

## **Data Sheet and Surveyor's Report** for

## Buck Island Ranch Monitoring Well Benchmarks

Description: Monitoring Well "BUCK 01" Date: June 17, 2005

Location: Buck Island Ranch, Highlands County, Florida

Benchmarks established:

1. "BUCK 01A": 3" bronze survey disk set in concrete monument

a. Elevation: **8.0479 m** 

2. "BUCK 01B": Top of existing 1.5" steel pipe

a. Elevation: **8.0912 m** 

3. "BUCK 01C": Top of existing 3" PVC monitoring well casing

a. Elevation: **8.9913 m** 

Party Chief: **G. Royer** Field Book: **154**, Pages **1 - 45** 

Survey Date: **February – May 2005** Bench Mark: "**H-437**" El. **9.395 m / 30.82 ft.** 

"J-437" El. 11.555 m / 37.91 ft.

Vertical Datum: **NAVD1988** 

NGVD 1929 Offset: + 1.210 ft. (add this value to convert to NGVD 1929)

#### Comments:

The offset value referred to as "NGVD 1929 Offset" was derived by subtracting the published NAVD 1988 elevation from the published NGVD 1929 elevation for NGS Benchmarks "H-437 and J-437".

**G.P.S. POSITION** (NAD 83, Florida East Zone, Sub-meter):

Well Site: "BUCK 01A" N = 1019042 E = 585756

NAVD 88 - North American Vertical Datum of 1988 NGVD29 -National Geodetic Vertical Datum of 1929 NAD 83 (Horizontal Datum) North American Datum of 1983

\*Note: See the SFWMD Benchmark Description Sheet for additional information

#### SURVEYOR'S REPORT

Hyatt Survey Services, Inc. operating under sub-contract to George F Young, Inc. and the South Florida Water Management District was tasked with the execution of a Vertical Control Survey in support of the District's Benchmark Densification and Monitoring Well Elevation Initiatives.

The purpose of this survey was to establish benchmarks at each of 22 monitoring wells on the Buck Island Ranch Facility in Highlands County, Florida. A minimum of two (2) benchmarks were established at each well.

- 1. "A" benchmarks are NGS Class "C", "poured-in-place," concrete monuments with SFWMD bronze disks set flush with the ground.
- 2. "B" benchmarks were set on the top of existing 1.5" steel pipes at each well site. Each pipe protrudes approximately 3" above the surrounding ground.
- 3. "C" benchmarks were set on the top of the 3" PVC well casing at each well site.

Elevations were determined by digital differential leveling performed in accordance with the Minimum Technical Standards (MTS) for Vertical Control Surveys as set forth in Chapter 61G17-6 FAC and the requirements for Second-Order Class II Vertical Control Surveys as established by the Federal Geodetic Control Sub-committee.

All elevations are based on National Geodetic Survey Benchmarks "H-437" and "J-437" both Second Order, Class I vertical control monuments. The vertical datum used was NAVD 88 (North American Vertical Datum of 1988).

All level runs were double-run under differing atmospheric conditions and meet or exceed the formula of the Square Root in miles of the level run multiplied by 0.03'. A Leica DNA 3003 digital level and two 3 meter aluminum bar-coded "Invar Rods" with aluminum struts were utilized to obtain all leveling data.

The processing of the field data was performed by and under the supervision of Mr. Ronnie Taylor, Florida's NGS Advisor. NGS' "WDDPROC" leveling software was utilized to process the field data and to create the NGS benchmark descriptions.

Prepared by:	Hyatt Survey Services,	Inc.
repared by:		

11007 8<sup>th</sup> Avenue East Bradenton, Florida 34212

(941) 748-4693

Prepared for: South Florida Water Management District

3301 Gun Club Road

West Palm Beach, Florida 33406

#### **Notes:**

- 1) This survey meets all applicable requirements of the Florida Minimum Technical Standards as contained in Chapter 61G17-6 FAC.
- 2) Not valid without the signature and the original raised seal of the Florida Surveyor and Mapper in responsible Charge.
- 3) Additions or deletions to this data by anyone other than the signing party are prohibited without written consent of the signing party.

#### **Hyatt Survey Services, Inc.**

Russell P. Hyatt, PSM, VP Professional Surveyor and Mapper License Number 5303

Signed:	Seal:

## BUCK01



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc. Date of Photo: June 17, 2005

View: Well Site

## BUCK01A



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc. Date of Photo: June 9, 2005

View: Monument

## **BUCK01B**



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc.

Date of Photo: June 9, 2005

View: Pipe

## BUCK01C



Prime Contractor: George F. Young, Inc. Subcontractor: Hyatt Survey Services, Inc.

Date of Photo: June 9, 2005

View: Well

#### LEICA DIGITAL GEODETIC LEVELING - BACKUP RECORDING SHEET

LINE	PROJECT	FILENAME	PAGE	OF

SURVEY	SURVEY	TIME ZONE	TEMP PROBE	TEMP PROBE
ORDER	CLASS	CODE	TOP HGT	BOTTOM HGT
				·

#### CODE 1 - BEGINNING OF DAY OR CHANGE IN OBSERVER OR INSTRUMENT TYPE

INFO 1	INFO 2	OBS'R	INFO 3 -INST TYPE	INFO 4 -TEMP CODE
DATE (MMDDYY)	OBS'R #	INIT'S	(2000, 2002, 3000, 3003)	(0 for C - 1 for F)
5/18/5				

#### CODE 2 - EQUIPMENT USED

INFO 1 - INST SERIAL	INFO 2 - INST	ROD	INFO 3 - ROD I	INFO 4 - ROD 2
	COLLIMATION	CODE	SERIAL#	SERIAL #
		396		

#### CODE 11 - BEGINNING SECTION INFORMATION

SPSN	BM	BENCH MARK	INFO 1	INFO 2	INFO 3	DIR
#	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #	TEMP	F B
16	BUXZ	BKX 24 2005"	1240	1	680	

#### CODE 99 - ENDING SECTION INFORMATION

SPSN	BM	BENCH MARK	INFO 1	INFO 2	INFO 3	INFO 4
=	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #	TEMP	W/S ≠
15	BUCKI	BUCK 1-A 2005"	1350	l	88°	1/2

#### SECTION OBSERVATONS INFORMATION (Recall from level using UP/DN arrows)

TOTAL	TOTAL DISTANCE	ACCUMULATED	ELEV DIFFERENCE
SETUPS	(D)	IMB (d)	(GROUND HGT)
7	6487	-3.85	+0.0651

	LOSURE	REMARKS	
F			
В			
DIF			
ALW'D			

WIND CODE - (0) 0-6 MPH (1) 6-15 MPH (2) >15 MPH

SUN CODE - (0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

OTHER INFO CODES

CODE 22 - REJECT PREVIOUS BACKSIGHT AND FORSIGHT (NO INFO ENTRIES - PRESS REC)

CODE 33 - GRADIENT TEMPERATURES (INFO 1 - LOWER PROBE - NO DECIMAL 761 FOR 76.1)

(INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

LEICA DIGITAL GEODETIC LEVELING - BACKUP RECORDING SHEET PROJECT FILENAME PAGE LINE

SURVEY ORDER	SURVEY CLASS	TIME ZONE	TEMP PROBE TOP HGT	TEMP PROBE BOTTOM HGT
				·

CODE 1 - BEGINNING OF DAY OR CHANGE IN OBSERVER OR INSTRUMENT TYPE

INFO 1	INFO 2	OBS'R	INFO 3 -INST TYPE	[NFO 4 -TEMP CODE
DATE (MMDDYY)	OBS'R ≢	INIT'S	(2000, 2002, 3000, 3003)	(0 for C - 1 for F)

CODE 2 - EOUIPMENT USED

INFO 1 - INST SERIAL	INFO 2 - INST	ROD	INFO 3 - ROD I	INFO 4 - ROD 2
	COLLIMATION	CODE	SERIAL ≓	SERIAL ≓
		396		

CODE 11 - BEGINNING SECTION INFORMATION

SPSN	BM	BENCH MARK	INFO I	INFO 2	INFO 3	DIR
=	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #	TEMP	F B
15	BUK-1	BKK-14"2005"	1557	1 (* 4, , *	870	

CODE 99 - ENDING SECTION INFORMATION

SPSN	BM	BENCH MARK	INFO I	INFO 2	INFO 3	INFO 4
#	DESIG	STAMPING	TIME (HHMM)	Rod On Mark #	TEMP	W/S ≠
01	H-437	H-437 1995"	1920		83°	1/2

SECTION OBSERVATONS INFORMATION (Recall from level using UP/DN arrows)

TOTAL	TOTAL DISTANCE (D)	ACCUMULATED	ELEV DIFFERENCE
SETUPS		IMB (d)	(GROUND HGT)
21	1673.3	-1.9	+1.3480

	CLOSURE	REMARKS	
F			
В			
DIF			
ALW'D			

WIND CODE - (0) 0-6 MPH (1) 6-15 MPH (2) >15 MPH

SUN CODE -(0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

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(INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

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SPSN  EVAL  DODE 99  SPSN  TO IS  CTION	BM DESIG BM DESIG BULK-I OBSERVA TOTAL SETUPS	SECTIONS D	BENCE STA 437 ON INFO. BENCE STA: UC-OI NFORM. TOTA	H MARK MPING V915 RMATION H MARK MPING ATION (RO AL DISTA: (D)	ecall fr	TE CO	INFO I AS (HEMM)  2': 30PW  evel using UP/  ACCUMUL  IMB (c	Rod Rod DN ar	On Mar	k# T	NFO 3 TEMP B3"	INFO W/S= O/2		
SPSN  SPSN  DDE 99  SPSN  TON  CTION	BM DESIG BM DESIG BULK-I OBSERVA TOTAL SETUPS	SECTIONS D	BENCE STA 437 ON INFO. BENCE STA: UC-OI NFORM. TOTA	H MARK MPING V915 RMATION H MARK MPING ATION (RO AL DISTA: (D)	ecall fr	TE CO	INFO I AS (HEMM)  2': 30PW  evel using UP/  ACCUMUL  IMB (c	Rod Rod DN ar	On Mar	k# T	NFO 3 TEMP B3"	INFO W/S= O/2		

SUN CODE - (0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY

(INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 22 - REJECT PREVIOUS BACKSIGHT AND FORSIGHT (NO INFO ENTRIES - PRESS REC) CODE 33 - GRADIENT TEMPERATURES (INFO 1 - LOWER PROBE - NO DECIMAL 761 FOR 76.1)

