

Identification_Information:

Citation:

Citation_Information:

Originator: Sherry Kopec(comp.)
 Originator: Pickett & Associates, Inc. (ed.)
 Publication_Date: Unpublished material
 Publication_Time: Unknown
 Title: S. F. W. M. D. Well CRS01
 Edition: 1
 Publication_Information:
 Publication_Place: Not published
 Publisher: None
 Online_Linkage: skopec@pickett-inc.com

Description:

Abstract:

South Florida Water Management District
 Well CRS01

Purpose:

To establish NAVD 88 and NGVD 29 elevations on the well platform at the reference mark.
 Also establish a nearby site benchmark.

Supplemental_Information:

There are combination locks on the wells.
 See point of contact for combinations.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20030321

Time_of_Day: 14340000

Currentness_Reference: Date and time of field work.

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -081° 18' 05. 4"

East_Bounding_Coordinate: -081° 18' 04. 4"

North_Bounding_Coordinate: +26° 47' 20. 3"

South_Bounding_Coordinate: +26° 47' 16. 6"

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Record Survey

Theme_Keyword: Well Site

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: S. F. W. M. D. Well CRS01

Place_Keyword: Sec. 26, Twp. 42 S., Rge. 30 E.

Place_Keyword: Glades County, Florida

Place_Keyword_Thesaurus: Geographic Names Information System

Place_Keyword: Florida

Place_Keyword: Glades County

Place_Keyword: CRS01

Access_Constraints: None

Use_Constraints: None

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Elvie D. Ebanks

Contact_Organization: South Florida Water Management District

Contact_Position: Professional Surveyor & Mapper

Contact_Address:

Address_Type: mailing and physical address

Address: 8894 Belvedere Road

City: West Palm Beach

State_or_Province: Florida

Postal_Code: 33411

Country: USA

Contact_Voice_Telephone: (561) 686-8800, Ext. 4717

Contact_Facsimile_Telephone: (561) 791-4093

Contact_Electronic_Mail_Address: eebanks@sfwmd.gov

Hours_of_Service: 8:00 am to 5:00 pm EST

Sherry Kopec**Pickett & Associates, Inc.****Purpose****Survey Date****Elvie Ebanks****SFWMD**

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

This survey was prepared using GPS and conventional Leveling. The horizontal location of the wells and benchmark were determined using DGPS.

The vertical control was performed using a Zeiss DINI 20 electronic digital level.

Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/99.

Elevations are based on NAVD 88 and NGVD 29.

Logical_Consistency_Report:

Horizontal data was established using DGPS technology.

Project Results

Vertical data were established with differential leveling using control point HEN_49(AD8262).

Completeness_Report:

Horizontal location taken at approximate center of wells.

CRS01N

Well CRS01N

Lat. +26° 47' 19.8"

Long. -081° 18' 05.1"

N 892532

E 557836

Existing reference mark is an arrow on the inside of the SE side of a 2" PVC pipe with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 23.245' for Well #1, 23.245' for Well #2, and 18.91' for STAGE Dated 10/28/99 with initials EE/AW.

New leveled elevations.

21.942' (NAVD 88)

23.232' (NGVD 29) based on superseded elevation on

CRS01

benchmark HEN_49(AD8262)

Well CRS01 (6' West of CRS01N)

Lat. +26° 47' 19.8"

Long. -081° 18' 05.2"

N 892531

E 557830

Existing reference mark is an arrow on the inside of the west side of a 2" PVC pipe with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 23.245'.

New leveled elevations.

21.945' (NAVD 88)

23.235' (NGVD 29) based on superseded elevation on

PSTAC1

benchmark HEN_49(AD8262)

Well PSTAC1 (and Staff Gauge)

Lat. +26° 47' 20.3"

Long. -081° 18' 05.4"

N 892580

E 557811

Existing reference mark is an "X" on the plywood with an NGVD 29 elevation of 18.91' Dated 10/28/99 with initials EE/AW. Pipe is 8" PVC.

New leveled elevations.

17.565' (NAVD 88)

18.855' (NGVD 29) based on superseded elevation on

CRS01F

benchmark HEN_49(AD8262)

Well CRS01F

Lat. +26° 47' 16.6"

Long. -081° 18' 04.4"

N 892207

E 557903

There are two PVC pipes in this well, pipe "S" and pipe "O". One horizontal location was taken for this well, however an elevation was taken for each pipe.

Existing reference mark is an arrow on the inside of the NW side of the two 2" PVC pipes with the elevation taken on top of the rim of the pipe with an NGVD 29 elevation of 17.84' for Well #1 and 17.90' for Well #2 Dated 10/28/99 with initials EE/AW.

New leveled elevations for Pipe "S" (northerly pipe).

16.533' (NAVD 88)

17.823' (NGVD 29) based on superseded elevation on

WELL-CRS01.met

benchmark HEN_49(AD8262)
New leveled elevations for Pipe "0" (southerly pipe).
16.594' (NAVD 88)
17.884' (NGVD 29) based on superseded elevation on
benchmark HEN_49(AD8262)
Site Benchmark.

"HEN_49B" is an aluminum disc set in concrete stamped
"SO. FLA. WATER MANAGEMENT DIST. 1998 SURVEY
MARKER BM HEN 49B"

To reach from the Courthouse in Labelle, go East on
S.R. 80 (8.3 Miles) to Dalton Lane S.W. Turn left
And go North on Dalton Lane S.W. for (1.5 Miles) to guard
shack at entrance to Ortona Locke Campground.
Proceed East through campground for 0.5 Miles to the
station on left.

Station CRS01F is 150 +/- South from CRS01N
PSTAC is 40' +/- North on dock
Benchmark "HEN 49B" is 30' +/- South at SW corner of
concrete pad at campsite #21.
United States Department of the Interior Geological Survey
Quadrangle Map -- GOODNO

Location of HEN_49B

Lat. +26° 47' 19.0"

Long. -081° 18' 05.0"

N 892450

E 557839

Elevations.

23.144' (NAVD 88)

24.434' (NGVD 29) based on superseded elevation on

benchmark HEN_49(AD8262)

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal

Horizontal_Positional_Accuracy_Report:

The horizontal positions of the wells and benchmark
HEN_49B were established with DGPS technology in
accordance with the Florida Minimum Technical Standards
(Chapter 61G17-6).

