

SURVEYOR'S REPORT

Specific Purpose Survey of the Monitoring Wells

TOHO 15

Osceola County, Florida

South Florida Water Management District's

Purchase Order number PC P602220

Keith and Schnars project number 16434.07,

Task 22002

Report Date: August 15, 2006

Submittal: First

Prepared for:

South Florida Water Management District

Prepared by:



2525 Drane Field Road Suite #7

Lakeland, FL 33811

Ph. (863) 646-4771 Fax (863) 464-3378

Licensed Business (L.B.) 1337

SURVEYOR'S REPORT

TABLE OF CONTENTS

Purpose	1
Project location	1
Deliverables	2
Datum	2
Leveling Methods	2
Vertical Control	3
Project Results	4
Project Photos	5-8
Surveyor's Certificate	9

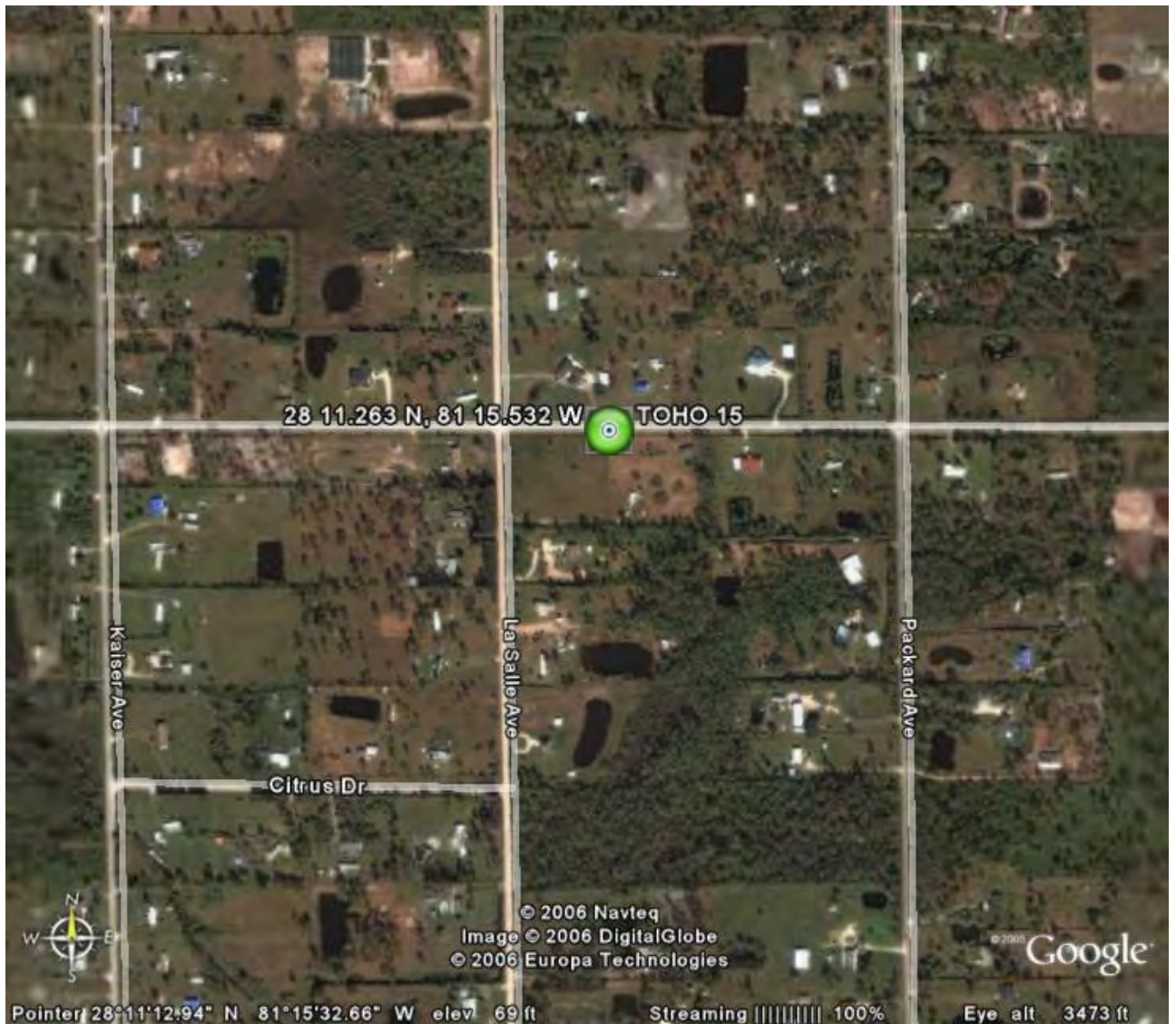
SURVEYOR'S REPORT

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 TOHO-15 was constructed at the site. The elevations were established from Benchmark C576 with a Wild NA-2 conventional level and three-wire observation method.

