

# SC East Central 2017 D18 LiDAR QL2

## Survey Report

USGS Contract: G16PC00044

Task Order Number: 140G0218F0143



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# Overview

Digital Aerial Solutions, LLC (DAS) with contract number G17PC00044 was contracted by the United State Geological Survey (USGS) under task order number 140G0218F0143 collect a high resolution LiDAR data set covering 2,215 square miles affecting Calhoun, Clarendon and Orangeburg counties in South Carolina. Each of these categories was spread out as evenly as possible throughout the Area of Interest (AOI). The survey was completed using the Global Positioning System (GPS). Each observation was identified in the field and surveyed utilizing GPS receivers, collecting GNSS and GLONASS information and utilizing a Leica Smart-Net RTK network. In accordance with section C.1.e.(i)(e) of the task order, the spatial reference system used was:

## **Spatial Reference System:**

Coordinate System: State Plane South Carolina FIPS 3900  
Horizontal Datum: North American Datum 1983 (2011) is in Int. Foot  
Units: International Foot  
Vertical Datum: North American Vertical Datum of 1988  
Units: US Survey Foot  
Geoid Model: GEOID12B

Section C.1.c.(i)(a) of the task order outlines the ground control minimum requirements and specifications for this LiDAR project. 25 Supplemental ground control points were collected and used to support the airborne GPS solution and positional accuracy. DAS also collected 135 Checkpoint's, 76 Non-Vegetated Vertical Accuracy (NVA) and 59 Vegetated Vertical Accuracy (VVA) Quality Checkpoints as stated in the task order. These checkpoints serve as an independent delivery to the client and were not incorporated into the vertical solution.

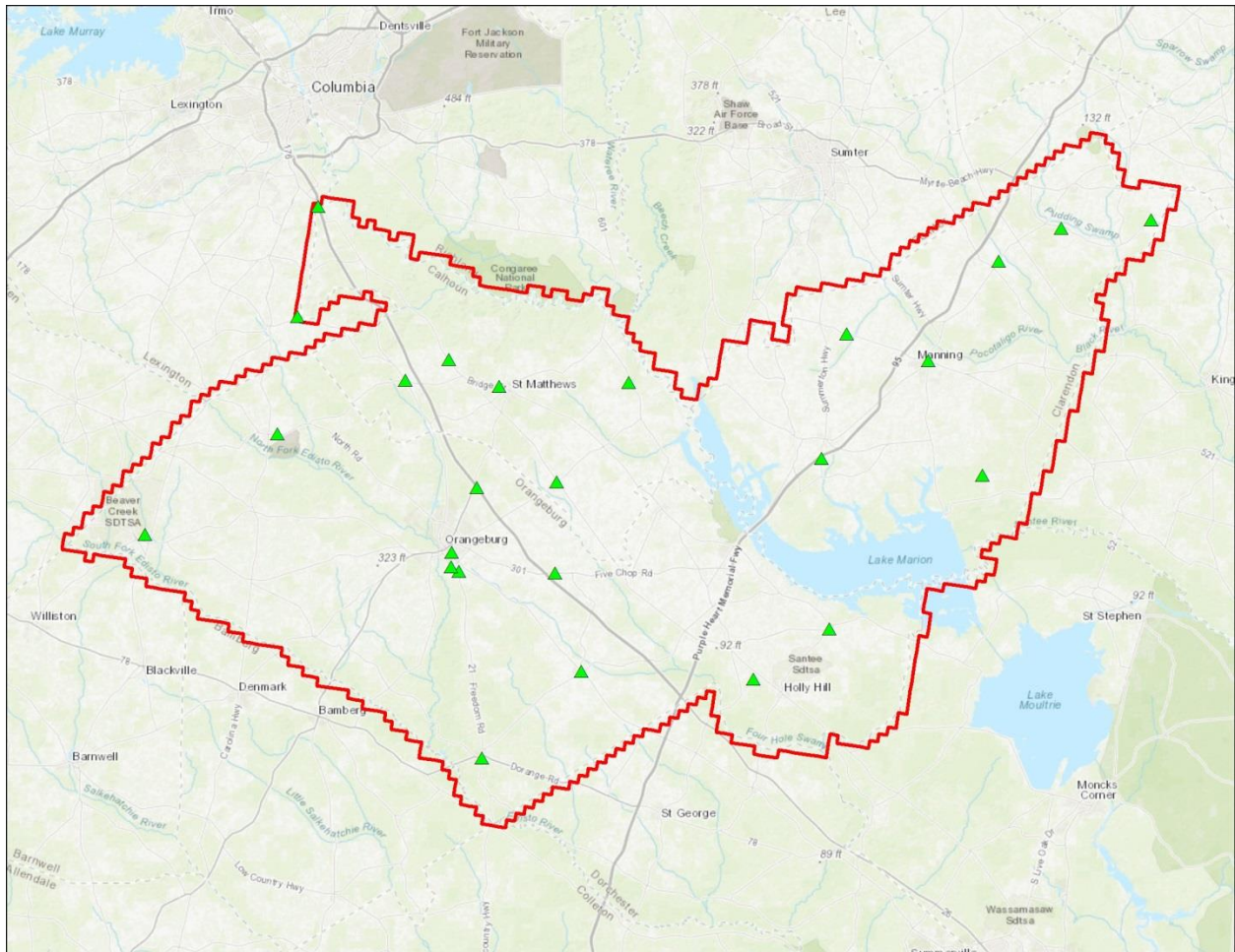
# Glossary of Terms

## **Term - Definition**

ATTN	- Attention
BG	- Bare-Ground Checkpoint (see NVA)
CTRL	- Control
DAS	- Digital Aerial Solutions, LLC
Ellip	- Ellipsoid Height
FIPS	- Federal Information Processing Standard
GPS	- Global Positioning Systems
HP	- Hard Pavement(see NVA)
HV	- High Vegetation(see VVA)
ID	- Identification
LV	- Low Vegetation (see VVA)
LiDAR	- Light Detection and Ranging
MV	- Medium Vegetation (see VVA)
NAD83	- North American Datum of 1983
NAVD88	- North American Vertical Datum of 1988
NGS	- National Geodetic Survey
NGTOC	- National Geospatial Technical Operations Center
NVA	- Non-Vegetated Vertical Accuracy
Ortho	- Orthometric Height
PS	- Packed Sand(see NVA)
POC	- Point of Contact
RTK	- Real Time Kinematics
USGS	- United States Geological Survey
VP	- Vice President
VVA	- Vegetated Vertical Accuracy

# Supplemental Ground Control

The Map shows the overall distribution of the Supplemental Ground Control throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Ground Control Points**

Point ID	NORTHING (Int. Foot)	EASTING (Int. Foot)	ORTHO (US Survey Foot)
19.GCP.BG	607142.800	1918014.231	225.190
26.GCP.BG	670602.208	2025061.276	335.373
31.GCP.BG	668098.126	2063548.921	315.278
37.GCP.BG	591318.524	2086445.170	160.219
6.GCP.BG	550946.336	2097338.224	140.341
71.GCP.BG	719390.764	2268785.065	79.239
1.GCP.HP	592094.532	2047043.832	192.949
11.GCP.HP	599754.678	2043898.541	198.093
22.GVP.HP	648587.527	1972327.750	292.745
27.GCP.HP	696707.145	1980769.442	389.632
28.GCP.HP	741948.110	1989087.047	249.760
31.GVP.HP	679027.599	2042849.562	339.602
35.GCP.HP	669671.673	2116725.569	167.024
4.GCP.HP	515296.108	2056369.358	121.906
43.GCP.HP	547629.897	2167827.261	98.779
47.GCP.HP	568483.422	2199071.563	111.965
55.GCP.HP	638346.828	2195990.584	115.026
61.GCP.HP	631418.305	2262073.104	126.673
65.GCP.HP	678594.210	2239708.578	126.079
74.GCP.HP	732989.231	2294494.739	101.407
76.GCP.HP	736452.953	2331326.203	94.311
82.GCP.HP	689592.125	2206320.915	154.701
85.GCP.HP	628654.594	2087107.178	179.560
89.GCP.HP	593792.369	2043791.466	195.393
93.GCP.HP	626412.547	2054356.871	301.361