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 1 meter

Horizontal_Positional_Accuracy_Explanation: The intended

positional accuracy for this survey is 1 meter.

Vertical_Positional_Accuracy:

Level Line

Vertical_Positional_Accuracy_Report:

Levels were run between HEN_49(AD8262) and
S_414(AD8263) the published elevations agreed within
0.004'. A level line was run from HEN_49(AD8262) to the
site benchmark and back. The closure exceeded the
requirements for vertical control according to the Minimum
Technical Standards for surveys (FAC CH 61G17-6).

The NGVD 29 elevation established for this survey was
determined by using superseded elevation for benchmark
HEN_49(AD8262). SFWMD published elevation on
benchmark HEN_49B agreed with the superseded
elevation.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.005 m

Vertical_Positional_Accuracy_Explanation: NAVD 88 level run,

0.005m closure in 6,403m, max. allowed 0.031m (MTS)

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.005 m

Vertical_Positional_Accuracy_Explanation: NAVD 29 level run,

0.005m closure in 6,403m, max. allowed 0.031m (MTS)

Lineage:

Process_Step:

Process_Description:

The horizontal work was performed using a Trimble GPS
4700 unit with DGPS PRO Beacon for differential
corrections. The level line was performed using a ZEISS
DINI 20 electronic digital level.

Process_Date: 20030318

Process_Time: 18000000

Metadata_Reference_Information:

Metadata_Date: 20030319

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Greg A. Prather, PSM

Contact_Organization: Pickett & Associates, Inc.

Contact_Position: Director of Surveying

Contact_Address:

Address_Type: mailing and physical address

Address: 475 South First Avenue

City: Bartow

State_or_Province: Florida

Postal_Code: 33830

Country: USA

Contact_Voice_Telephone: (863) 533-9095

Contact_Facsimile_Telephone: (863) 534-1464

Contact_Electronic_Mail_Address: gprather@pickett-inc.com

Hours_of_Service: 8:00 am to 5:00 pm EST

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: Local time

Well - CRS 01



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - CRS 01



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - CRS 01F



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: South

Well - CRS 01F



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: South

Well - CRS 01N



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - CRS 01N



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - CRS 01N



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - PSTAC 1



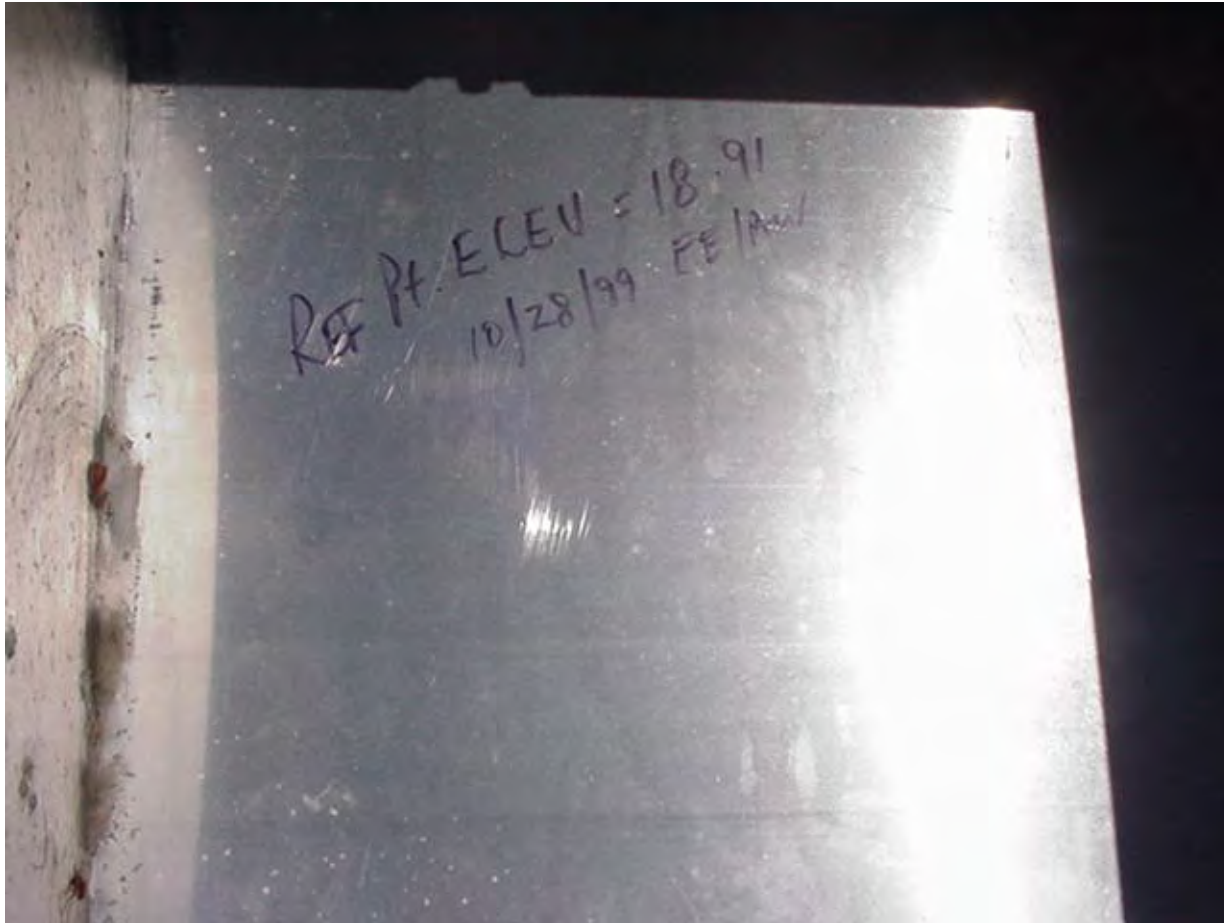
Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - PSTAC 1



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - PSTAC 1



Pickett & Associates, Inc.

Date of Survey: February 18, 2003

Looking: ?

Well - PSTAC 1 Staff Gauge



Pickett & Associates, Inc.
Date of Survey: February 18, 2003
Looking: North

Well - BM Hen 49B



Pickett & Associates, Inc.
Date of Survey: February 18, 2003

114
561-22 12189-1 SFWD

K. ROYER
R. BICKEL
3-21-03

- SITE PSTAC 1

COMB LOCK - 6745

WRITING: REF PT ELEV. = 18.91 PSTAC 1

10/28/99 EE/AW

PIPE: 8" P.V.C.