SURVEYOR'S REPORT

VERTICAL CONTROL

BM C 576		Elevation:	NAVD 1988	70.66'	NGVD 1929	
Found in National Geodetic Survey Database	Latitude		28°11'40" (Scaled)			
State/County FL/Osceola	Longitude		81°14'38" (Scaled)			
USGS QUAD Ashton (1981)						
Horiz. Order (Preliminary) Class (Preliminary)	<p>DESCRIBED BY FL DEPT OF ENV PRO 2002 (JLM) THE MARK IS ABOUT 4.0 MI SOUTHEAST OF ST. CLOUD, 3.6 MI SOUTH OF ASHTON, IN SECTION 30, TOWNSHIP 26 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192, 441 (13TH STREET) AND COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST. CLOUD, GO EAST ON U.S. HIGHWAY 192, 441 (13TH STREET, EAST BRONSON HIGHWAY) FOR 3.0 MI TO THE INTERSECTION OF STATE ROAD 15, TURN RIGHT ON STATE ROAD 15 AND GO SOUTH FOR 2.35 MI TO THE JUNCTION OF OLD HICKORY TREE ROAD ON THE RIGHT, CONTINUE SOUTH ON STATE ROAD 15 (OLD HICKORY TREE ROAD FOR 1.25 MI TO THE JUNCTION OF PINE TREE DRIVE ON THE RIGHT AND THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND CONCRETE MONUMENT FLUSH WITH THE GROUND AND LEVEL WITH PINE TREE DRIVE. LOCATED 78.8 FT WEST OF THE CENTERLINE OF OLD HICKORY TREE ROAD, 23.0 FT SOUTH OF THE CENTERLINE OF PINE TREE DRIVE, 9.8 FT WEST OF POWER POLE NUMBER 20340 (EC815A202) AND 5.3 FT NORTH OF A HOGWIRE FENCE AND A CARSONITE WITNESS POST.</p> <p>NOTE A BAR MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE MONUMENT.</p>					
						

SURVEYOR'S REPORT

PROJECT RESULTS

Monitoring Well

Monitoring Well TOHO 15:
Reference mark:
Set mark on S. side PVC pipe
With initials K&S.

New Reference
Mark El. **78.404'**
(NGVD '29)
(Wrote -1.027' to NAVD 1988).

Initials:

K&S
B.M., R.F., R.C.

Date:
7/27/06

written at the mark:

El. **78.267'**
Date: **6-10-99**
By: **D.S.Y., F.D.**

Reference Mark location:
Top of PVC Pipe

SURVEYOR'S REPORT

PROJECT PHOTO

TOHO-15



SURVEYOR'S REPORT

PROJECT PHOTO

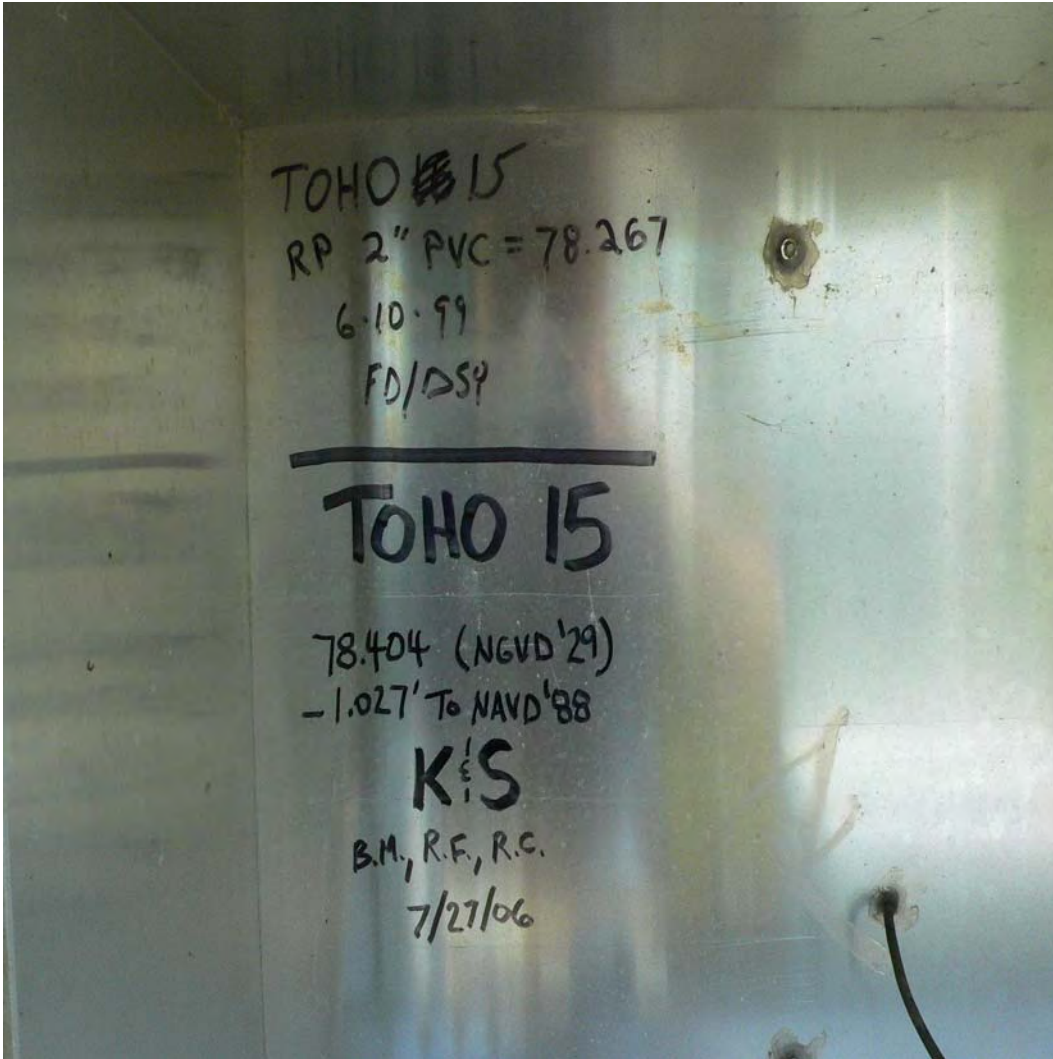
TOHO-15



SURVEYOR'S REPORT

PROJECT PHOTO

TOHO-15



SURVEYOR'S REPORT

PROJECT PHOTO

TOHO-15



SURVEYOR'S REPORT

Comments:

Party Chief: D. Sullivan Field Book: 1156 Page 44-52
Bench Mark: "C 576" El. 70.66', Vertical Datum: NAVD1988
Offset: 1.024' SFWMD VALUE (add this value to convert to NGVD 1929)
Offset: 1.024' 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 27, 2006

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

JOB NO 16434.07
 DATE 06-30-06
 CREW SAME

BENCH WORK TOHO 15

BM	BS	MN	HI	FS	MN
C576	6.15 5.25 4.35	180' 5.250			
TBML	6.54 5.38 4.22	232' 5.380		6.61 5.71 4.82	79' 5.713
TBM2	6.08 4.92 5.76	232' 4.920		6.66 5.49 4.33	233' 5.493
TBM3	6.39 5.23 4.07	232' 5.230		6.42 5.26 4.10	232' 5.260
TBMA	6.46 5.24 4.01	245' 5.237		6.85 5.69 4.53	232' 5.690
TBM5	6.43 5.67 4.91	152' 5.670		6.51 5.28 4.06	245' 5.283
	1273'			1121	
	1278	21.687		1121	27.439

ELEV	ADJ ELEV	REMARKS
		NGS DATA SHEET C 576 PUBLISHED ELEV. = 70.66 NAVD '88
70.66		RND CMON W/NGS BRASS DISC STAMPED C576 2002
		PK NAIL W EP SR 15
		" " " " "
		" " " " "
		" " " " "
		" " " " "