**19.GCP.BG**



**Point ID:** 19.GCP.BG

**Northing:** 607142.8 Int. Foot

**Easting:** 1918014.231 Int. Foot

**Orthometric Height:** 225.19 US Survey Foot

**Latitude:** 33° 30' 06.40565" N

**Longitude:** 81° 16' 08.34918" W

**Ellipsoid Height:** 37.257 Meters

**26.GCP.BG**



**Point ID:** 26.GCP.BG

**Northing:** 670602.208 Int. Foot

**Easting:** 2025061.276 Int. Foot

**Orthometric Height:** 335.373 US Survey Foot

**Latitude:** 33° 40' 35.29404" N

**Longitude:** 80° 55' 03.39846" W

**Ellipsoid Height:** 70.898 Meters

**31.GCP.BG**



**Point ID:** 31.GCP.BG

**Northing:** 668098.126 Int. Foot

**Easting:** 2063548.921 Int. Foot

**Orthometric Height:** 315.278 US Survey Foot

**Latitude:** 33° 40' 09.97975" N

**Longitude:** 80° 47' 27.95588" W

**Ellipsoid Height:** 64.747 Meters



37.GCP.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 37.GCP.BG

**Northing:** 591318.524 Int. Foot

**Easting:** 2086445.17 Int. Foot

**Orthometric Height:** 160.219 US Survey Foot

**Latitude:** 33° 27' 29.70477" N

**Longitude:** 80° 42' 59.49290" W

**Ellipsoid Height:** 17.426 Meters

**6.GCP.BG**



**Point ID:** 6.GCP.BG

**Northing:** 550946.336 Int. Foot

**Easting:** 2097338.224 Int. Foot

**Orthometric Height:** 140.341 US Survey Foot

**Latitude:** 33° 20' 49.90095" N

**Longitude:** 80° 40' 52.36856" W

**Ellipsoid Height:** 11.3246 Meters

**71.GCP.BG**



**Point ID:** 71.GCP.BG

**Northing:** 719390.764 Int. Foot

**Easting:** 2268785.065 Int. Foot

**Orthometric Height:** 79.239 US Survey Foot

**Latitude:** 33° 48' 26.75708" N

**Longitude:** 80° 06' 54.04695" W

**Ellipsoid Height:** -7.8973 Meters

## 1.GCP.HP



**Point ID:** 1.GCP.HP

**Northing:** 592094.532 Int. Foot

**Easting:** 2047043.832 Int. Foot

**Orthometric Height:** 192.949 US Survey Foot

**Latitude:** 33° 27' 38.20916" N

**Longitude:** 80° 50' 44.62101" W

**Ellipsoid Height:** 27.4084 Meters

**11.GCP.HP**



**Point ID: 11.GCP.HP**

**Northing: 599754.678 Int. Foot**

**Easting: 2043898.541 Int. Foot**

**Orthometric Height: 198.093 US Survey Foot**

**Latitude: 33° 28' 54.05233" N**

**Longitude: 80° 51' 21.62690" W**

**Ellipsoid Height: 28.9753 Meters**

**22.GVP.HP**



**Point ID: 22.GVP.HP**

**Northing: 648587.527 Int. Foot**

**Easting: 1972327.75 Int. Foot**

**Orthometric Height: 292.745 US Survey Foot**

**Latitude: 33° 36' 57.43870" N**

**Longitude: 81° 05' 27.27338" W**

**Ellipsoid Height: 57.891 Meters**

**27.GCP.HP**



**Point ID:** 27.GCP.HP

**Northing:** 696707.145 Int. Foot

**Easting:** 1980769.442 Int. Foot

**Orthometric Height:** 389.632 US Survey Foot

**Latitude:** 33° 44' 53.63838" N

**Longitude:** 81° 03' 47.78386" W

**Ellipsoid Height:** 87.5337 Meters

**28.GCP.HP**



**Point ID:** 28.GCP.HP

**Northing:** 741948.11 Int. Foot

**Easting:** 1989087.047 Int. Foot

**Orthometric Height:** 249.76 US Survey Foot

**Latitude:** 33° 52' 21.32076" N

**Longitude:** 81° 02' 09.44918" W

**Ellipsoid Height:** 44.9006 Meters



**31.GVP.HP**



**Point ID:** 31.GVP.HP

**Northing:** 679027.599 Int. Foot

**Easting:** 2042849.562 Int. Foot

**Orthometric Height:** 339.602 US Survey Foot

**Latitude:** 33° 41' 58.47196" N

**Longitude:** 80° 51' 32.73738" W

**Ellipsoid Height:** 72.1712 Meters

**35.GCP.HP**



**Point ID:** 35.GCP.HP

**Northing:** 669671.673 Int. Foot

**Easting:** 2116725.569 Int. Foot

**Orthometric Height:** 167.024 US Survey Foot

**Latitude:** 33° 40' 24.04116" N

**Longitude:** 80° 36' 58.59360" W

**Ellipsoid Height:** 19.4544 Meters

#### 4.GCP.HP



**Point ID:** 4.GCP.HP

**Northing:** 515296.108 Int. Foot

**Easting:** 2056369.358 Int. Foot

**Orthometric Height:** 121.906 US Survey Foot

**Latitude:** 33° 14' 58.11977" N

**Longitude:** 80° 48' 56.14585" W

**Ellipsoid Height:** 5.6626 Meters

43.GCP.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 43.GCP.HP

**Northing:** 547629.897 Int. Foot

**Easting:** 2167827.261 Int. Foot

**Orthometric Height:** 98.779 US Survey Foot

**Latitude:** 33° 20' 14.15383" N

**Longitude:** 80° 27' 01.51310" W

**Ellipsoid Height:** -1.6016 Meters

47.GCP.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 47.GCP.HP

**Northing:** 568483.422 Int. Foot

**Easting:** 2199071.563 Int. Foot

**Orthometric Height:** 111.965 US Survey Foot

**Latitude:** 33° 23' 38.70328" N

**Longitude:** 80° 20' 51.63670" W

**Ellipsoid Height:** 2.3595 Meters

55.GCP.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 55.GCP.HP

**Northing:** 638346.828 Int. Foot

**Easting:** 2195990.584 Int. Foot

**Orthometric Height:** 115.026 US Survey Foot

**Latitude:** 33° 35' 10.18832" N

**Longitude:** 80° 21' 22.84799" W

**Ellipsoid Height:** 3.4053 Meters

61.GCP.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 61.GCP.HP

**Northing:** 631418.305 Int. Foot

**Easting:** 2262073.104 Int. Foot

**Orthometric Height:** 126.673 US Survey Foot

**Latitude:** 33° 33' 56.87379" N

**Longitude:** 80° 08' 22.28299" W

**Ellipsoid Height:** 6.6344 Meters

**65.GCP.HP**



**Point ID:** 65.GCP.HP

**Northing:** 678594.21 Int. Foot

**Easting:** 2239708.578 Int. Foot

**Orthometric Height:** 126.079 US Survey Foot

**Latitude:** 33° 41' 45.42747" N

**Longitude:** 80° 12' 42.36916" W

**Ellipsoid Height:** 6.5553 Meters



**74.GCP.HP**



**Point ID:** 74.GCP.HP

**Northing:** 732989.231 Int. Foot

**Easting:** 2294494.739 Int. Foot

**Orthometric Height:** 101.407 US Survey Foot

**Latitude:** 33° 50' 39.02012" N

**Longitude:** 80° 01' 47.81022" W

**Ellipsoid Height:** -1.2662 Meters

**76.GCP.HP**



**Point ID:** 76.GCP.HP

**Northing:** 736452.953 Int. Foot

**Easting:** 2331326.203 Int. Foot

**Orthometric Height:** 94.311 US Survey Foot

**Latitude:** 33° 51' 09.65574" N

**Longitude:** 79° 54' 30.65070" W

**Ellipsoid Height:** -3.6517 Meters

**82.GCP.HP**



**Point ID:** 82.GCP.HP

**Northing:** 689592.125 Int. Foot

**Easting:** 2206320.915 Int. Foot

**Orthometric Height:** 154.701 US Survey Foot

**Latitude:** 33° 43' 36.59179" N

**Longitude:** 80° 19' 16.73959" W

**Ellipsoid Height:** 15.3962 Meters

**85.GCP.HP**



**Point ID:** 85.GCP.HP

**Northing:** 628654.594 Int. Foot

**Easting:** 2087107.178 Int. Foot

**Orthometric Height:** 179.56 US Survey Foot

**Latitude:** 33° 33' 39.12991" N

**Longitude:** 80° 42' 50.45810" W

**Ellipsoid Height:** 23.3214 Meters

**89.GCP.HP**



**Point ID:** 89.GCP.HP

**Northing:** 593792.369 Int. Foot

**Easting:** 2043791.466 Int. Foot

**Orthometric Height:** 195.393 US Survey Foot

**Latitude:** 33° 27' 55.05591" N

**Longitude:** 80° 51' 22.98911" W

**Ellipsoid Height:** 28.1521 Meters

**93.GCP.HP**



**Point ID:** 93.GCP.HP

**Northing:** 626412.547 Int. Foot

**Easting:** 2054356.871 Int. Foot

**Orthometric Height:** 301.361 US Survey Foot

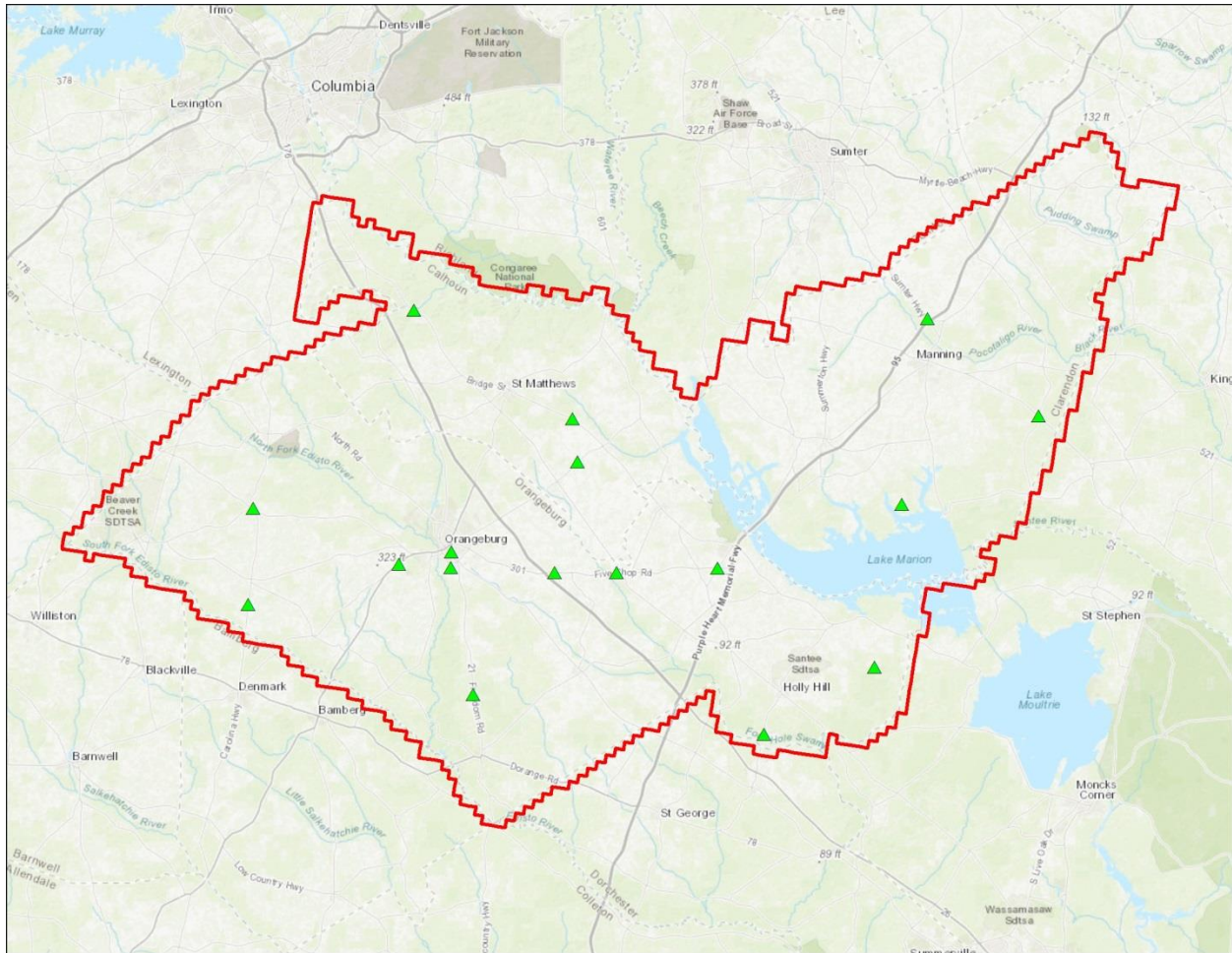
**Latitude:** 33° 33' 17.67292" N

**Longitude:** 80° 49' 17.58706" W

**Ellipsoid Height:** 60.4661 Meters

# Non-Vegetated Vertical Accuracy Checkpoints Bare Earth

The Map shows the overall distribution of the Non-Vegetated Vertical Accuracy Checkpoint, Bare Earth throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Bare Earth**