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OTHER INFO CODES

LEICA DIGITAL GEODETIC LEVELING - BACKUP RECORDING SHEET

LEICA DIGITAL GEODETIC LEVELING - BACKUP RECORDING SHEET LINE **PROJECT** FILENAME PAGE OF 1) SURVEY SURVEY TIME ZONE TEMP PROBE TEMP PROBE ORDER CODE CLASS TOP HGT ВОТТОМ НСТ Q CODE 1 - BEGINNING OF DAY OR CHANGE IN OBSERVER OR INSTRUMENT TYPE INFO 1 INFO 2 OBS'R INFO 3 -INST TYPE INFO 4 -TEMP CODE DATE (MMDDYY) OBS'R ≓ INIT'S (2000, 2002, 3000(3003)) (0 for C - I for F) 52 179 04.78.05 CODE 2 - EQUIPMENT USED INFO 1 - INST SERIAL INFO 2 - INST ROD INFO 3 - ROD I INFO 4 - ROD 2 COLLIMATION CODE SERIAL # SERIAL # 2834Z*O*-396 CODE 11 - BEGINNING SECTION INFORMATION SPSN 3.4 BENCH MARK INFO 1 INFO 2 INFO 3 DIR : B TEMP DESIG STAMPING TIME (HHMM) Rod On Mark # 793 W15 BKK.1 BKKIA 13:20 PM CODE 99 - ENDING SECTION INFORMATION INFO 2 INFO 3 INFO 4 \$25N BM BENCH MARK INFO 1 STAMPING TIME (HEMM) Rod On Mark # TEMP W/S= DESIG 4:43 FM E5° 036 BKK-2 BKK-24 2005 01 SECTION OBSERVATONS INFORMATION (Recall from level using UP/DN arrows) ELEV DIFFERENCE TOTAL TOTAL DISTANCE ACCUMULATED SETUPS (D) IMB (d) (GROUND HGT) 610.2 +03 +0,0432 -0.0635 REMARKS CLOSURE F В DIF

WIND CODE - (0) 0-6 MPH (1) 6-15 MPH (2) >15 MPH SUN CODE - (0) 25% SUNNY (1) 25-75% SUNNY (2) >75% SUNNY OTHER INFO CODES

ALW'D

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(INFO 2 - UPPER PROBE - NO DECIMAL 761 FOR 76.1)

CODE 9999 - END OF DAY, CHG OBS, CHG EQUIPMENT (NO INFO ENTRIES - PRESS REC)

TP-6

TP-7

TP-8 BUCK-ZA (55H # 0016)

13

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# 05/1236 DATECHEE MATE WELLS CAST 45.33 1,6633 4555 45:73 1:4154-4500 1.5585 41-92 17491 4592 1.3920 46:00 17492-44.96 1.8185: 1,7794 45.13 44.49: 1.2979 -49 92 1:6461 10.76L 1.2827 0.242,7 4013 35.83 1:02:78 36.19 1.8402 ZZ:90\_ 1.590 73.0 1.803 THO SECTION 38-44 1.60% 1.4665 145A7 496 1316 45.15 15586 1,5056 -45.08 45.95 1450\_ 4071 - 3.572 455 -A3---14790 - 40:13 24 A 15567 35.63 1.3335 30.79 15192 74.62 END 58:101 1:415 30:15

TO SINDHER DESC (E) ( D. 123E. TO-13 (A) P IN PHICKER TP- A. TP-15 TP-16. TF-IT TP-18 75-19 TP-20 TP:21 TP-22 BUX TOLA SCALCOUS BLK-1A SSALLCOIS