JOB NO. 16434 OT
 DATE 07-03-06
 FOR S.F.W.M.D.
 LOCATION LAKE TOHO MONITORING SITES
 EQUIPMENT WILD. NA 2# 596939, CHICAGO ROD, RUBBLE LEVEL
 CREW D. SULLIVAN D. JOHNSON R. CRUM

BENCH WORK TOHO IS (CONT)

BM	BS	MN	HF	FS	MN	ELEV	ADJ ELEV	REMARKS
TOHO-15	7.61 6.70 5.78	183'	6.697			74.027	74.022	CAST MONUMENT W/S.F.W.M.D. DISC
TBM 17	6.38 5.22 4.07	231'	5.223	6.88 5.96 5.05	183'	5.963		PK NAIL No. EP LAKE SHORE DR.
TBM 18	6.61 5.80 4.99	162'	5.800	7.20 6.05 4.90	230'	6.050		PK NAIL No. EP LAKE SHORE DR.
TBM 19	6.45 5.29 4.12	233'	5.287	8.01 7.20 6.39	162'	7.200		PK NAIL W. EP PACKARD AVE.
TBM 20	6.57 5.35 4.14	243'	5.353	7.28 6.12 4.95	233'	6.117		" " " " " "
TBM 21	6.57 5.43 4.29	235'	5.430	7.32 6.10 4.88	244'	6.100		" " " " " "
	4998 480		33.790	4766 7052		31.430		

JOB NO 16484.07
 DATE 01-03-06
 CREW SAME

BENCH WORK TO HOIS (CONT)

Bm	BS	MIN	HI	FS	MIN
TBM 22	7.29 6.12 4.95	234 234	6.120	6.87 5.73 4.00	227 227
TBM 23	6.95 6.09 5.22	173 173	6.087	6.13 4.96 3.79	234 234
TBM 24	8.01 6.87 5.74	227 227	6.873	5.91 5.04 4.17	174 174
TBM 25	7.71 6.57 5.42	229 229	6.567	5.19 4.07 2.94	225 225
TBM 26	6.32 5.12 3.92	340 340	5.120	5.89 4.74 3.60	229 229
TBM 27	6.46 5.31 4.16	230 230	5.310	6.75 5.55 4.35	240 240
	6331 7323		36.077	6095 7324	30.093

ELEV ADJ ELEV R

70.654 PK NAIL W EP PACKARD AVE

" " " " " "

" " " " " "

PK NAIL NO. EP DEER RUN RD

" " " " " "

" " " " " "

JOB NO.	DATE	CREW	BENCH WORK TOHO-15 (CONT)			
BM	BS	MN	HE	FS	MN	
TBM 28	6.25 5.10 3.94	5.097		7.18 6.03 4.87	6.027	
TBM 29	6.87 5.69 4.52	5.693		6.72 5.56 4.41	5.563	
TBM 30	5.09 3.91 2.73	3.910		7.17 6.02 4.84	6.017	
TBM 31	5.96 4.83 3.70	4.830		7.71 6.53 5.35	6.530	
TBM 32	6.68 5.96 5.25	5.963		6.46 5.33 4.21	5.333	
TBM 33	6.12 5.89 5.66	5.890		7.63 6.91 6.20	6.913	
	7448			7396		
	117	31.383		130	36.383	

ELEV	ADJ ELEV	REMARKS
76.344		PK NAIL N. OF DEER RUN RD
		" " " " " " " "
		" " " " " " " "
		" " " " " " " "
		" " " " " " " "
		" " " " " " " "
		TOED HUB N.E. PART OF FIRESTATION

JOB NO 16434.07
 DATE 07-03-06
 CREW SAME

BENCH WORK TOLHO-15 (CONT)

BM BS MN HI FS MN

B576 7.65' 125'
 7.02 7.023 6.55'
 6.40 6.30 6.00
 6.05 6.300
 7446 END RUN

TBM 34 5.77' 125'
 4.63 4.633 6.71'
 3.30 6.08 6.083
 5.46

TBM 35 6.72' 229'
 5.57 5.573 7.10'
 4.43 5.97 5.970
 4.84

TBM 36 6.26' 257'
 5.07 5.073 6.43'
 3.89 5.28 5.283
 4.14

TBM 37 5.54' 200'
 4.54 4.540 7.56'
 3.54 6.38 6.377
 5.19

TBM 38 6.45' 225'
 5.32 5.323 6.07'
 4.20 5.07 5.070
 4.07

1243 32.165 1017
~~1067~~ 35.083

ELEV ADJ ELEV REMARKS

NGS DATA SHEET B 576
 PUBLISHED ELEV. = 711.06 LAND '88

71.071 71.06 NGS FLANGE ENCASED ROD
 +0.011 FLANGE STAMPED B576
 14894 = 5200 = 2.021 FTIES
 $\sqrt{2.821} \times 0.03 = 0.050$ ALLOWABLE ERR
 AIR NAIL E. OF URIS