- SITE CRSØIN

COMB LOCK - 6745

WRITING: REF PT ELEV = STAGE = 18.91
WELL 1 = 23.245
WELL 2 = 23.245

10/28/99 EE/AW

PIPE: 2" P.V.C.

WELL 6' WEST

COMB LOCK - 6745

WRITING: REF PT
ELEV = 23.245

PIPE = 2" P.V.C.

- SITE CRSØIF

COMB LOCK - 6745

WRITING: REF PT ELEV = WELL 1 = 17.84'
WELL 2 = 17.90'
10/28/99 EE/AW

PIPE: (2) 2" P.V.C.'s

- SITE MUSE

NORTH WELL

WRITING = REF PT

ELEV. = 50.34

TOP OF 4" WELL

MASTER KEY LOCK

SOUTH WELL

EL = 50.665

2" PVC PIPE

MASTER KEY LOCK

S.F.W.M.D.#12188-1

K. ROYER
P. SLOAN
02-18-03

5/

68° CLEAR/BREEZY

TRIMBLE 4700 DGPS

CRS01 F CRS01 N

DGPS FILE NAME: 12188-0218

PT # DESCRIPTION

100	Alum. Disc STAMPED HEN 49B
101	CRS01N WELL
102	CRS01 WELL
103	PSTAC 1 WELL (OUT ON DOCK)
137	TBM 110 PR NAIL & BRASS Disc "LB 3104"

6/

S.F.W.M.D. # 12188-1

K. ROYER
P. SLOAN
2-18-03

CRS01 F CRS01 N

PICTURES (DIGITAL CAMERA)

Disk: 1

PICTURE DESCRIPTION

1	OVERHEAD SHOT BM HEN 498
2	CRS01 N (LOOKING NORTH)
3	CRS01 (LOOKING NORTH)
4	PSTAC 1 (LOOKING NORTH)
5	STAFF GAUGE (LOOKING NORTH)
6	PSTAC 1 INTERIOR (OVERHEAD)
7	PSTAC 1 INTERIOR
8	CRS01 INTERIOR (OVERHEAD)
9	CRS01 N INTERIOR
10	CRS01 N INTERIOR (OVERHEAD)
11	CRS01 F LOOKING SOUTH
12	CRS01 F INTERIOR (OVERHEAD)

LEVEL TO MONITORING WELLS :

STAFF GAUGE

* USED BM "HEN 498" EL = 23.161

+ SHOT = 0.657 HI = 23.818

	EL	DESC
-	18.92	GRD @ CRS01 N SE SIDE PIPE REF MARK @ CRS01 N
1.853	21.966	GRD @ CRS01 SE SIDE PIPE REF MARK @ CRS01
5.031	18.788	GRD @ CRS01 SE SIDE PIPE REF MARK @ CRS01
1.849	21.969	REF MARK @ CRS01 "X ON BOX"
6.233	17.589	REF MARK PSTAC 1
10.489	13.329	3" I.P.
* USE 3" I.P.	EL = 13.329	
+ = 9.652	HI = 22.981	
- 12.307	EL 10.674	DESC 12' MARK ON GAUGE WATER IS 11.10 ON GAUGE
+ HI	- EL	
10.511	23.84	3" I.P.
	0.672	BM HEN 498
	23.168	

8

SFWD 12188-1

K ROYER
P SLOAN
2-18-03

LEVEL LOOP TO BM HEN 493

TP	+	HI	-	EL	BME	DESC
1	7.575	26.175			18.60	TBM 110 PK NAIL: BRASS DISC "LB 364"
2	5.596	27.899	3.872	22.303		SCREWDRIVER SET PK NAIL: DISC "LB 364"
3	4.894	28.084	4.710	23.190		S. EOP CAMPGROUND @ LOT 12 (TBM 200) ALUM DISC IN CONC. STAMPED "HEN 493"
4	4.816	27.977	4.923	23.161		SCREWDRIVER
5	4.535	27.727	4.785	23.192		SCREWDRIVER
6	3.572	26.392	4.907	22.820		SCREWDRIVER
7			7.792	18.60	18.60	TBM 116 SEE ABOVE

6

Copied from Book 469, Pages 23-24

11/14/02

Level Loop For Site CR=01

TP	+	HI	-	EL	BM EL	Description
1	5.775				18.740	Hen 49
2	3.696		5.478			
3	3.791		5.983			
4	5.864		5.925			
5	5.235		5.462			
6	5.233		5.540			
7	5.323		5.748			
8	5.485		5.056			
9	5.107		5.265			
10	5.051		5.351			
11	5.118		5.203			
12	3.395		5.243			TBM III
13	5.002		5.010			
14	5.285		5.203			

Cont on p. 8

TP	+	HI	-	EL	BM EL	Desc
15	4.694		4.152			
16	7.896		5.546			
17	5.611		3.509			
18	3.651		4.052			TBM 110
19	2.732		6.708			
20	6.314		5.971			
21	4.619		5.804			
22	4.734		5.216			
23	5.436		4.395			
24	5.271		3.821			TBM 111
25	5.087		5.109			
26	5.315		5.063			
27	5.352		5.124			
28	5.160		5.290			
29	4.988		5.337			
30	5.316		4.907			TBM 110