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Buck1. met
Identification_Information:
         Ci tati on:
                   Citation_Information:
                             Originator: George F. Young, Inc.
                             Publication_Date: Unknown
Publication_Time: Unknown
Title: Buck Island Ranch Monitoring Well Benchmarks
                             Publication_Information:
                                       Publication_Place: Not published
                                       Publisher: None
          Description:
                   Abstract:
                              South Florida Water Management District
                             Buck Island Ranch Monitoring Well Benchmarks
                   Purpose:
                              To establish NAVD 88 and NGVD 29 elevations and
                             benchmarks at each of twenty two well sites.
         Time_Period_of_Content:
                   Time_Period_Information:
                             Range_of_Dates/Times:
                                       Beginning_Date: 20050217
                                       Endi ng_Date: 20050617
                   Currentness_Reference: Pending NGS Approval
          Status:
                   Progress: In work
                   Maintenance_and_Update_Frequency: Unknown
          Spatial_Domain:
                   Boundi ng_Coordi nates:
                             West_Boundi ng_Coordi nate: -081°13'03"
                             East_Boundi ng_Coordi nate: -080°12'06"
North_Boundi ng_Coordi nate: +27°08'41"
                             South_Bounding_Coordinate: +27°07'50"
          Keywords:
                   Theme:
                             Theme_Keyword_Thesaurus: None
                             Theme_Keyword: Record Survey Theme_Keyword: Well Site
                   PI ace:
                             Pl ace_Keyword_Thesaurus: None
                             Place_Keyword: S. F. W. M. D. Well L28WFUVM
Place_Keyword: Sec. 18, Twp. 48 S., Rge. 33 E.
Place_Keyword: Hendry County, Florida
         Access_Constraints: None
          Use_Constraints: None
          Point_of_Contact:
                   Contact_Information:
                             Contact_Person_Pri mary:
                                       Contact_Person: Howard Ehmke
                                       Contact_Organization: South Florida Water Management District
                              Contact_Address:
                                       Address_Type: mailing and physical address
Address: 3301 Gun Club Road
                                       City: West Palm Beach
                                       State_or_Province: Florida
                                       Postal_Code: 33406
                             Country: USA
Contact_Voi ce_Tel ephone: (561) 686-8800, Ext. 4636
Contact_Facsi mile_Tel ephone: (561) 681-6265
Contact_El ectroni c_Mail_Address: hehmke@sfwmd.gov
Hours_of_Servi ce: 8:00 am to 5:00 pm EST
Data_Qual i ty_Information:
         Attribute_Accuracy:
                   Attri bute_Accuracy_Report:
                              This survey was prepared using sub-meter GPS and DNA
                              3003 Leveling instruments. The horizontal location of the
                              and benchmark was performed using sub-meter GPS
                              The vertical data was collected using a Leica DNA 3003
                             Level
```

Page 1

Coordinates are based on the Florida State Plane

Coordinate System, East Zone, NAD 83/90.

Buck1. met

Elevations are based on NAVD 88

Logi cal \_Consi stency\_Report:

Horizontal data was established using Coastguard corrected sub-meter GPS Vertical data was established using control points H-437 and J-437.

Completeness\_Report:

Horizontal location taken at approximate center of well. Site Benchmark is a 3" bronze disk set in top of poured in place 48"x12" round concrete monument THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION
OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST
ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST O.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,873 FT WEST AND 212 FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS A 3 IN BRONZE SURVE DISK SET IN CONCRETE, 2 FT SOUTH OF THE FENCE, SET FLUSH WITH THE GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE 585756 FT. NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE

NONE

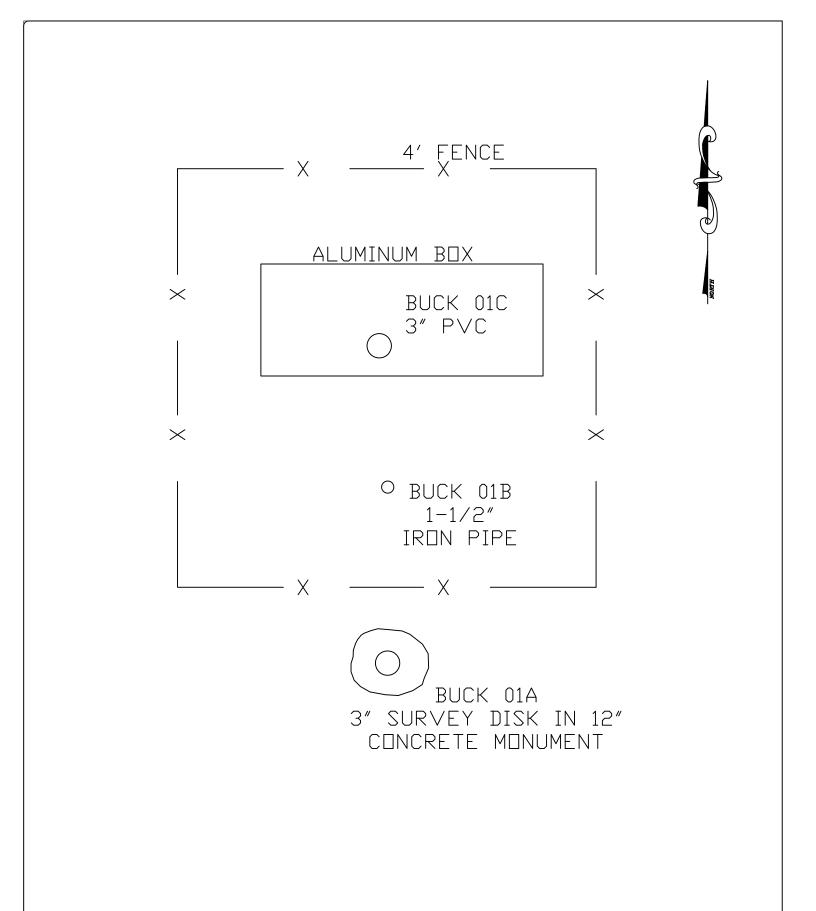
THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 27, TOWNSHIP 38 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH O. 59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,875 FT WEST AND 210 FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS 1.5 IN STEEL PIPE, FT INSIDE THE FENCED ENCLOSURE, SET 3 IN ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE 1019045 FT, E=585756 FT. Notable Land

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 27, TOWNSHIP 38 SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION OF THE INDIANAL THE INTERSECTION OF THE INTERSECTION OF THE INTERSECTION OF THE INTERSECTION OF T UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST O.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE

Buck1. met OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,875 FT WEST AND 208 FT SOUTH OF THE SOUTH END OF THE BRIDGE. THE MARK IS A 3 IN PVC MONITORING WELL PIPE INSIDE A STEEL BOX SURROUNDED BY A 4 FT WOODEN FENCE. THE MARK IS SET 4 FT ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS 1019047 FT, E=585755 FT. Notable Land marks: Lat. N270813 Long. W0811259 Posi ti onal \_Ăccuracy: Hori zontal Posi ti onal Accuracy: Horizontal\_Positional\_Accuracy\_Report:
The horizontal positions were established with sub-meter **GPS** Verti cal \_Posi ti onal \_Accuracy: Verti cal \_Posi ti onal \_Accuracy\_Report: Second Order, Class II The methodology was approved by Mr. Ronnie Taylor, State, Geodetic Advisor The NAVD 88 elevations established for this survey was determined by using the published values for benchmark H-437 and J-437. Li neage: Process\_Step: Process\_Description: Horizontal data was established using Coastguard corrected sub-meter GPS Vertical data was established using control points H-437 and J-437. Process\_Date: 20050617 Metadata\_Reference\_Information: Metadata\_Date: 20050617 Metadata\_Contact: Contact Information: Contact\_Person\_Pri mary: Contact\_Person: Catherine A. Pollak Contact\_Organization: George F. Young, Inc. Contact\_Position: Project Surveyor Contact\_Address: Address\_Type: mailing and physical address Address: 299 Dr. Martin Luther King, Jr. Street, North City: St. Petersburg State\_or\_Province: Florida Postal\_Code: 33701 Country: USA Contact\_Voi ce\_Telephone: (727) 822-4317 Contact\_Facsimile\_Telephone: (727) 822-2919 Contact\_Electronic\_Mail\_Address: pollak@georgefyoung.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: 19980601



TITLE

SKETCH OF BUCK 01 MONITORING WELL

# Hyatt Survey Services, Inc. Geographic Data Specialists

11007 8TH AVENUE EAST BRADENTON, FLORIDA 34212 PH. (941) 748-4693 FAX (941) 744-1643 LB No.: 7203

FILE NAME JOB NUMBER **REVISION** SCALE DRAWN BY DATE SHEET BUCK01.DWG 1 OF 1 12-0538 NOT TO SCALE 6/17/05



#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: HIGHLANDS	PROJECT: BUC	CK ISLAND RANCH	DESIGNATION: BUCK 01A	
SECTION 27	TOWNSHIP 38	SOUTH	RANGE 31 EAST	
GEOGRAPHIC INDEX OF QUAD				
Established by HYATT SURVEY S Recovered by	<u>ERVICES</u>	NAME OF QUADRA	ANGLE: BRIGHTON NW	
SURVEYOR R. HYATT DATE	<u>06 /16 /</u> 2005	FIELD BOOK 15	PAGE <u>1 - 45</u>	
HORIZONTAL DATUM: 1927 1	<mark>983</mark> Other_	(circle	e one) ZONE <mark>E</mark> or <b>W</b>	
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)	
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	4th (circle or	ne) <b>VERTICAL 1 2 3</b>	
STATE PLANE COORDINATES	X = 585756 FT	Y = 1019042	FT EL. = 8.0479 m	
LATITUDE: N270813		LONG	GITUDE: W0811259	
	DESC	RIPTION		

#### To Reach:

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 34, TOWNSHIP 38 SOUTH, RANGE 31 EAST.

TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,873 FT WEST AND 212 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS A 3 IN BRONZE SURVE DISK SET IN CONCRETE, 2 FT SOUTH OF THE FENCE, SET FLUSH WITH THE GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1019042 FT, E=585756 FT.

NOTE A MAGNET WAS IMBEDDED IN THE GROUND ON THE SOUTH SIDE OF THE MONUMENT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH



#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Rev. 4/01

COUNTY: HIGHLANDS	PROJECT: BUG	CK ISLAND RANCH	DESIGNATION: BUCK 01B		
SECTION 27	TOWNSHIP 38	SOUTH	RANGE	31 EAST	
GEOGRAPHIC INDEX OF QUAD					
Established by HYATT SURVEY S Recovered by	<u>ERVICES</u>	NAME OF QUADRA	NGLE:	BRIGHTON NW	
SURVEYOR R. HYATT DATE	<u>06 /16 / </u> 2005	FIELD BOOK 15	4	PAGE <u>1 - 45</u>	
HORIZONTAL DATUM: 1927 1	<mark>983</mark> Other_	(circle	e one)	ZONE <mark>E</mark> or <b>W</b>	
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)		
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	4th (circle or	ne) <b>VERT</b>	ICAL 1 2 3	
STATE PLANE COORDINATES	X = 585756 FT	Y = 1019045	FT	EL. = 8.0912 m	
LATITUDE: N270813		LONG	GITUDE: \	W0811259	
	DESC	RIPTION			

#### To Reach:

THE MARK IS ABOUT 15 MI SOUTHEAST OF LAKE PLACID, 12.5 MI NORTHWEST OF LAKEPORT IN SECTION 27, TOWNSHIP 38 SOUTH, RANGE 31 EAST.

TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,875 FT WEST AND 210 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

THE MARK IS LOCATED ON THE SOUTH SIDE OF A MONITORING WELL ENCLOSED BY A 4 FT WOODEN FENCE. THE MARK IS 1.5 IN STEEL PIPE, 1 FT INSIDE THE FENCED ENCLOSURE, SET 3 IN ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1019045 FT, E=585756 FT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH



#### SOUTH FLORIDA WATER MANAGEMENT DISTRICT

			Rev. 4/01					
COUNTY: HIGHLANDS	PROJECT: BUC	CK ISLAND RANCH	DESIGNATION: BUCK 01C					
SECTION 27	TOWNSHIP 38	SOUTH	RANGE 31 EAST					
GEOGRAPHIC INDEX OF QUAD								
Established by HYATT SURVEY S Recovered by	ERVICES	NAME OF QUADRANGLE: BRIGHTON NW						
SURVEYOR R. HYATT DATE	06 /16 / 2005	FIELD BOOK 154 PAGE 1 - 45						
HORIZONTAL DATUM: 1927 1	<mark>983</mark> Other_	(circle one) ZONE <b>E</b> or <b>W</b>						
VERTICAL DATUM: MSL 1929	1988 Other	(circle	e one)					
CONTROL ACCURACY: HORIZO	NTAL 1 2 3	4th (circle or	ne) <b>VERTICAL 1 2 3</b>					
STATE PLANE COORDINATES	X = 585755 FT	Y = 1019047	FT EL. = 8.9913 m					
LATITUDE: N270813		LONG	GITUDE: W0811259					
	DESC	RIPTION						
To Reach: THE MARK IS ABOUT 15 MI SOUTH SECTION 27, TOWNSHIP 38 SOUTH	I, RANGE 31 EAS	ST.						

TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 27 AND STATE ROAD 70, GO EAST ON STATE ROAD 70 FOR 7.16 MI TO JC DURRANCE ROAD (A DIRT ROAD) ON THE RIGHT, TURN RIGHT AND GO SOUTH FOR 4.51 MI TO THE END OF JC DURRANCE ROAD AND A TEE INTERSECTION WITH UNNAMED DIRT ROAD. TURN RIGHT, GO THROUGH A GATE AND HEAD WEST 0.5 MI TO THREE GATES. GO THROUGH THE CENTER GATE AND HEAD SOUTH 0.59 MI TO THE SOUTH SIDE OF A BRIDGE OVER A CANAL AND THE NORTH SIDE OF A LARGE FENCED PASTURE. THE MARK IS 4,875 FT WEST AND 208 FT SOUTH OF THE SOUTH END OF THE BRIDGE.

THE MARK IS A 3 IN PVC MONITORING WELL PIPE INSIDE A STEEL BOX SURROUNDED BY A 4 FT WOODEN FENCE. THE MARK IS SET 4 FT ABOVE THE SURROUNDING GROUND. THE NAD 1983 STATE PLANE COORDINATE POSITION OF THE MARK IS N=1019047 FT, E=585755 FT.

Notable Land marks: NONE

SKETCH: SEE ATTACHED SKETCH

#### The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AE6391 DESIGNATION - H 437
AE6391 PID - AE6391
AE6391 STATE/COUNTY- FL/HIGHLANDS
 AE6391 USGS QUAD - BRIGHTON NW (1983)
 AE6391
                                        *CURRENT SURVEY CONTROL
 AE6391
 AE6391
 AE6391* NAD 83(1986)- 27 08 14.
                                               (N)
                                                        081 12 06.
                                                                           (W)
                                                                                     SCALED
 AE6391* NAVD 88
                                       9.395
                                                                 30.82
                                                                           (feet)
                                                                                     ADJUSTED
                                               (meters)
 AE6391
          GEOID HEIGHT-
 AE6391
                                       -25.20 (meters)
                                                                                     GEOID03
 AE6391
           DYNAMIC HT -
                                        9.380 (meters)
                                                                  30.77
                                                                           (feet)
                                                                                     COMP
          MODELED GRAV-
                                  979,125.1
 AE6391
                                                                                     NAVD 88
                                                 (mgal)
 AE6391
 AE6391
          VERT ORDER - SECOND
                                          CLASS I
 AE6391
 AE6391. The horizontal coordinates were scaled from a topographic map and have
 AE6391.an estimated accuracy of +/- 6 seconds.
 AE6391. The orthometric height was determined by differential leveling
 AE6391.and adjusted by the National Geodetic Survey in March 1998.
 AE6391
 AE6391. The geoid height was determined by GEOID03.
 AE6391
 AE6391. The dynamic height is computed by dividing the NAVD 88 AE6391. geopotential number by the normal gravity value computed on the AE6391. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AE6391.degrees latitude (q = 980.6199 \text{ gals.}).
 AE6391
 AE6391. The modeled gravity was interpolated from observed gravity values.
 AE6391
                                                              Units Estimated Accuracy MT (+/- 180 meters Scaled)
 AE6391;
                                  North
                                                    East
 AE6391; SPC FL E
                               310,620.
                                                 180,010.
 AE6391
 AE6391
                                         SUPERSEDED SURVEY CONTROL
 AE6391
 AE6391.No superseded survey control is available for this station.
 AE6391
 AE6391_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML800016(NAD 83) AE6391_MARKER: DV = VERTICAL CONTROL DISK
 AE6391_SETTING: 38 = BRIDGE ABUTMENT
 AE6391_STAMPING: H 437 1995
 AE6391_MARK LOGO: NGS
 AE6391_MAGNETIC: N = NO MAGNETIC MATERIAL
 AE6391_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AE6391 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AE6391+SATELLITE: SATELLITE OBSERVATIONS - 1995
 AE6391
 AE6391
          HISTORY
                          - Date
                                        Condition
                                                             Report By
          HISTORY
 AE6391
                          - 1995
                                        MONUMENTED
                                                             FLDED
 AE6391
                                         STATION DESCRIPTION
 AE6391
 AE6391
 AE6391'DESCRIBED BY FL DEPT OF ENV PRO 1995 (LGB)
 AE6391'THE MARK IS ABOUT 15.0 MI (24.1 KM) SOUTHEAST OF LAKE PLACID, 12.5 MI
 AE6391'(20.1 KM) NORTHWEST OF LAKEPORT IN SECTION 27, TOWNSHIP 38 SOUTH, AE6391'RANGE 31 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY
 AE6391'27 AND STATE ROAD 70 SOUTH OF LAKE PLACID, GO EAST ON STATE ROAD 70
 AE6391'FOR 7.7 MI (12.4 KM) TO THE WEST END OF THE BRIDGE OVER CANAL C 41
AE6391'(HARNEY POND CANAL), TURN RIGHT AT THE WEST END OF BRIDGE, PASSING
AE6391'THROUGH THE GATE, GO SOUTH ON THE LEVEE ROAD FOR 1.05 MI (1.69 KM) TO
AE6391'A SHARP CURVE TO THE RIGHT, CONTINUE WEST ON THE LEVEE ROAD FOR 1.85
AE6391'MI (2.98 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTH ON THE LEVEE ROAD
 AE6391'FOR 2.1 MI (3.4 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTHEAST ON THE
 AE6391'LEVEE ROAD FOR 2.7 MI (4.3 KM) TO A BRIDGE ON THE LEFT AND THE MARK
 AE6391'SET FLUSH IN THE SOUTHWEST BRIDGE ABUTMENT. LOCATED 41.7 FT (12.7 M)
```

AE6391'NORTH OF THE APPROXIMATE CENTERLINE OF THE LEVEE ROAD, 18.9 FT (5.8 M) AE6391'NORTH OF A CARSONITE WITNESS POST, 8.4 FT (2.6 M) WEST OF THE AE6391'APPROXIMATE CENTERLINE OF THE BRIDGE AND 5.9 FT (1.8 M) SOUTH OF A AE6391'GATE. NOTE ALL GATES ON LEVEE ARE LOCKED, FOR KEY CONTACT CARL ZEISS, AE6391'SOUTH FLORIDA WATER MANAGEMENT DISTRICT, WEST PALM BEACH, FL. PHONE AE6391'NUMBER (407) 686-8800.