<b>Point ID</b>	<b>NORTHING (Int. Foot)</b>	<b>EASTING (Int. Foot)</b>	<b>ORTHO (US Survey Foot)</b>
11.NVA.BG	599917.995	2043983.333	204.540
12.NVA.BG	594863.545	2022390.506	272.175
16.NVA.BG	578219.539	1960388.511	221.610
21.NVA.BG	617695.781	1962506.110	340.570
3.NVA.BG	541241.598	2053059.624	148.336
30.NVA.BG	698896.492	2028713.127	157.434
37.NVA.BG	591389.333	2086489.856	158.838
38.NVA.BG	591434.976	2112041.295	150.856
39.NVA.BG	593271.566	2153555.169	134.468
45.NVA.BG	524928.983	2172607.855	73.320
48.NVA.BG	552473.874	2218042.975	86.719
58.NVA.BG	619448.288	2229318.879	103.487
70.NVA.BG	695532.336	2239834.175	111.434
81.NVA.BG	655550.973	2285356.559	92.385
86.NVA.BG	636736.923	2095940.178	180.977
87.NVA.BG	654525.179	2093865.326	234.150
91.NVA.BG	593454.303	2043756.363	192.913



**11.NVA.BG**



**Point ID:** 11.NVA.BG

**Northing:** 599917.995 Int. Foot

**Easting:** 2043983.333 Int. Foot

**Orthometric Height:** 204.54 US Survey Foot

**Latitude:** 33° 28' 55.66719" N

**Longitude:** 80° 51' 20.62294" W

**Ellipsoid Height:** 30.9413 Meters

**12.NVA.BG**



**Point ID:** 12.NVA.BG

**Northing:** 594863.545 Int. Foot

**Easting:** 2022390.506 Int. Foot

**Orthometric Height:** 272.175 US Survey Foot

**Latitude:** 33° 28' 05.87774" N

**Longitude:** 80° 55' 35.64405" W

**Ellipsoid Height:** 51.5467 Meters

**16.NVA.BG**



**Point ID:** 16.NVA.BG

**Northing:** 578219.539 Int. Foot

**Easting:** 1960388.511 Int. Foot

**Orthometric Height:** 221.61 US Survey Foot

**Latitude:** 33° 25' 21.01482" N

**Longitude:** 81° 07' 47.43030" W

**Ellipsoid Height:** 36.0728 Meters

**21.NVA.BG**



**Point ID:** 21.NVA.BG

**Northing:** 617695.781 Int. Foot

**Easting:** 1962506.11 Int. Foot

**Orthometric Height:** 340.57 US Survey Foot

**Latitude:** 33° 31' 51.66338" N

**Longitude:** 81° 07' 22.99651" W

**Ellipsoid Height:** 72.3611 Meters

### 3.NVA.BG



**Point ID:** 3.NVA.BG

**Northing:** 541241.598 Int. Foot

**Easting:** 2053059.624 Int. Foot

**Orthometric Height:** 148.336 US Survey Foot

**Latitude:** 33° 19' 14.91426" N

**Longitude:** 80° 49' 34.61045" W

**Ellipsoid Height:** 13.7999 Meters

**30.NVA.BG**



**Point ID:** 30.NVA.BG

**Northing:** 698896.492 Int. Foot

**Easting:** 2028713.127 Int. Foot

**Orthometric Height:** 157.434 US Survey Foot

**Latitude:** 33° 45' 15.22982" N

**Longitude:** 80° 54' 19.87250" W

**Ellipsoid Height:** 16.6453 Meters

37.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 37.NVA.BG

**Northing:** 591389.333 Int. Foot

**Easting:** 2086489.856 Int. Foot

**Orthometric Height:** 158.838 US Survey Foot

**Latitude:** 33° 27' 30.40419" N

**Longitude:** 80° 42' 58.96308" W

**Ellipsoid Height:** 17.0038 Meters

38.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 38.NVA.BG

**Northing:** 591434.976 Int. Foot

**Easting:** 2112041.295 Int. Foot

**Orthometric Height:** 150.856 US Survey Foot

**Latitude:** 33° 27' 30.05951" N

**Longitude:** 80° 37' 57.32152" W

**Ellipsoid Height:** 14.5635 Meters



39.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 39.NVA.BG

**Northing:** 593271.566 Int. Foot

**Easting:** 2153555.169 Int. Foot

**Orthometric Height:** 134.468 US Survey Foot

**Latitude:** 33° 27' 46.50170" N

**Longitude:** 80° 29' 47.13984" W

**Ellipsoid Height:** 9.4647 Meters

45.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 45.NVA.BG

**Northing:** 524928.983 Int. Foot

**Easting:** 2172607.855 Int. Foot

**Orthometric Height:** 73.32 US Survey Foot

**Latitude:** 33° 16' 29.27018" N

**Longitude:** 80° 26' 06.61921" W

**Ellipsoid Height:** -9.4438 Meters

48.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 48.NVA.BG

**Northing:** 552473.874 Int. Foot

**Easting:** 2218042.975 Int. Foot

**Orthometric Height:** 86.719 US Survey Foot

**Latitude:** 33° 20' 59.04739" N

**Longitude:** 80° 17' 09.15072" W

**Ellipsoid Height:** -5.4464 Meters

58.NVA.BG

**NO IMAGE  
AVAILABLE**

