



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 1/16

SCADA RTU Station Name: C4368A C4368B C4368C	DB Hydro Station Name: C4368G1 C4368G2 C4368G3	DB Hydro Site Name: C4368	Agency: S.F.W.M.D	Date of Field Work: 3/27/2019
Party Chief: EBANKS	Field Book: SCADA FB# 13	Page(s): 24	Prepared by: E. Ebanks	

SITE SPECIFIC DATA

Site Benchmark(s): PZ68 2018 AMANN 2015	Benchmark Elevation(s) (NAVD88) 26.10 feet 23.72 feet	Corpscon 6.0.1 Conversion Factor (NAVD88 to NGVD29) +1.24 feet
Reference Elevation(s) (NAVD88): C4368A = 28.17 feet C4368B = 28.04 feet C4368C = 27.92 feet	Calibration Port Elevation(s) (NAVD88): N/A	
Ground Elevation (NAVD88): 24.6 feet	Pad Elevation (NAVD88): A= 24.87 feet, B= 24.62 feet, C= 24.52 feet	

GEOGRAPHIC DATA

Section 7	Township 44 South	Range 28 East	
Well(s) Gate(s) Benchmark(s)	Latitude: C4368A 26°40'14.5" C4368B 26°40'14.5" C4368C 26°40'14.4"	Longitude: C4368A -81°33'18.6" C4368B -81°33'18.7" C4368C -81°33'18.7"	Source: Garmin Handheld GPSMAP
	State Plane Coordinates	Northing (Y) = N/A	

Notes: **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

Aerial of Overall Site

Not to scale (esri product)

C4368C
Latitude: **26°40'14.4"**
Longitude: **- 81°33'18.7"**

C4368B
Latitude: **26°40'14.5"**
Longitude: **- 81°33'18.7"**

C4368A
Latitude: **26°40'14.5"**
Longitude: **-81°33'18.6"**

BMPZ68
Latitude: **26°40' 14.3"**
Longitude: **- 81°33'18.9"**
El. **26.10 feet NAVD88**

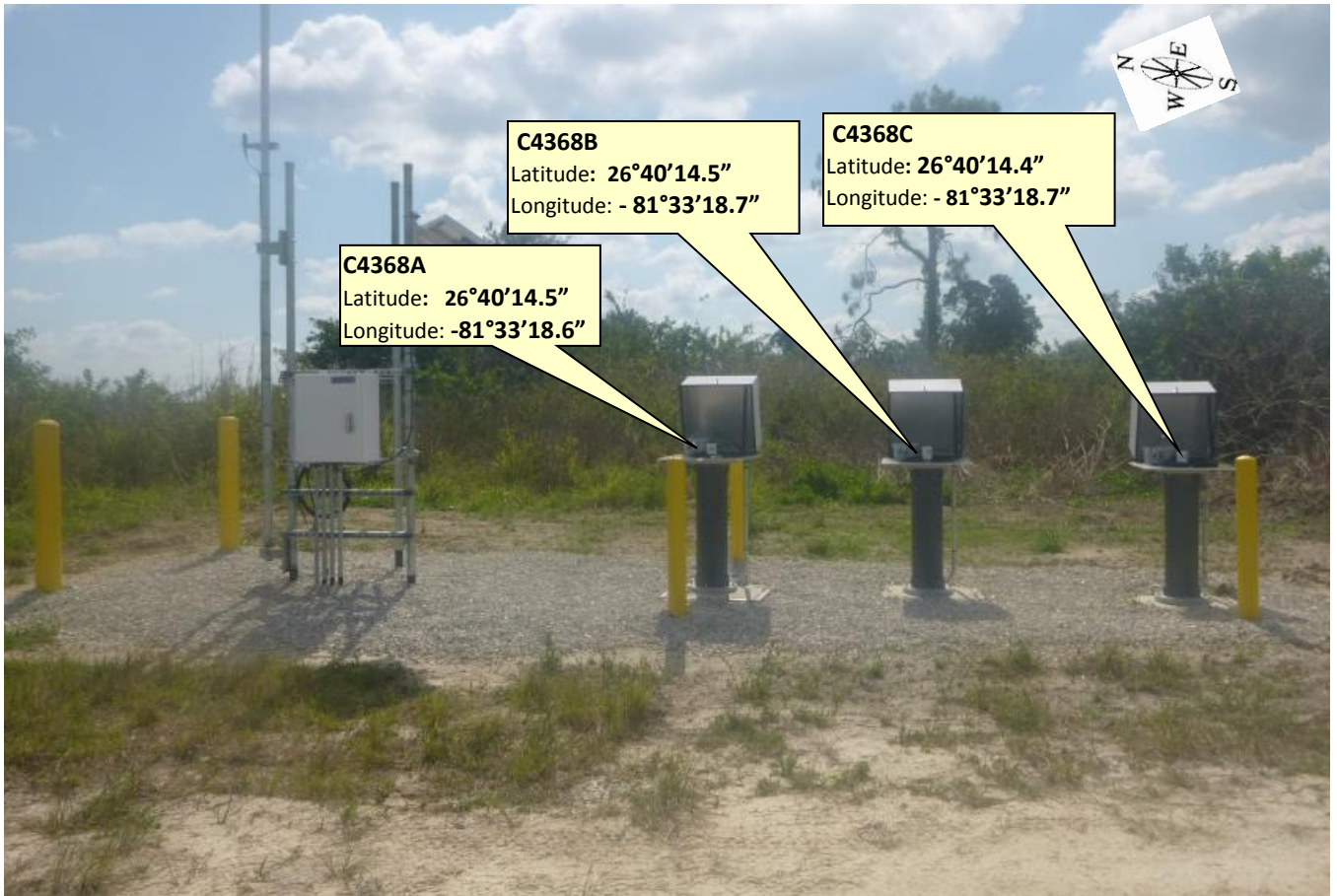
Benchmark "AMANN"
Latitude: **26°40 '14.8 "**
Longitude: **- 81°33'18.3"**
El. **23.72 feet NAVD88**