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

#### The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AE6392 DESIGNATION - J 437
         PID - AE6392
STATE/COUNTY- FL/HIGHLANDS
 AE6392
         PID
 AE6392
        USGS QUAD - BRIGHTON NW (1983)
 AE6392
 AE6392
                                 *CURRENT SURVEY CONTROL
 AE6392
 AE6392
                                              081 11 02.84354(W)
 AE6392* NAD 83(1999) - 27 08 13.27828(N)
                                                                       ADJUSTED
 AE6392* NAVD 88
                                                             (feet)
                               11.555 (meters)
                                                      37.91
                                                                      ADJUSTED
 AE6392
                           870,509.596 (meters)
 AE6392 X
                     _
                                                                       COMP
                                                                       COMP
 AE6392
                         -5,612,861.809 (meters)
 AE6392
                          2,891,728.917 (meters)
                                                                       COMP
 AE6392
        LAPLACE CORR-
                                -3.52
                                                                       DEFLEC99
                                        (seconds)
        ELLIP HEIGHT-
GEOID HEIGHT-
 AE6392
                                                           (05/31/01) GPS OBS
                                -13.67
                                        (meters)
                                -25.25
 AE6392
                                         (meters)
                                                                       GEOID03
 AE6392 DYNAMIC HT -
                                11.537 (meters)
                                                       37.85 (feet) COMP
 AE6392 MODELED GRAV-
                            979,122.9 (mgal)
                                                                       NAVD 88
 AE6392
 AE6392
         HORZ ORDER -
                        FIRST
        VERT ORDER -
 AE6392
                        SECOND
                                   CLASS I
 AE6392
         ELLP ORDER - FOURTH
                                   CLASS I
 AE6392
 AE6392. The horizontal coordinates were established by GPS observations
 AE6392.and adjusted by the National Geodetic Survey in May 2001.
 AE6392
 AE6392. The orthometric height was determined by differential leveling
 AE6392.and adjusted by the National Geodetic Survey in March 1998.
 AE6392
 AE6392. The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AE6392
 AE6392. The Laplace correction was computed from DEFLEC99 derived deflections.
 AE6392
 AE6392. The ellipsoidal height was determined by GPS observations
 AE6392.and is referenced to NAD 83.
 AE6392
 AE6392. The geoid height was determined by GEOID03.
 AE6392
AE6392. The dynamic height is computed by dividing the NAVD 88 AE6392. geopotential number by the normal gravity value computed on the AE6392. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AE6392.degrees latitude (g = 980.6199 \text{ gals.}).
 AE6392
 AE6392. The modeled gravity was interpolated from observed gravity values.
 AE6392
 AE6392;
                             North
                                           East
                                                    Units Scale Factor Converg.
                                        181,748.129 MT 0.99994529 -0 05 02.3
 AE6392;SPC FL E
                          310,599.174
 AE6392;UTM 17
                      - 3,001,625.181
                                         481,754.356
                                                       MT 0.99960411
                                                                         -0 05 02.3
 AE6392
 AE6392!
                     - Elev Factor x
                                         Scale Factor =
                                                           Combined Factor
 AE6392!SPC FL E
                         1.00000215 x
                                         0.99994529 =
                                                           0.99994744
                                                           0.99960626
 AE6392!UTM 17
                          1.00000215 x
                                          0.99960411 =
 AE6392
 AE6392
                                  SUPERSEDED SURVEY CONTROL
 AE6392
 AE6392
         NAD 83(1990) - 27 08 13.27723(N)
                                              081 11 02.84324(W) AD(
        ELLIP H (05/30/00) -13.70
NAVD 88 (05/30/00) 11.55
 AE6392
                                                                   GP (
                                       ( m )
 AE6392
                                                      37.9
                                                               (f) LEVELING
                                        (m)
 AE6392
 AE6392. Superseded values are not recommended for survey control.
 AE6392.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AE6392. See file dsdata.txt to determine how the superseded data were derived.
 AE6392
 AE6392_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8175401625(NAD 83)
 AE6392_MARKER: I = METAL ROD
 AE6392 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
```

```
AE6392 STAMPING: J 437 1995
AE6392 MARK LOGO: NGS
AE6392_PROJECTION: FLUSH
AE6392_MAGNETIC: N = NO MAGNETIC MATERIAL
AE6392_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AE6392 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AE6392+SATELLITE: SATELLITE OBSERVATIONS - July 13, 1999
AE6392_ROD/PIPE-DEPTH: 24.4 meters
AE6392
AE6392
           HISTORY
                            - Date
                                           Condition
                                                                   Report By
AE6392
           HISTORY
                            - 1995
                                           MONUMENTED
                                                                   FLDEP
                            - 19990713 GOOD
AE6392
                                                                   RΔH
          HISTORY
AE6392
                                             STATION DESCRIPTION
AE6392
AE6392
AE6392'DESCRIBED BY FL DEPT OF ENV PRO 1995 (LGB)
AE6392'THE MARK IS ABOUT 15.0 MI (24.1 KM) SOUTHEAST OF LAKE PLACID, 12.1 MI AE6392'(19.5 KM) NORTHWEST OF LAKEPORT IN SECTION 25, TOWNSHIP 38 SOUTH,
AE6392 RANGE 31 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. HIGHWAY
AE6392'27 AND STATE ROAD 70 SOUTH OF LAKE PLACID, GO EAST ON STATE ROAD 70
AE6392'FOR 7.7 MI (12.4 KM) TO THE WEST END OF THE BRIDGE OVER CANAL C 41 AE6392'(HARNEY POND CANAL), TURN RIGHT AT THE WEST END OF BRIDGE, PASSING
AE6392'THROUGH THE GATE, GO SOUTH ON THE LEVEE ROAD FOR 1.05 MI (1.69 KM) TO AE6392'A SHARP CURVE TO THE RIGHT, CONTINUE WEST ON THE LEVEE ROAD FOR 1.85 AE6392'MI (2.98 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTH ON THE LEVEE ROAD
AE6392'FOR 2.1 MI (3.4 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTHEAST ON THE
AE6392'LEVEE ROAD FOR 2.7 MI (4.3 KM) TO ANOTHER CURVE TO THE LEFT, CONTINUE
AE6392'EAST ON THE LEVEE ROAD FOR 1.1 MI (1.8 KM) TO A PAIR OF 5.0 FT (1.5 M)
AE6392'DIAMETER CULVERTS, A GATE, AND THE MARK JUST EAST OF THE GATE ON THE AE6392'RIGHT, A STAINLESS STEEL ROD DRIVEN TO THE DEPTH OF 80.0 FT (24.4 M)
AE6392'RECESSED 0.4 FT (12.2 CM) WITH A LOGO CAP FLUSH WITH THE GROUND. AE6392'LOCATED 118.0 FT (36.0 M) SOUTH OF THE TOP SCARP OF CANAL C 41, 90.0
AE6392'FT (27.4 M) NORTH OF A FENCE LINE, 6.0 FT (1.8 M) EAST OF THE SOUTH AE6392'GATE POST AND 2.5 FT (0.8 M) EAST OF A CARSONITE WITNESS POST. NOTE AE6392'ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP. NOTE ALL GATES
AE6392'ON LEVEE ARE LOCKED, FOR KEY CONTACT CARL ZEISS, SOUTH FLORIDA WATER
AE6392'MANAGEMENT DISTRICT, WEST PALM BEACH, FL. PHONE NUMBER (407)
AE6392'686-8800.
AE6392
AE6392
                                             STATION RECOVERY (1999)
AE6392
AE6392'RECOVERY NOTE BY BERRYMAN & HENIGAR 1999 (BH)
AE6392'RECOVERED AS DESCRIBED.
*** retrieval complete.
Elapsed Time = 00:00:00
```

#### The NGS Data Sheet

See file dsdata.txt for more information about the datasheet.