" " " " "

" " " " "

" " " " "

" " " " "

JOB NO 16434.07
DATE 01-03-06
CREW SAME

BENCH WORK TOHO IS (CONT)

BM	BS	MN	HI	FS	MN
	5.35			6.22	
TBM 44	5.02	5.023		5.45	5.450
	4.70			4.68	
	2613				
				5.34	
C576				5.03	5.033
				4.73	
				2610	

ELEV HDJ ELEV REMARKS

70.695 PK NAIL E EP SR 15

NGS DATA SHEET C 576
PUBLISHED ELEV. = 70.66 LAND 88

70.685 70.66 RND CMON W/NGS DISC STAMPEN C576
70.625 2002

$$5223 \div 5280 = 0.989$$

$$\sqrt{0.989} \times 0.03 = 0.030 \text{ ALLOWABLE ERR}$$

SAME CREW
7/27/2006
TOHO 15 REDO

BM	BS	MEAN	HI	FS	MEAN
	6.54				
Bm TOHO 15	6.42	6.420			
	6.24				
	19.26				
	3.46			3.23	
WELL PIPE 1	3.29	3.293		3.07	3.064
	3.13			2.90	
	9.88			9.20	
				6.80	
Bm TOHO 15				6.65	6.650
				6.50	
				19.95	

ELEV.	ADJ. ELEV.	REMARKS
	74.022	POURED CONC. MON. W/ S.F.W.M.D. BRASS DISK
	NAND 88	
77.375	77.377	2" PVC PIPE IN ALUMI BOX ON 8" PVC PIPE
		INCASEMENT
		NGVD 29 =
		78.404
		-1.027 TO NAND 88
74.018	74.022	POURED CONC. MON. W/ S.F.W.M.D. BRASS DISK
-0.004	NAND 88	

Identification Information:

Citation:

Citation Information:

Kenneth T. Glass
Keith & Schnars

Originator: Kenneth T. Glass, P. S. M. (ed.)
 Publication_Date: 20060727
 Publication_Time: Unknown
 Title: S. F. W. M. D. Monitoring Well
 Edition: TOHO-15
 Series_Information:
 Publication_Information:
 Publication_Place: Not Published
 Publisher: None
 Online_Linkage: kglass@keithandschnars.com
 Larger_Work_Citation:
 Citation_Information:
 Series_Information:
 Publication_Information:

Description:

Abstract:

South Florida Water Management District
 Structure TOHO-15

Purpose

Purpose:

To establish reference elevations in NAVD 1988 and
 NGVD 1929 datum at the Monitoring Well(s).

Time_Period_of_Content:

Time_Period_Information:

Survey Date

Single_Date/Time:

Calendar_Date: 20060727

Range_of_Dates/Times:

Multiple_Dates/Times:

Currentness_Reference: Publication Date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: Unknown

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: 81° 15' 31.9"

East_Bounding_Coordinate: 81° 15' 31.9"

North_Bounding_Coordinate: 28° 11' 15.8"

South_Bounding_Coordinate: 28° 11' 15.8"

Keywords:

Theme:

Theme_Keyword_Thesaurus: Specific Purpose Survey
 Theme_Keyword: Monitoring Well(s)

Place:

Place_Keyword_Thesaurus: Osceola County

Place_Keyword: S. F. W. M. D. Monitoring Well TOHO-15

Place_Keyword: SEC. 30 - T26S - R31E

Stratum:

Temporal:

Access_Constraints: Key needed to gain access to Monitoring Wells.

Use_Constraints: Call South Florida Water Management District for key.

Point_of_Contact:

Contact_Information:

Howard Ehmke**SFWMD**

District

Contact_Person_Primary:

Contact_Person: Howard J. Ehmke

Contact_Organization: South Florida Water Management

Contact_Organization_Primary:

Contact_Position: P. S. M.

