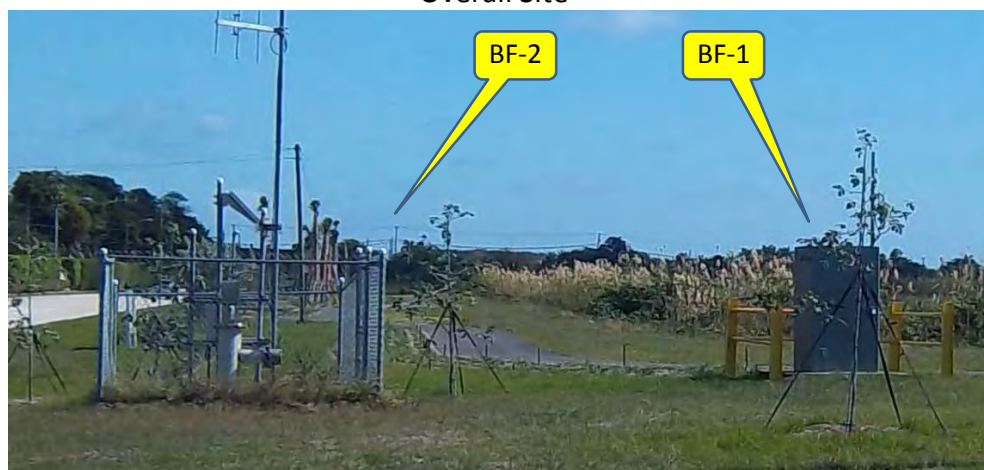


Site Name BF-1		Date of Field Work 05-feb-15
Party Chief Ebanks	Field Book Name/Number SCADA11	Page Number(s) 37
Site Benchmark Name FCE3090	Benchmark Elevation (NAVD88) 10.082	Datum Offset to NGVD29 1.575 (Corpscon 6.0.1)
Reference Elevation (NAVD 88) 11.13'		Existing Tag Elevation (Datum) None
Latitude (Benchmark) 26° 10' 23.40354"		Longitude 80° 10' 44.66608"