**Point ID:** 58.NVA.BG

**Northing:** 619448.288 Int. Foot

**Easting:** 2229318.879 Int. Foot

**Orthometric Height:** 103.487 US Survey Foot

**Latitude:** 33° 32' 00.96269" N

**Longitude:** 80° 14' 50.45524" W

**Ellipsoid Height:** -0.2929 Meters

**70.NVA.BG**



**Point ID:** 70.NVA.BG

**Northing:** 695532.336 Int. Foot

**Easting:** 2239834.175 Int. Foot

**Orthometric Height:** 111.434 US Survey Foot

**Latitude:** 33° 44' 33.01267" N

**Longitude:** 80° 12' 39.35152" W

**Ellipsoid Height:** 2.0703 Meters

**81.NVA.BG**



**Point ID:** 81.NVA.BG

**Northing:** 655550.973 Int. Foot

**Easting:** 2285356.559 Int. Foot

**Orthometric Height:** 92.385 US Survey Foot

**Latitude:** 33° 37' 53.65331" N

**Longitude:** 80° 03' 44.49794" W

**Ellipsoid Height:** -3.9526 Meters

**86.NVA.BG**



**Point ID:** 86.NVA.BG

**Northing:** 636736.923 Int. Foot

**Easting:** 2095940.178 Int. Foot

**Orthometric Height:** 180.977 US Survey Foot

**Latitude:** 33° 34' 58.85035" N

**Longitude:** 80° 41' 05.76801" W

**Ellipsoid Height:** 23.7517 Meters

**87.NVA.BG**



**Point ID:** 87.NVA.BG

**Northing:** 654525.179 Int. Foot

**Easting:** 2093865.326 Int. Foot

**Orthometric Height:** 234.15 US Survey Foot

**Latitude:** 33° 37' 54.92608" N

**Longitude:** 80° 41' 29.66976" W

**Ellipsoid Height:** 39.9686 Meters



**91.NVA.BG**



**Point ID:** 91.NVA.BG

**Northing:** 593454.303 Int. Foot

**Easting:** 2043756.363 Int. Foot

**Orthometric Height:** 192.913 US Survey Foot

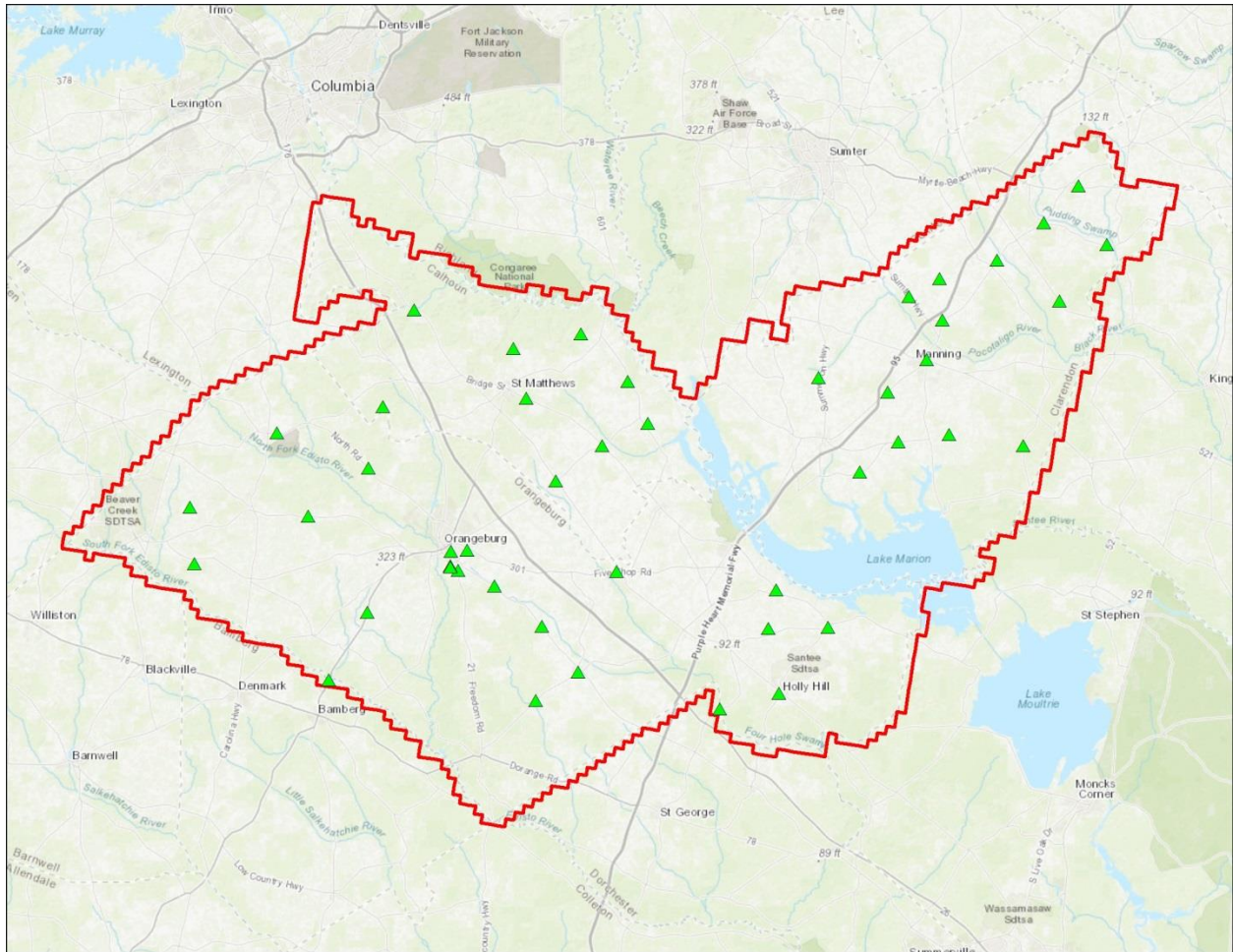
**Latitude:** 33° 27' 51.71119" N

**Longitude:** 80° 51' 23.40909" W

**Ellipsoid Height:** 27.396 Meters

# Non-Vegetated Vertical Accuracy Checkpoints Hard Pavement

The Map shows the overall distribution of the Non-Vegetated Vertical Accuracy Checkpoint, Hard Pavement throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Hard Pavement**

Point ID	NORTHING (Int. Foot)	EASTING (Int. Foot)	ORTHO (US Survey Foot)
1.NVA.HP	591947.925	2047063.528	193.349
10.NVA.HP	585582.283	2061835.659	181.374
11.NVA.HP	599866.679	2044008.210	204.527
14.NVA.HP	574783.059	2009602.391	242.513
15.NVA.HP	547076.066	1993804.943	141.000
17.NVA.HP	594744.394	1938362.362	260.383
20.NVA.HP	617870.715	1936691.061	315.413
22.NVA.HP	648575.412	1972303.890	291.929
23.NVA.HP	614231.160	1985281.908	329.635
24.NVA.HP	633927.333	2009964.984	292.805
25.NVA.HP	659199.105	2016015.970	364.697
30.NVA.HP	698867.900	2028830.561	159.636
33.NVA.HP	683231.630	2069799.852	282.083
34.NVA.HP	688993.667	2097578.434	272.184
35.NVA.HP	669642.393	2116687.531	166.804
36.NVA.HP	652403.376	2125052.648	171.394
38.NVA.HP	591463.054	2112114.503	150.190
42.NVA.HP	535030.034	2154573.693	80.449
44.NVA.HP	541467.300	2178976.165	100.144
47.NVA.HP	568509.257	2199097.806	111.138
5.NVA.HP	538560.610	2078935.027	147.083
50.NVA.HP	584028.074	2177900.424	132.700
52.NVA.HP	568068.297	2174536.452	123.897
56.NVA.HP	632307.184	2212149.582	123.894
59.NVA.HP	644808.303	2228065.283	137.549
6.NVA.HP	550227.778	2096327.412	144.698
60.NVA.HP	647806.110	2249042.305	132.152
62.NVA.HP	643268.457	2279443.395	94.583
64.NVA.HP	665287.902	2223776.271	149.435
65.NVA.HP	678616.312	2239765.806	125.676
66.NVA.HP	704458.577	2232524.211	127.647
68.NVA.HP	711804.980	2245013.930	127.132
69.NVA.HP	694832.716	2246222.446	110.295
71.NVA.HP	719471.214	2268731.393	85.394
72.NVA.HP	734831.738	2287864.184	103.432
73.NVA.HP	749850.373	2302297.190	95.436

<b>Point ID</b>	<b>NORTHING (Int. Foot)</b>	<b>EASTING (Int. Foot)</b>	<b>ORTHO (US Survey Foot)</b>
75.NVA.HP	725737.444	2313944.084	75.413
78.NVA.HP	702560.175	2294492.305	94.944
8.NVA.HP	568976.912	2081433.525	161.499
83.NVA.HP	671179.031	2195186.253	157.828
85.NVA.HP	628719.481	2087092.907	179.875
86.NVA.HP	643185.105	2106251.592	188.769
88.NVA.HP	662734.460	2074891.018	275.928
89.NVA.HP	593848.423	2043769.762	195.315
90.NVA.HP	593749.024	2043846.795	194.147
91.NVA.HP	593497.976	2043746.449	193.733
92.NVA.HP	600186.236	2050584.579	202.345