```
AE6393 DESIGNATION - K 437
        PID - AE6393
STATE/COUNTY- FL/HIGHLANDS
 AE6393
 AE6393
        USGS QUAD - BRIGHTON NW (1983)
 AE6393
 AE6393
                                  *CURRENT SURVEY CONTROL
 AE6393
 AE6393
 AE6393* NAD 83(1999)- 27 07 58.62491(N)
                                               081 10 13.53679(W)
                                                                        ADJUSTED
 AE6393* NAVD 88
                                                              (feet)
                                                       37.50
                                                                       ADJUSTED
                               11.431 (meters)
 AE6393
                           871,882.854 (meters)
 AE6393 X
                                                                        COMP
                                                                        COMP
 AE6393
                         -5,612,856.674 (meters)
 AE6393
                          2,891,327.461 (meters)
                                                                        COMP
 AE6393 LAPLACE CORR-
                                 -3.59 (seconds)
                                                                        DEFLEC99
        ELLIP HEIGHT-
GEOID HEIGHT-
 AE6393
                                 -13.84
                                                            (05/31/01) GPS OBS
                                         (meters)
                                 -25.29
 AE6393
                                         (meters)
                                                                        GEOID03
 AE6393 DYNAMIC HT -
                                 11.414 (meters)
                                                        37.45 (feet) COMP
 AE6393 MODELED GRAV-
                            979,121.2 (mgal)
                                                                        NAVD 88
 AE6393
 AE6393
         HORZ ORDER - FIRST
        VERT ORDER -
 AE6393
                        SECOND
                                    CLASS I
 AE6393
         ELLP ORDER - FOURTH
                                   CLASS I
 AE6393
 AE6393. The horizontal coordinates were established by GPS observations
 AE6393.and adjusted by the National Geodetic Survey in May 2001.
 AE6393
 AE6393. The orthometric height was determined by differential leveling
 AE6393.and adjusted by the National Geodetic Survey in March 1998.
 AE6393
 AE6393.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 AE6393
 AE6393. The Laplace correction was computed from DEFLEC99 derived deflections.
 AE6393
 AE6393. The ellipsoidal height was determined by GPS observations
 AE6393.and is referenced to NAD 83.
 AE6393
 AE6393. The geoid height was determined by GEOID03.
 AE6393
AE6393. The dynamic height is computed by dividing the NAVD 88 AE6393. geopotential number by the normal gravity value computed on the AE6393. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 AE6393.degrees latitude (g = 980.6199 \text{ gals.}).
 AE6393
 AE6393. The modeled gravity was interpolated from observed gravity values.
 AE6393
 AE6393;
                             North
                                            East
                                                     Units Scale Factor Converg.
                                         183,105.216 MT 0.99994470 -0 04 39.8
 AE6393;SPC FL E
                          310,146.263
 AE6393;UTM 17
                      - 3,001,172.424
                                         483,110.981
                                                        MT 0.99960352
                                                                          -00439.8
 AE6393
 AE6393!
                      - Elev Factor x
                                          Scale Factor =
                                                            Combined Factor
 AE6393!SPC FL E
                         1.00000217 x
                                          0.99994470 =
                                                            0.99994687
 AE6393!UTM 17
                                                            0.99960569
                          1.00000217 x
                                           0.99960352 =
 AE6393
 AE6393
                                   SUPERSEDED SURVEY CONTROL
 AE6393
AE6393 NAD 83(1990) - 27 07 58.62388(N)
AE6393 ELLIP H (05/30/00) -13.87 (m)
AE6393 NAVD 88 (05/30/00) 11.43 (m)
                                               081 10 13.53647(W) AD(
                                                                    GP (
                                        (m)
                                                       37.5
                                                                (f) LEVELING
 AE6393
 AE6393. Superseded values are not recommended for survey control.
 AE6393.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AE6393. See file dsdata.txt to determine how the superseded data were derived.
 AE6393
 AE6393_U.S. NATIONAL GRID SPATIAL ADDRESS: 17RML8311101172(NAD 83)
 AE6393_MARKER: DV = VERTICAL CONTROL DISK
 AE6393 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
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AE6393 STAMPING: K 437 1995
AE6393 MARK LOGO: NGS
AE6393_MAGNETIC: N = NO MAGNETIC MATERIAL
AE6393_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO AE6393+STABILITY: SURFACE MOTION
AE6393 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AE6393+SATELLITE: SATELLITE OBSERVATIONS - July 13, 1999
AE6393
AE6393
          HISTORY
                         - Date
                                        Condition
                                                              Report By
                         - 1995
AE6393 HISTORY
                                       MONUMENTED
                                                              FLDEP
                         - 19990713 GOOD
AE6393
         HISTORY
AE6393
AE6393
                                         STATION DESCRIPTION
AE6393
AE6393'DESCRIBED BY FL DEPT OF ENV PRO 1995 (LGB)
AE6393'THE MARK IS ABOUT 16.3 MI (26.2 KM) SOUTHEAST OF LAKE PLACID, 11.6 MI
AE6393'(18.7 KM) NORTH-NORTHWEST OF LAKEPORT IN SECTION 36, TOWNSHIP 38
AE6393'SOUTH, RANGE 31 EAST. TO REACH THE MARK FROM THE INTERSECTION OF U.S. AE6393'HIGHWAY 27 AND STATE ROAD 70 SOUTH OF LAKE PLACID, GO EAST ON STATE
AE6393'ROAD 70 FOR 7.7 MI (12.4 KM) TO THE WEST END OF THE BRIDGE OVER CANAL
AE6393'C 41 (HARNEY POND CANAL), TURN RIGHT AT THE WEST END OF THE BRIDGE,
AE6393'PASSING THROUGH LOCKED GATE, GO SOUTH ON THE LEVEE ROAD FOR 1.05 MI
AE6393'(1.69 KM) TO A SHARP CURVE TO THE RIGHT, CONTINUE WEST ON THE LEVEE AE6393'ROAD FOR 1.85 MI (2.98 KM) TO A CURVE TO THE LEFT, CONTINUE SOUTH ON
AE6393'THE LEVEE ROAD FOR 2.1 MI (3.4~{\rm KM}) TO A CURVE TO THE LEFT, CONTINUE AE6393'SOUTHEAST ON THE LEVEE ROAD FOR 2.7 MI (4.3~{\rm KM}) TO A CURVE TO THE
AE6393'LEFT, CONTINUE EAST ON THE LEVEE ROAD FOR 1.9 MI (3.1 KM) TO THE
AE6393'APPROXIMATE CENTER OF A CURVE TO THE RIGHT, CONTINUE SOUTHEAST ON THE AE6393'LEVEE ROAD FOR 0.15 MI (0.24 KM) TO THE MARK SET IN THE TOP OF A
AE6393'CONCRETE MONUMENT IN THE APPROXIMATE CENTER OF THEE LEVEE ROAD AND
AE6393'RECESSED 0.5 FT (15.2 CM) BELOW THE LEVEL OF THE GROUND. LOCATED 80.0 AE6393'FT (24.4 M) SOUTHWEST OF THE TOP SCARP OF C 41, 70.2 FT (21.4 M) AE6393'NORTHEAST OF A GROUP OF THREE PALM TREES AND 68.7 FT (20.9 M)
AE6393'NORTHEAST OF A CARSONITE WITNESS POST. NOTE ALL GATES ON LEVEE ARE
AE6393'LOCKED, FOR KEY CONTACT CARL ZEISS, SOUTH FLORIDA WATER MANAGEMENT
AE6393'DISTRICT, WEST PALM BEACH, FL. PHONE NUMBER (407) 686-8800.
AE6393
AE6393
                                         STATION RECOVERY (1999)
AE6393
AE6393'RECOVERY NOTE BY BERRYMAN & HENIGAR 1999 (BH)
AE6393'RECOVERED AS DESCRIBED.
*** retrieval complete.
Elapsed Time = 00:00:00
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### West Side Bench Runs

		Wes	t Side Bench F	Runs reward Run #1							Re	verse Run #2					Preliminary	Preliminary	
				Benchmark	Sum of "Plus"	Sum of "Minus"	Delta = Difference in						Sum of "Plus"	Sum of "Minus"	Delta = Difference in		Adjusted Elevation	Prorated Elevation	Benchmark
Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.5769	10.9719		9.3950	H-437				1.5290	9.5759		8.0469	Buck 1A					8.0469	8.0479	Buck 1A
1.2373	10.2816	1.9276	9.0443					1.6929	10.5401	0.7287	8.8472								
1.4202 1.9284	10.2451	1.4567 1.9629	8.8249 8.2822					1.1648 1.2641	9.8373 10.1098	1.8676 0.9916	8.6725 8.8457								
1.4947	10.2106	1.3868	8.8238					1.6112	10.1098	1.1040	9.0058								
1.4255	10.4332	1.3108	9.0077					1.2763	10.4593	1.4340	9.1830								
1.6000	10.3754	1.6578	8.7754					1.6381	10.7007	1.3967	9.0626								
1.4450	10.3749	1.4455	8.9299					1.3182	10.4256	1.5933	9.1074								
1.3653	10.2412	1.4990	8.8759					1.4297	10.3343	1.5210	8.9046								
1.3029	10.4064	1.1377	9.1035					1.2983	10.3796	1.2530	9.0813								
1.4358	10.4914	1.3508	9.0556					1.6185	10.5848	1.4133	8.9663								
1.4350 1.3662	10.5093	1.4171 1.4840	9.0743 9.0253					1.4891 1.5914	10.5131	1.5608 1.6455	9.0240 8.8676								
1.8000	10.3915	1.6633	8.7282					1.2818	10.4590 10.3154	1.4254	9.0336								
1.5585	10.6713	1.4154	9.1128					1.4516	10.2345	1.5325	8.7829								+
1.3980	10.6202	1.4491	9.2222		İ			1.5334	10.3955	1.3724	8.8621								+
1.8185	10.6895	1.7492	8.8710					1.4060	10.3779	1.4236	8.9719								
1.2979	10.2080	1.7794	8.9101					1.5885	10.5146	1.4518	8.9261								
1.2827	9.8445	1.6462	8.5618					1.4112	10.3117	1.6141	8.9005								
1.0878	10.0836	0.8487	8.9958					1.2995	10.3217	1.2895	9.0222								
1.5901	9.8335	1.8402	8.2434					1.5650	10.9147	0.9720	9.3497								
1.5609	9.5286	1.8658 1.4837	7.9677 8.0449	Buck 1A	32.4276	33.7777	-1.3501	1.6021	11.1659	1.3509	9.5638 9.3946	H-437	32.0607	30.713	1.3477	1.3489			
		1.4837	8.0449	BUCKTA	32.4276	33.7777	-1.3501			1.7713	9.3946	H-437	32.0607	30.713	1.3477	1.3489			
1.6026	9.6475		8.0449	Buck 1A				1.5308	9.5124		7.9816	Buck 2A					7.98255	7.9839	Buck 2A
1.4547	9.6357	1.4665	8.1810	24011 171				1.6312	9.8526	1,2910	8.2214	24011271					7.00200		24011271
1.5586	9.8827	1.3116	8.3241					1.4845	9.9331	1.4040	8.4486								
1.4750	9.8521	1.5056	8.3771					1.4619	10.0354	1.3596	8.5735								
1.4788	9.7537	1.5772	8.2749					1.5758	10.0207	1.5905	8.4449								
1.4061	9.6808	1.4790	8.2747					1.4685	9.6838	1.8054	8.2153								
1.3335	9.4576	1.5567	8.1241					1.5098	9.7072	1.4864	8.1974								
1.5206	9.4590	1.5192	7.9384	Description A	44 0000	44.0000	0.0004	1.4091	9.6185	1.4978	8.2094	Decel 44	40.0740	40.0000	0.0050	0.00405			
		1.4775	7.9815	Buck 2A	11.8299	11.8933	-0.0634			1.5716	8.0469	Buck 1A	12.0716	12.0063	0.0653	0.06435			+
1.4975	9.4790		7.9815	Buck 2A				1.2116	9.4564		8.2448	Buck 3B					8.2455	8.2470	Buck 3B
1.4772	9.5316	1.4246	8.0544	Duck ZA				1.4400	9.5453	1.3511	8.1053	Duck 3D					0.2400	0.2470	Duck 3D
1.5121	9.5761	1.4676	8.0640		İ			1.6740	9.6000	1.6193	7.9260								+
1.5604	9.7000	1.4365	8.1396					1.1349	9.4657	1.2692	8.3308								
		1.4558	8.2442	Buck 3B	6.0472	5.7845	0.2627			1.4841	7.9816	Buck 2A	5.4605	5.7237	-0.2632	-0.26295			
									-										-
1.4879	9.7321		8.2442	Buck 3B			1	1.6343	9.8822		8.2479	Buck 4A					8.248	8.2497	Buck 4A
1.4041	9.9134	1.2228	8.5093					1.5949	9.9508	1.5263	8.3559								
1.4722	9.8024	1.5832	8.3302					1.5594	9.9624	1.5478	8.4030								
1.4825	9.8099	1.4750	8.3274					1.2978	9.7127	1.5475	8.4149								igsquare
		1.5638	8.2461	Buck 4A	5.8467	5.8448	0.0019			1.4679	8.2448	Buck 3B	6.0864	6.0895	-0.0031	-0.0025			-
					1														
1.7678	10.0139		8.2461	Buck 4A				1.8997	10.1476		8.2479	Buck 4A							
1.4169	9.6490	1.7818	8.2321					1.9971	10.2401	1.9046	8.2430					•		-	
1.1706	9.6231	1.1965	8.4525		ļ			1.4298	9.6335	2.0364	8.2037								ļI
1.5580	9.6904	1.4907	8.1324		ļ			1.4292	9.6045	1.4582	8.1753				ļ				┼──┤
1.4653 1.4034	9.7145 9.6725	1.4412 1.4454	8.2492 8.2691		<del>                                     </del>			1.4951 1.4795	9.7084 9.7894	1.3912 1.3985	8.2133 8.3099		<b> </b>		<del>                                     </del>		<del>                                     </del>		+
1.4054	3.0723	1.3634	8.3091	Buck 5B	8.7820	8.7190	0.0630	1.4790	9.7094	1.4787	8.3107	Buck 5B	9.7304	9.6676	0.0628	0.0629	8.3109	8.3129	Buck 5B
		1.0004	0.0001	Duck 3D	0.7020	3.7130	0.0030			1.4707	0.5107	Duck 3D	3.1304	3.0070	0.0020	0.0023	0.5103	0.5123	Duck 3D
					İ														<u> </u>

