

SURVEYOR'S REPORT

Specific Purpose Survey of the Monitoring Wells

OSF-53

Osceola County, Florida

South Florida Water Management District's

Purchase Order number PC P602214

Keith and Schnars project number 16434.07,

Task 22003

Report Date: August 15, 2006

Submittal: First

Prepared for:

South Florida Water Management District

Prepared by:



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Licensed Business (L.B.) 1337

SURVEYOR'S REPORT

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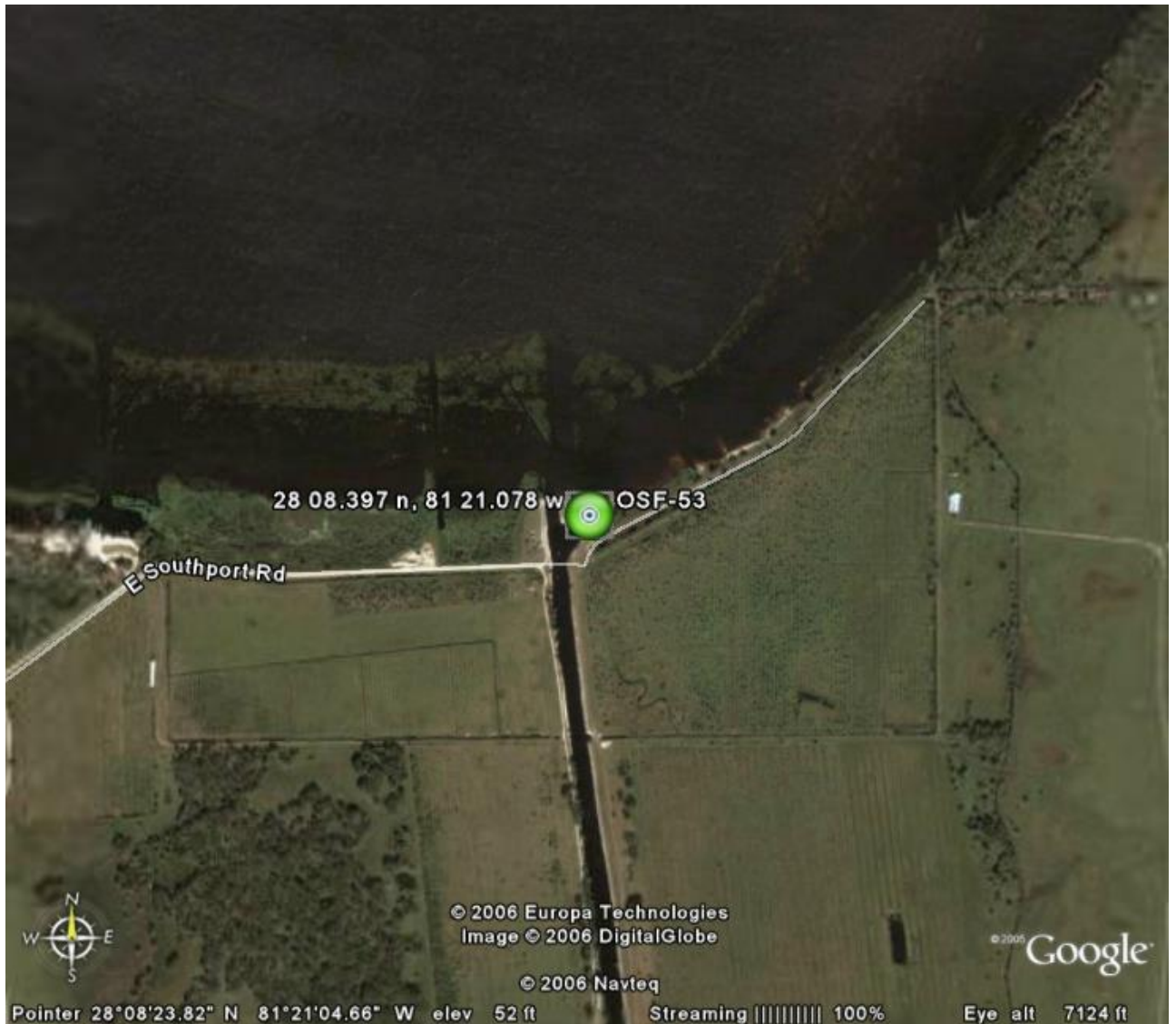
SURVEYOR'S REPORT

PURPOSE

To establish vertical data (NAVD 1988 and NGVD 1929) on the Monitoring Wells at the structure.

LOCATION OF PROJECT

The project is located in Osceola County.



SURVEYOR'S REPORT

ITEMS DELIVERED TO THE DISTRICT

1. Electronic copy of field notes.
2. Electronic copy of all computation sheets.
3. CORPSMET 95 file.
4. Site photographs.
5. Surveyor's Report.

DATUM FOR THE PROJECT


The vertical datum for the project is North American Datum of 1988 (NAVD '88). National Geodetic Survey vertical control monuments with published NAVD '88 elevations were used as the basis for this survey. The National Geodetic Vertical Datum of 1929 (NGVD '29) shown were computed using CORPSCON version 6.0 program.