1.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 1.NVA.HP

**Northing:** 591947.925 Int. Foot

**Easting:** 2047063.528 Int. Foot

**Orthometric Height:** 193.349 US Survey Foot

**Latitude:** 33° 27' 36.75819" N

**Longitude:** 80° 50' 44.39108" W

**Ellipsoid Height:** 27.5301 Meters

**10.NVA.HP**



**Point ID:** 10.NVA.HP

**Northing:** 585582.283 Int. Foot

**Easting:** 2061835.659 Int. Foot

**Orthometric Height:** 181.374 US Survey Foot

**Latitude:** 33° 26' 33.51664" N

**Longitude:** 80° 47' 50.14636" W

**Ellipsoid Height:** 23.8834 Meters

**11.NVA.HP**



**Point ID:** 11.NVA.HP

**Northing:** 599866.679 Int. Foot

**Easting:** 2044008.21 Int. Foot

**Orthometric Height:** 204.527 US Survey Foot

**Latitude:** 33° 28' 55.15908" N

**Longitude:** 80° 51' 20.33001" W

**Ellipsoid Height:** 30.9368 Meters

**14.NVA.HP**



**Point ID:** 14.NVA.HP

**Northing:** 574783.059 Int. Foot

**Easting:** 2009602.391 Int. Foot

**Orthometric Height:** 242.513 US Survey Foot

**Latitude:** 33° 24' 47.24190" N

**Longitude:** 80° 58' 06.70051" W

**Ellipsoid Height:** 42.4923 Meters



**15.NVA.HP**



**Point ID:** 15.NVA.HP

**Northing:** 547076.066 Int. Foot

**Easting:** 1993804.943 Int. Foot

**Orthometric Height:** 141 US Survey Foot

**Latitude:** 33° 20' 13.08311" N

**Longitude:** 81° 01' 13.03188" W

**Ellipsoid Height:** 11.5891 Meters

**17.NVA.HP**



**Point ID:** 17.NVA.HP

**Northing:** 594744.394 Int. Foot

**Easting:** 1938362.362 Int. Foot

**Orthometric Height:** 260.383 US Survey Foot

**Latitude:** 33° 28' 04.18095" N

**Longitude:** 81° 12' 07.72792" W

**Ellipsoid Height:** 47.892 Meters

**20.NVA.HP**



**Point ID:** 20.NVA.HP

**Northing:** 617870.715 Int. Foot

**Easting:** 1936691.061 Int. Foot

**Orthometric Height:** 315.413 US Survey Foot

**Latitude:** 33° 31' 52.98549" N

**Longitude:** 81° 12' 28.00912" W

**Ellipsoid Height:** 64.7304 Meters

**22.NVA.HP**



**Point ID:** 22.NVA.HP

**Northing:** 648575.412 Int. Foot

**Easting:** 1972303.89 Int. Foot

**Orthometric Height:** 291.929 US Survey Foot

**Latitude:** 33° 36' 57.31863" N

**Longitude:** 81° 05' 27.55542" W

**Ellipsoid Height:** 57.6416 Meters

**23.NVA.HP**



**Point ID:** 23.NVA.HP

**Northing:** 614231.16 Int. Foot

**Easting:** 1985281.908 Int. Foot

**Orthometric Height:** 329.635 US Survey Foot

**Latitude:** 33° 31' 17.56745" N

**Longitude:** 81° 02' 53.87764" W

**Ellipsoid Height:** 69.0426 Meters

**24.NVA.HP**



**Point ID:** 24.NVA.HP

**Northing:** 633927.333 Int. Foot

**Easting:** 2009964.984 Int. Foot

**Orthometric Height:** 292.805 US Survey Foot

**Latitude:** 33° 34' 32.48083" N

**Longitude:** 80° 58' 02.20128" W

**Ellipsoid Height:** 57.8923 Meters

**25.NVA.HP**



**Point ID:** 25.NVA.HP

**Northing:** 659199.105 Int. Foot

**Easting:** 2016015.97 Int. Foot

**Orthometric Height:** 364.697 US Survey Foot

**Latitude:** 33° 38' 42.51987" N

**Longitude:** 80° 56' 50.51884" W

**Ellipsoid Height:** 79.8386 Meters

**30.NVA.HP**



**Point ID:** 30.NVA.HP

**Northing:** 698867.9 Int. Foot

**Easting:** 2028830.561 Int. Foot

**Orthometric Height:** 159.636 US Survey Foot

**Latitude:** 33° 45' 14.94582" N

**Longitude:** 80° 54' 18.48172" W

**Ellipsoid Height:** 17.3164 Meters



**33.NVA.HP**



**Point ID:** 33.NVA.HP

**Northing:** 683231.63 Int. Foot

**Easting:** 2069799.852 Int. Foot

**Orthometric Height:** 282.083 US Survey Foot

**Latitude:** 33° 42' 39.59212" N

**Longitude:** 80° 46' 13.58419" W

**Ellipsoid Height:** 54.6047 Meters

**34.NVA.HP**



**Point ID:** 34.NVA.HP

**Northing:** 688993.667 Int. Foot

**Easting:** 2097578.434 Int. Foot

**Orthometric Height:** 272.184 US Survey Foot

**Latitude:** 33° 43' 35.87412" N

**Longitude:** 80° 40' 44.48144" W

**Ellipsoid Height:** 51.5243 Meters

**35.NVA.HP**



**Point ID:** 35.NVA.HP

**Northing:** 669642.393 Int. Foot

**Easting:** 2116687.531 Int. Foot

**Orthometric Height:** 166.804 US Survey Foot

**Latitude:** 33° 40' 23.75283" N

**Longitude:** 80° 36' 59.04503" W

**Ellipsoid Height:** 19.3879 Meters

**36.NVA.HP**



**Point ID:** 36.NVA.HP

**Northing:** 652403.376 Int. Foot

**Easting:** 2125052.648 Int. Foot

**Orthometric Height:** 171.394 US Survey Foot

**Latitude:** 33° 37' 32.85712" N

**Longitude:** 80° 35' 20.85901" W

**Ellipsoid Height:** 20.803 Meters

38.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 38.NVA.HP

**Northing:** 591463.054 Int. Foot

**Easting:** 2112114.503 Int. Foot

**Orthometric Height:** 150.19 US Survey Foot

**Latitude:** 33° 27' 30.33476" N

**Longitude:** 80° 37' 56.45610" W

**Ellipsoid Height:** 14.3607 Meters

42.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 42.NVA.HP

**Northing:** 535030.034 Int. Foot

**Easting:** 2154573.693 Int. Foot

**Orthometric Height:** 80.449 US Survey Foot

**Latitude:** 33° 18' 10.14614" N

**Longitude:** 80° 29' 38.48179" W

**Ellipsoid Height:** -7.1879 Meters

44.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 44.NVA.HP

**Northing:** 541467.3 Int. Foot

**Easting:** 2178976.165 Int. Foot

**Orthometric Height:** 100.144 US Survey Foot

**Latitude:** 33° 19' 12.56812" N

**Longitude:** 80° 24' 50.49525" W

**Ellipsoid Height:** -1.2421 Meters

47.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 47.NVA.HP

**Northing:** 568509.257 Int. Foot

**Easting:** 2199097.806 Int. Foot

**Orthometric Height:** 111.138 US Survey Foot

**Latitude:** 33° 23' 38.95727" N

**Longitude:** 80° 20' 51.32521" W

**Ellipsoid Height:** 2.1084 Meters



**5.NVA.HP**



**Point ID:** 5.NVA.HP

**Northing:** 538560.61 Int. Foot

**Easting:** 2078935.027 Int. Foot

**Orthometric Height:** 147.083 US Survey Foot

**Latitude:** 33° 18' 47.84989" N

**Longitude:** 80° 44' 29.70897" W

**Ellipsoid Height:** 13.3883 Meters

50.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 50.NVA.HP

**Northing:** 584028.074 Int. Foot

**Easting:** 2177900.424 Int. Foot

**Orthometric Height:** 132.7 US Survey Foot

**Latitude:** 33° 26' 13.77035" N

**Longitude:** 80° 25' 00.34324" W

**Ellipsoid Height:** 8.7967 Meters

52.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 52.NVA.HP

**Northing:** 568068.297 Int. Foot

**Easting:** 2174536.452 Int. Foot

**Orthometric Height:** 123.897 US Survey Foot

**Latitude:** 33° 23' 36.03356" N

**Longitude:** 80° 25' 41.08783" W

**Ellipsoid Height:** 6.0911 Meters

56.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 56.NVA.HP

**Northing:** 632307.184 Int. Foot

**Easting:** 2212149.582 Int. Foot

**Orthometric Height:** 123.894 US Survey Foot

**Latitude:** 33° 34' 09.39033" N

**Longitude:** 80° 18' 12.29068" W

**Ellipsoid Height:** 6.0184 Meters

59.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 59.NVA.HP