Contact_Address:

Address_Type: mailing and physical address

Address:

Acceler 8

Suite 150

2301 Centerpark West Drive

City: West Palm Beach

State_or_Province: Florida

Postal_Code: 33409

Country: USA

TOHO 15.gen

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:

Equipment Used

The horizontal location of the benchmark was taken from a hand held G.P.S. unit. The vertical data was collected using a Wild NA-2 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:

Project Results

78.404' (NGVD 1929) TOHO-15 Well.
Offset written at wells (-) 1.027' to NAVD 1988.
TOHO-15 2006 was the site benchmark used for this survey. NAVD 1988 elevation 74.022'

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal

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°11'15.8"

Long. 81°15'31.9"

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: 0.011ft. 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:

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:

Level Line

Differential leveling was performed using a Wild NA-2 Level. The onsite benchmark TOHO-15 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: 20060727

Process_Contact:

Contact_Information:

Contact_Person_Primary:

TOHO 15. gen
Contact_Organizational_Primary:
Contact_Address:

Spatial_Data_Organizational_Information:

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geographic:

Latitude_Resolution: 28° 11' 15. 8"

Longitude_Resolution: 81° 15' 31. 9"

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_Organizational_Primary:

Contact_Organizational: 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

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_Organizational: Keith and Schnars, P. A.

Contact_Organizational_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

TOHO 15.gen
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:



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY OSCEOLA	PROJECT	DESIGNATION Structure TOHO-15	
SECTION <u>30</u>	TOWNSHIP <u>26</u> SOUTH	RANGE <u>31</u> EAST	
GEOGRAPHIC INDEX OF QUAD			
Established by <u>KEITH AND SCHNARS</u>		NAME OF QUADRANGLE	
Recovered by		<u>ST. CLOUD SOUTH</u>	
SET CLASS "C" MONUMENT WITH SFWMD BRASS DISK.			
SURVEYOR <u>D. SULLIVAN (Keith and Schnars)</u>		FIELD BOOK, 1156, pgs. 44-52	
DATE <u>06/30/2006</u>			
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 = 572778	Y = 1401043	EL. (NGVD 1929) 75.049'
			EL. (NAVD 1988) 74.022'
LATITUDE <u>28° 11' 15.8"</u>		LONGITUDE <u>81° 15' 31.9"</u>	
DESCRIPTION			
South Florida Water Management District brass disk set in concrete monument stamped TOHO 15 / 2006			
The benchmark is located 4.4 miles south of St. Cloud			
To reach the mark from the intersection of U.S. 192 and Vermont Ave. in Saint Cloud travel south along Vermont Ave. a distance of 4.8 miles (Vermont Ave. will turn into Canoe Creek Rd.) to Deer Run Rd. Then			
Travel east Along Deer Run Rd. a distance of 1.6 miles to Packard St. Then travel north along Packard St.			
A distance of 0.4 miles to Lake Shore Dr. Then travel west along Lake Shore Dr. 0.1 miles to the mark			
Being on the south Side of the road. The mark is 21' from the south edge of pavement, and 48' south east			
From the well structure.			
Notable Land marks:			