LEVELING METHODS

Benchmark OSF-53 was constructed at the site. The elevations were established from Benchmark C 513 using a Topcon DL-102C Digital Level and adjusted using Tripod Data Systems Survey Link DC with Geodetic and Digital Level modules 7.5.5.

SURVEYOR'S REPORT

VERTICAL CONTROL

BM C 513		Elevation:	NAVD 1988	60.57'	NGVD 1929	
Found in National Geodetic Survey Database	Latitude		28°08'19" (Scaled)			
State/County FL/Osceola	Longitude		81°21'39" (Scaled)			
USGS QUAD St. Cloud South (1980)						
Horiz. Order (Preliminary) Class (Preliminary)	<p>DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM) THE MARK IS ABOUT 17.5 MI SOUTHWEST OF KISSIMMEE, IN SECTION 13, TOWNSHIP 27 SOUTH, RANGE 29 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192 (VINE STREET) AND U.S. HIGHWAY 17, 92 (JOHN YOUNG PARKWAY) IN KISSIMMEE, GO SOUTH ON U.S. HIGHWAY 17, 92 FOR 3.5 MI TO THE JUNCTION OF PLEASANT HILL ROAD (COUNTY ROAD 531) ON THE LEFT, TURN LEFT ON PLEASANT HILL ROAD (COUNTY ROAD 531) AND GO SOUTH FOR 7.55 MI TO THE JUNCTION OF SOUTHPORT ROAD ON THE LEFT, TURN LEFT ON SOUTHPORT ROAD AND GO EAST FOR 5.5 MI TO THE MARK ON THE LEFT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND ABOUT LEVEL WITH SOUTHPORT ROAD. LOCATED 44.0 FT SOUTHWEST OF THE ENTRANCE TO SOUTHPORT PARK AT 2001, 43.3 FT NORTHWEST OF THE CENTERLINE OF SOUTHPORT ROAD, 13.0 FT NORTH-NORTHWEST OF THE WEST END OF A SOUTHPORT PARK SIGN, 7.6 FT NORTHWEST OF A METAL LIGHT POLE, 3.0 FT WEST OF A 5-FOOT TALL CHAINLINK FENCE AND 1.0 FT SOUTHEAST OF A FENCE AND A CARSONITE WITNESS POST.</p> <p>NOTE A MAGNET WAS IMBEDDED IN THE MONUMENT ON THE SOUTH SIDE.</p>					
						

SURVEYOR'S REPORT

PROJECT RESULTS

Monitoring Well (GW-1)	Monitoring Well (GW-2)
<p>Monitoring Well OSF-53: Reference mark: <u>Set mark on N. side PVC pipe</u> <u>With initials K&S.</u></p> <p>New Reference Mark El. <u>64.928'</u> (NGVD '29) <u>(Wrote -1.043' to NAVD 1988).</u></p> <p>Initials: <u>K&S</u> <u>B.M., R.F., R.C</u></p> <p>Date: <u>7/28/06</u></p> <p>written at the mark: El. <u>64.72'</u> Date: <u>11/28/01</u> By: <u>Hydrogage Inc.</u></p> <p>Reference Mark location: <u>Top of PVC Pipe</u></p>	<p>Monitoring Well OSF-53: Reference mark: <u>Set mark on N. side PVC pipe</u> <u>With initials K&S.</u></p> <p>New Reference Mark El. <u>63.685'</u> (NGVD '29) <u>(Wrote -1.043' to NAVD 1988).</u></p> <p>Initials: <u>K&S</u> <u>B.M., R.F., R.C</u></p> <p>Date: <u>7/28/06</u></p> <p>written at the mark: El. <u>63.51'</u> Date: <u>11/28/01</u> By: <u>Hydrogage Inc.</u></p> <p>Reference Mark location: <u>Top of PVC Pipe</u></p>

SURVEYOR'S REPORT

PROJECT RESULTS

Monitoring Well (GW-3)

Monitoring Well OSF-53:

Reference mark:

Set mark on N. side PVC pipe
With initials K&S.

New Reference

Mark El. **64.609'**

(NGVD '29)

(Wrote -1.043' to NAVD 1988).

