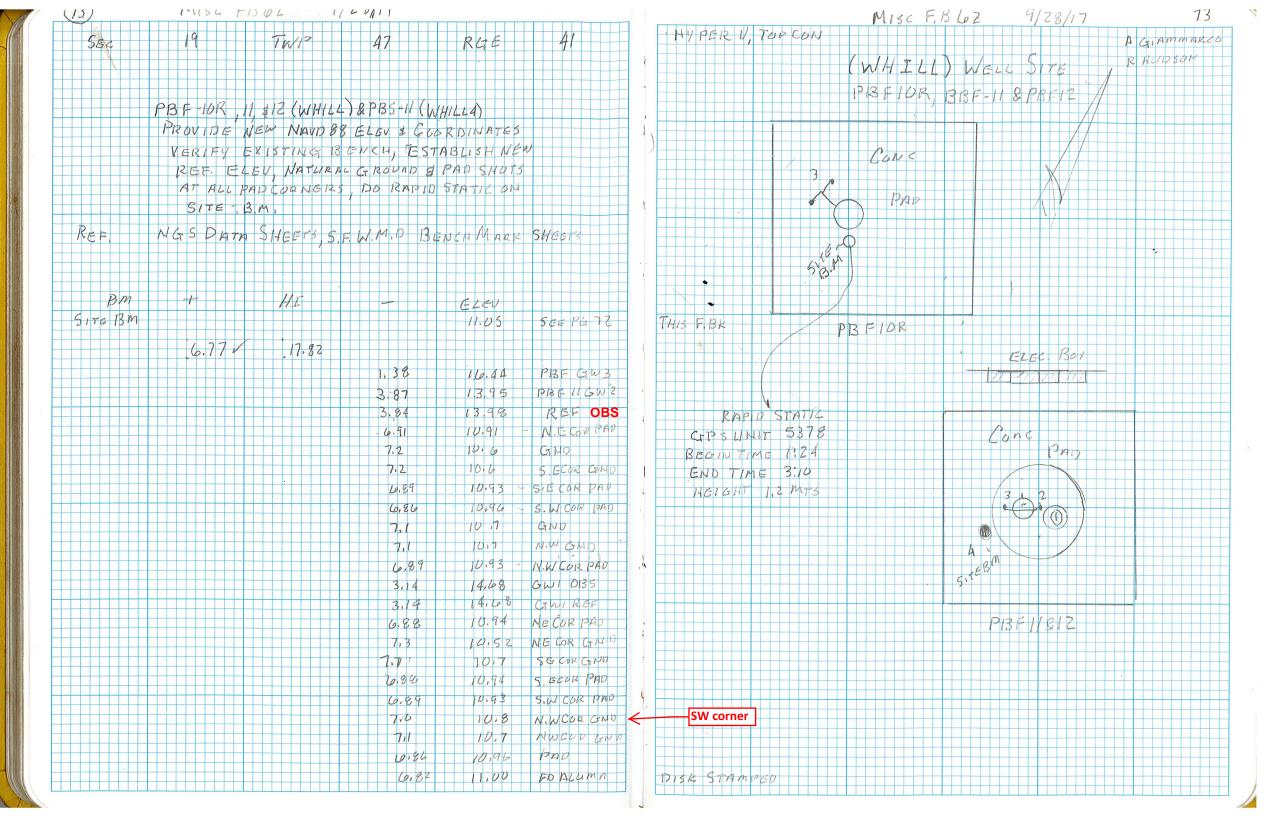


RTU Inside Panel



Looking Southerly (oblique not to scale) (09-aug-12) information purposes only







Rev. 1/16

DESIGNATION: 125265 PROJECT: WHILL Well Site **ESTABLISHED BY: BISCAYNE ENGINEERING** SURVEYOR: Giammrco DATE: 28-sep-17 RECOVERED BY: SOUTH FLORIDA WATER MANAGEMENT DISTRICT

GEOGRAPHIC POSITION

SECTION 19 TOWNSHIP 47 SOUTH RANGE 41 EAST

NAME OF QUADRANGLE: Coral Springs NE COUNTY: Palm Beach

GEOGRAPHIC INDEX OF QUAD: 1903

HORIZONTAL DATUM: 1927 (1983) Other (circle one) ZONE (E) or W

VERTICAL DATUM: MSL 1929 **1988** Other (circle one)

VERTICAL ACCURACY: 1 2 (3)

STATE PLANE NAVD 88 EL. 11.05 (N) Y= 735577.915 (E) X= 886676.281 COORDINATE NGVD 29 EL. 12.572

CORPSCON 6.0.1 CONVERSION FACTOR (NAVD88 TO NGVD29): + 1.519

LONGITUDE: 80°17'45.84430" LATITUDE: 26°21'20.26638"

RECOVERY DATA

Stamping: **EL -12.5265**

To Reach: From the intersection of State Road 7 and Lox Road, go West on Lox Road 6.8 miles to South Florida Water Management District Levee 36 and Structure 39; turn right cross over Structure 39 and go 180 feet to a dirt road on the North side of the Hillsboro Canal; turn right onto the dirt road and go Southeasterly 490 feet to WHILL well site on the left and station location. The station is located at the base of PBF-10R well;