						Sum of	Delta =						Sum of	Sum of	Delta =		Adjusted	Prorated	
				Benchmark	Sum of "Plus"	"Minus"	Difference in						"Plus"	"Minus"	Difference in		Elevation	Elevation	Benchmark
Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.3852 1.5208	9.6943 9.7372	1.4779	8.3091 8.2164	Buck 5B				1.5646 1.4111	9.6835 9.7320	1.3626	8.1189 8.3209	Buck 6A			-		8.1187	8.1209	Buck 6A
1.5257	9.6598	1.6031	8.1341					1.3968	9.6907	1.4381	8.2939								
1.5919	9.6750	1.5767	8.0831					1.4174	9.7126	1.3955	8.2952								
		1.5585	8.1165	Buck 6A	6.0236	6.2162	-0.1926			1.4019	8.3107	Buck 5B	5.7899	5.5981	0.1918	0.1922			
								4 5007	0.7040		0.4.405	Desert 04					0.44455	0.4440	Described A
1.6317	9.7482		8.1165	Buck 6A				1.5887 1.3058	9.7312 9.5511	1.4859	8.1425 8.2453	Buck 8A					8.14155	8.1440	Buck 8A
1.4351	9.6364	1.5469	8.2013	Duck on				1.6044	9.7062	1.4493	8.1018								
1.4827	9.6109	1.5082	8.1282					1.3667	9.6462	1.4267	8.2795								
1.4376	9.5918	1.4567	8.1542					1.4273	9.7208	1.3527	8.2935								
		1.4532	8.1386	Buck 8A	5.9871	5.9650	0.0221	1.4462	9.6843	1.4827	8.2381	D 1.04	0.7004	0.7007	0.0000	2 22225			
										1.5654	8.1189	Buck 6A	8.7391	8.7627	-0.0236	-0.02285			
1.3758	9.5144		8.1386	Buck 8A				1.4994	9.6103		8.1109	Buck 9B					8.10865	8.1114	Buck 9B
1.5503	9.5724	1.4923	8.0221	- Duoit ort				1.5640	9.6830	1.4913	8.1190	- Duoix OD					0.10000	<b>G</b> 11111	<u> </u>
1.0713	9.6368	1.0069	8.5655					1.4371	9.6004	1.5197	8.1633								
1.4559	9.6916	1.4011	8.2357					1.6971	9.6475	1.6500	7.9504								
1.3825 1.4845	9.5313	1.5428 1.4857	8.1488 8.0456					0.9355 1.2466	9.5707 9.3390	1.0123 1.4783	8.6352 8.0924		-						
1.6291	9.7701	1.3891	8.1410					1.2400	9.3390	1.1965	8.1425	Buck 8A	8.3797	8.3481	0.0316	0.0329			
1.5410	9.6333	1.6778	8.0923							111000	0.1120	Duoi: Ort	0.0101	0.0101	0.0010	0.0020			
		1.5289	8.1044	Buck 9B	11.4904	11.5246	-0.0342												
4 5075	0.0440		0.4044	D I. OD				0.0000	40.0000		7.0407	Description					7.0404	7.0400	Description
1.5075 1.3061	9.6119 9.5092	1.4088	8.1044 8.2031	Buck 9B				2.0806 1.3675	10.0293 9.5893	1.8075	7.9487 8.2218	Buck 10A					7.9461	7.9490	Buck 10A
1.6681	9.4778	1.6995	7.8097					1.5019	9.5761	1.5151	8.0742								
1.6949	9.5309	1.6418	7.8360					1.3489	9.5642	1.3608	8.2153		1						
		1.5894	7.9415	Buck 10A	6.1766	6.3395	-0.1629			1.4533	8.1109	Buck 9B	6.2989	6.1367	0.1622	0.16255			
1.5843	9.5258		7.9415	Duck 104				1.3549 1.3880	9.3894 9.4430	1.3344	8.0345 8.0550	Buck 11B	-				8.03075	8.0340	Buck 11B
1.5843	9.5258	1.4014	8.1244	Buck 10A				1.4131	9.4430	1.3344	8.0550								
1.4155	9.4682	1.5257	8.0527					1.5197	9.6189	1.4218	8.0992								
1.3800	9.5978	1.2504	8.2178					1.4410	9.5470	1.5129	8.1060								
1.4729	9.4851	1.5856	8.0122					1.4633	9.5983	1.4120	8.1350								
1.1798	9.2667	1.3982	8.0869					1.4779	9.6110	1.4652	8.1331								
		1.2417	8.0250	Buck 11B	8.4865	8.4030	0.0835	1.4363	9.4476	1.5997 1.4989	8.0113 7.9487	Buck 10A	11.4942	11.58	-0.0858	-0.08465			
										1.4303	7.9407	BUCK TUA	11.4342	11.56	-0.0636	-0.06463			
1.5778	9.6028		8.0250	Buck 11B				1.5857	10.9807		9.3950	H-437	1				9.3913	9.3950	H-437
1.6708	10.3053	0.9683	8.6345					1.1452	10.3988	1.7271	9.2536								
1.4559	10.1500	1.6112	8.6941					1.2592	10.1930	1.4650	8.9338								
1.2135	10.0147	1.3488	8.8012					1.5455	10.3269	1.4116	8.7814				1				
1.3837	10.2113	1.1871 1.4499	8.8276 8.7614		-			1.4370 1.7494	10.1415	1.6224 1.7372	8.7045 8.4043		-					-	<del> </del>
1.2700	10.0314	1.4499	8.7614					1.7494	9.9914	1.6060	8.4043				1				<b>†</b>
1.2350	10.0850	1.2604	8.8500	İ	1			1.3080	9.7107	1.5887	8.4027		1			İ			Ì
1.7861	10.3916	1.4795	8.6055					1.5859	9.6785	1.6181	8.0926								
1.5440	10.3077	1.6279	8.7637					1.3894	9.5304	1.5375	8.1410								
1.4888	10.1134	1.6831	8.6246							1.4959	8.0345	Buck 11B	14.449	15.8095	-1.3605	-1.36055			
1.4763 2.0240	10.2948	1.2949 1.6732	8.8185 8.6216		<del>                                     </del>				-	<b> </b>	<del>                                     </del>		<b>-</b>		<del> </del>				<del> </del>
1.6362	11.0869	1.1949	9.4507								<del>                                     </del>								
		1.7013	9.3856	H-437	21.1417	19.7811	1.3606												
1.6157	11.0107	4.0405	9.3950	H-437	ļ			1.4494	9.7318	1.010:	8.2824	Buck 7B			ļ		8.28275	8.2828	Buck 7B
0.9892	10.1507 9.8518	1.8492 1.4844	9.1615 8.6663					1.2762 1.5941	9.7976 10.1972	1.2104 1.1945	8.5214 8.6031		<del>                                     </del>						-
1.1855 1.2020	9.8518	1.4844	8.5216					1.8115	10.1972	1.1945	9.1777		1						1
1.2020	5.7200	1.4412	8.2824	Buck 7B	4.9924	6.1050	-1.1126	1.0110	10.0002	1.5949	9.3943	H-437	6.1312	5.0193	1.1119	1.11225			
			0.202			300	20				0.00.0		JJIE	3.3100					1