Cont on P. 10

10

TP + HI - EL

31 5.475 5.062

32 5.530 5.210

33 5.966 5.959

34 5.914 3.812

35 5.340 3.630

36 5.633

BMEL

DESC

Hen 49

Level Loop HEN 49 to S 414

TP	+	HI	-	EL
----	---	----	---	----

BMEL

DESC

1	4.628			
---	-------	--	--	--

18.740

HEN 49

2	5.330		4.861	
---	-------	--	-------	--

3	4.934		4.874	
---	-------	--	-------	--

4	5.201		5.097	
---	-------	--	-------	--

5	4.798		5.390	
---	-------	--	-------	--

6	4.671		5.053	
---	-------	--	-------	--

7	5.066		4.611	
---	-------	--	-------	--

8	5.908		5.180	
---	-------	--	-------	--

9	5.048		4.889	
---	-------	--	-------	--

10	5.123		5.215	
----	-------	--	-------	--

11	3.886		5.213	
----	-------	--	-------	--

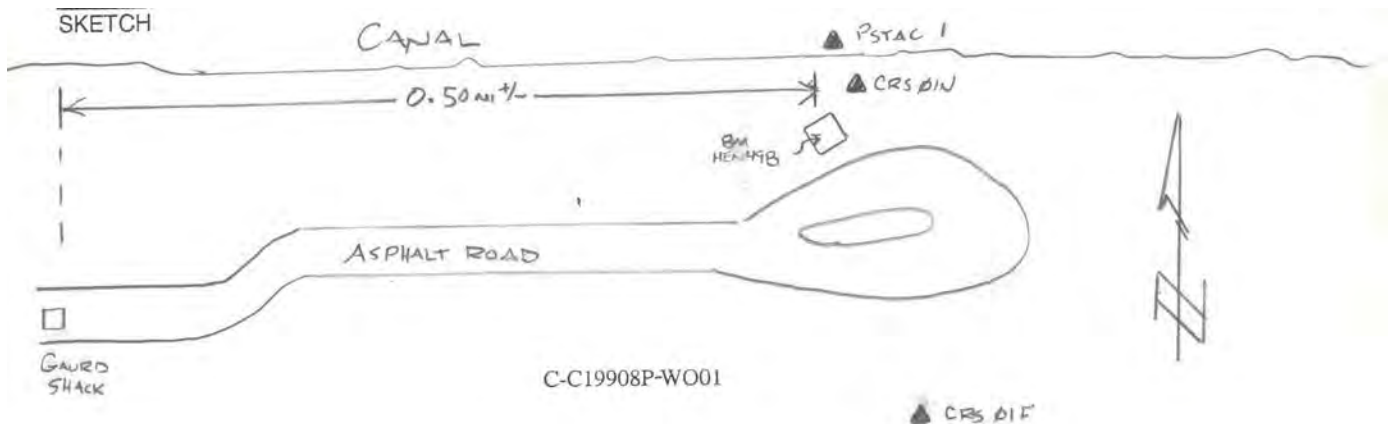
12			7.714	
----	--	--	-------	--

S 414



COUNTY: Glades	PROJECT: Well Sites	DESIGNATION: HEN_49B
SECTION 26	TOWNSHIP 42 SOUTH	RANGE 30 EAST
GEOGRAPHIC INDEX OF QUAD: Florida		
Established by _____ Recovered by <u> X </u> Pickett & Associates, Inc.		NAME OF QUADRANGLE: Goodno
SURVEYOR: Kyle Royer DATE: 2/18/2003		FIELD BOOK: 561-22 PAGE: 4-8, 12-14
HORIZONTAL DATUM: NAD 83/99 ZONE: EAST		
VERTICAL DATUM: NAVD 1988, NGVD 1929 (NGS superseded control), & NGVD 1929 (SFWMD previously published elevation)		
CONTROL ACCURACY: HORIZONTAL N/A VERTICAL 1 2 (3)		
STATE PLANE COORDINATES Feet	X 557839	Y 892450 EL. = 23.144' (NAVD 88) EL. = 24.434' (NGS NGVD 29) EL. = 24.435' (SFWMD NGVD 29)
LATITUDE: 26°47'19.0" N LONGITUDE: 80°18'05.1" W		
DESCRIPTION		
To Reach: From the Courthouse in Labelle, go East on S.R. 80 (8.3 Miles) to Dalton Lane S.W. Turn left		
And go North on Dalton Lane S.W. for (1.5 Miles) to guard shack at entrance to Ortona Locke Campground.		
Proceed East through campground for 0.5 Miles to the station on left.		
Station CRS01F is 150 +/- South from CRS01N		
PSTAC is 40' +/- North on dock		
Benchmark "HEN 49B" is 30' +/- South at SW corner of concrete pad at campsite #21		