**Northing:** 644808.303 Int. Foot

**Easting:** 2228065.283 Int. Foot

**Orthometric Height:** 137.549 US Survey Foot

**Latitude:** 33° 36' 11.98460" N

**Longitude:** 80° 15' 03.09471" W

**Ellipsoid Height:** 10.112 Meters

**6.NVA.HP**



**Point ID:** 6.NVA.HP

**Northing:** 550227.778 Int. Foot

**Easting:** 2096327.412 Int. Foot

**Orthometric Height:** 144.698 US Survey Foot

**Latitude:** 33° 20' 42.82134" N

**Longitude:** 80° 41' 04.31196" W

**Ellipsoid Height:** 12.6541 Meters

60.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 60.NVA.HP

**Northing:** 647806.11 Int. Foot

**Easting:** 2249042.305 Int. Foot

**Orthometric Height:** 132.152 US Survey Foot

**Latitude:** 33° 36' 40.07315" N

**Longitude:** 80° 10' 54.76770" W

**Ellipsoid Height:** 8.3703 Meters

62.NVA.HP

**NO IMAGE  
AVAILABLE**

**Point ID:** 62.NVA.HP

**Northing:** 643268.457 Int. Foot

**Easting:** 2279443.395 Int. Foot

**Orthometric Height:** 94.583 US Survey Foot

**Latitude:** 33° 35' 52.64822" N

**Longitude:** 80° 04' 55.73177" W

**Ellipsoid Height:** -3.2428 Meters



**64.NVA.HP**



**Point ID:** 64.NVA.HP

**Northing:** 665287.902 Int. Foot

**Easting:** 2223776.271 Int. Foot

**Orthometric Height:** 149.435 US Survey Foot

**Latitude:** 33° 39' 34.92889" N

**Longitude:** 80° 15' 52.08763" W

**Ellipsoid Height:** 13.7576 Meters

**65.NVA.HP**



**Point ID:** 65.NVA.HP

**Northing:** 678616.312 Int. Foot

**Easting:** 2239765.806 Int. Foot

**Orthometric Height:** 125.676 US Survey Foot

**Latitude:** 33° 41' 45.64183" N

**Longitude:** 80° 12' 41.68974" W

**Ellipsoid Height:** 6.4318 Meters

**66.NVA.HP**



**Point ID:** 66.NVA.HP

**Northing:** 704458.577 Int. Foot

**Easting:** 2232524.211 Int. Foot

**Orthometric Height:** 127.647 US Survey Foot

**Latitude:** 33° 46' 01.87698" N

**Longitude:** 80° 14' 05.14630" W

**Ellipsoid Height:** 7.021 Meters

**68.NVA.HP**



**Point ID:** 68.NVA.HP

**Northing:** 711804.98 Int. Foot

**Easting:** 2245013.93 Int. Foot

**Orthometric Height:** 127.132 US Survey Foot

**Latitude:** 33° 47' 13.62563" N

**Longitude:** 80° 11' 36.49975" W

**Ellipsoid Height:** 6.8056 Meters

**69.NVA.HP**



**Point ID:** 69.NVA.HP

**Northing:** 694832.716 Int. Foot

**Easting:** 2246222.446 Int. Foot

**Orthometric Height:** 110.295 US Survey Foot

**Latitude:** 33° 44' 25.60127" N

**Longitude:** 80° 11' 23.75548" W

**Ellipsoid Height:** 1.6978 Meters

**71.NVA.HP**



**Point ID:** 71.NVA.HP

**Northing:** 719471.214 Int. Foot

**Easting:** 2268731.393 Int. Foot

**Orthometric Height:** 85.394 US Survey Foot

**Latitude:** 33° 48' 27.55761" N

**Longitude:** 80° 06' 54.67492" W

**Ellipsoid Height:** -6.0215 Meters

**72.NVA.HP**



**Point ID:** 72.NVA.HP

**Northing:** 734831.738 Int. Foot

**Easting:** 2287864.184 Int. Foot

**Orthometric Height:** 103.432 US Survey Foot

**Latitude:** 33° 50' 57.85902" N

**Longitude:** 80° 03' 06.23202" W

**Ellipsoid Height:** -0.6118 Meters

**73.NVA.HP**



**Point ID:** 73.NVA.HP

**Northing:** 749850.373 Int. Foot

**Easting:** 2302297.19 Int. Foot

**Orthometric Height:** 95.436 US Survey Foot

**Latitude:** 33° 53' 25.11104" N

**Longitude:** 80° 00' 13.36510" W

**Ellipsoid Height:** -3.1005 Meters



**75.NVA.HP**



**Point ID:** 75.NVA.HP

**Northing:** 725737.444 Int. Foot

**Easting:** 2313944.084 Int. Foot

**Orthometric Height:** 75.413 US Survey Foot

**Latitude:** 33° 49' 25.40432" N

**Longitude:** 79° 57' 58.05033" W

**Ellipsoid Height:** -9.3133 Meters

**78.NVA.HP**



**Point ID:** 78.NVA.HP

**Northing:** 702560.175 Int. Foot

**Easting:** 2294492.305 Int. Foot

**Orthometric Height:** 94.944 US Survey Foot

**Latitude:** 33° 45' 37.94860" N

**Longitude:** 80° 01' 51.22257" W

**Ellipsoid Height:** -3.2385 Meters

**8.NVA.HP**



**Point ID:** 8.NVA.HP

**Northing:** 568976.912 Int. Foot

**Easting:** 2081433.525 Int. Foot

**Orthometric Height:** 161.499 US Survey Foot

**Latitude:** 33° 23' 48.76299" N

**Longitude:** 80° 43' 59.33736" W

**Ellipsoid Height:** 17.8207 Meters

**83.NVA.HP**



**Point ID:** 83.NVA.HP

**Northing:** 671179.031 Int. Foot

**Easting:** 2195186.253 Int. Foot

**Orthometric Height:** 157.828 US Survey Foot

**Latitude:** 33° 40' 35.10465" N

**Longitude:** 80° 21' 29.94705" W

**Ellipsoid Height:** 16.4375 Meters

**85.NVA.HP**



**Point ID:** 85.NVA.HP

**Northing:** 628719.481 Int. Foot

**Easting:** 2087092.907 Int. Foot

**Orthometric Height:** 179.875 US Survey Foot

**Latitude:** 33° 33' 39.77236" N

**Longitude:** 80° 42' 50.62463" W

**Ellipsoid Height:** 23.4166 Meters

**86.NVA.HP**



**Point ID:** 86.NVA.HP

**Northing:** 643185.105 Int. Foot

**Easting:** 2106251.592 Int. Foot

**Orthometric Height:** 188.769 US Survey Foot

**Latitude:** 33° 36' 02.32706" N

**Longitude:** 80° 39' 03.60699" W

**Ellipsoid Height:** 26.1188 Meters

**88.NVA.HP**



**Point ID:** 88.NVA.HP

**Northing:** 662734.46 Int. Foot

**Easting:** 2074891.018 Int. Foot

**Orthometric Height:** 275.928 US Survey Foot

**Latitude:** 33° 39' 16.65983" N

**Longitude:** 80° 45' 13.88407" W

**Ellipsoid Height:** 52.7404 Meters

**89.NVA.HP**



**Point ID:** 89.NVA.HP

**Northing:** 593848.423 Int. Foot

**Easting:** 2043769.762 Int. Foot

**Orthometric Height:** 195.315 US Survey Foot

**Latitude:** 33° 27' 55.61088" N

**Longitude:** 80° 51' 23.24443" W

**Ellipsoid Height:** 28.1282 Meters



**90.NVA.HP**



**Point ID:** 90.NVA.HP

**Northing:** 593749.024 Int. Foot

**Easting:** 2043846.795 Int. Foot

**Orthometric Height:** 194.147 US Survey Foot

**Latitude:** 33° 27' 54.62624" N

**Longitude:** 80° 51' 22.33662" W

**Ellipsoid Height:** 27.7715 Meters

**91.NVA.HP**



**Point ID:** 91.NVA.HP

**Northing:** 593497.976 Int. Foot

**Easting:** 2043746.449 Int. Foot

**Orthometric Height:** 193.733 US Survey Foot

**Latitude:** 33° 27' 52.14346" N

**Longitude:** 80° 51' 23.52542" W

**Ellipsoid Height:** 27.6464 Meters

92.NVA.HP



**Point ID:** 92.NVA.HP

**Northing:** 600186.236 Int. Foot

**Easting:** 2050584.579 Int. Foot

**Orthometric Height:** 202.345 US Survey Foot

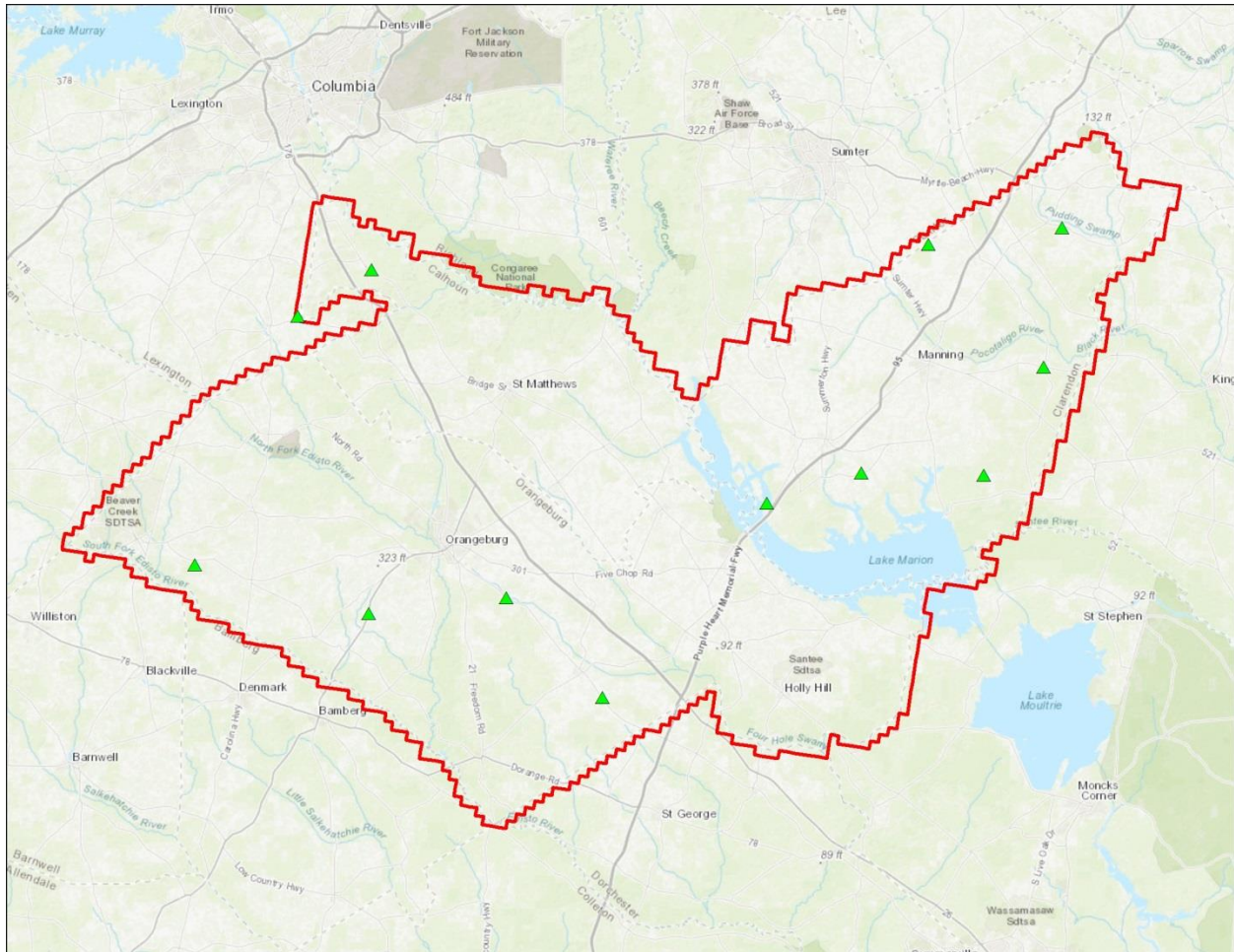
**Latitude:** 33° 28' 58.22345" N

**Longitude:** 80° 50' 02.66720" W

**Ellipsoid Height:** 30.2703 Meters

# Non-Vegetated Vertical Accuracy Checkpoints Packed Sand

The Map shows the overall distribution of the Non-Vegetated Vertical Accuracy Checkpoint, Packed Sand throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Packed Sand**

<b>Point ID</b>	<b>NORTHING (Int. Foot)</b>	<b>EASTING (Int. Foot)</b>	<b>ORTHO (US Survey Foot)</b>
14.NVA.PS	574792.064	2009722.531	240.413
17.NVA.PS	594730.055	1938340.106	259.192
27.NVA.PS	696762.071	1980773.514	389.520
29.NVA.PS	715623.288	2010910.022	148.051
54.NVA.PS	620082.928	2173206.618	75.912
56.NVA.PS	632404.307	2212091.840	122.326
61.NVA.PS	631436.485	2262174.182	127.319
67.NVA.PS	726090.918	2239469.740	126.122
7.NVA.PS	540377.451	2105663.305	138.149
74.NVA.PS	732998.715	2294452.357	101.388
80.NVA.PS	675825.553	2286869.177	77.359
9.NVA.PS	581153.893	2066257.170	174.865