		Fac	t Side Bench F	Piine					<del></del>													
		Las		preward Run #1		l	Reverse Run #2											Preliminary Preliminary				
Plus	н	Minus	Elevation	Benchmark Description	Sum of "Plus" Column	Sum of "Minus" Column	Delta = Difference in Elevation	Plus	н	Minus	Elevation	Description	Sum of "Plus" Column	Sum of "Minus" Column	Delta = Difference in Elevation	Mean Delta	Adjusted Elevation (meters)	Prorated Elevation Adjustment	Benchmark Description			
0.9432	12.4982		11.5550	J-437				1.9986	9.8717		7.8731	Buck 20A										
1.3173	11.0350	2.7805	9.7177					1.5150	9.3642	2.0225	7.8492											
1.2316 2.3465	9.8580	2.4086 1.2323	8.6264 8.6257		-			2.9798 1.4440	11.6494 9.8614	0.6946 3.2320	8.6696 8.4174											
1.7698	10.3788	2.3632	8.6090					2.8779	12.3977	0.3416	9.5198											
1.3100	9.2574	2.4314	7.9474					1.6664	13.4310	0.6331	11.7646											
		1.3872	7.8702	Buck 20A	8.9184	12.6032	-3.6848			1.8767	11.5543	J-437	12.4817	8.8005	3.6812	3.683	11.55985	11.5550	J-437			
1.9430	9.8132		7.8702	Buck 20A	-			1,4105	9.4864		8.0759	Buck 12B	-									
1.8603	9.4222	2.2513	7.5619	BUCK ZUA				2.0659	9.7420	1.8103	7.6761	BUCK 12B										
1.5142	9.4850	1.4514	7.9708					1.4043	9.7940	1.3523	8.3897											
1.4106	9.5257	1.3699	8.1151					1.2964	9.8695	1.2209	8.5731											
1.6551	9.7508	1.4300	8.0957					1.3240	9.8208	1.3727	8.4968											
1.3601	9.5419 9.5751	1.5690	8.1818 8.1659	-		-		1.3201	9.8779 9.9123	1.2630 1.4443	8.5578 8.4336				<del>                                     </del>				1			
1.4092 1.3745	9.5751	1.3760 1.4659	8.1659 8.1092					1.4787 1.4935	9.9123	1.4443	8.4336		1		<del> </del>				1			
1.01-10	3.4037	1.4120	8.0717	Buck 12B	12.5270	12.3255	0.2015	1.3980	9.7105	1.5206	8.3125								1			
								1.0214	9.4757	1.2562	8.4543											
										1.6026	7.8731	Buck 20A	14.2128	14.4156	-0.2028	-0.20215	7.87685	7.8725	Buck 20A			
1.5000	9.5717		8.0717	Buck 12B				1.5960	0.4200		7.8349	Buck 13A										
1.6934	9.4443	1.8208	7.7509	BUCK 12B				1.3913	9.4309 9.3609	1.4613	7.9696	BUCK 13A										
1.5228	9.5503	1.4168	8.0275					1.5033	9.4892	1.3750	7.9859											
1.4841	9.4715	1.5629	7.9874					1.4601	9.5350	1.4143	8.0749											
		1.6424	7.8291	Buck 13A	6.2003	6.4429	-0.2426			1.4591	8.0759	Buck 12B	5.9507	5.7097	0.241	0.2418	8.079	8.0754	Buck 12B			
1.7948	9.6239		7.8291	Buck 13A				1.5509	9,4585		7.9076	Buck 14B										
1.4983	9.4595	1.6627	7.9612	BUCK ISA				1.9861	9.6285	1.8161	7.6424	BUCK 14B										
1.4000	0.4000	1.5574	7.9021	Buck 14B	3.2931	3.2201	0.0730	1.5001	0.0200	1.7936	7.8349	Buck 13A	3.537	3.6097	-0.0727	-0.07285	7.8372	7.8339	Buck 13A			
1.5392	9.4413	4.0007	7.9021	Buck 14B				1.5528	9.4298	4 4004	7.8770	Buck 15A										
1.6278	9.4424	1.6267 1.5717	7.8146 7.8707	Buck 15A	3.1670	3.1984	-0.0314	1.4583	9.4860	1.4021 1.5784	8.0277 7.9076	Buck 14B	3.0111	2,9805	0.0306	0.031	7.91005	7.9069	Buck 14B			
		1.57 17	7.8707	BUCK ISA	3.1070	3.1904	-0.0314			1.3704	7.9070	BUCK 14B	3.0111	2.9603	0.0300	0.031	7.91003	7.9009	BUCK 14B			
1.5848	9.4555		7.8707	Buck 15A				1.4814	9.4556		7.9742	Buck 16B										
0.8872	9.4610	0.8817	8.5738					1.7663	9.7838	1.4381	8.0175											
1.4545	9.4376	1.4779 1.4707	7.9831 7.9669	Buck 16B	3.9265	3.8303	0.0962	1.4105 1.4276	9.3790 9.4175	1.8153 1.3891	7.9685 7.9899											
		1.4707	7.9009	DUCK 10D	3.9205	3.6303	0.0962	1.4276	9.4175	1.5405	7.8770	Buck 15A	6.0858	6.183	-0.0972	-0.0967	7.87905	7.8761	Buck 15A			
									<b>†</b>	1.0400	7.0770	Buok 10A	0.0000	3.103	0.0072	0.0007	7.07000	1.0101	Duck 10A			
									<u> </u>													
1.4462	9.4131		7.9669	Buck 16B				1.6125	9.4649		7.8524	Buck 17A										
1.6787	9.4573	1.6345	7.7786	D l. 474	0.4040	0.0450	0.4040	1.3993	9.4322	1.4320	8.0329	Description	2.0412	0.00	0.4040	0.4044	7.07575	7.0704	Durch 465			
	-	1.6114	7.8459	Buck 17A	3.1249	3.2459	-0.1210		<del>                                     </del>	1.4580	7.9742	Buck 16B	3.0118	2.89	0.1218	0.1214	7.97575	7.9731	Buck 16B			
						-			1		-		1		<b>+</b>							
1.6085	9.4544		7.8459	Buck 17A				1.5574	9.5152		7.9578	Buck 18B			1				İ			
1.5033	9.5050	1.4527	8.0017					1.4904	9.4713	1.5343	7.9809											
		1.5548	7.9502	Buck 18B	3.1118	3.0075	0.1043			1.6189	7.8524	Buck 17A	3.0478	3.1532	-0.1054	-0.10485	7.85435	7.8518	Buck 17A			
			ļ		ļ				1		<u> </u>		<b> </b>						ļ			
1.4811	9.4313		7.9502	Buck 18B	<del> </del>	-		1.6693	9.6490	<b> </b>	7.9797	Buck 19A	<del>                                     </del>		<del>                                     </del>				<del> </del>			
1.8287	9.4313	1.2899	8.1414	DUCK TOD		-		1.1914	9.4936	1.3468	8.3022	Duck 13A	1		<b>+</b>							
1.5083	9.6509	1.8275	8.1426						0000	1.5358	7.9578	Buck 18B	2.8607	2.8826	-0.0219	-0.02055	7.9592	7.9569	Buck 18B			
		1.6815	7.9694	Buck 19A	4.8181	4.7989	0.0192															
							ı — —					1	1						1			

						Sum of	Delta =						Sum of	Sum of	Delta =		Adjusted	Prorated	
				Benchmark	Sum of "Plus"	"Minus"	Difference in						"Plus"	"Minus"	Difference in		Elevation	Elevation	Benchmark
Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Plus	HI	Minus	Elevation	Description	Column	Column	Elevation	Mean Delta	(meters)	Adjustment	Description
1.6394	9.6088		7.9694	Buck 19A				1.9151	9.8872		7.9721	Buck 22B							
1.4109	9.6314	1.3883	8.2205					1.9112	9.9174	1.8810	8.0062								
1.3867	9.5068	1.5113	8.1201					1.4913	9.8750	1.5337	8.3837								
1.5512	9.6179	1.4401	8.0667					1.3551	9.8051	1.4250	8.4500								
1.8902	9.9212	1.5869	8.0310					1.5823	9.8941	1.4933	8.3118								
1.6636	9.7215	1.8633	8.0579					1.3200	9.6218	1.5923	8.3018								
		1.7591	7.9624	Buck 22B	9.5420	9.5490	-0.0070			1.6421	7.9797	Buck 19A	9.575	9.5674	0.0076	0.0073	7.97975	7.9776	Buck 19A
1.8973	9.8597		7.9624	Buck 22B				2.0585	9.8161		7.7576	Buck 21A							
1.5705	9.7389	1.6913	8.1684					1.4509	9.6525	1.6145	8.2016								
1.4919	9.4512	1.7796	7.9593					1.6103	9.6259	1.6369	8.0156								
1.4377	9.5509	1.3380	8.1132					1.4082	9.5472	1.4869	8.1390								
1.7685	9.7568	1.5626	7.9883					1.5949	9.6252	1.5169	8.0303								
1.1950	9.4128	1.5390	8.2178					1.4346	9.7306	1.3292	8.2960								
		1.6649	7.7479	Buck 21A	9.3609	9.5754	-0.2145	1.0665	9.4916	1.3055	8.4251								
								1.4202	9.3873	1.5245	7.9671								
										1.4152	7.9721	Buck 22B	12.0441	11.8296	0.2145	0.2145	7.97245	7.9707	Buck 22B
1.6015	9.3494		7.7479	Buck 21A				1.2360	12.7910		11.5550	J-437					11.555		
1.3305	9.3566	1.3233	8.0261					1.1291	12.5386	1.3815	11.4095								
1.7334	9.6698	1.4202	7.9364					1.2447	12.2862	1.4971	11.0415								
1.7039	9.6545	1.7192	7.9506					1.6178	12.4240	1.4800	10.8062								
1.6311	9.5663	1.7193	7.9352					1.2294	12.8978	0.7556	11.6684								
1.5721	9.7729	1.3655	8.2008					1.4177	13.0188	1.2967	11.6011								ļ
1.5992	9.7704	1.6017	8.1712					1.5680	12.8936	1.6932	11.3256								ļ
1.6002	9.8496	1.5210	8.2494					0.6027	11.2540	2.2423	10.6513								
1.6236	9.7572	1.7160	8.1336					1.3210	10.3158	2.2592	8.9948								
2.5383	10.8480	1.4475	8.3097					1.3232	10.4815	1.1575	9.1583								ļ
1.1523	11.1014	0.8989	9.9491					0.9842	9.3059	2.1598	8.3217								
1.1276	9.6786	2.5504	8.5510					1.4235	9.3712	1.3582	7.9477								
2.7434	11.3156	1.1064	8.5722					1.7020	9.3506	1.7226	7.6486								ļ
2.2914	13.0662	0.5408	10.7748					1.6132	9.5637	1.4001	7.9505								
		1.5216	11.5446	J-437	24.2485	20.4518	3.7967			1.8061	7.7576	Buck 21A	18.4125	22.2099	-3.7974	-3.79705	7.75795	7.7569	Buck 21A