SKETCH

**TOHO15
Benchmark**

**TOHO15
Well Site**





WATER MGMT DIVISION
ILLINOIS

1015

YEAR 2006

SURVEY DO NOT DISTURB MARKER

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 27, 2006
DG6241 *****
DG6241 DESIGNATION - C 576
DG6241 PID - DG6241
DG6241 STATE/COUNTY- FL/OSCEOLA
DG6241 USGS QUAD - ASHTON (1981)
DG6241
DG6241 *CURRENT SURVEY CONTROL
DG6241
DG6241 * NAD 83(1986)- 28 11 40. (N) 081 14 38. (W) SCALED
DG6241 * NAVD 88 - 21.538 (meters) 70.66 (feet) ADJUSTED
DG6241
DG6241 GEOID HEIGHT- -27.92 (meters) GEOID03
DG6241 DYNAMIC HT - 21.506 (meters) 70.56 (feet) COMP
DG6241 MODELED GRAV- 979,155.5 (mgal) NAVD 88
DG6241
DG6241 VERT ORDER - SECOND CLASS I
DG6241
DG6241.The horizontal coordinates were scaled from a topographic map and have
DG6241.an estimated accuracy of +/- 6 seconds.
DG6241
DG6241.The orthometric height was determined by differential leveling
DG6241.and adjusted by the National Geodetic Survey in September 2004..
DG6241
DG6241.The geoid height was determined by GEOID03.
DG6241
DG6241.The dynamic height is computed by dividing the NAVD 88
DG6241.geopotential number by the normal gravity value computed on the
DG6241.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG6241.degrees latitude (g = 980.6199 gals.).
DG6241
DG6241.The modeled gravity was interpolated from observed gravity values.
DG6241
DG6241; North East Units Estimated Accuracy
DG6241;SPC FL E - 427,780. 176,060. MT (+/- 180 meters Scaled)
DG6241
DG6241 SUPERSEDED SURVEY CONTROL
DG6241 No superseded survey control is available for this station.
DG6241
DG6241 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM760187(NAD 83)
DG6241_MARKER: DD = SURVEY DISK
DG6241_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG6241_STAMPING: C 576 2002
DG6241_MARK LOGO: FLDEP
DG6241_PROJECTION: FLUSH
DG6241_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG6241_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG6241+STABILITY: SURFACE MOTION
DG6241_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG6241+SATELLITE: SATELLITE OBSERVATIONS - November 24, 2002
DG6241
DG6241 HISTORY - Date Condition Report By
DG6241 HISTORY - 20021024 MONUMENTED FLDEP
DG6241 HISTORY - 20021124 GOOD FLDEP
DG6241
DG6241 STATION DESCRIPTION
DG6241
DG6241'DESCRIBED BY FL DEPT OF ENV PRO 2002 (JLM)
DG6241'THE MARK IS ABOUT 4.0 MI SOUTHEAST OF ST. CLOUD, 3.6 MI SOUTH OF
DG6241'ASHTON, IN SECTION 30, TOWNSHIP 26 SOUTH, RANGE 31 EAST.
DG6241'
DG6241'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192, 441 (13TH
DG6241'STREET) AND COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST.
DG6241'CLOUD, GO EAST ON U.S. HIGHWAY 192, 441 (13TH STREET, EAST BRONSON
DG6241'HIGHWAY) FOR 3.0 MI TO THE INTERSECTION OF STATE ROAD 15, TURN RIGHT
DG6241'ON STATE ROAD 15 AND GO SOUTH FOR 2.35 MI TO THE JUNCTION OF OLD
DG6241'HICKORY TREE ROAD ON THE RIGHT, CONTINUE SOUTH ON STATE ROAD 15 (OLD

```

DATASHEETS

DG6241'HICKORY TREE ROAD FOR 1.25 MI TO THE JUNCTION OF PINE TREE DRIVE ON
DG6241'THE RIGHT AND THE MARK ON THE RIGHT, SET IN THE TOP OF A ROUND
DG6241'CONCRETE MONUMENT FLUSH WITH THE GROUND AND LEVEL WITH PINE TREE
DG6241'DRIVE.
DG6241'
DG6241'LOCATED 78.8 FT WEST OF THE CENTERLINE OF OLD HICKORY TREE ROAD, 23.0
DG6241'FT SOUTH OF THE CENTERLINE OF PINE TREE DRIVE, 9.8 FT WEST OF POWER
DG6241'POLE NUMBER 20340 (EC815A202) AND 5.3 FT NORTH OF A HOGWIRE FENCE AND
DG6241'A CARSONITE WITNESS POST. NOTE A BAR MAGNET WAS IMBEDDED IN THE
DG6241'GROUND ON THE SOUTH SIDE OF THE MONUMENT.

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

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 27, 2006
DG6255 *****
DG6255 DESIGNATION - B 576
DG6255 PID - DG6255
DG6255 STATE/COUNTY- FL/OSCEOLA
DG6255 USGS QUAD - ASHTON (1981)
DG6255
DG6255 *CURRENT SURVEY CONTROL
DG6255
DG6255 * NAD 83(1986)- 28 10 48. (N) 081 14 35. (W) SCALED
DG6255 * NAVD 88 - 21.660 (meters) 71.06 (feet) ADJUSTED
DG6255
DG6255 GEOID HEIGHT- -27.90 (meters) GEOID03
DG6255 DYNAMIC HT - 21.627 (meters) 70.95 (feet) COMP
DG6255 MODELED GRAV- 979,154.8 (mgal) NAVD 88
DG6255
DG6255 VERT ORDER - SECOND CLASS I
DG6255
DG6255 .The horizontal coordinates were scaled from a topographic map and have
DG6255 .an estimated accuracy of +/- 6 seconds.
DG6255
DG6255 .The orthometric height was determined by differential leveling
DG6255 .and adjusted by the National Geodetic Survey in September 2004..
DG6255
DG6255 .The geoid height was determined by GEOID03.
DG6255
DG6255 .The dynamic height is computed by dividing the NAVD 88
DG6255 .geopotential number by the normal gravity value computed on the
DG6255 .Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG6255 .degrees latitude (g = 980.6199 gals.).
DG6255
DG6255 .The modeled gravity was interpolated from observed gravity values.
DG6255
DG6255 ;
DG6255 ; North East Units Estimated Accuracy
DG6255 ; SPC FL E - 426,180. 176,130. MT (+/- 180 meters Scaled)
DG6255
DG6255 SUPERSEDED SURVEY CONTROL
DG6255
DG6255 No superseded survey control is available for this station.
DG6255
DG6255 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RMM761171(NAD 83)
DG6255 _MARKER: F = FLANGE-ENCASED ROD
DG6255 _SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DG6255 _STAMPING: B 576 2003
DG6255 _MARK LOGO: NGS
DG6255 _PROJECTION: FLUSH
DG6255 _MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DG6255 _STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DG6255 _SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
DG6255 +SATELLITE: SATELLITE OBSERVATIONS - February 06, 2003
DG6255 _ROD/PIPE-DEPTH: 24.3 meters
DG6255
DG6255 HISTORY - Date Condition Report By
DG6255 HISTORY - 20030206 MONUMENTED FLDEP
DG6255
DG6255 STATION DESCRIPTION
DG6255
DG6255 'DESCRIBED BY FL DEPT OF ENV PRO 2003 (JLM)
DG6255 'THE MARK IS ABOUT 5.0 MI SOUTHEAST OF ST. CLOUD, 4.5 MI SOUTH OF
DG6255 'ASHTON, IN SECTION 32, TOWNSHIP 26 SOUTH, RANGE 31 EAST.
DG6255 '
DG6255 'TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 192, 441 (13TH
DG6255 'STREET) AND COUNTY ROAD 523 (VERMONT AVENUE, CANOE CREEK ROAD) IN ST.
DG6255 'CLOUD, GO EAST ON U.S. HIGHWAY 192, 441 (13TH STREET, EAST BRONSON
DG6255 'HIGHWAY) FOR 3.0 MI TO THE INTERSECTION OF STATE ROAD 15, TURN RIGHT
DG6255 'ON STATE ROAD 15 AND GO SOUTH FOR 2.35 MI TO THE JUNCTION OF OLD
DG6255 'HICKORY TREE ROAD ON THE RIGHT, CONTINUE SOUTH ON STATE ROAD 15 (OLD
DG6255 'HICKORY TREE ROAD FOR 2.25 MI TO THE JUNCTION OF DEER RUN ROAD ON THE