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C4368 Well Site





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C4368 Wells





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"PZ68" Benchmark Location Benchmark: El.26.10 feet (NAVD88)





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" PZ68 " Benchmark Datasheet (1 of 1)



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DESIGNATION: PZ 68		PROJECT: C-43 VERTICAL CONTROL SURVEY FOR PIEZOMETER WELLS	
ESTABLISHED BY: J. HAYWOOD		SURVEYOR: SCOTT URQUHART	
RECOVERED BY		DATE: FEBRUARY 19, 2018	
GEOGRAPHIC POSITION			
SECTION: 7	TOWNSHIP: 44 SOUTH	RANGE: 28 EAST	
COUNTY: HENDRY	NAME OF QUADRANGLE: ALVA		
	GEOGRAPHIC INDEX OF QUAD:		
HORIZONTAL DATUM: 1927 (1983) Other _____ (circle one) ZONE (E) or W			
VERTICAL DATUM: MSL 1929 (1988) Other N/A (circle one)			
CONTROL ACCURACY: HORIZONTAL 1 2 (3) _____ (circle one) VERTICAL 1 2 (3) N/A			
STATE PLANE COORDINATES	X = 474829.9	Y = 849831.7	NAVD 88 ELEV. 26.10' NGVD 29 ELEV. 27.35'
LATITUDE = N26° 40' 14.18"		LONGITUDE = W81° 33' 19.02"	
RECOVERY DESCRIPTION			
Stamping: SET ALUMINIUM DISK SO. FLA. WATER MANAGEMENT DIST. "PZ 68 LB 7975 2018"			
To Reach: To reach the station from the intersection of S.R. 80 and West Cowboy Way, Go along S.R. 80 southwest for 3.9 miles to Congen Rd. on the left. Go along Congen Rd. South 0.14 miles to gate (SFWMD Lock) continue South 0.4 miles to the intersection of an East-West dirt road. Thence go West along dirt road for 3.0 miles to the junction of a North-South dirt road. Thence South along the dirt road for 2.2 miles. The marker is on the right.			
Notable Land marks: PZ 68, is an aluminum disk set in the southeast corner of a concrete bridge. 120.40 ft. southwest of a wood power pole. 80.95 ft. West of NGS bench mark AMANN. 35.35 ft. northwest of the northwest bollard around monitoring well. 1 ft. West of the East edge of the concrete bridge.			
FIELD BOOK: 510		PAGE: 30&31	



"AMANN" Benchmark Datasheet (1 of 2)

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.3

1 National Geodetic Survey, Retrieval Date = DECEMBER 28, 2017

DP7137 *****

DP7137 DESIGNATION - AMANN
DP7137 BID - DP7137
DP7137 STATE/COUNTY- FL/HENDRY
DP7137 COUNTRY - US
DP7137 USGS QUAD - ALVA (1973)

DP7137
DP7137 *CURRENT SURVEY CONTROL
DP7137

DP7137* NAD 83(1986) POSITION- 26 40 14.71 (N) 081 33 16.36 (W) HD_HELDT
DP7137* NAVD 88 ORTHO HEIGHT - 7.229 (meters) 23.72 (feet) ADJUSTED
DP7137
DP7137 GEOID HEIGHT - -24.481 (meters) GEOID12B
DP7137 DYNAMIC HEIGHT - 7.217 (meters) 23.68 (feet) COMP
DP7137 MODELED GRAVITY - 979,074.3 (mgal) NAVD 88

DP7137 VERT ORDER - SECOND CLASS I
DP7137

DP7137.The horizontal coordinates were determined by differentially corrected
DP7137.hand held GPS observations or other comparable positioning techniques
DP7137.and have an estimated accuracy of +/- 3 meters.

DP7137.The orthometric height was determined by differential leveling and
DP7137.adjusted by the NATIONAL GEODETIC SURVEY
DP7137.in May 2015.

DP7137.Significant digits in the geoid height do not necessarily reflect accuracy.
DP7137.GEOID12B height accuracy estimate available [here](#).

DP7137 [Photographs](#) are available for this station.

