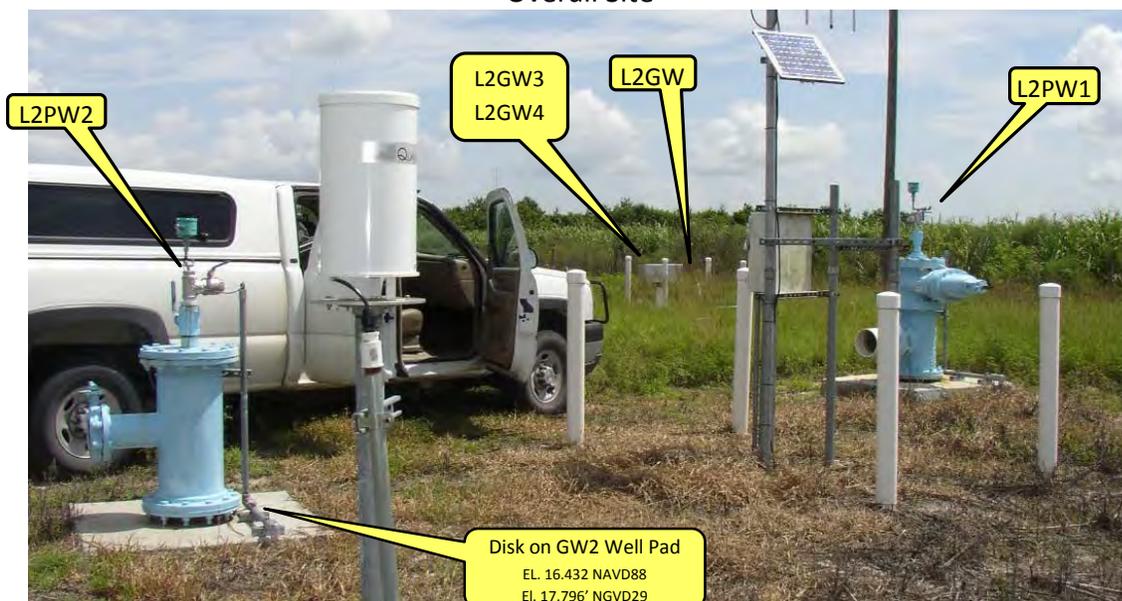


| | | |
|---|--|--|
| Site Name L2GW | | Date of Field Work 29-may-14 |
| Party Chief Ebanks | Field Book Name/Number SCADA11 | Page Number(s) 10 |
| Site Benchmark Name G150L3 | Benchmark Elevation (NAVD88) 22.242' | Datum Offset to NGVD29 1.378' (Corpscon 6.0.1) |
| Reference Elevation (NAVD 88) 21.972' PW1 20.542' PW2 18.572' GW3 18.607' GW4 20.592' GW5 (New) | | Existing Tag Elevation (Datum) None None None None None |
| Latitude (Wells) 26° 36' 28.8" | | Longitude 80° 56' 57.7" |
| Notes: Wells Tagged in NGVD29 | | |