```

DATASHEETS

DG6255'RIGHT, CONTINUE SOUTH ON STATE ROAD 15 (OLD HICKORY TREE ROAD) FOR
DG6255'0.05 MI TO THE MARK ON THE LEFT, A STAINLESS STEEL ROD DRIVEN TO
DG6255'REFUSAL AT A DEPTH OF 79.6 FT WITH A NGS LOGO CAP FLUSH WITH THE
DG6255'GROUND AND 0.5 FT BELOW THE LEVEL OF OLD HICKORY TREE ROAD, THE DATUM
DG6255'POINT IS RECESSED 0.5 FT BELOW THE NGS LOGO CAP.
DG6255'
DG6255'LOCATED 117.5 FT SOUTH OF A DRIVEWAY, 105.0 FT SOUTH OF THE EXTENDED
DG6255'CENTERLINE OF DEER RUN ROAD, 29.0 FT EAST OF THE CENTERLINE OF OLD
DG6255'HICKORY TREE ROAD, 1.7 FT WEST OF A BARBWARE FENCE AND 1.3 FT WEST OF
DG6255'A CARSONITE WITNESS POST. NOTE ACCESS TO THE DATUM POINT IS HAD
DG6255'THROUGH A 5-INCH NGS LOGO CAP.
DG6255'
DG6255'NOTE A BAR MAGNET WAS PLACED INSIDE THE NGS LOGO CAP.

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