SKETCH





The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.12.1
1      National Geodetic Survey,  Retrieval Date = MARCH 30, 2017
AD8262 *****
AD8262 DESIGNATION - HEN 49
AD8262 PID - AD8262
AD8262 STATE/COUNTY- FL/GLADES
AD8262 COUNTRY - US
AD8262 USGS QUAD - GOODNO (1973)
AD8262
AD8262 *CURRENT SURVEY CONTROL
AD8262
AD8262* NAD 83(2011) POSITION- 26 46 06.32356(N) 081 18 14.88681(W) ADJUSTED
AD8262* NAD 83(2011) ELLIP HT- -18.753 (meters) (06/27/12) ADJUSTED
AD8262* NAD 83(2011) EPOCH - 2010.00
AD8262* NAVD 88 ORTHO HEIGHT - 5.711 (meters) 18.74 (feet) ADJUSTED
AD8262
AD8262 GEOID HEIGHT - -24.454 (meters) GEOID12B
AD8262 NAD 83(2011) X - 861,549.049 (meters) COMP
AD8262 NAD 83(2011) Y - -5,632,967.245 (meters) COMP
AD8262 NAD 83(2011) Z - 2,855,321.224 (meters) COMP
AD8262 LAPLACE CORR - -0.18 (seconds) DEFLEC12B
AD8262 DYNAMIC HEIGHT - 5.702 (meters) 18.71 (feet) COMP
AD8262 MODELED GRAVITY - 979,103.8 (mgal) NAVD 88
AD8262
AD8262 VERT ORDER - FIRST CLASS II
AD8262
AD8262 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8262 Standards:
AD8262 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AD8262 Horiz Ellip SD_N SD_E SD_h (unitless)
AD8262 -----
AD8262 NETWORK 2.00 2.80 0.82 0.81 1.43 -0.14927089
AD8262 -----
AD8262 Click here for local accuracies and other accuracy information.
AD8262
AD8262
AD8262.The horizontal coordinates were established by GPS observations
AD8262.and adjusted by the National Geodetic Survey in June 2012.
AD8262
AD8262.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AD8262.been affixed to the stable North American tectonic plate. See
AD8262.NA2011 for more information.
AD8262
AD8262.The horizontal coordinates are valid at the epoch date displayed above
AD8262.which is a decimal equivalence of Year/Month/Day.
AD8262
AD8262.The orthometric height was determined by differential leveling and
AD8262.adjusted by the NATIONAL GEODETIC SURVEY
AD8262.in September 1992.
AD8262
AD8262.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8262.GEOID12B height accuracy estimate available here.
AD8262
AD8262.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AD8262

```

AD8262.The Laplace correction was computed from DEFLEC12B derived deflections.

AD8262

AD8262.The ellipsoidal height was determined by GPS observations

AD8262.and is referenced to NAD 83.

AD8262

AD8262.The dynamic height is computed by dividing the NAVD 88

AD8262.geopotential number by the normal gravity value computed on the

AD8262.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

AD8262.degrees latitude (g = 980.6199 gals.).

AD8262

AD8262.The modeled gravity was interpolated from observed gravity values.

AD8262

AD8262. The following values were computed from the NAD 83(2011) position.

AD8262

AD8262;		North	East	Units	Scale Factor	Converg.
AD8262;SPC FL E	-	269,782.615	169,753.197	MT	0.99995247	-0 08 13.1
AD8262;SPC FL E	-	885,111.80	556,931.95	sFT	0.99995247	-0 08 13.1
AD8262;UTM 17	-	2,960,822.547	469,763.517	MT	0.99961129	-0 08 13.1

AD8262

AD8262! - Elev Factor x Scale Factor = Combined Factor

AD8262!SPC FL E - 1.00000295 x 0.99995247 = 0.99995542

AD8262!UTM 17 - 1.00000295 x 0.99961129 = 0.99961423

AD8262

AD8262_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK6976360822(NAD 83)

AD8262

AD8262 SUPERSEDED SURVEY CONTROL

AD8262

AD8262	NAD 83(2007)-	26 46 06.32371(N)	081 18 14.88752(W)	AD(2002.00)	0
AD8262	ELLIP H (02/10/07)	-18.733 (m)		GP(2002.00)	
AD8262	NAD 83(1999)-	26 46 06.32398(N)	081 18 14.88791(W)	AD()	1
AD8262	ELLIP H (12/12/02)	-18.748 (m)		GP()	4 1
AD8262	NAVD 88	5.71 (m)	18.7 (f)	LEVELING	3
AD8262	NGVD 29 (09/01/92)	6.104 (m)	20.03 (f)	ADJUSTED	1 2

AD8262

AD8262.Superseded values are not recommended for survey control.

AD8262

AD8262.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AD8262.See file [dsdata.pdf](#) to determine how the superseded data were derived.

AD8262

AD8262_MARKER: DD = SURVEY DISK

AD8262_SETTING: 38 = SET IN THE ABUTMENT OR PIER OF A LARGE BRIDGE

AD8262_SP_SET: HEADWALL

AD8262_STAMPING: HEN 49 SFWMD

AD8262_MARK LOGO: FLDT

AD8262_MAGNETIC: N = NO MAGNETIC MATERIAL

AD8262_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

AD8262_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AD8262+SATELLITE: SATELLITE OBSERVATIONS - January 06, 2015

AD8262

AD8262	HISTORY	- Date	Condition	Report By
AD8262	HISTORY	- UNK	MONUMENTED	FLDT
AD8262	HISTORY	- 19920401	GOOD	NGS
AD8262	HISTORY	- 20020519	GOOD	MAPTEC
AD8262	HISTORY	- 20040929	GOOD	MCKIM
AD8262	HISTORY	- 20071119	GOOD	INDIV
AD8262	HISTORY	- 20150106	GOOD	USGS

AD8262

AD8262

AD8262

STATION DESCRIPTION

AD8262'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

AD8262'13.4 KM (8.30 MI) EASTERLY ALONG STATE HIGHWAY 80 FROM THE COUNTY

AD8262'COURTHOUSE IN LA BELLE, IN TOP OF AND 2.1 M (6.9 FT) EAST OF THE WEST

AD8262'END OF THE SOUTH CONCRETE HEADWALL OF A BOX CULVERT AT A CANAL, 7.0 M

AD8262'(23.0 FT) SOUTH OF THE CENTERLINE OF THE HIGHWAY, AND 0.3 M (1.0 FT)

AD8262'BELOW THE LEVEL OF THE HIGHWAY.
AD8262
AD8262 STATION RECOVERY (2002)
AD8262
AD8262'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)
AD8262'STATION RECOVERY (2002)
AD8262'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)
AD8262'RECOVERED AS DESCRIBED.
AD8262
AD8262 STATION RECOVERY (2004)
AD8262
AD8262'RECOVERY NOTE BY MCKIM AND CREED 2004 (BRH)
AD8262'RECOVERED IN GOOD CONDITION.
AD8262
AD8262 STATION RECOVERY (2007)
AD8262
AD8262'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (DR)
AD8262'RECOVERED AS DESCRIBED
AD8262
AD8262 STATION RECOVERY (2015)
AD8262
AD8262'RECOVERY NOTE BY US GEOLOGICAL SURVEY 2015 (RDH)
AD8262'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

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