Photographs

Overall Site



Benchmark Location



Looking South

Benchmark Close Up



PW1 Brass Tag Close Up



Reference Mark



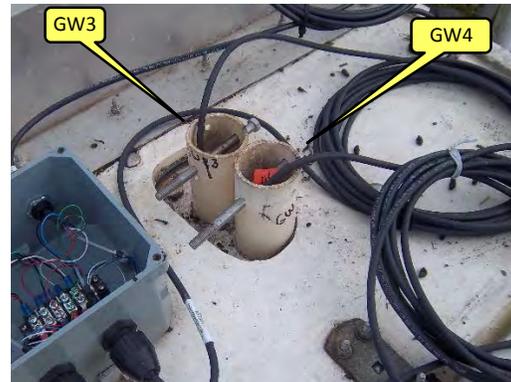
PW2 Brass Tag Close Up



PW2 Reference Mark



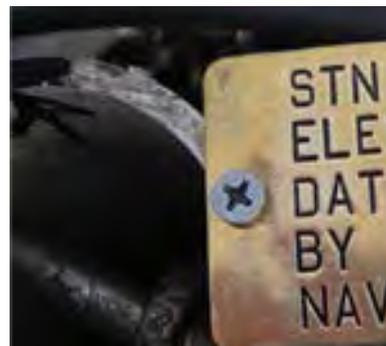
GW3, GW4 & GW5 Overall



GW3 Brass Tag Close Up



GW3 Reference Mark



GW4 Brass Tag Close Up



GW4 Reference Mark



GW5 Brass Tag Close Up



GW5 Reference Mark



hec 33 TWP 45 Rge 34 Ebanks
Bobsein

Establish/Verify elevation for wells (GW)

AT L-2 GW

| HTA | + | HTI | - | Elev | Remarks |
|----------------------------------|-----------------|-------|-------|---------------|--|
| BM G-150 | 4.73 | 28.35 | | 23.62 (29) | |
| Disk FND on GW 2 Well PAD. | | | 10.54 | 17.81 | (17.72) |
| | | | | | <u>RT</u> |
| Disk FND on GW 2 Well PAD. | 10.69 | 28.50 | | 17.81 | |
| BM G-150 | | | 4.88 | 23.62 | |
| | | | | | FOR WELLS. |
| Disk on Well PAD GW 2 | 5.20 | 23.01 | | 17.81 | |
| | | | | | 20.592' NAVD88 |
| PW 2 | | | 1.09 | 21.92 | |
| PW 1 | 0.34 (inverted) | | | 23.35 | |
| GW 4 | | | 3.025 | 19.985 | |
| GW 3 | | | 3.06 | 19.95 | |
| GW 5 (NEW) | | | 1.04 | 21.97 | |

FOR Wells Cont'd
Ebanks
Bobsein
Remarks

| HTA | + | HTI | - | Elev | Remarks |
|-----------------|---|-----|---|------|---------------------|
| Disk on PW 1 | | | | 4.50 | 18.51 (18.41) 29 |

26 36 29.2
80 56 57.4

17.796' NGVD29
16.4322' NAVD88

1/27/97

Hendry Co. Wells FB#3

(23)

Establish elev. @ G150
Sect 32 Twp 44 S Rge 34 E

BS HI FS Elev

BM HEN 28
3.06
4.21

30.71
~~29.29~~

~~27.65~~
~~26.23~~

BM G150 L-3

7.035
0.235

23.675
~~22.255~~

Return

BM G150 L-3

6.36
0.91

30.035
~~28.615~~

23.675
~~22.255~~

BM HEN 28

2.385
4.885

27.65
~~26.23~~ 27.65

Establish Well Elevations

BM G150 L-3

0.32
6.95

23.995
~~22.575~~

23.675
~~22.255~~ 23.675

4.88
2.39

19.115
~~17.695~~

6.63
0.64

17.365
~~15.945~~

Return

7.05
0.22

22.995
~~24.415~~

17.365
~~15.945~~

1/27/97

23

26.217' (7.991m) NAVD88
27.581' (8.4067m) NGVD29

Hummel
K Schaffer
φ Di Cocco

BM HEN 28 (1929 NGVD)