Initials:

K&S

B.M., R.F., R.C

Date:

7/28/06

written at the mark:

El. **64.40'**

Date: **11/28/01**

By: **Hydrogage Inc.**

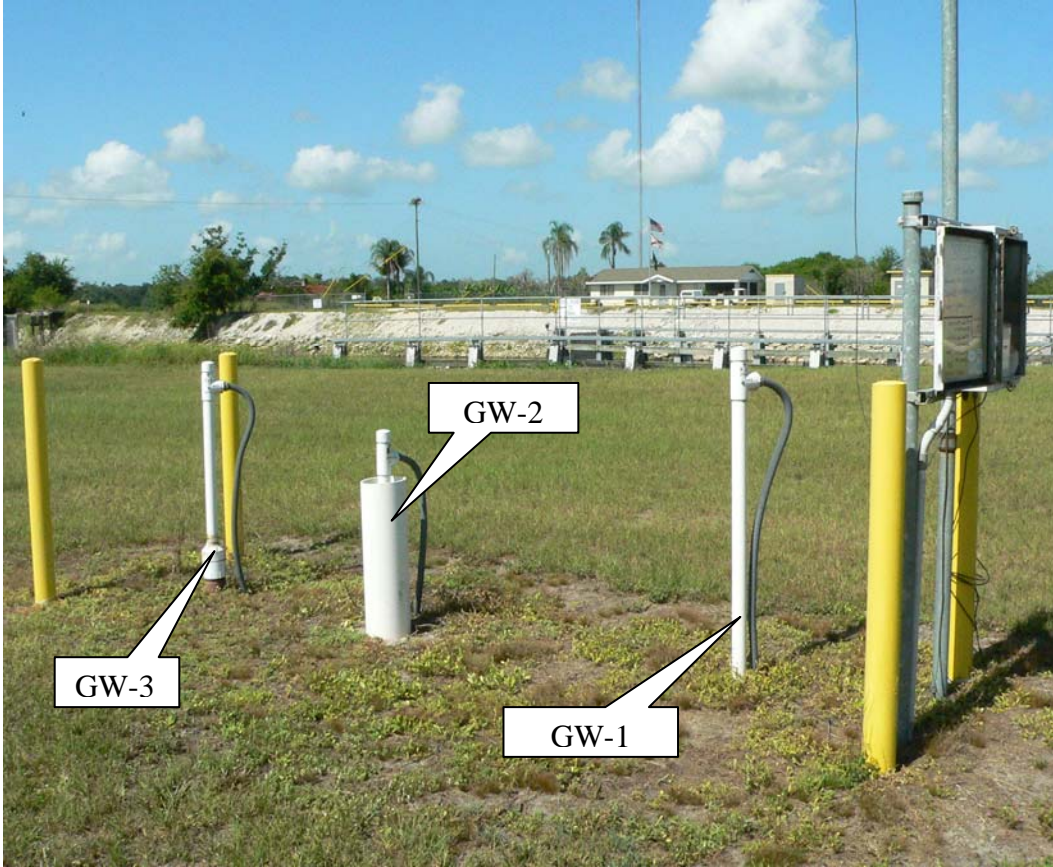
Reference Mark location:

Top of PVC Pipe

SURVEYOR'S REPORT

PROJECT PHOTO

OSF-53



SURVEYOR'S REPORT

PROJECT PHOTO

OSF-53 (GW-1)



SURVEYOR'S REPORT

PROJECT PHOTO

OSF-53 (GW-2)



SURVEYOR'S REPORT

PROJECT PHOTO

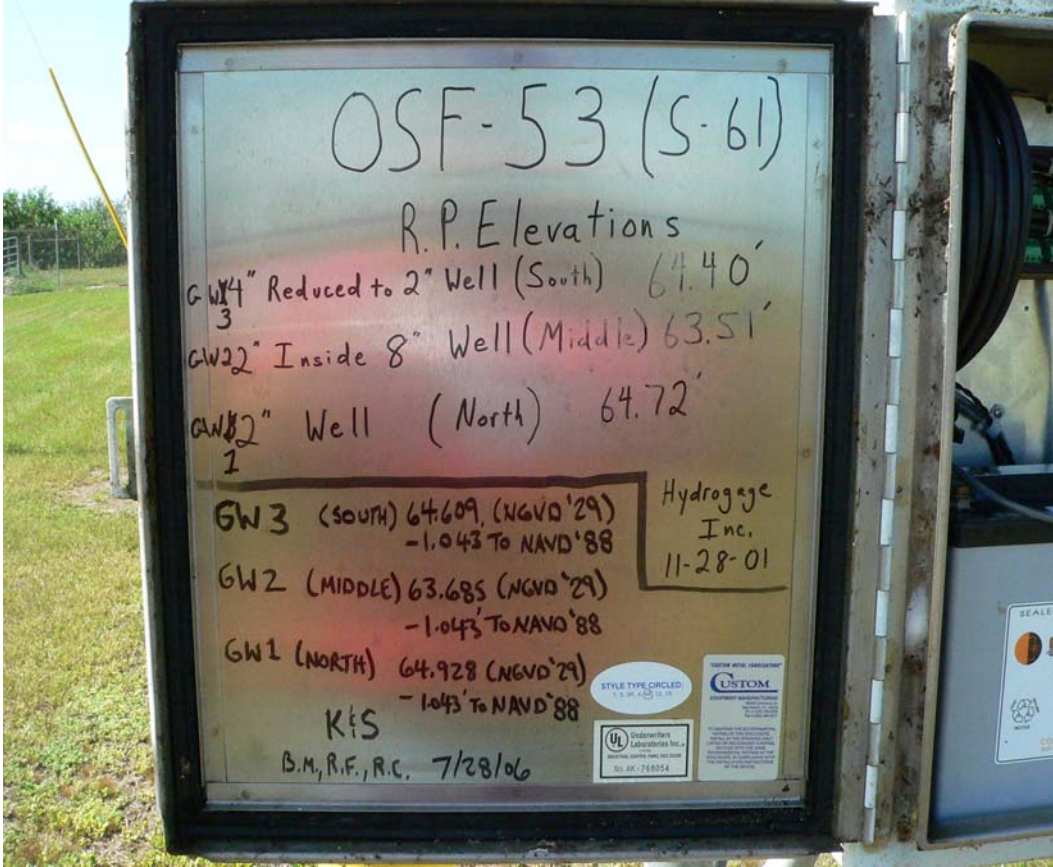
OSF-53 (GW-3)