```

PROGRAM = datasheet95, VERSION = 8.12.1
1      National Geodetic Survey,  Retrieval Date = MARCH 30, 2017
AD8263 *****
AD8263 DESIGNATION - S 414
AD8263 PID - AD8263
AD8263 STATE/COUNTY- FL/GLADES
AD8263 COUNTRY - US
AD8263 USGS QUAD - GOODNO (1973)
AD8263
AD8263 *CURRENT SURVEY CONTROL
AD8263
AD8263* NAD 83(1986) POSITION- 26 46 07. (N) 081 19 21. (W) SCALED
AD8263* NAVD 88 ORTHO HEIGHT - 4.642 (meters) 15.23 (feet) ADJUSTED
AD8263
AD8263 GEOID HEIGHT - -24.451 (meters) GEOID12B
AD8263 DYNAMIC HEIGHT - 4.635 (meters) 15.21 (feet) COMP
AD8263 MODELED GRAVITY - 979,102.6 (mgal) NAVD 88
AD8263
AD8263 VERT ORDER - FIRST CLASS II
AD8263
AD8263.The horizontal coordinates were scaled from a topographic map and have
AD8263.an estimated accuracy of +/- 6 seconds.
AD8263.
AD8263.The orthometric height was determined by differential leveling and
AD8263.adjusted by the NATIONAL GEODETIC SURVEY
AD8263.in September 1992.
AD8263
AD8263.Significant digits in the geoid height do not necessarily reflect accuracy.
AD8263.GEOID12B height accuracy estimate available here.
AD8263
AD8263.The dynamic height is computed by dividing the NAVD 88
AD8263.geopotential number by the normal gravity value computed on the
AD8263.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8263.degrees latitude (g = 980.6199 gals.).
AD8263
AD8263.The modeled gravity was interpolated from observed gravity values.
AD8263
AD8263; North East Units Estimated Accuracy
AD8263;SPC FL E - 269,810. 167,930. MT (+/- 180 meters Scaled)
AD8263
AD8263_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMK679608(NAD 83)
AD8263
AD8263 SUPERSEDED SURVEY CONTROL
AD8263
AD8263 NGVD 29 (09/01/92) 5.034 (m) 16.52 (f) ADJUSTED 1 2
AD8263
AD8263.Superseded values are not recommended for survey control.
AD8263
AD8263.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8263.See file dsdata.pdf to determine how the superseded data were derived.
AD8263
AD8263_MARKER: I = METAL ROD
AD8263_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AD8263_STAMPING: S 414 1992
AD8263_MARK LOGO: NGS

```

AD8263_PROJECTION: FLUSH

AD8263_MAGNETIC: I = MARKER IS A STEEL ROD

AD8263_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

AD8263+STABILITY: POSITION/ELEVATION WELL

AD8263_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR

AD8263+SATELLITE: SATELLITE OBSERVATIONS - 1992

AD8263_ROD/PIPE-DEPTH: 18.0 meters

AD8263

AD8263	HISTORY	- Date	Condition	Report By
--------	---------	--------	-----------	-----------

AD8263	HISTORY	- 1992	MONUMENTED	NGS
--------	---------	--------	------------	-----

AD8263

AD8263 STATION DESCRIPTION

AD8263

AD8263'DESCRIBED BY NATIONAL GEODETIC SURVEY 1992

AD8263'11.7 KM (7.25 MI) EASTERLY ALONG STATE HIGHWAY 80 FROM THE COUNTY

AD8263'COURTHOUSE IN LA BELLE, 16.7 M (54.8 FT) EAST OF THE CENTER OF A

AD8263'FIELD ENTRANCE, 15.1 M (49.5 FT) NORTH OF THE CENTERLINE OF THE

AD8263'HIGHWAY, 7.4 M (24.3 FT) WEST OF UNDERGROUND CABLE JUNCTION BOX

AD8263'NUMBER 30025 41 S, 1.6 M (5.2 FT) BELOW THE LEVEL OF THE HIGHWAY, AND

AD8263'0.5 M (1.6 FT) SOUTH OF A WITNESS POST AND FENCE. NOTE--ACCESS TO

AD8263'THE DATUM POINT IS THROUGH A 5-INCH LOGO CAP.

*** retrieval complete.

Elapsed Time = 00:00:02

NAVD88 Closure

Start-Line				
HEN49				18.740
HEN49	Rb	5.775 HD	212.860	
	20	Rf	5.478 HD	260.040
	20			19.037
	20	Rb	3.696 HD	231.590
	21	Rf	5.983 HD	241.730
	21			16.750
	21	Rb	3.791 HD	284.050
	22	Rf	5.925 HD	273.980
	22			14.616
	22	Rb	5.864 HD	297.150
	23	Rf	5.462 HD	283.760
	23			15.018
	23	Rb	5.235 HD	279.690
	24	Rf	5.540 HD	276.180
	24			14.713
	24	Rb	5.233 HD	284.380
	25	Rf	5.748 HD	288.940
	25			14.198
	25	Rb	5.323 HD	271.590
	26	Rf	5.056 HD	238.480
	26			14.465
	26	Rb	5.485 HD	277.230
	27	Rf	5.265 HD	255.840
	27			14.685
	27	Rb	5.107 HD	253.510
	28	Rf	5.351 HD	308.500
	28			14.441
	28	Rb	5.051 HD	253.640
	29	Rf	5.203 HD	283.530
	29			14.289
	29	Rb	5.118 HD	296.980
	111	Rf	5.243 HD	269.060
	111			14.164
	111	Rb	3.395 HD	281.500
	31	Rf	5.010 HD	199.340
	31			12.549
	31	Rb	5.002 HD	326.250
	32	Rf	5.203 HD	322.970
	32			12.348
	32	Rb	5.285 HD	281.950
	33	Rf	4.152 HD	303.900
	33			13.481
	33	Rb	4.694 HD	295.960
	34	Rf	5.546 HD	225.850
	34			12.629
	34	Rb	7.896 HD	238.750
	35	Rf	3.509 HD	197.240
	35			17.016
	35	Rb	5.611 HD	160.960

110 Rf	4.052 HD	122.570	
110 1			18.575
110 1 Rb	7.575 HD	284.550	
1 Rf	3.872 HD	287.990	
1			22.278
1 Rb	5.596 HD	307.910	
1 Rf	4.710 HD	247.150	
1			23.164
1 Rb	4.894 HD	266.340	
HEN49B 1 Rf	4.923 HD	205.870	
HEN49B 1			23.135
HEN49B 1 Rb	4.816 HD	206.200	
1 Rf	4.785 HD	266.470	
1			23.166