BM G150 L-3

22.24213916666' NAVD88
23.60598158333' NGVD29

BM G150 L-3

BM HEN 28

BM G150 L-3

G-150 Tail water "x" Mark in box

G-150 Head water "x" Mark in Box

G-150 Head Water "x" Mark in Box

RS

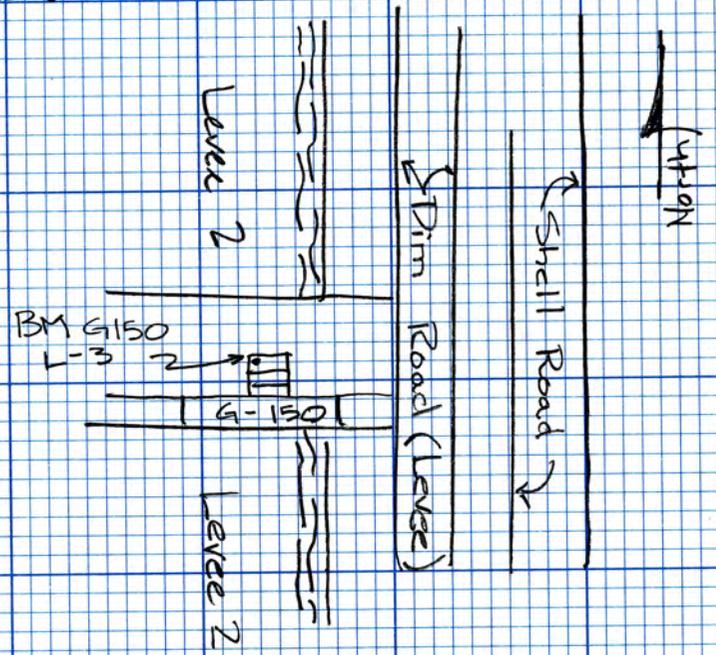
Establish well @ G-150 (cont.)

| BS | HI | FS | Elev |
|-------------|-------------------|------|-------------------|
| | 24.415 | | |
| | 22.995 | | |
| | | 5.30 | 19.115 |
| | | 1.97 | 17.695 |
| BM G150 L-3 | | 0.74 | 23.675 |
| | | 6.53 | 22.255 |

~~G-150 Tail~~

G-150 Tail Water "x" mark in box

BM G150 L-3



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

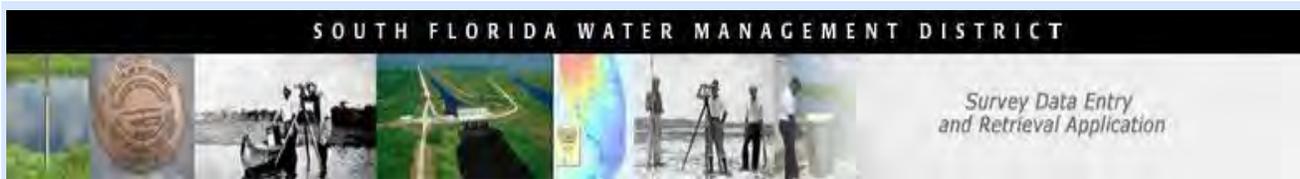
Survey Monument BenchMark Database Search

| | | | |
|-----------------|----------------|------------------|---|
| Designation | G15013 | Latitude | 26°36'31.65" |
| County | Hendry | Longitude | 80°57'00.39 |
| Quad | Lake harbor sw | Monument | Sfwmd |
| Project | L-2 | Year Set | 1997 |
| S/T/R | 32 44 34 | Type | V |
| Status | | Stamping | G15013 |
| | | Party Chief | Hummel |
| NAD 1927 | | FB | Hendry co wells 3 |
| N: | | Pg | 23 |
| E: | | NGVD 1929 | |
| Adjustment | | Elevation | 23.675 23.606' |
| NAD 1983 | | Order | 3 |
| N: | | Class | |
| E: | | NAVD 1988 | |
| Adjustment | | Elevation | 22.255 22.242' |
| Order | | Order | |
| Class | | Class | |

[Back](#)

From the intersection of U.S. Highway 27 and County Road 832 (C.R. 832) on the East side of Clewiston, , proceed South on C.R. 832 a distance of 7 miles to a curve to the right; continue West on C.R. 832 for 1 mile to a curve to the left; continue on C.R. 832 for 2 miles South to a Curve to the right; follow the curve going West on C.R. 832 for 2 miles to the intersection of South Florida Water Management District' (SFWMD's) Levee 2 and a dirt improved (dim) levee road; proceed South on levee approximately 1 mile to SFWMD's G-150 and station on right. The station is a SFWMD aluminum disk in concrete stamped "BM G-150 L-3."