**14.NVA.PS**



**Point ID:** 14.NVA.PS

**Northing:** 574792.064 Int. Foot

**Easting:** 2009722.531 Int. Foot

**Orthometric Height:** 240.413 US Survey Foot

**Latitude:** 33° 24' 47.33065" N

**Longitude:** 80° 58' 05.28294" W

**Ellipsoid Height:** 41.8517 Meters

**17.NVA.PS**



**Point ID:** 17.NVA.PS

**Northing:** 594730.055 Int. Foot

**Easting:** 1938340.106 Int. Foot

**Orthometric Height:** 259.192 US Survey Foot

**Latitude:** 33° 28' 04.03861" N

**Longitude:** 81° 12' 07.99036" W

**Ellipsoid Height:** 47.529 Meters

**27.NVA.PS**



**Point ID:** 27.NVA.PS

**Northing:** 696762.071 Int. Foot

**Easting:** 1980773.514 Int. Foot

**Orthometric Height:** 389.52 US Survey Foot

**Latitude:** 33° 44' 54.18186" N

**Longitude:** 81° 03' 47.73601" W

**Ellipsoid Height:** 87.4995 Meters



**29.NVA.PS**



**Point ID:** 29.NVA.PS

**Northing:** 715623.288 Int. Foot

**Easting:** 2010910.022 Int. Foot

**Orthometric Height:** 148.051 US Survey Foot

**Latitude:** 33° 48' 00.84762" N

**Longitude:** 80° 57' 50.69411" W

**Ellipsoid Height:** 13.8212 Meters

54.NVA.PS

**NO IMAGE  
AVAILABLE**

**Point ID:** 54.NVA.PS

**Northing:** 620082.928 Int. Foot

**Easting:** 2173206.618 Int. Foot

**Orthometric Height:** 75.912 US Survey Foot

**Latitude:** 33° 32' 10.79130" N

**Longitude:** 80° 25' 53.39963" W

**Ellipsoid Height:** -8.4276 Meters

56.NVA.PS

**NO IMAGE  
AVAILABLE**

**Point ID:** 56.NVA.PS

**Northing:** 632404.307 Int. Foot

**Easting:** 2212091.84 Int. Foot

**Orthometric Height:** 122.326 US Survey Foot

**Latitude:** 33° 34' 10.35521" N

**Longitude:** 80° 18' 12.96547" W

**Ellipsoid Height:** 5.5408 Meters

61.NVA.PS

**NO IMAGE  
AVAILABLE**

**Point ID:** 61.NVA.PS

**Northing:** 631436.485 Int. Foot

**Easting:** 2262174.182 Int. Foot

**Orthometric Height:** 127.319 US Survey Foot

**Latitude:** 33° 33' 57.04535" N

**Longitude:** 80° 08' 21.08649" W

**Ellipsoid Height:** 6.8311 Meters

**67.NVA.PS**



**Point ID:** 67.NVA.PS

**Northing:** 726090.918 Int. Foot

**Easting:** 2239469.74 Int. Foot

**Orthometric Height:** 126.122 US Survey Foot

**Latitude:** 33° 49' 35.39907" N

**Longitude:** 80° 12' 40.90591" W

**Ellipsoid Height:** 6.4823 Meters

**7.NVA.PS**



**Point ID:** 7.NVA.PS

**Northing:** 540377.451 Int. Foot

**Easting:** 2105663.305 Int. Foot

**Orthometric Height:** 138.149 US Survey Foot

**Latitude:** 33° 19' 05.05464" N

**Longitude:** 80° 39' 14.63245" W

**Ellipsoid Height:** 10.5985 Meters

**74.NVA.PS**



**Point ID:** 74.NVA.PS

**Northing:** 732998.715 Int. Foot

**Easting:** 2294452.357 Int. Foot

**Orthometric Height:** 101.388 US Survey Foot

**Latitude:** 33° 50' 39.11789" N

**Longitude:** 80° 01' 48.31169" W

**Ellipsoid Height:** -1.2706 Meters

**80.NVA.PS**



**Point ID:** 80.NVA.PS

**Northing:** 675825.553 Int. Foot

**Easting:** 2286869.177 Int. Foot

**Orthometric Height:** 77.359 US Survey Foot

**Latitude:** 33° 41' 14.12397" N

**Longitude:** 80° 03' 24.41731" W

**Ellipsoid Height:** -8.55 Meters



**9.NVA.PS**



**Point ID:** 9.NVA.PS

**Northing:** 581153.893 Int. Foot

**Easting:** 2066257.17 Int. Foot

**Orthometric Height:** 174.865 US Survey Foot

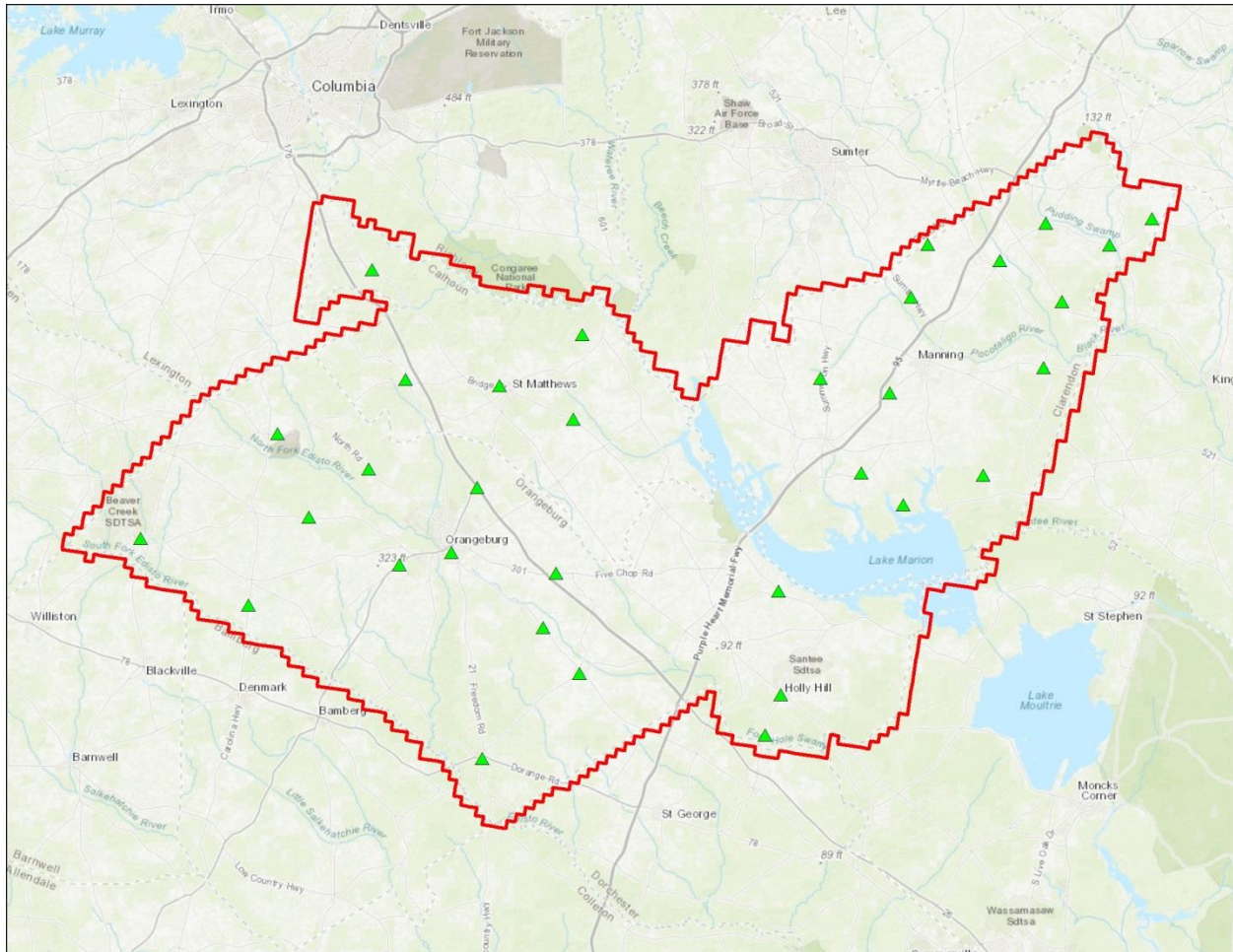
**Latitude:** 33° 25' 49.60809" N

**Longitude:** 80° 46' 58.06874" W

**Ellipsoid Height:** 21.8998 Meters

## Vegetated Vertical Accuracy Checkpoints Low Vegetation

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, Low Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Low Vegetation**

Point ID	NORTHING (Int. Foot)	EASTING (Int. Foot)	ORTHO (US Survey Foot)
11.VVA.LV	599878.321	2043883.655	204.422
12.VVA.LV	594848.128	2022334.281	271.404
16.VVA.LV	578261.033	1960393.801	221.437
18.VVA.LV	605480.593	1916180.133	305.695
22.VVA.LV	648462.172	1972323.211	291.420
23.VVA.LV	614312.498	1985307.599	329.494
24.VVA.LV	634051.871	2009839.661	292.460
26.VVA.LV	670647.696	2025038.013	334.684
29.VVA.LV	715727.446	2011078.999	146.981
31.VVA.LV	668111.081	2063437.981	316.072
34.VVA.LV	689039.884	2097522.995	269.566
37.VVA.LV	591345.386	2086632.660	158.602
4.VVA.LV	515324.279	2056320.879	121.466
44.VVA.LV	541433.084	2179027.675	99.216
45.VVA.LV	524909.628	2172525.033	73.674
50.VVA.LV	583994.721	2177976.802	130.744
56.VVA.LV	632300.995	2212104.100	124.567
58.VVA.LV	619434.741	2229214.650	101.860
6.VVA.LV	550220.797	2096381.708	146.056
61.VVA.LV	631425.148	2261989.121	125.863
64.VVA.LV	665224.350	2223803.755	149.531
66.VVA.LV	704488.047	2232489.102	127.270
67.VVA.LV	726101.210	2239407.845	127.424
71.VVA.LV	719348.375	2268845.989	78.041
72.VVA.LV	734768.932	2287813.103	102.706
75.VVA.LV	725765.936	2313890.072	75.262
76.VVA.LV	736494.226	2331319.705	92.962
78.VVA.LV	702733.060	2294477.524	96.762
8.VVA.LV	569029.876	2081466.520	160.718
80.VVA.LV	675631.085	2286855.264	75.082
83.VVA.LV	671225.154	2195193.994	157.972
87.VVA.LV	654527.558	2093827.954	234.347
93.VVA.LV	626343.446	2054402.927	298.392