1 Rb	4.535 HD	246.720	
1 Rf	4.907 HD	270.470	
1			22.794
1 Rb	3.572 HD	323.420	
110 1 Rf	7.792 HD	280.910	
110 1			18.574
110 Rb	3.651 HD	221.620	
902 Rf	6.708 HD	233.600	
902			15.517
902 Rb	2.732 HD	242.220	
903 Rf	5.971 HD	213.910	
903			12.278
903 Rb	6.314 HD	279.530	
904 Rf	5.804 HD	253.480	
904			12.788
904 Rb	4.619 HD	262.070	
905 Rf	5.216 HD	238.650	
905			12.191
905 Rb	4.734 HD	273.260	
906 Rf	4.395 HD	275.620	
906			12.530
906 Rb	5.436 HD	294.780	
111 Rf	3.821 HD	184.220	
111			14.145
111 Rb	5.271 HD	245.370	
Rf	5.109 HD	229.790	
			14.307
Rb	5.087 HD	243.010	
Rf	5.063 HD	238.650	
			14.331
Rb	5.315 HD	253.150	
10 Rf	5.124 HD	256.100	
10			14.522
10 Rb	5.352 HD	254.070	
11 Rf	5.290 HD	211.610	
11			14.584
11 Rb	5.160 HD	269.520	

12 Rf	5.337 HD	231.040	
12			14.407
12 Rb	4.988 HD	301.970	
112 Rf	4.907 HD	235.920	
112			14.488
112 Rb	5.316 HD	260.370	
14 Rf	5.062 HD	237.960	
14			14.742
14 Rb	5.475 HD	254.030	
15 Rf	5.210 HD	227.260	
15			15.007
15 Rb	5.530 HD	259.280	
16 Rf	5.959 HD	261.120	
16			14.578
16 Rb	5.966 HD	277.660	
17 Rf	3.812 HD	264.110	
17			16.732
17 Rb	5.914 HD	244.950	
18 Rf	3.630 HD	229.860	
18			19.016
18 Rb	5.340 HD	259.970	
HEN49 Rf	5.633 HD	213.120	
HEN49			18.723
End-Line			18.740
			-0.017 ACTUAL ERROR
		21006.800	TOTAL DISTANCE
1/		-1235694.118	PRECISION
		0.100	MTS ALLOWABLE ERROR

NAVD88 Adjustment

CRS01-88. LEV

HEN49	18. 740
20	19. 037
18	19. 033
21	16. 750
17	16. 749
22	14. 616
16	14. 595
23	15. 018
15	15. 024
24	14. 713
14	14. 759
25	14. 197
112	14. 506
26	14. 464
12	14. 425
27	14. 684
11	14. 602
28	14. 440
10	14. 540
29	14. 288
9	14. 349
111	14. 163
8	14. 325
31	12. 550
906	12. 547
32	12. 350
905	12. 206
33	13. 485
904	12. 802
34	12. 634
903	12. 290
35	17. 023
902	15. 528
110	18. 583
2	22. 286
6	22. 803
3	23. 172
5	23. 175
HEN49B	23. 144

NGVD29 Closure

Start-Line			
HEN49			20.030
HEN49	Rb 5.775 HD	212.860	
	20 Rf 5.478 HD	260.040	
	20		20.327
	20 Rb 3.696 HD	231.590	
	21 Rf 5.983 HD	241.730	
	21		18.040
	21 Rb 3.791 HD	284.050	
	22 Rf 5.925 HD	273.980	
	22		15.906
	22 Rb 5.864 HD	297.150	
	23 Rf 5.462 HD	283.760	
	23		16.308
	23 Rb 5.235 HD	279.690	
	24 Rf 5.540 HD	276.180	
	24		16.003
	24 Rb 5.233 HD	284.380	
	25 Rf 5.748 HD	288.940	
	25		15.488
	25 Rb 5.323 HD	271.590	
	26 Rf 5.056 HD	238.480	
	26		15.755
	26 Rb 5.485 HD	277.230	
	27 Rf 5.265 HD	255.840	
	27		15.975
	27 Rb 5.107 HD	253.510	
	28 Rf 5.351 HD	308.500	
	28		15.731
	28 Rb 5.051 HD	253.640	
	29 Rf 5.203 HD	283.530	
	29		15.579
	29 Rb 5.118 HD	296.980	
	111 Rf 5.243 HD	269.060	
	111		15.454
	111 Rb 3.395 HD	281.500	
	31 Rf 5.010 HD	199.340	
	31		13.839
	31 Rb 5.002 HD	326.250	
	32 Rf 5.203 HD	322.970	
	32		13.638
	32 Rb 5.285 HD	281.950	
	33 Rf 4.152 HD	303.900	
	33		14.771
	33 Rb 4.694 HD	295.960	
	34 Rf 5.546 HD	225.850	
	34		13.919
	34 Rb 7.896 HD	238.750	
	35 Rf 3.509 HD	197.240	
	35		18.306
	35 Rb 5.611 HD	160.960	

110 Rf 4.052 HD	122.570	
110		19.865
110 Rb 7.575 HD	284.550	
Rf 3.872 HD	287.990	
		23.568
Rb 5.596 HD	307.910	
Rf 4.710 HD	247.150	
		24.454
Rb 4.894 HD	266.340	
HEN49B Rf 4.923 HD	205.870	
HEN49B		24.425
HEN49B Rb 4.816 HD	206.200	
Rf 4.785 HD	266.470	
		24.456
Rb 4.535 HD	246.720	
Rf 4.907 HD	270.470	
		24.084
Rb 3.572 HD	323.420	
110 Rf 7.792 HD	280.910	
110		19.864
110 Rb 3.651 HD	221.620	
902 Rf 6.708 HD	233.600	
902		16.807
902 Rb 2.732 HD	242.220	
903 Rf 5.971 HD	213.910	
903		13.568
903 Rb 6.314 HD	279.530	
904 Rf 5.804 HD	253.480	
904		14.078
904 Rb 4.619 HD	262.070	
905 Rf 5.216 HD	238.650	
905		13.481
905 Rb 4.734 HD	273.260	
906 Rf 4.395 HD	275.620	
906		13.820
906 Rb 5.436 HD	294.780	
111 Rf 3.821 HD	184.220	
111		15.435
111 Rb 5.271 HD	245.370	
Rf 5.109 HD	229.790	
		15.597
Rb 5.087 HD	243.010	
Rf 5.063 HD	238.650	
		15.621
Rb 5.315 HD	253.150	
10 Rf 5.124 HD	256.100	
10		15.812
10 Rb 5.352 HD	254.070	
11 Rf 5.290 HD	211.610	
11		15.874
11 Rb 5.160 HD	269.520	

12 Rf 5.337 HD	231.040	
12		15.697
12 Rb 4.988 HD	301.970	
112 Rf 4.907 HD	235.920	
112		15.778
112 Rb 5.316 HD	260.370	
14 Rf 5.062 HD	237.960	
14		16.032
14 Rb 5.475 HD	254.030	
15 Rf 5.210 HD	227.260	
15		16.297
15 Rb 5.530 HD	259.280	
16 Rf 5.959 HD	261.120	
16		15.868
16 Rb 5.966 HD	277.660	
17 Rf 3.812 HD	264.110	
17		18.022
17 Rb 5.914 HD	244.950	
18 Rf 3.630 HD	229.860	
18		20.306
18 Rb 5.340 HD	259.970	
HEN49 Rf 5.633 HD	213.120	
HEN49		20.013
End-Line		20.030
		-0.017 ACTUAL ERROR
	21006.800	TOTAL DISTANCE
1/	-1235694.118	PRECISION
	0.100	MTS ALLOWABLE ERROR

NGVD29 Adjustment

CRS01-29. LEV

HEN49	20.030
20	20.327
18	20.323
21	18.040
17	18.039
22	15.906
16	15.885
23	16.308
15	16.314