MONUMENT IS ALUM. SFWMD DISK IN CONCRETE LOCATED ON G-150, 9 MI. S. OF CLEWISTON STAMPED "BM G-150 L-3".
 FROM INTERSECTION OF US 27 AND COUNTY ROAD 832 ON THE E. SIDE OF CLEWSITON, PROCEED SOUTH OF CR 832, 7 MI. TO A CURVE TO THE RIGHT; PROCEED WEST ON CR 832 FOR 1 MI. TO A CURVE TO THE LEFT, CONTINUE ON CR 832 FOR 2 MI. SOUTH TO A CURVE TO THE RIGHT; FOLLOW CURVE GOING WEST ON CR 832 FOR 2 MI. TO THE INTERSECTION OF LEVEE 2 AND A DIM ROAD; PROCEED SOUTH ON LEVEE APPROX. 1 MI. TO G-150 AND STATION ON RIGHT.



Survey Data Entry and Retrieval Application (SDERA) Print Output

Control Point Search Results

Derived Data - Denoted By:
**

| | | | |
|-------------------|---|----------------------|------------|
| Designation | G150L3 | Record State | ACCEPTED |
| NGS PID | | | |
| Project Name | G150 | Date Entered/Updated | 01/11/2016 |
| Updated By | hehmke | Status | |
| Party Chief | HUMMEL, MARK | Type | V |
| Monument Set By | SOUTH FLORIDA WATER MANAGEMENT DISTRICT | Date Established | 01/27/1997 |
| County | HENDRY COUNTY | Section | 4 |
| Township | 45 | Range | 34 |
| Quadrangle | LAKE HARBOR SW | Offset (29 to 88) | |
| NGS Source BM | | CCR Link | |
| Ctrl Pt Source(s) | | | |

| <u>Horizontal</u> | <u>NAD 1927</u> | <u>NAD 1983</u> | <u>Vertical</u> | <u>NGVD 1929</u> | <u>NAVD 1988</u> |
|-------------------|-----------------|-----------------|------------------|------------------|------------------|
| Latitude | | 26 36 31.65 | Class | | |
| Longitude | | 80 57 00.39 | Order | | |
| Northing(Y) | | | Elevation | 23.606 | 22.242 |
| Easting(X) | | | Measurement Unit | Feet | Feet |
| Class | | | | | |
| Order | | | | | |
| NAD83 Adj Year | | | | | |

Field Book

Hendry County Wells 3

Field Book Pages

23

Stamping

BM G-150 L-3

How to Reach

From the intersection of U.S. Highway 27 and County Road 832 (C.R. 832) on the East side of Clewiston, , proceed South on C.R. 832 a distance of 7 miles to a curve to the right; continue West on C.R. 832 for 1 mile to a curve to the left; continue on C.R. 832 for 2 miles South to a Curve to the right; follow the curve going West on C.R. 832 for 2 miles to the intersection of South Florida Water Management District s) Levee 2 and a dirt improved (dim) levee road; proceed South on levee approximately 1 mile to SFWMD s structure G-150 and station on right. The station is a SFWMD aluminum disk in concrete stamped BM G-150 L-3.

Description

A South Florida Water Management District aluminum disk

DISCLAIMER:

The South Florida Water Management District (hereinafter referred to as the DISTRICT) shall not be held liable for improper or incorrect use of the data, information, apparatus, products, processes or materials described and/or contained herein. These data, information, apparatus, products, processes, materials and related graphics are not legal documents and are not intended to be used as such. The user hereby recognizes that the information, data, apparatus, products, processes and materials are dynamic and may change over time without notice. However, the DISTRICT makes no commitment to update the information, data, apparatus, products, processes or materials contained herein.



From the "ngvd29.txt" file provided by NGS for the CERP Geodetic Vertical Control Project.
 Line/Part: L26265 SSN+: mark floated, SSN*: mark constrained, SSN#: mark floated & constrained
 Mark ID SSN PID Designation Geopotential Elevation Codes
 1897 0026 AI1525 HEN 28 8.2386 8.4067
 1898 0027 AI1524 HEN 27 7.7394 7.8973