Notes: Well Tagged in NGVD29

Photographs

Overall Site



Looking East

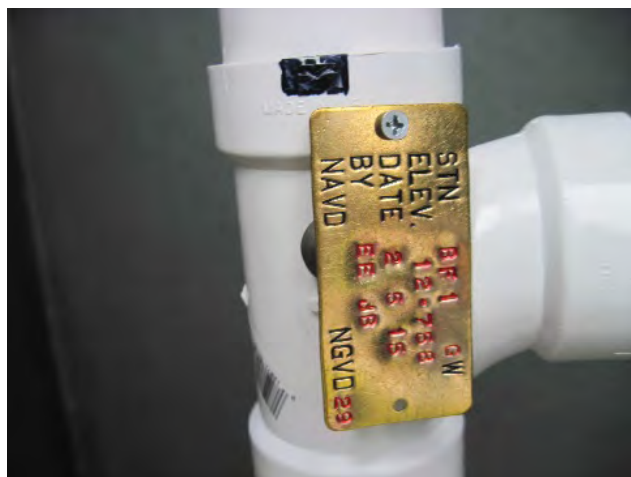
Benchmark Close Up



Brass Tag Close Up



Brass Tag + Reference Mark



BF-1 Well Site



Looking East

BF-1 Well



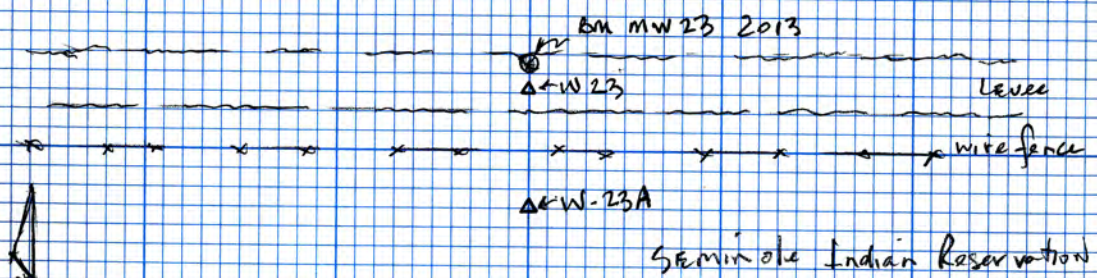
hgc. 12 TWP 48 Rge 34

Ebanks Hudson Grammares

Establish ELEV FOR WELL W-23A ON Seminole Indian Reservation

hTA	+	H.I.	-	ELEV.	Remarks
Bm MW 23 2013	4.25 4.48	26.55 26.78		22.30	(NAVD 88) 1.43
MW 23A Well			14.49 14.71	12.06 12.07	✓
MW 23A Well	14.76 14.52	26.82 26.59			
Bm MW 23			4.48 4.29	22.34 22.30	(22.30)

Rt.



Survey Note:- Well is level with ground.

hgc 20 TWP 49 Rge 42

Ebanks Boosein

Establish REF ELEV. FOR BF-1 @ S-36 (C-13) Ft. Lauderdale

hTA	+	H.I.	-	ELEV	Remarks
Bm FCE 3090	2.29	14.00		11.710	FIND Good (NAVD 29) NE Cor. of S-36 Gate
BF-1 Well			1.242	12.758	
BF-1 Well					+
BF-1 Well	1.342	14.10			
Bm FCE 3090	2.39	11.71		11.71	✓