SURVEYOR'S REPORT

PROJECT PHOTO

OSF-53



SURVEYOR'S REPORT

PROJECT PHOTO

OSF-53



SURVEYOR'S REPORT

Comments:

Party Chief: **B. Miller** Field Book: **1156** Page **24**
Bench Mark: **"C 513"** El. **60.57'**, Vertical Datum: **NAVD1988**
Offset: **1.043'** SFWMD VALUE (add this value to convert to NGVD 1929)
Offset: **1.043'** NGS VALUE (add this value to convert to NGVD 1929)
NAVD 88 - North American Vertical Datum of 1988
NGVD29 -National Geodetic Vertical Datum of 1929
NAD 83-99 (Horizontal Datum) North American Datum
NGS- National Geodetic Survey
SFWMD- South Florida Water Management District
PVC- Polyvinyl Chloride

SURVEYOR'S CERTIFICATION

I hereby certify that this Specific Purpose Survey meets applicable portions of the Minimum Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61-G17, Florida Administrative Code. This report is prepared for the sole and specific use of the South Florida Water Management District and is not assignable.

KEITH and SCHNARS, PA.
L.B. number 1337

By:

Date of Survey
July 28, 2006

Kenneth T. Glass, PSM
Professional Surveyor and Mapper
State of Florida
Certificate No. 5713

Identifi cation_Inf ormati on:

Ci tati on:

Ci tati on_Inf ormati on:

Ori gi nator: Kenneth T. Gl ass, P. S. M. (ed.)
 Publ i cation_ Date: 20060728
 Publ i cation_ Ti me: Unknown
 Ti tle: S. F. W. M. D. Moni tori ng Wel l
 Edi ti on: OSF-53
 Seri es_ Inf ormati on:
 Publ i cation_ Inf ormati on:
 Publ i cation_ Pl ace: Not Publ i shed
 Publ i sher: None
 Onl i ne_ Li nkage: kgl ass@kei thandschnars.com
 Larger_ Work_ Ci tati on:
 Ci tati on_ Inf ormati on:
 Seri es_ Inf ormati on:
 Publ i cation_ Inf ormati on:

Descri pti on:

Abstr act:

South Fl ori da Water Management Di stri ct
 Structure OSF-53

Purpos e:

To establi sh reference elevati ons in NAVD 1988 and NGVD 1929 datum at the Moni tori ng Wel l (s).

Time_ Peri od_of_ Content:

Time_ Peri od_ Inf ormati on:

Si ngl e_ Date/ Ti me:
 Cal endar_ Date: 20060728
 Range_of_ Dates/ Ti mes:
 Mul ti pl e_ Dates/ Ti mes:

Currentness_ Reference: Publ i cation Date

Status:

Progress: Complete
 Mai ntenance_and_ Update_ Frequency: Unknown

Spati al_ Domai n:

Boundi ng_ Coordi nates:

West_ Boundi ng_ Coordi nate: 81° 21' 04. 7"
 East_ Boundi ng_ Coordi nate: 81° 21' 04. 7"
 North_ Boundi ng_ Coordi nate: 28° 08' 23. 8"
 South_ Boundi ng_ Coordi nate: 28° 08' 23. 8"

Keywords:

Theme:

Theme_ Keyword_ Thesaurus: Speci fi c Purpose Survey
 Theme_ Keyword: Moni tori ng Wel l (s)

Pl ace:

Pl ace_ Keyword_ Thesaurus: Osceol a County
 Pl ace_ Keyword: S. F. W. M. D. Moni tori ng Wel l OSF-53
 Pl ace_ Keyword: SEC. 18 - T27S - R30E

Stratum:

Tempor al :

Access_ Constraints: Key needed to gain access to Moni tori ng Wel l s.

Use_ Constraints: Cal l South Fl ori da Water Management Di stri ct for key.

Poi nt_of_ Contact:

Contact_ Inf ormati on:

Contact_ Person_ Pri mary:

Contact_ Person: Howard J. Ehmke
 Contact_ Organi zati on: South Fl ori da Water Management

Di stri ct

Contact_ Organi zati on_ Pri mary:

Contact_ Posi ti on: P. S. M.