The NGS Data Sheet

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

```
PROGRAM = datasheet95, VERSION = 8.8
1      National Geodetic Survey,  Retrieval Date = JANUARY 10, 2016
AI1525 *****
AI1525 DESIGNATION - HEN 28
AI1525 PID - AI1525
AI1525 STATE/COUNTY- FL/HENDRY
AI1525 COUNTRY - US
AI1525 USGS QUAD - LAKE HARBOR SW (1994)
AI1525
AI1525 *CURRENT SURVEY CONTROL
AI1525
AI1525* NAD 83(1986) POSITION- 26 36 37. (N) 080 57 00. (W) SCALED
AI1525* NAVD 88 ORTHO HEIGHT - 7.991 (meters) 26.22 (feet) ADJUSTED
AI1525
AI1525 GEOID HEIGHT - -24.727 (meters) GEOID12B
AI1525 DYNAMIC HEIGHT - 7.979 (meters) 26.18 (feet) COMP
AI1525 MODELED GRAVITY - 979,092.3 (mgal) NAVD 88
AI1525
AI1525 VERT ORDER - FIRST CLASS II
AI1525
AI1525.The horizontal coordinates were scaled from a topographic map and have
AI1525.an estimated accuracy of +/- 6 seconds.
AI1525.
AI1525.The orthometric height was determined by differential leveling and
AI1525.adjusted by the NATIONAL GEODETIC SURVEY
AI1525.in October 1999.
AI1525
AI1525.Significant digits in the geoid height do not necessarily reflect accuracy.
AI1525.GEOID12B height accuracy estimate available here.
AI1525
AI1525.The dynamic height is computed by dividing the NAVD 88
AI1525.geopotential number by the normal gravity value computed on the
AI1525.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AI1525.degrees latitude (g = 980.6199 gals.).
AI1525
AI1525.The modeled gravity was interpolated from observed gravity values.
AI1525
AI1525; North East Units Estimated Accuracy
AI1525;SPC FL E - 252,230. 204,980. MT (+/- 180 meters Scaled)
AI1525
AI1525 SUPERSEDED SURVEY CONTROL
AI1525
AI1525.No superseded survey control is available for this station.
AI1525
AI1525_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK049432 (NAD 83)
AI1525
AI1525_MARKER: F = FLANGE-ENCASED ROD
AI1525_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AI1525_STAMPING: BM HEN-28 1983 SFLWMD
AI1525_MARK LOGO: SFLWMD
AI1525_PROJECTION: RECESSED 15 CENTIMETERS
```

AI1525_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
 AI1525_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AI1525_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AI1525+SATELLITE: SATELLITE OBSERVATIONS - March 05, 2009
 AI1525_ROD/PIPE-DEPTH: 12.8 meters

AI1525

| AI1525 | HISTORY | - Date | Condition | Report By |
|--------|---------|------------|------------|-----------|
| AI1525 | HISTORY | - 1983 | MONUMENTED | SFLWMD |
| AI1525 | HISTORY | - 19961002 | GOOD | FLDEP |
| AI1525 | HISTORY | - 20020221 | GOOD | FLDEP |
| AI1525 | HISTORY | - 20050811 | GOOD | INDIV |
| AI1525 | HISTORY | - 20090305 | GOOD | PICKET |