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  4, 2016
DL2188 *****
DL2188 DESIGNATION -   FCE 3090
DL2188 PID          -   DL2188
DL2188 STATE/COUNTY-  FL/BROWARD
DL2188 COUNTRY      -   US
DL2188 USGS QUAD    -   FORT LAUDERDALE NORTH (1995)
DL2188
DL2188                      *CURRENT SURVEY CONTROL
DL2188
DL2188*  NAD 83(1986) POSITION- 26 10 23.      (N) 080 10 44.      (W)  SCALED
DL2188*  NAVD 88 ORTHO HEIGHT -    3.073 (meters)      10.08 (feet) ADJUSTED
DL2188
DL2188  GEOID HEIGHT   -      -25.607 (meters)                GEOID12B
DL2188  DYNAMIC HEIGHT -         3.069 (meters)      10.07 (feet) COMP
DL2188  MODELED GRAVITY -    979,064.3 (mgal)                NAVD 88
DL2188
DL2188  VERT ORDER    -   FIRST      CLASS II
DL2188
DL2188.The horizontal coordinates were scaled from a topographic map and have
DL2188.an estimated accuracy of +/- 6 seconds.
DL2188.
DL2188.The orthometric height was determined by differential leveling and
DL2188.adjusted by the NATIONAL GEODETIC SURVEY
DL2188.in June 2009.
DL2188
DL2188.Significant digits in the geoid height do not necessarily reflect accuracy.
DL2188.GEOID12B height accuracy estimate available here.
DL2188
DL2188.The dynamic height is computed by dividing the NAVD 88
DL2188.geopotential number by the normal gravity value computed on the
DL2188.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DL2188.degrees latitude (g = 980.6199 gals.).
DL2188
DL2188.The modeled gravity was interpolated from observed gravity values.
DL2188
DL2188;
DL2188;          North      East      Units  Estimated Accuracy
DL2188;SPC FL E   -   204,050.    282,080.    MT   (+/- 180 meters Scaled)
DL2188
DL2188                      SUPERSEDED SURVEY CONTROL
DL2188
DL2188 No superseded survey control is available for this station.
DL2188
DL2188_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNJ820951(NAD 83)
DL2188
DL2188_MARKER: DD = SURVEY DISK
DL2188_SETTING: 41 = SET IN A LARGE STRUCTURE WITH FOUNDATIONS ON BEDROCK
DL2188_SP_SET: FLOOD CONTROL STURCTURE
DL2188_STAMPING: FCE-3090 1968 JACKSONVILLE FLA.
DL2188_MARK LOGO: USE

```

DL2188_MAGNETIC: N = NO MAGNETIC MATERIAL
DL2188_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DL2188+STABILITY: POSITION/ELEVATION WELL
DL2188_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DL2188+SATELLITE: SATELLITE OBSERVATIONS - August 04, 2006

DL2188

DL2188	HISTORY	- Date	Condition	Report By
DL2188	HISTORY	- 1968	MONUMENTED	USE
DL2188	HISTORY	- 20060804	GOOD	FLDEP

DL2188

DL2188 STATION DESCRIPTION

DL2188

DL2188'DESCRIBED BY FL DEPT OF ENV PRO 2006 (JLM)
DL2188'THE MARK IS IN OAKLAND PARK, IN SECTION 20, TOWNSHIP 49 SOUTH, RANGE
DL2188'42 EAST.

DL2188'

DL2188'TO REACH THE MARK FROM THE INTERSECTION OF INTERSTATE 95 (EXIT 31) AND
DL2188'OAKLAND PARK BOULEVARD (STATE HIGHWAY 816) IN OAKLAND PARK, GO WEST
DL2188'ON OAKLAND PARK BOULEVARD (STATE HIGHWAY 816) FOR 1.7 MI TO THE
DL2188'JUNCTION OF NORTHWEST MARTIN LUTHER KING JR AVENUE ON THE LEFT AND
DL2188'NORTHWEST 21ST AVENUE ON THE RIGHT, TURN RIGHT ON NORTHWEST 31ST
DL2188'AVENUE AND GO NORTH FOR 0.5 MI TO THE JUNCTION OF NORTHWEST 39TH
DL2188'STREET ON THE RIGHT, TURN RIGHT ON NORTHWEST 39TH STREET AND GO EAST
DL2188'FOR 0.5 MI TO WATER STRUCTURE S-36 ON THE RIGHT AND THE MARK ON THE
DL2188'RIGHT, SET FLUSH IN THE NORTHEAST CORNER OF THE STRUCTURE ABOUT LEVEL
DL2188'WITH THE STRUCTURE ROAD.

DL2188'

DL2188'LOCATED 200.0 FT SOUTH OF THE APPROXIMATE CENTERLINE OF NORTHWEST 39TH
DL2188'STREET, 28.7 FT WEST OF FCE-3090 1968, 17.0 FT WEST OF THE
DL2188'APPROXIMATE CENTERLINE OF THE STRUCTURE AND 1.8 FT EAST OF THE
DL2188'NORTHWEST CORNER OF THE STRUCTURE.

*** retrieval complete.

Elapsed Time = 00:00:01

REGISTRATION WORKSHEET - BF-1 Installation/Modification

Site Name: **BF-1** Today's Date: **2/5/2015** Type Recorder: **CR10**
 Activity: **Installation/Modifica** Effective Date: Start Date of Data :
 Customer: **Lee Hennick/SCADA CR.10** Bus. Area: **SCADA** Agency: **SFWMD** Internal Order:
 Project Manager: **E. Ebanks** Bus. Area: **InfrStr.Mgt/Survey** Agency: **SFWMD** Fund:
 Contract #:
 Project Name: Legal Mandate:

Short Common Name / Description:

Proj. Mgr. Notes: Addendum Added to Update Surveying Data for REF. ELEV... Well Head Modified..

Site Directions: From I-95/ Oakland Park Blvd in Broward County... Take Oakland Park Blvd. West to NW 31st Ave... Make Right and go North on 31st Ave to NW 39st... make right and go East to S-36 and Station Location... (Well Enclosure East of Gate Structure, North Side)..

Site Address (if any):

Transportation: **Std Vehicle** Lock type or combination: **Abloy S** #
 Recorder Location/Purpose: **Floridian Aquifer Wells** Structure Type:
 Array ID Configuration table attached

SURVEY INFORMATION

B.M. Elevation: **11.71ft** Date: **6/6/1968** Stamp: **FCE- 3090 1968 JAX**
 Agency: **USACE** Type: **BRASS** Datum: **NGVD 29**

Benchmark Location/ Description: Located at the NE Corner of Gate Structure of S-36...

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
GW1		12.758ft	2/5/2015				11.71ft	NGVD 29	Mark Top of Gal. Elbow... 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								
GW1																

COORDINATE INFORMATION

Item/Parm	Lat	Long	X-Coord	Y-Coord	Sec	Township	Range	Quad	Basin	County	Description
GW1	26 10 24	80 10 47			20	49	42	Ft. LAUD. N		Broward	