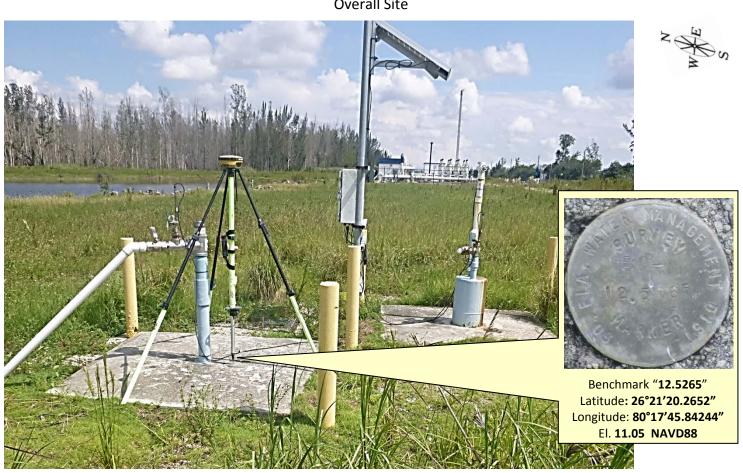
The station is a South Florida Water Management District aluminum cap stamped "EL – 12.5265 grouted into the concrete pad.

NGS SOURCE BENCHMARK: FCE3943 (AD7240)

FIELD BOOK Misc 6Z PAGE 72

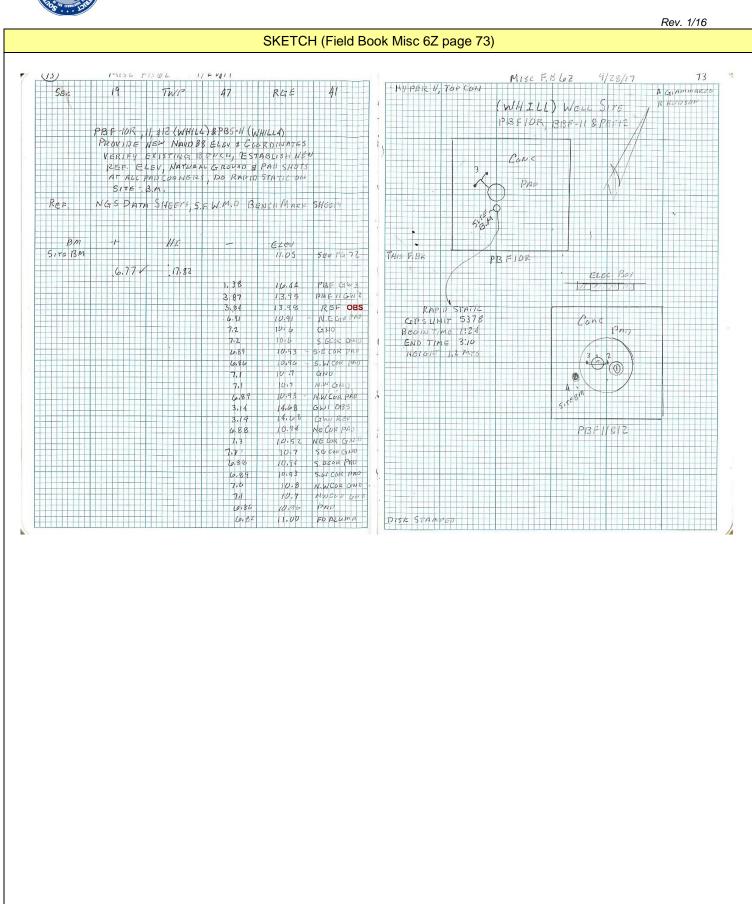
PICTURES

Overall Site



Looking Easterly (Oblique not to scale) 28-sep-17





Office

Project

1 November 2017

INPUT

State Plane, flhpgn - Florida HPGN 0901 - Florida East, U.S. Feet Vertical - NAVD88, U.S. Feet

OUTPUT

Geographic, flhpgn - Florida HPGN Vertical - NGVD29 (Custom), U.S. Feet

12.5265

1/1

Northing/Y: 735577.915 Easting/X: 886676.281 **Latitude:** 26 21 20.26637 **Longitude:** 80 17 45.84429

Elevation/Z: 0

Elevation/Z: 1.519

Convergence: 0 18 45.06282
Scale Factor: 1.000002101
Combined Factor: 1.000006081

Remark:



DBHYDRO | by station

Station	PBF-10R								
Site	WHILL								
Туре	WELL								
Latitude (ddmmss.sss)	262120.286								
Longitude (ddmmss.sss)	801745.837								
X Coord (ft) NAD83	886678.707								
Y Coord (ft) NAD83	735581.372								
County	Palm Beach								
Basin	HILLSBORO CANAL								
Section	19								
Township	47								
Range	41								
Show Map	Google Map								
Well Info	<u>Info</u>								
Description	SFWMD Western Hillsboro ASR Pilot - Injection Zone Monitor (Near)								
Notes	500 ft E of S39 Structure along N side of Hillsboro Canal, next to PBF-13								
Nearby Stations	Nearby Stations								
Attachments	Show Attachments								