Contact_ Address:

Address_ Type: mai li ng and physi cal address
 Address:

OSF 53.gen
Acceler 8
Suite 150
2301 Centerpark West Drive

City: West Palm Beach
State_or_Province: Florida
Postal_Code: 33409
Country: USA

Contact_Voice_Telephone: (561) 242-5520 ext 4064
Contact_Electronic_Mail_Address: hehmke@sfwmd.gov
Hours_of_Service: 8:00 am to 5:00 pm EST

Security_Information:

Cross_Reference:

Citation_Information:

Series_Information:

Publication_Information:

Data_Quality_Information:

Attribute_Accuracy:

Attribute_Accuracy_Report:

The horizontal location of the benchmark was taken from a hand held G.P.S. unit. The vertical data was collected using a Wild DL-102C Level. Coordinates are based on the Florida State Plane Coordinate System, East Zone, NAD 83/90. Elevations are based on NAVD 1988 with an offset supplied to convert to NGVD 1929.

Logical_Consistency_Report:

Vertical data on the monitoring well was established using the site benchmark.

Completeness_Report:

64.928' (NGVD 1929) OSF-53 Well (GW-1) .
Offset written at wells (-) 1.043' to NAVD 1988.

63.685' (NGVD 1929) OSF-53 Well (GW-2) .
Offset written at wells (-) 1.043' to NAVD 1988.

64.609' (NGVD 1929) OSF-53 Well (GW-3) .
Offset written at wells (-) 1.043' to NAVD 1988.

OSF-53 2006 was the site benchmark used for this survey. NAVD 1988 elevation 60.365'

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report:

The horizontal position of the benchmark was established using a hand held GPS.

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: Lat.

28°08' 23.8" Long. 81°21' 04.7"

Horizontal_Positional_Accuracy_Explanation: Value

derived by hand-held GPS unit.

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report:

The onsite benchmark was used to establish the elevations on the monitoring well(s) in this report.

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 0.001 ft. NAVD88

Vertical_Positional_Accuracy_Explanation: Better

than 0.03ft. x sq. root of miles of the level loop.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Series_Information:

Publication_Information:

Page 2

OSF 53.gen
 Larger_Work_Citation:
 Citation_Information:
 Series_Information:
 Publication_Information:
 Source_Time_Period_of_Content:
 Time_Period_Information:
 Single_Date/Time:
 Range_of_Dates/Times:
 Multiple_Dates/Times:
 Process_Step:
 Process_Description:
 Differential Leveling was performed using a Wild
 NA-2 Level .
 The onsite benchmark OSF53 2006 was used to
 determine the monitoring well elevation. Elevations
 were written at the wells in NGVD 1929 with an
 offset
 provided to convert the elevations to NAVD 1988.
 Process_Date: 20060728
 Process_Contact:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Organization_Primary:
 Contact_Address:
 Spatial_Data_Organization_Information:
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Geographic:
 Latitude_Resolution: 28°08' 23. 8"
 Longitude_Resolution: 81°21' 04. 7"
 Geographic_Coordinate_Units: Degrees, minutes, and
 decimal seconds
 Geodetic_Model :
 Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Depth_System_Definition:
 Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Attribute:
 Attribute_Domain_Values:
 Attribute_Value_Accuracy_Information:
 Overview_Description:
 Distribution_Information:
 Distributor:
 Contact_Information:
 Contact_Person_Primary:
 Contact_Organization_Primary:
 Contact_Organization: Keith and Schnars, P. A.
 Contact_Person: Kenneth T. Glass, P. S. M.
 Contact_Position: Director of Surveying and Mapping Lakeland
 Contact_Address:
 Address_Type: mailing and physical address
 Address: 2525 Drane Field Rd., Suite 7
 City: Lakeland
 State_or_Province: Florida
 Postal_Code: 33811
 Country: Polk
 Contact_Voice_Telephone: (863)-646-4771
 Contact_Facsimile_Telephone: (863)-646-3378
 Contact_Electronic_Mail_Address: kglass@keithandschnars.com
 Hours_of_Service: 8:00-5:00 est.
 Distribution_Liability: None

OSF 53. gen

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Dialup_Instructions:

Offline_Option:

Recording_Capacity:

Available_Time_Period:

Time_Period_Information:

Single_Date/Time:

Range_of_Dates/Times:

Multiple_Dates/Times:

Metadata_Reference_Information:

Metadata_Date: 20060809

Metadata_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Kenneth T. Glass, P. S. M.

Contact_Organization: Keith and Schnars, P. A.