		Subo	rdinate Bench	Runs													
					•												
Plus	н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description	Plus	н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description
1.6484	9.4823		7.8339	Buck 13A					1.5924	9,4993		7.9069	Buck 14B		<del> </del>		
		0.6309	8.8514	Buck 13C	1.0175						0.6432	8.8561	Buck 14C	0.9492			
0.6310	9.4824	1.6486	8.8514 7.8338	Buck 13C Buck 13A	-1.0176	1.0176	8.8515	Buck 13C	0.6432	9.4993	1.5924	8.8561 7.9069	Buck 14C Buck 14B	-0.9492	0.9492	8.8561	Buck 14C
		1.0400	7.0330	DUCK ISA	-1.0176	1.0176	0.0515	BUCK 13C			1.5924	7.9009	DUCK 14D	-0.9492	0.9492	0.0301	Buck 14C
1.4950	9.3711		7.8761	Buck 15A					1.5014	9.3775		7.8761	Buck 15A				
		1.4543	7.9168	Buck 15B	0.0407						0.6178	8.7597	Buck 15C	0.8836	-		
1.4541	9.3709		7.9168	Buck 15B					0.6176	9.3773		8.7597	Buck 15C				
		1.4950	7.8759	Buck 15A	-0.0409	0.0408	7.9169	Buck 15B			1.5015	7.8758	Buck 15A	-0.8839	0.88375	8.7598	Buck 15C
1.4968	9.4699		7.9731	Buck 16B					1.6031	9.5600		7.9569	Buck 18B		-		
1.4900	9.4099	0.6344	8.8355	Buck 16C	0.8624				1.0031	9.5600	0.6598	8.9002	Buck 18C	0.9433			
0.6344	9.4699		8.8355	Buck 16C					0.6585	9.5587		8.9002	Buck 18C				
	1	1.4969	7.9730	Buck 16B	-0.8625	0.8625	8.8355	Buck 16C	+		1.6019	7.9568	Buck 18B	-0.9434	0.94335	8.9002	Buck 18C
											1				1		
1.5298	9.3816		7.8518	Buck 17A					1.5299	9.4060		7.8761	Buck 17A				
		1.4450	7.9366	Buck 17B	0.0848						0.5377	8.8683	Buck 17C	0.9922			
1.4461	0.2027		7.9366	Buck 17B					0.5378	9.4061		0.0000	Buck 17C				
1.4401	9.3827	1.5300	7.9300	Buck 17A	-0.0839	0.0844	7.9362	Buck 17B	0.5376	9.4061	1.5296	8.8683 7.8765	Buck 17A	-0.9918	0.992	8.8681	Buck 17C
		1.0000	7.0027	- Duoit III	0.0000	0.0011	7.0002	Duon III			110200	1.0100		0.0010	0.002	0.000.	
1.4539	9.5293	0.5007	8.0754	Buck 12B	0.0550				1.4625	9.4332	0.4004	7.9707	Buck 22B	0.0704			
		0.5987	8.9306	Buck 12C	0.8552						0.4901	8.9431	Buck 22C	0.9724			
0.6001	9.5307		8.9306	Buck 12C					0.4924	9.4355		8.9431	Buck 22C				
		1.4559	8.0748	Buck 12B	-0.8558	0.8555	8.9309	Buck 12C			1.4650	7.9705	Buck 22B	-0.9726	0.9725	8.9432	Buck 22C
1.5261	9.5037		7.9776	Buck 19A					1.5237	9.5013		7.9776	Buck 19A				
1.0201	3.3037	1.3454	8.1583	Buck 19B	0.1807				1.5257	9.5015	0.532	8.9693	Buck 19C	0.9917			
1.3431	9.5014	4 5000	8.1583	Buck 19B	0.4005	0.4000	0.4500	D 1 10D	0.5324	9.5017	4.5004	8.9693	Buck 19C	0.004	0.00405		D 1 400
		1.5236	7.9778	Buck 19A	-0.1805	0.1806	8.1582	Buck 19B			1.5234	7.9783	Buck 19A	-0.991	0.99135	8.9689	Buck 19C
1.6168	9.3737		7.7569	Buck 21A					1.6190	9.3759		7.7569	Buck 21A				
		1.5146	7.8591	Buck 21B	0.1022						0.5827	8.7932	Buck 21C	1.0363			
1.5183	9.3774		7.8591	Buck 21B					0.5806	9.3738	1	8.7932	Buck 21C		1		
		1.6206	7.7568	Buck 21A	-0.1023	0.1023	7.8591	Buck 21B			1.6166	7.7572	Buck 21A	-1.036	1.03615	8.7930	Buck 21C
													1				
1.4749	9.3474	-	7.8725	Buck 20A	<del>                                     </del>				 1.4775	9.3500	1	7.8725	Buck 20A		<del>                                     </del>		<b> </b>
1.7/48	3.0474	1.4620	7.8854	Buck 20B	0.0129				1.4110	9.3300	0.4893	8.8607	Buck 20C	0.9882			
1.4647	9.3501		7.8854	Buck 20B	0.01.00	0.0:	70000		0.4859	9.3466	4 4	8.8607	Buck 20C	0.5555	0.05555		
	-	1.4775	7.8726	Buck 20A	-0.0128	0.0129	7.8853	Buck 20B	 +		1.4744	7.8722	Buck 20A	-0.9885	0.98835	8.8608	Buck 20C
	<u> </u>	<u> </u>							†				-				
1.5426	9.5905		8.0479	Buck 1A					1.5400	9.5879		8.0479	Buck 1A				
		1.4994	8.0911	Buck 1B	0.0432						0.5966	8.9913	Buck 1C	0.9434			
1.4973	9.5884	-	8.0911	Buck 1B	<del>                                     </del>				 0.6008	9.5921	1	8.9913	Buck 1C		<del>                                     </del>		<b> </b>
1.7813	3.0004	1.5408	8.0476	Buck 1A	-0.0435	0.0433	8.0912	Buck 1B	0.0000	3.3321	1.5442	8.0479	Buck 1A	-0.9434	0.9434	8.9913	Buck 1C
	0.5555		7.0000							0.55		7.0					
1.5526	9.5365	1.4119	7.9839 8.1246	Buck 2A Buck 2B	0.1407				 1.5520	9.5359	0.5536	7.9839 8.9823	Buck 2A Buck 2C	0.9984	<del>                                     </del>		<b> </b>
	<u> </u>	1.7113	0.1240	DUCK ZD	0.1407				†		0.0000	0.3023	Duck 20	0.3304			
1.4106	9.5352		8.1246	Buck 2B					0.5974	9.5797		8.9823	Buck 2C				
		1.5495	7.9857	Buck 2A	-0.1389	0.1398	8.1237	Buck 2B	1		1.5945	7.9852	Buck 2A	-0.9971	0.99775	8.9817	Buck 2C
		<u> </u>			1		l			l	1	l	1	]			

		Subo	rdinate Bench	Runs													
Plus	Н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description	Plus	н	Minus	Elevation	Benchmark Description	Delta = Difference in Elevation	Mean Delta	Preliminary Adjusted Elevation	Benchmark Description
1.4742	9.7212	0.0040	8.2470	Buck 3B	0.7000				1.4047	9.7176	0.5447	8.3129	Buck 5B	0.00			
		0.6842	9.0370	Buck 3C	0.7900						0.5447	9.1729	Buck 5C	0.86			
0.6855	9.7225		9.0370	Buck 3C					0.4953	9.6682		9.1729	Buck 5C				
0.0000	0.1220	1.4740	8.2485	Buck 3B	-0.7885	0.7893	9.0363	Buck 3C	0.4000	0.0002	1.3549	8.3133	Buck 5B	-0.8596	0.8598	9.1727	Buck 5C
							0.000					3.3.33		3.3333			
1.5430	9.7927	4 4007	8.2497	Buck 4A	0.0740				1.5457	9.7954	0.5750	8.2497	Buck 4A	0.0704			
		1.4687	8.3240	Buck 4B	0.0743						0.5753	9.2201	Buck 4C	0.9704			
1.4713	9.7953		8.3240	Buck 4B					0.5754	9.7955		9.2201	Buck 4C				
1.47 10	0.7000	1.5458	8.2495	Buck 4A	-0.0745	0.0744	8.3241	Buck 4B	0.0704	5.7555	1.5456	8.2499	Buck 4A	-0.9702	0.9703	9.2200	Buck 4C
									<b></b>								
1.5171	9.6380	1.3944	8.1209	Buck 6A Buck 6B	0.1227				1.5095	9.6304	0.4809	8.1209	Buck 6A Buck 6C	1.0286			
		1.3944	8.2436	BUCK 6B	0.1227						0.4809	9.1495	Buck 6C	1.0286			
1.3862	9.6298		8.2436	Buck 6B					0.4782	9.6277		9.1495	Buck 6C				
1.0002		1.5091	8.1207	Buck 6A	-0.1229	0.1228	8.2437	Buck 6B	*****		1.5062	8.1215	Buck 6A	-1.028	1.0283	9.1492	Buck 6C
1.4219	0.4550		8.0340	Buck 11B					1.4762	9.5876	1	8.1114	Buck 0B				
1.4219	9.4559	0.5336	8.0340	Buck 11B	0.8883				1.4762	9.5876	0.6243	8.1114	Buck 9B Buck 9C	0.8519			
		0.5550	0.3223	DUCK 110	0.0003						0.0243	0.3033	Buck 30	0.0319			
0.5364	9.4587		8.9223	Buck 11C					0.6285	9.5918		8.9633	Buck 9C				
		1.4240	8.0347	Buck 11B	-0.8876	0.8880	8.9219	Buck 11C			1.4802	8.1116	Buck 9B	-0.8517	0.8518	8.9632	Buck 9C
1.7537	9.7027		7.9490	Buck 10A			-		1.7556	9.7046	+	7.9490	Buck 10A				
1.7557	9.1021	1.6537	8.0490	Buck 10B	0.1000				1.7550	9.7040	0.8109	8.8937	Buck 10A	0.9447			
		1.0007	0.0.00		0.1000						0.0100	0.0001	24011100	0.0111			
1.6553	9.7043		8.0490	Buck 10B					0.808	9.7017		8.8937	Buck 10C				
		1.7548	7.9495	Buck 10A	-0.0995	0.0998	8.0487	Buck 10B			1.7521	7.9496	Buck 10A	-0.9441	0.9444	8.8934	Buck 10C
1 5710	0.7150		8.1440	Duels 0 A					1.5690	0.7420	+	8.1440	Buels 0 A				
1.5719	9.7159	1.4423	8.1440 8.2736	Buck 8A Buck 8B	0.1296				1.5690	9.7130	0.6185	9.0945	Buck 8A Buck 8C	0.9505			
		1.4423	0.2730	Duck on	0.1230					1	0.0103	3.0343	Duck 00	0.3303			
1.4388	9.7124		8.2736	Buck 8B					0.618	9.7125	1	9.0945	Buck 8C				
		1.5691	8.1433	Buck 8A	-0.1303	0.1300	8.2739	Buck 8B			1.5686	8.1439	Buck 8A	-0.9506	0.95055	9.0945	Buck 8C
•																	
1 5004	9.7852		0.0000	Buok 7P					<del>                                     </del>	1	+						
1.5024	9.7852	0.6280	8.2828 9.1572	Buck 7B Buck 7C	0.8744				+ + -	+	+		<b> </b>				
		0.0200	3.1372	Duck 10	0.0744					1	+		<b>†</b>				
0.6249	9.7821		9.1572	Buck 7C					1 1	1	1		İ				
		1.5006	8.2815	Buck 7B	-0.8757	0.8751	9.1578	Buck 7C	1 1				İ		i		