AI1525

AI1525

STATION DESCRIPTION

AI1525

AI1525'DESCRIBED BY FL DEPT OF ENV PRO 1996 (VAJ)
 AI1525'THE MARK IS ABOUT 18.1 MI (29.1 KM) WEST-SOUTHWEST OF BELLE GLADE,
 AI1525'10.0 MI (16.1 KM) SOUTH OF CLEWISTON IN SECTION 33, TOWNSHIP 45 SOUTH,
 AI1525'RANGE 34 EAST. TO REACH THE MARK FROM THE POST OFFICE IN LAKE HARBOR,
 AI1525'GO SOUTHERLY ON MIAMI CANAL ROAD (WEST SIDE OF CANAL) FOR 0.65 MI
 AI1525'(1.05 KM) TO THE END OF THE PAVEMENT, CONTINUE SOUTH ON MIAMI CANAL
 AI1525'ROAD FOR 2.35 MI (3.78 KM) TO THE JUNCTION OF ROGERS ROAD ON THE
 AI1525'RIGHT, TURN RIGHT ON ROGERS ROAD AND GO WEST FOR 3.8 MI (6.1 KM) TO
 AI1525'THE PALM BEACH-HENDRY COUNTY LINE, CONTINUE WEST ON ROGERS ROAD FOR
 AI1525'0.95 MI (1.53 KM) TO A SHARP CURVE RIGHT, CONTINUE THRU THE CURVE
 AI1525'RIGHT AND GO NORTH THEN WEST ON ROGERS ROAD FOR 0.05 (CROSSING OVER
 AI1525'THE L1-E CANAL BRIDGE) TO THE Y-JUNCTION OF COUNTY ROAD 832, CONTINUE
 AI1525'WEST ON COUNTY ROAD 832 FOR 1.0 MI (1.6 KM) TO THE APPROXIMATE CENTER
 AI1525'OF A SHARP CURVE LEFT AND BRIDGE NUMBER 302 OVER THE L1-E CANAL,
 AI1525'CONTINUE THRU THE CURVE LEFT AND GO SOUTH ON COUNTY ROAD 832 FOR 1.95
 AI1525'MI (3.14 KM) TO A SHARP CURVE RIGHT, CONTINUE THRU THE CURVE RIGHT AND
 AI1525'GO WEST ON COUNTY ROAD 832 FOR 2.0 MI (3.2 KM) TO THE L-2 CANAL AND
 AI1525'THE LEVEE ROAD ON THE LEFT (EAST SIDE OF CANAL) , TURN LEFT ON LEVEE
 AI1525'ROAD NUMBER L-2 AND GO SOUTH FOR 1.0 MI (1.6 KM) TO A TURNOUT ON THE
 AI1525'TOP OF THE LEVEE AND THE MARK ON THE RIGHT, SET IN THE APPROXIMATE
 AI1525'CENTER OF THE TURNOUT, A STAINLESS STEEL ROD DRIVEN INTO THE GROUND,
 AI1525'ENCASED IN A 6-INCH PVC PIPE RECESSED 0.2 FT (6.1 CM) BELOW THE LEVEL
 AI1525'OF THE GROUND, THE DATUM POINT IS RECESSED 0.6 FT (18.3 CM) BELOW THE
 AI1525'LEVEL OF THE 6-INCH PVC SCREW CAP. LOCATED 52.1 FT (15.9 M) NORTH OF
 AI1525'THE APPROXIMATE SOUTH END OF THE TURNOUT, 48.0 FT (14.6 M) SOUTH OF
 AI1525'THE APPROXIMATE NORTH END OF THE TURNOUT, 43.5 FT (13.3 M) WEST OF THE
 AI1525'APPROXIMATE CENTERLINE OF THE DIRT ROAD AT THE TOE OF THE LEVEE, 30.0
 AI1525'FT (9.1 M) WEST OF A CARSONITE WITNESS POST AND 13.0 FT (4.0 M) EAST
 AI1525'OF THE APPROXIMATE CENTERLINE OF THE DIM TRACK ROAD AT THE TOP OF THE
 AI1525'LEVEE. NOTE ACCESS TO DATUM POINT IS HAD THROUGH A 6-INCH PVC SCREW
 AI1525'CAP. CONTACT GENE TANNER, SOUTH FLORIDA WATER MANAGEMENT, REGIONAL
 AI1525'DIRECTOR, CLEWISTON FIELD STATION, PHONE NUMBER 813-983-1431.

AI1525

AI1525

STATION RECOVERY (2002)

AI1525

AI1525'RECOVERY NOTE BY FL DEPT OF ENV PRO 2002 (JLM)
 AI1525'THE MARK IS ABOUT 18.1 MI WEST-SOUTHWEST OF BELLE GLADE, 10.0 MI SOUTH
 AI1525'OF CLEWISTON, IN
 AI1525'SECTION 33, TOWNSHIP 45 SOUTH, RANGE 34 EAST.
 AI1525'
 AI1525'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND COUNTY ROAD
 AI1525'835 ON THE
 AI1525'SOUTH SIDE OF CLEWISTON, GO WEST ON COUNTY ROAD 835 FOR 6.7 MI TO THE
 AI1525'JUNCTION OF
 AI1525'ROGERS ROAD ON THE LEFT AND A CURVE TO THE RIGHT, BEAR RIGHT AND