Contact_Organization_Primary:

Contact_Position: Director of Surveying and Mapping Lakeland

Contact_Address:

Address_Type: mailing and physical address

Address: 2525 Drane Field Rd., Suite 7

City: Lakeland

State_or_Province: FL

Postal_Code: 33811

Country: USA

Contact_Voice_Telephone: (863) 646-4771

Contact_Facsimile_Telephone: (863) 646-3378

Contact_Electronic_Mail_Address: kglass@keithandschnars.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: 19940608

Metadata_Security_Information:

SAME CREW

7/28/2006

OSF 53 RE DO

BM	BS	MEAN	HF	FS	MEAN
	5.94				
BM OSF 53	5.88	5.880			
	<u>5.82</u>				
	17.64				
				2.55	
WELL PIPE 1				2.30	2.300
				2.17	
				7.08	
				3.81	
WELL PIPE 2				3.60	3.603
				3.40	
				10.81	
	3.07			2.87	
WELL PIPE 3	2.86	2.860		2.68	2.680
	2.65			2.47	
	8.58			8.04	
				6.13	
BM OSF 53				6.06	6.063
				6.00	

ELEV.	ADJ. ELEV.	REMARKS
60.365		POURED CONC. MON. W/ S.F.W.M.D. BRASS DISK
NAVD 88		
63.885		2" PVC PIPE 2.5' SW OF CONTROL BOX
		NGVD 29 =
		64.928
		- 1.043
62.642		2" PVC PIPE 8' SW OF CONTROL BOX IN 8" PVC PIPE
		ENCASEMENT
		NGVD 29 =
		63.685
		- 1.043 TO NAVD 88
63.565	63.566	2" PVC PIPE 11.5' SW OF CONTROL BOX
		NGVD 29 =
		64.609
		- 1.043
60.362	60.365	POURED CONC. MON. W/ S.F.W.M.D. BRASS DISK
- 0.003	NAVD 88	



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY OSCEOLA	PROJECT	DESIGNATION Structure OSF-53	
SECTION 18	TOWNSHIP 27 SOUTH	RANGE 30 EAST	
GEOGRAPHIC INDEX OF QUAD			
Established by <u>KEITH AND SCHNARS</u> Recovered by <u>SET CLASS "C" MONUMENT WITH SFWMD BRASS DISK.</u>		NAME OF QUADRANGLE <u>ST. CLOUD SOUTH</u>	
SURVEYOR <u>B. MILLER (Keith and Schnars)</u> DATE <u>06/22/2006</u>		FIELD BOOK, 1156, pgs. 24	
HORIZONTAL DATUM: 1983 with 1999 correction, ZONE East			
VERTICAL DATUM: NGVD 1929 and NAVD 1988			
CONTROL ACCURACY: HORIZONTAL HAND-HELD GPS, 3rd Order VERTICAL			
STATE PLANE COORDINATES	X = 542949	Y = 1383747	EL. (NGVD 1929) 61.408' EL. (NAVD 1988) 60.365'
LATITUDE <u>28° 08' 23.8"</u>		LONGITUDE <u>81° 21' 04.7"</u>	
DESCRIPTION			
South Florida Water Management District brass disk set in concrete monument stamped OSF 53 / 2006			
The benchmark is located at the south side of Lake Tohopekaliga			
To reach the mark from the intersection of John Young Parkway and Pleasant Hill Rd. go south along Pleasant Hill Rd. a distance of 7.5 miles to the intersection of W. Southport Rd. Then go east along W. Southport Rd. a distance of 5.3 miles to an access road for structure S61. Then continue east along the Access road a distance of 0.6 miles to the mark. The mark is located 50+- east of the centerline of the south Lock gate and 27.5' south east of the south east corner of a block pump building.			
Notable Land marks:			



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

Pictures



The NGS Data Sheet

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



```

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35
1 National Geodetic Survey, Retrieval Date = APRIL 28, 2006
DF6712 *****
DF6712 DESIGNATION - C 513
DF6712 PID - DF6712
DF6712 STATE/COUNTY- FL/OSCEOLA
DF6712 USGS QUAD - ST CLOUD SOUTH (1980)
DF6712
DF6712 *CURRENT SURVEY CONTROL
DF6712
DF6712 * NAD 83(1986)- 28 08 19. (N) 081 21 39. (W) SCALED
DF6712 * NAVD 88 - 18.462 (meters) 60.57 (feet) ADJUSTED
DF6712
DF6712 GEOID HEIGHT- -27.66 (meters) GEOID03
DF6712 DYNAMIC HT - 18.434 (meters) 60.48 (feet) COMP
DF6712 MODELED GRAV- 979,153.2 (mgal) NAVD 88
DF6712
DF6712 VERT ORDER - SECOND CLASS I
DF6712
DF6712 The horizontal coordinates were scaled from a topographic map and have
DF6712 an estimated accuracy of +/- 6 seconds.
DF6712
DF6712 The orthometric height was determined by differential leveling
DF6712 and adjusted by the National Geodetic Survey in April 2004..
DF6712
DF6712 The geoid height was determined by GEOID03.
DF6712
DF6712 The dynamic height is computed by dividing the NAVD 88
DF6712 geopotential number by the normal gravity value computed on the
DF6712 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DF6712 degrees latitude (g = 980.6199 gals.).
DF6712
DF6712 The modeled gravity was interpolated from observed gravity values.
DF6712
DF6712;
DF6712; SPC FL E - North East Units Estimated Accuracy
DF6712; - 421,620. 164,560. MT (+/- 180 meters Scaled)
DF6712
DF6712 SUPERSEDED SURVEY CONTROL
DF6712 No superseded survey control is available for this station.
DF6712
DF6712 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM645126(NAD 83)
DF6712_MARKER: DD = SURVEY DISK
DF6712_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DF6712_STAMPING: C 513 2001
DF6712_MARK LOGO: FLDEP
DF6712_PROJECTION: FLUSH
DF6712_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DF6712_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DF6712+STABILITY: SURFACE MOTION
DF6712_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DF6712+SATELLITE: SATELLITE OBSERVATIONS - June 28, 2001
DF6712
DF6712 HISTORY - Date Condition Report By
DF6712 HISTORY - 20010628 MONUMENTED FLDEP
DF6712
DF6712 STATION DESCRIPTION
DF6712
DF6712 DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
DF6712 THE MARK IS ABOUT 17.5 MI SOUTHWEST OF KISSIMMEE, IN SECTION 13,
DF6712 TOWNSHIP 27 SOUTH, RANGE
DF6712 29 EAST.
DF6712
DF6712 TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192 (VINE STREET)
DF6712 AND U.S. HIGHWAY
DF6712 17, 92 (JOHN YOUNG PARKWAY) IN KISSIMMEE, GO SOUTH ON U.S. HIGHWAY 17,
DF6712 92 FOR 3.5 MI TO THE
DF6712 JUNCTION OF PLEASANT HILL ROAD (COUNTY ROAD 531) ON THE LEFT, TURN
DF6712 LEFT ON PLEASANT HILL