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DBHYDRO | by station

STATION INFORMATION Station PBF-11 Site WHILL SUBSTATION Type Latitude (ddmmss.sss) 262120.286 Longitude (ddmmss.sss) 801745.837 X Coord (ft) NAD83 886678.707 Y Coord (ft) NAD83 735581.372 County Palm Beach HILLSBORO CANAL Basin Section 19 Township 47 41 Range Google Map Show Map Well Info Info Substation of HASR-DZMW (1515-1670 ft bls) Description Notes Nearby Stations Nearby Stations Attachments None Available Query returned 1 station record(s). Get Time Series Data Get Sample Data

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DBHYDRO | by station

STATION INFORMATION

Station	PBF-12
Site	WHILL
Туре	SUBSTATION
Latitude (ddmmss.sss)	262120.286
Longitude (ddmmss.sss)	801745.837
X Coord (ft) NAD83	886678.707
Y Coord (ft) NAD83	735581.372
County	Palm Beach
Basin	HILLSBORO CANAL
Section	19
Township	47
Range	41
Show Map	Google Map
Well Info	<u>Info</u>
Description	Substation of HASR-DZMW (2135-2260 ft bls)
Notes	
Nearby Stations	Nearby Stations
Attachments	None Available

Query returned 1 station record(s).

Get Sample Data

Get Time Series Data

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REGISTRATION WORKSHEET - WHILL Addendum

Site Name:		WHILL			Too	day's Date:	11/1/2017						Type Recorder: CR-10			
Activity:		Addendum	ı		Effe	ctive Date:	9/28/2017			Start Date of Data:						
Customer:		Steve Kruj	pa			Bus. Area:	5720		Agency:	SFWMD		In	ternal C	order: Fund:		
Project Mana	iger:	Howard E	hmke		Bus. Area: Survey & Mapping				Agency:	cy: SFWMD Contract #:						
Project Name:								1	Legal Mandate:							
Short Common Name / Description:																
Proj. Mgr. Notes: This addendum was performed to add NAVD 88 surveying data for the reference elevation. To convert to NGVD 29 add +1.519 ft.																
Site Directions: From the junction of U.S. Highway 27 and State Road 80, go west of S.R 80 for 3.58 miles to a dirt road and iron gate leading into cane fields on the right; proceed northerly for 0.5 of a mile on a rock road to two (2) parallel rock roads leading northwesterly; Turn on most northerly road and go 1.6 miles to South Florida Water Management District's (SFWMD's) Canal 43: turn right and go 1.6 miles to station location																
Site Address	(if any):															
Transportatio	on:				Lock type or combination:						#					
Recorder Location/Purpose: Stand-Alone Recorder (Non-Flow Site) Structure Type:																
Array ID Configuration table attached																
SURVI	EY INFORM	ATION														
B.M	I. Elevation:	12.527		Date: 2/9/2001						Stamp: 12.5265						
	Agency:	SFWMD			Type: ALUM					Datum: NAVD 88						
Benchmark Location/ Description From the intersection of State Road 7 and Lox Road, go West on Lox Road 6.8 miles to South Florida Water Management District Levee 36 and Structure 39; turn right cross over Structure 39 and go 180 feet to a dirt road on the North side of the Hillsboro Canal; turn right onto the dirt road and go Southeasterly 490 feet to WHILL well site on the left and station location. The station is located at the base of PBF-10R well: The station is a South Florida Water Management																
COMMUNIC	CATIONS INI	FORMATIO	N													
Communications System:					Loggernet Server:					Lo	ggernet IP Add	ress:				
Tower: Communication			on Type:				R.	R.F. Code/Modem Address:				Access I	Point:			
Pho	ne Number:															
RT	U Address:		G	ateways:												
WEL	L INFORMA	TION														
Sensor	Customer Ref	Ref Elev	Elev Date	Top of Well	Bottom of Well	Ground Elev	Benchmark Elev	Benchmark Datum	Ref Elevation Lo	cation						
GW1 GW2	PBF-10R PBF-11	14.68 13.95	9/28/2017 9/28/2017	14.68 13.95		10.8 10.7		NAVD 88 NAVD 88	Mark on top of 90 d Mark on top of 90 d			•				
GW3	PBF-12	16.44	9/28/2017	16.44		10.7	11.005	NAVD 88	Black mark at notch							
			B4								-					
Sensor		Depth of Well	Meas Pt Above BM	Type of Well	GW Sensor location											
GW1 GW2						<u> </u>										
GW3						İ										
ADDITION	ADDITIONAL GPS INFORMATION															
Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin		Co	unty				Description
GW1 GW2					19 19	47	41	_			Palm Beach					•
GW3					19				Palm Beach Palm Beach							