24	16.003
14	16.049
25	15.487
112	15.796
26	15.754
12	15.715
27	15.974
11	15.892
28	15.730
10	15.830
29	15.578
9	15.639
111	15.453
8	15.615
31	13.840
906	13.837
32	13.640
905	13.496
33	14.775
904	14.092
34	13.924
903	13.580
35	18.313
902	16.818
110	19.873
2	23.576
6	24.093
3	24.462
5	24.465
HEN49B	24.434

Office

Project

30 March 2017

INPUT

Geographic, NAD83
Vertical - NAVD88, U.S. Feet

OUTPUT

State Plane, flhpgn - Florida HPGN
0901 - Florida East, U.S. Feet
Vertical - NGVD29 (Custom), U.S. Feet

Accuracies of conversions from NAD 83 to HPGN/HARN are typically 5 to 6 cm.

CRS01F

1/2

Latitude: 26 47 16.64
Longitude: 81 18 04.42
Elevation/Z: 0

Northing/Y: 892209.419
Easting/X: 557898.577
Elevation/Z: 1.214
Convergence: -0 08 08.73505
Scale Factor: 0.999952248
Combined Factor: 0.999956026

Datum Shift (m.): Delta Lat. = -0.026, Delta Lon = -0.351

CRS01N

2/2

Latitude: 26 47 19.87
Longitude: 81 18 05.15
Elevation/Z: 0

Northing/Y: 892535.715
Easting/X: 557833.198
Elevation/Z: 1.211
Convergence: -0 08 09.07923
Scale Factor: 0.999952263
Combined Factor: 0.999956041

Datum Shift (m.): Delta Lat. = -0.026, Delta Lon = -0.351

Remark:

Corpscon v6.0.1, U.S. Army Corps of Engineers

Office

Project

12 April 2017

INPUT

Geographic, flhpgn - Florida HPGN
Vertical - NAVD88, U.S. Feet

OUTPUT

State Plane, flhpgn - Florida HPGN
0901 - Florida East, U.S. Feet
Vertical - NGVD29 (Custom), U.S. Feet

PSTAC1

1/1

Latitude: 26 47 20.3
Longitude: 81 18 05.4
Elevation/Z: 0

Northing/Y: 892579.275
Easting/X: 557809.494
Elevation/Z: 1.211
Convergence: -0 08 09.19966
Scale Factor: 0.999952268
Combined Factor: 0.999956046

Remark:

Corpscon v6.0.1, U.S. Army Corps of Engineers

DBHYDRO | by station

STATION INFORMATION

Station	CRS01FM
Site	CRS01F
Type	WELL
Latitude (ddmmss.sss)	264716.602
Longitude (ddmmss.sss)	811804.484
X Coord (ft) NAD83	557891.616
Y Coord (ft) NAD83	892205.684
County	Glades
Basin	EAST CALOOSAHATCHEE
Section	26
Township	42
Range	30
Show Map	Google Map
Well Info	Info
Description	CALOOSAHATCHEE SEEPAGE PROJECT - SITE 1 - MEDIUM FAR WELL
Notes	
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Time Series Data

DBHYDRO | by station

STATION INFORMATION

Station	CRS01FS
Site	CRS01F
Type	WELL
Latitude (ddmmss.sss)	264716.602
Longitude (ddmmss.sss)	811804.484
X Coord (ft) NAD83	557891.616
Y Coord (ft) NAD83	892205.684
County	Glades
Basin	EAST CALOOSAHATCHEE
Section	26
Township	42
Range	30
Show Map	Google Map
Well Info	Info
Description	CALOOSAHATCHEE SEEPAGE PROJECT - SITE 1 - SHALLOW FAR WELL
Notes	
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Time Series Data

DBHYDRO | by station

STATION INFORMATION

Station	CRS01N_H
Site	CRS01N
Type	
Latitude (ddmmss.sss)	264719.856
Longitude (ddmmss.sss)	811805.155
X Coord (ft) NAD83	557831.589
Y Coord (ft) NAD83	892534.391
County	Glades
Basin	EAST CALOOSAHATCHEE
Section	26
Township	42
Range	30
Show Map	Google Map
Description	CALOOSAHATCHEE SEEPAGE PROJECT - SITE 1 - CHANNEL STAGE (HEADWATER)
Notes	
Nearby Stations	Nearby Stations
Attachments	None Available

Query returned 1 station record(s).

[Get Time Series Data](#)

DBHYDRO | by station

STATION INFORMATION

Station	CRS01NM
Site	CRS01N
Type	WELL
Latitude (ddmmss.sss)	264719.856
Longitude (ddmmss.sss)	811805.155
X Coord (ft) NAD83	557831.589
Y Coord (ft) NAD83	892534.391
County	Glades
Basin	EAST CALOOSAHATCHEE
Section	26
Township	42
Range	30
Show Map	Google Map
Well Info	Info
Description	CALOOSAHATCHEE SEEPAGE PROJECT - SITE 1 - MEDIUM NEAR WELL
Notes	
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Time Series Data

DBHYDRO | by station

STATION INFORMATION

Station	CRS01NS
Site	CRS01N
Type	WELL
Latitude (ddmmss.sss)	264719.856
Longitude (ddmmss.sss)	811805.155
X Coord (ft) NAD83	557831.589
Y Coord (ft) NAD83	892534.391
County	Glades
Basin	EAST CALOOSAHATCHEE
Section	26
Township	42
Range	30
Show Map	Google Map
Well Info	Info
Description	CALOOSAHATCHEE SEEPAGE PROJECT - SITE 1 - SHALLOW NEAR WELL
Notes	
Nearby Stations	Nearby Stations
Attachments	Show Attachments

Query returned 1 station record(s).

Get Time Series Data

DBHYDRO | by station

STATION INFORMATION

Station	PSTAC1
Site	PSTA
Type	
Latitude (ddmmss.sss)	262216.276
Longitude (ddmmss.sss)	803427.193
X Coord (ft) NAD83	795572.478
Y Coord (ft) NAD83	740834.37
County	Palm Beach
Basin	STA-3/4
Section	7
Township	47
Range	38
Show Map	Google Map
Description	PERIPHYTON-BASED STAS (TEST CELLS)
Notes	
Nearby Stations	Nearby Stations
Attachments	None Available

Query returned 1 station record(s).

[Get Time Series Data](#)