```

DATASHEETS

DF6712' ROAD (COUNTY ROAD 531) AND GO SOUTH FOR 7.55 MI TO THE JUNCTION OF
DF6712' SOUTHPORT ROAD ON
DF6712' THE LEFT, TURN LEFT ON SOUTHPORT ROAD AND GO EAST FOR 5.5 MI TO THE
DF6712' MARK ON THE LEFT,
DF6712' SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND
DF6712' ABOUT LEVEL
DF6712' WITH SOUTHPORT ROAD.
DF6712'
DF6712' LOCATED 44.0 FT SOUTHWEST OF THE ENTRANCE TO SOUTHPORT PARK AT 2001,
DF6712' 43.3 FT
DF6712' NORTHWEST OF THE CENTERLINE OF SOUTHPORT ROAD, 13.0 FT NORTH-NORTHWEST
DF6712' OF THE WEST
DF6712' END OF A SOUTHPORT PARK SIGN, 7.6 FT NORTHWEST OF A METAL LIGHT POLE,
DF6712' 3.0 FT WEST OF A
DF6712' 5-FOOT TALL CHAINLINK FENCE AND 1.0 FT SOUTHEAST OF A FENCE AND A
DF6712' CARSONITE WITNESS POST.
DF6712'
DF6712' NOTE A MAGNET WAS IMBEDDED IN THE MONUMENT ON THE SOUTH SIDE.
DF6712'
DF6712'
DF6712'

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

The NGS Data Sheet

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

DATABASE = Sybase ,PROGRAM = datasheet, VERSION = 7.35

1 National Geodetic Survey, Retrieval Date = APRIL 28, 2006

DF6745 *****

DF6745 DESIGNATION - OS 129
 DF6745 PID - DF6745
 DF6745 STATE/COUNTY- FL/OSCEOLA
 DF6745 USGS QUAD - ST CLOUD SOUTH (1980)

DF6745 *CURRENT SURVEY CONTROL

DF6745*	NAD 83(1986)-	28 08 18.	(N)	081 21 06.	(W)	SCALED
DF6745*	NAVD 88	-	18.573 (meters)	60.93	(feet)	ADJUSTED

DF6745 GEOID HEIGHT- -27.68 (meters) GEOID03
 DF6745 DYNAMIC HT - 18.545 (meters) 60.84 (feet) COMP
 DF6745 MODELED GRAV- 979,153.3 (mgal) NAVD 88

DF6745 VERT ORDER - SECOND CLASS I

DF6745 The horizontal coordinates were scaled from a topographic map and have
 DF6745 an estimated accuracy of +/- 6 seconds.

DF6745 The orthometric height was determined by differential leveling
 DF6745 and adjusted by the National Geodetic Survey in April 2004..

DF6745 The geoid height was determined by GEOID03.

DF6745 The dynamic height is computed by dividing the NAVD 88
 DF6745 geopotential number by the normal gravity value computed on the
 DF6745 Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 DF6745 degrees latitude (g = 980.6199 gals.).

DF6745 The modeled gravity was interpolated from observed gravity values.

DF6745;		North	East	Units	Estimated Accuracy
DF6745;SPC FL E	-	421,590.	165,460.	MT	(+/- 180 meters Scaled)

DF6745 SUPERSEDED SURVEY CONTROL

DF6745 No superseded survey control is available for this station.