DP7137.The dynamic height is computed by dividing the NAVD 88
DP7137.geopotential number by the normal gravity value computed on the
DP7137.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DP7137.degrees latitude (g = 980.6199 gals.).

DP7137.The modeled gravity was interpolated from observed gravity values.

DP7137; North East Units Estimated Accuracy
DP7137;SPC FL E - 259,045.4 144,746.8 MT (+/- 3 meters HHI GPS)

DP7137 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK4476550089(NAD 83)

DP7137 SUPERSEDED SURVEY CONTROL

DP7137.No superseded survey control is available for this station.

DP7137_MARKER: F = FLANGE-ENCASED ROD
DP7137_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)



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" AMANN " Benchmark Datasheet (2 of 2)

DATASHEETS

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DP7137_STAMPING: AMANN 2015
 DP7137_MARK LOGO: CARDNO
 DP7137_PROJECTION: RECESSED 18 CENTIMETERS
 DP7137_MAGNETIC: 0 = OTHER; SEE DESCRIPTION
 DP7137_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 DP7137_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 DP7137+SATELLITE: SATELLITE OBSERVATIONS - January 08, 2015
 DP7137_ROD/PIPE-DEPTH: 15.6 meters
 DP7137

HISTORY	Date	Condition	Report By
HISTORY	- 20150108	MONUMENTED	CARDNO

 DP7137
 DP7137
 DP7137 STATION DESCRIPTION
 DP7137
 DP7137'DESCRIBED BY CARDNO INC 2015 (JH)
 DP7137'THE STATION IS LOCATED APPROXIMATELY 9 MI (14.5 KM) SOUTHWEST OF
 DP7137'LABELLE, 3.9 MI (6.3 KM) SOUTHEAST OF ALVA.
 DP7137'
 DP7137'THE STATION IS ON THE PROPERTY OF THE SOUTH FLORIDA WATER MANAGEMENT
 DP7137'DISTRICT.
 DP7137'
 DP7137'TO REACH THE STATION FROM THE INTERSECTION OF STATE ROAD 80 (PALM
 DP7137'BEACH BLVD) AND WEST COWBOY WAY ON THE SOUTHWEST SIDE OF LABELLE, GO
 DP7137'SOUTHWEST ALONG STATE ROAD 80 FOR 3.9 MI (6.3 KM) TO CONGEN ROAD ON
 DP7137'THE LEFT (SOUTH), GO SOUTH ALONG CONGEN ROAD 0.14 MI (0.2 KM) TO
 DP7137'GATE(PASS THROUGH GATE WITH SFWMD LOCK). CONTINUE SOUTH 0.4 MI (0.6
 DP7137'KM) TO THE JUNCTION OF AN EAST - WEST DIRT ROAD, THENCE 3.0 MI (4.8
 DP7137'KM) SOUTHWEST ALONG DIRT ROAD TO THE JUNCTION OF A NORTH - SOUTH DIRT
 DP7137'ROAD, THENCE 2.2 MI (3.5 KM) OUTH AND SOUTHEAST ALONG DIRT ROAD TO A
 DP7137'THE MARK ON THE LEFT.
 DP7137'
 DP7137'IT IS 130.5 FT (39.8 M) SOUTHEAST OF A WOOD POWER POLE WITH EAST -
 DP7137'WEST RUNNING LINES, 79.3 FT (24.2 M) NORTHEAST OF THE NORTHEAST CORNER
 DP7137'OF A CONCRETE BRIDGE, 41 FT (12.5 M) EAST OF THE CENTERLINE OF A DIRT
 DP7137'ROAD, 19 FT (5.8 M) SOUTHWEST OF THE TOP OF BANK OF A CANAL AND 2 FT
 DP7137'(0.6 M) NORTHWEST OF A CARSONITE WITNESS POST.
 DP7137'
 DP7137'NOTE ACCESS TO THE DATUM POINT IS THROUGH A 8 INCH (13 CM) LOGO CAP.

 *** retrieval complete.
 Elapsed Time = 00:00:01



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C4368 Field Notes (1 of 1)

SCADA FB#13 3/27/19 24

SEC 7 TWP 44 R6E 28 E. BANES
SCHMIDT

ESTABLISH REFERENCE ELEV. FOR C-43 RESERVOIR
PIEZOMETER WEELS PZ68,

STA	H	HI	-	ELEV	REMARKS
BM PZ68	2.97	29.07		26.10	
GW 1 = A			0.90	28.17	
GW 2 = B			1.03	28.04	
GW 3 = C			1.15	27.92	
CONC PAD A			4.20	24.87	
CONC PAD B			4.40	24.67	
CONC PAD C			4.55	24.52	
GROUND N+20'			4.7	24.37 ✓	
GROUND E+20'			4.3	24.77 ✓	24.6
GROUND S+20'			4.3	24.77 ✓	
GROUND W+20'			4.4	24.67 ✓	
BM AMANN			5.36	23.71	
BM AMANN	5.30	29.01			
GW 3 = C			1.09	27.92	
GW 2 = B			0.97	28.04	
GW 1 = A			0.85	28.16	
BM PZ68			2.92	26.09 ✓	