REGISTRATION WORKSHEET - L2GW Installation/Modification

Site Name: **L2GW** Today's Date: **6/2/2014** Type Recorder: **CR10**
 Activity: **Installation/Modifica** Effective Date: Start Date of Data :
 Customer: **K. Snyder/SCADA Cr10 Mor** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **Infr.Str. Mgt/Survey** Agency: **SFWMD** Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:

Proj. Mgr. Notes: Survey initiated for GW5 Well Modifications. Remainder of Wells at Site verified and tagged....

Site Directions: From US27 and CR835 in Clewiston.... go south and southwest on CR835 to L-2 Canal... go south on Eastside of Canal +/- 1.0 miles to Site on left...

Site Address (if any):

Transportation: **4X4 Vehicle** Lock type or combination: **Abloy S** #

Recorder Location/Purpose: **Floridian Wells/Groundwater.** Structure Type: **Structure Modification**

Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **27.65ft.** Date: **6/6/1983** Stamp: **HEN 28**
 Agency: **SFWMD** Type: **SS ROD IN PVC CASING.** Datum: **NGVD 29**

Benchmark Location/ Description: See NGS Data Sheet for HEN 28....

COMMUNICATIONS INFORMATION

Communications System: **Loggernet** Loggernet Server: **0** Loggernet IP Address:
 Tower: **ACMET** Communication Type: R.F. Code/Modem Address: R.F. Access Point:
 Phone Number:
 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 |
|--------|--------------|----------|-----------|-------------|----------------|-------------|----------------|-----------------|---|
| PW1 | | 23.35ft | 5/29/2014 | | | | 27.65ft | NGVD 29 | Mark Set on Flange... denoted by Brass Tag. |
| PW2 | | 21.92ft | 5/29/2014 | | | | 27.65ft | NGVD 29 | Mark Set on Well Flange... denoted by Brass Tag... |
| GW3 | | 19.95ft | 5/29/2014 | 19.95ft | | | 27.65ft | NGVD 29 | Mark Top of 2" PVC Well Under Enclosure... denoted by Brass Tag.. |
| GW4 | | 19.985ft | 5/29/2014 | 19.985ft | | | 27.65ft | NGVD 29 | Mark Top of 2" PVC Well under Enclosure... denoted by Brass Tag.. |
| GW5 | | 21.97ft | 5/29/2014 | 21.97ft | | | 27.65ft | NGVD 29 | Mark Set Top of PVC Well (CAP Over)... 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 | | | | | | | | | |
|--------|---------------------------|-------------------|-------------------|---------------|--------------|---------------------------|----------------------------|-----------------------|--|--|--|--|--|--|--|--|--|
| PW1 | | | | | | | | | | | | | | | | | |
| PW2 | | | | | | | | | | | | | | | | | |
| GW3 | | | | | | | | | | | | | | | | | |
| GW4 | | | | | | | | | | | | | | | | | |
| GW5 | | | | | | | | | | | | | | | | | |

COORDINATE INFORMATION

| Item/Parm | Lat | Long | X-Coord | Y-Coord | Sec | Township | Range | Quad | Basin | County | Description |
|-----------|------------|----------|---------|---------|-----|----------|-------|------|----------------|--------|-------------|
| PW1 | 26 36 29.2 | 80 56 57 | | | | 33 | 45 | 34 | Lake Harbor SW | Hendry | |
| PW2 | 26 36 29 | 80 56 57 | | | | 33 | 45 | 34 | Lake Harbor SW | Hendry | |
| GW3 | 26 36 29 | 80 56 57 | | | | 33 | 45 | 34 | Lake Harbor SW | Hendry | |
| GW4 | 26 36 29 | 80 56 57 | | | | 33 | 45 | 34 | Lake Harbor SW | Hendry | |
| GW5 | 26 36 29 | 80 56 57 | | | | 33 | 45 | 34 | Lake Harbor SW | Hendry | |