DF6745 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM654125(NAD 83)

DF6745 MARKER: DD = SURVEY DISK

DF6745 SETTING: 40 = SET IN A LARGE STRUCTURE WITH DEEP FOUNDATIONS

DF6745 SP_SET: WATER STRUCTURE

DF6745 STAMPING: SFWMD BM OS-129 1981

DF6745 MARK LOGO: USE

DF6745 MAGNETIC: N = NO MAGNETIC MATERIAL

DF6745 STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

DF6745+STABILITY: POSITION/ELEVATION WELL

DF6745_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DF6745+SATELLITE: SATELLITE OBSERVATIONS - July 20, 2001

DF6745	HISTORY	- Date	Condition	Report By
DF6745	HISTORY	- 1981	MONUMENTED	USE
DF6745	HISTORY	- 20010720	GOOD	FLDEP

DF6745 HISTORY - 20010720 GOOD FLDEP

DF6745 STATION DESCRIPTION

DF6745 DESCRIBED BY FL DEPT OF ENV PRO 2001 (JLM)
 DF6745 THE MARK IS ABOUT 17.5 MI SOUTHWEST OF KISSIMMEE, IN SECTION 18,
 DF6745 TOWNSHIP 27 SOUTH, RANGE
 DF6745 30 EAST.

DF6745 TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192 (VINE STREET)
 DF6745 AND U.S. HIGHWAY
 DF6745 17, 92 (JOHN YOUNG PARKWAY) IN KISSIMMEE, GO SOUTH ON U.S. HIGHWAY 17,
 DF6745 92 FOR 3.5 MI TO THE
 DF6745 JUNCTION OF PLEASANT HILL ROAD (COUNTY ROAD 531) ON THE LEFT, TURN

DATASHEETS

DF6745' LEFT ON PLEASANT HILL
DF6745' ROAD (COUNTY ROAD 531) AND GO SOUTH FOR 7.55 MI TO THE JUNCTION OF
DF6745' SOUTHPORT ROAD ON
DF6745' THE LEFT, TURN LEFT ON SOUTHPORT ROAD AND GO EAST FOR 6.0 MI TO THE
DF6745' END OF THE PAVEMENT
DF6745' AND A PRIVATE POSTED GATE, CONTINUE EAST ON THE SHELL ROAD FOR 0.5 MI
DF6745' TO A GATE,
DF6745' CONTINUE NORTHEAST ON STRUCTURE ROAD FOR 0.05 MI TO THE MARK ON THE
DF6745' MARK RIGHT, SET IN
DF6745' THE TOP OF THE SOUTHEAST STRUCTURE WALL ABOUT LEVEL WITH THE ROAD.
DF6745'
DF6745' LOCATED 9.5 FT SOUTH OF THE APPROXIMATE CENTERLINE OF THE STRUCTURE
DF6745' ROAD, 1.9 FT WEST
DF6745' OF A METAL GUARDRAIL AND 0.9 FT EAST OF A 4-FOOT TALL CHAINLINK FENCE
DF6745'
DF6745'
DF6745'

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

Closure Report for file V:\PROJECTS-NEW FORMAT\16434.07 - SFWMD - Monitoring Well Sites\TASK 2

Job No. / Task No. : 1643407 / 22003 OSF 53 BENCHRUN
 Benchmark No. : C 513
 Starting BM Elev. : 60.570
 Ending BM Elev. : 60.930
 Unadjusted Ending Elev.: 60.929
 Closure Error : -0.001
 Length of Level Run : 3,889.480
 Allowable Error : 0.026
 Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt.#	Unadj. Elev.	Adj. Elev.	Description
=====	=====	=====	=====
C 513	60.570		
TBM1	61.188	61.188	
TBM2	60.336	60.336	
TBM3	60.519	60.519	
TBM4	60.585	60.585	
TBM5	61.207	61.208	
TBM6	60.411	60.412	
TBM7	61.927	61.928	
TBM8	61.141	61.142	
TBM9	61.819	61.820	
BM OSF 53	60.364	60.365	
TBM10	61.774	61.775	
OS 129	60.929	60.930	

Closure Report for file V:\PROJECTS-NEW FORMAT\16434.07 - SFWMD - Monitoring Well Sites\TASK 2

Job No. / Task No. : 1643407 / 22003 OSF 53 BENCHRUN
Benchmark No. : OS 129
Starting BM Elev. : 60.930
Ending BM Elev. : 60.570
Unadjusted Ending Elev.: 60.550
Closure Error : -0.020
Length of Level Run : 3,625.060
Allowable Error : 0.025
Units : Feet

Closure is within allowable tolerances

Adjustment proportional to total distance

Pt.#	Unadj. Elev.	Adj. Elev.	Description
OS 129	60.930		
TBM11	60.979	60.981	
TBM12	61.165	61.170	
TBM13	61.367	61.374	
TBM14	61.263	61.273	
TBM15	61.858	61.870	
TBM16	61.577	61.592	
TBM17	60.666	60.683	
C 513	60.550	60.569	