**11.VVA.LV**



**Point ID:** 11.VVA.LV

**Northing:** 599878.321 Int. Foot

**Easting:** 2043883.655 Int. Foot

**Orthometric Height:** 204.422 US Survey Foot

**Latitude:** 33° 28' 55.27601" N

**Longitude:** 80° 51' 21.80064" W

**Ellipsoid Height:** 30.9048 Meters

**12.VVA.LV**



**Point ID:** 12.VVA.LV

**Northing:** 594848.128 Int. Foot

**Easting:** 2022334.281 Int. Foot

**Orthometric Height:** 271.404 US Survey Foot

**Latitude:** 33° 28' 05.72557" N

**Longitude:** 80° 55' 36.30800" W

**Ellipsoid Height:** 51.3122 Meters

**16.VVA.LV**



**Point ID:** 16.VVA.LV

**Northing:** 578261.033 Int. Foot

**Easting:** 1960393.801 Int. Foot

**Orthometric Height:** 221.437 US Survey Foot

**Latitude:** 33° 25' 21.42549" N

**Longitude:** 81° 07' 47.36847" W

**Ellipsoid Height:** 36.0201 Meters

**18.VVA.LV**



**Point ID:** 18.VVA.LV

**Northing:** 605480.593 Int. Foot

**Easting:** 1916180.133 Int. Foot

**Orthometric Height:** 305.695 US Survey Foot

**Latitude:** 33° 29' 49.91019" N

**Longitude:** 81° 16' 29.95973" W

**Ellipsoid Height:** 61.8005 Meters

**22.VVA.LV**



**Point ID: 22.VVA.LV**

**Northing: 648462.172 Int. Foot**

**Easting: 1972323.211 Int. Foot**

**Orthometric Height: 291.42 US Survey Foot**

**Latitude: 33° 36' 56.19827" N**

**Longitude: 81° 05' 27.32572" W**

**Ellipsoid Height: 57.4873 Meters**



**23.VVA.LV**



**Point ID:** 23.VVA.LV

**Northing:** 614312.498 Int. Foot

**Easting:** 1985307.599 Int. Foot

**Orthometric Height:** 329.494 US Survey Foot

**Latitude:** 33° 31' 18.37244" N

**Longitude:** 81° 02' 53.57456" W

**Ellipsoid Height:** 69.0002 Meters

**24.VVA.LV**



**Point ID: 24.VVA.LV**

**Northing: 634051.871 Int. Foot**

**Easting: 2009839.661 Int. Foot**

**Orthometric Height: 292.46 US Survey Foot**

**Latitude: 33° 34' 33.71353" N**

**Longitude: 80° 58' 03.68229" W**

**Ellipsoid Height: 57.7877 Meters**

**26.VVA.LV**



**Point ID:** 26.VVA.LV

**Northing:** 670647.696 Int. Foot

**Easting:** 2025038.013 Int. Foot

**Orthometric Height:** 334.684 US Survey Foot

**Latitude:** 33° 40' 35.74432" N

**Longitude:** 80° 55' 03.67336" W

**Ellipsoid Height:** 70.6883 Meters

**29.VVA.LV**



**Point ID:** 29.VVA.LV

**Northing:** 715727.446 Int. Foot

**Easting:** 2011078.999 Int. Foot

**Orthometric Height:** 146.981 US Survey Foot

**Latitude:** 33° 48' 01.87762" N

**Longitude:** 80° 57' 48.69094" W

**Ellipsoid Height:** 13.4936 Meters

**31.VVA.LV**



**Point ID:** 31.VVA.LV

**Northing:** 668111.081 Int. Foot

**Easting:** 2063437.981 Int. Foot

**Orthometric Height:** 316.072 US Survey Foot

**Latitude:** 33° 40' 10.11017" N

**Longitude:** 80° 47' 29.26846" W

**Ellipsoid Height:** 64.989 Meters

**34.VVA.LV**



**Point ID:** 34.VVA.LV

**Northing:** 689039.884 Int. Foot

**Easting:** 2097522.995 Int. Foot

**Orthometric Height:** 269.566 US Survey Foot

**Latitude:** 33° 43' 36.33309" N

**Longitude:** 80° 40' 45.13626" W

**Ellipsoid Height:** 50.726 Meters

37.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 37.VVA.LV

**Northing:** 591345.386 Int. Foot

**Easting:** 2086632.66 Int. Foot

**Orthometric Height:** 158.602 US Survey Foot

**Latitude:** 33° 27' 29.96546" N

**Longitude:** 80° 42' 57.27869" W

**Ellipsoid Height:** 16.9322 Meters

**4.VVA.LV**



**Point ID:** 4.VVA.LV

**Northing:** 515324.279 Int. Foot

**Easting:** 2056320.879 Int. Foot

**Orthometric Height:** 121.466 US Survey Foot

**Latitude:** 33° 14' 58.39940" N

**Longitude:** 80° 48' 56.71621" W

**Ellipsoid Height:** 5.5291 Meters



44.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 44.VVA.LV

**Northing:** 541433.084 Int. Foot

**Easting:** 2179027.675 Int. Foot

**Orthometric Height:** 99.216 US Survey Foot

**Latitude:** 33° 19' 12.22665" N

**Longitude:** 80° 24' 49.89040" W

**Ellipsoid Height:** -1.5249 Meters

45.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 45.VVA.LV

**Northing:** 524909.628 Int. Foot

**Easting:** 2172525.033 Int. Foot

**Orthometric Height:** 73.674 US Survey Foot

**Latitude:** 33° 16' 29.08314" N

**Longitude:** 80° 26' 07.59612" W

**Ellipsoid Height:** -9.3357 Meters

50.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 50.VVA.LV

**Northing:** 583994.721 Int. Foot

**Easting:** 2177976.802 Int. Foot

**Orthometric Height:** 130.744 US Survey Foot

**Latitude:** 33° 26' 13.43603" N

**Longitude:** 80° 24' 59.44400" W

**Ellipsoid Height:** 8.2013 Meters

56.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 56.VVA.LV

**Northing:** 632300.995 Int. Foot

**Easting:** 2212104.1 Int. Foot

**Orthometric Height:** 124.567 US Survey Foot

**Latitude:** 33° 34' 09.33213" N

**Longitude:** 80° 18' 12.82875" W

**Ellipsoid Height:** 6.2243 Meters

58.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 58.VVA.LV

**Northing:** 619434.741 Int. Foot

**Easting:** 2229214.65 Int. Foot

**Orthometric Height:** 101.86 US Survey Foot

**Latitude:** 33° 32' 00.83616" N

**Longitude:** 80° 14' 51.68791" W

**Ellipsoid Height:** -0.789 Meters

**6.VVA.LV**



**Point ID:** 6.VVA.LV

**Northing:** 550220.797 Int. Foot

**Easting:** 2096381.708 Int. Foot

**Orthometric Height:** 146.056 US Survey Foot

**Latitude:** 33° 20' 42.75062" N

**Longitude:** 80° 41' 03.67205" W

**Ellipsoid Height:** 13.0675 Meters

61.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 61.VVA.LV

**Northing:** 631425.148 Int. Foot

**Easting:** 2261989.121 Int. Foot

**Orthometric Height:** 125.863 US Survey Foot

**Latitude:** 33° 33' 56.94840" N

**Longitude:** 80° 08' 23.27492" W

**Ellipsoid Height:** 6.3877 Meters

**64.VVA.LV**



**Point ID:** 64.VVA.LV

**Northing:** 665224.35 Int. Foot

**Easting:** 2223803.755 Int. Foot

**Orthometric Height:** 149.531 US Survey Foot

**Latitude:** 33° 39' 34.29812" N

**Longitude:** 80° 15' 51.76780" W

**Ellipsoid Height:** 13.7866 Meters



**66.VVA.LV**



**Point ID: 66.VVA.LV**

**Northing: 704488.047 Int. Foot**

**Easting: 2232489.102 Int. Foot**

**Orthometric Height: 127.27 US Survey Foot**

**Latitude: 33° 46' 02.17114" N**

**Longitude: 80° 14' 05.55966" W**

**Ellipsoid Height: 6.9062 Meters**

**67.VVA.LV**



**Point ID:** 67.VVA.LV

**Northing:** 726101.21 Int. Foot

**Easting:** 2239407.845 Int. Foot

**Orthometric Height:** 127.424 US Survey Foot

**Latitude:** 33° 49' 35.50560" N

**Longitude:** 80° 12' 41.63875" W

**Ellipsoid Height:** 6.8785 Meters

71.VVA.LV

**NO IMAGE  
AVAILABLE**

**Point ID:** 71.VVA.LV

**Northing:** 719348.375 Int. Foot

**Easting:** 2268845.989 Int. Foot

**Orthometric Height:** 78.041 US Survey Foot

**Latitude:** 33° 48' 26.33250" N

**Longitude:** 80° 06' 53.32914" W

**Ellipsoid Height:** -8.2618 Meters

**72.VVA.LV**



**Point ID:** 72.VVA.LV

**Northing:** 734768.932 Int. Foot

**Easting:** 2287813.103 Int. Foot

**Orthometric Height:** 102.706 US Survey Foot

**Latitude:** 33° 50' 57.24225" N

**Longitude:** 80° 03' 06.84456" W

**Ellipsoid Height:** -0.8322 Meters

**75.VVA.LV**



**Point ID:** 75.VVA.LV

**Northing:** 725765.936 Int. Foot

**Easting:** 2313890.072 Int. Foot

**Orthometric Height:** 75.262 US Survey Foot

**Latitude:** 33° 49' 25.69157" N

**Longitude:** 79° 57' 58.68725" W

**Ellipsoid Height:** -9.3587 Meters

**76.VVA.LV**



**Point ID:** 76.VVA.LV

**Northing:** 736494.226 Int. Foot

**Easting:** 2331319.705 Int. Foot

**Orthometric Height:** 92.962 US Survey Foot

**Latitude:** 33° 51' 10.06475" N

**Longitude:** 79° 54' 30.72259" W

**Ellipsoid Height:** -4.0628 Meters

**78.VVA.LV**



**Point ID:** 78.VVA.LV

**Northing:** 702733.06 Int. Foot

**Easting:** 2294477.524 Int. Foot

**Orthometric Height:** 96.762 US Survey Foot

**Latitude:** 33° 45' 39.66055" N

**Longitude:** 80° 01' 51.37845" W

**Ellipsoid Height:** -2.6836 Meters

**8.VVA.LV**



**Point ID:** 8.VVA.LV

**Northing:** 569029.876 Int. Foot

**Easting:** 2081466.52 Int. Foot

**Orthometric Height:** 160.718 US Survey Foot

**Latitude:** 33° 23' 49.28624" N

**Longitude:** 80° 43' 58.94652" W

**Ellipsoid Height:** 17.5832 Meters



**80.VVA.LV**



**Point ID:** 80.VVA.LV

**Northing:** 675631.085 Int. Foot

**Easting:** 2286855.264 Int. Foot

**Orthometric Height:** 75.082 US Survey Foot

**Latitude:** 33° 41' 12.20108" N

**Longitude:** 80° 03' 24.60299" W

**Ellipsoid Height:** -9.2432 Meters

83.VVA.LV



**Point ID:** 83.VVA.LV

**Northing:** 671225.154 Int. Foot

**Easting:** 2195193.994 Int. Foot

**Orthometric Height:** 157.972 US Survey Foot

**Latitude:** 33° 40' 35.56053" N

**Longitude:** 80° 21' 29.85207" W

**Ellipsoid Height:** 16.4822 Meters

**87.VVA.LV**



**Point ID:** 87.VVA.LV

**Northing:** 654527.558 Int. Foot

**Easting:** 2093827.954 Int. Foot

**Orthometric Height:** 234.347 US Survey Foot

**Latitude:** 33° 37' 54.95072" N

**Longitude:** 80° 41' 30.11172" W

**Ellipsoid Height:** 40.03 Meters

**93.VVA.LV**



**Point ID:** 93.VVA.LV

**Northing:** 626343.446 Int. Foot

**Easting:** 2054402.927 Int. Foot

**Orthometric Height:** 298.392 US Survey Foot

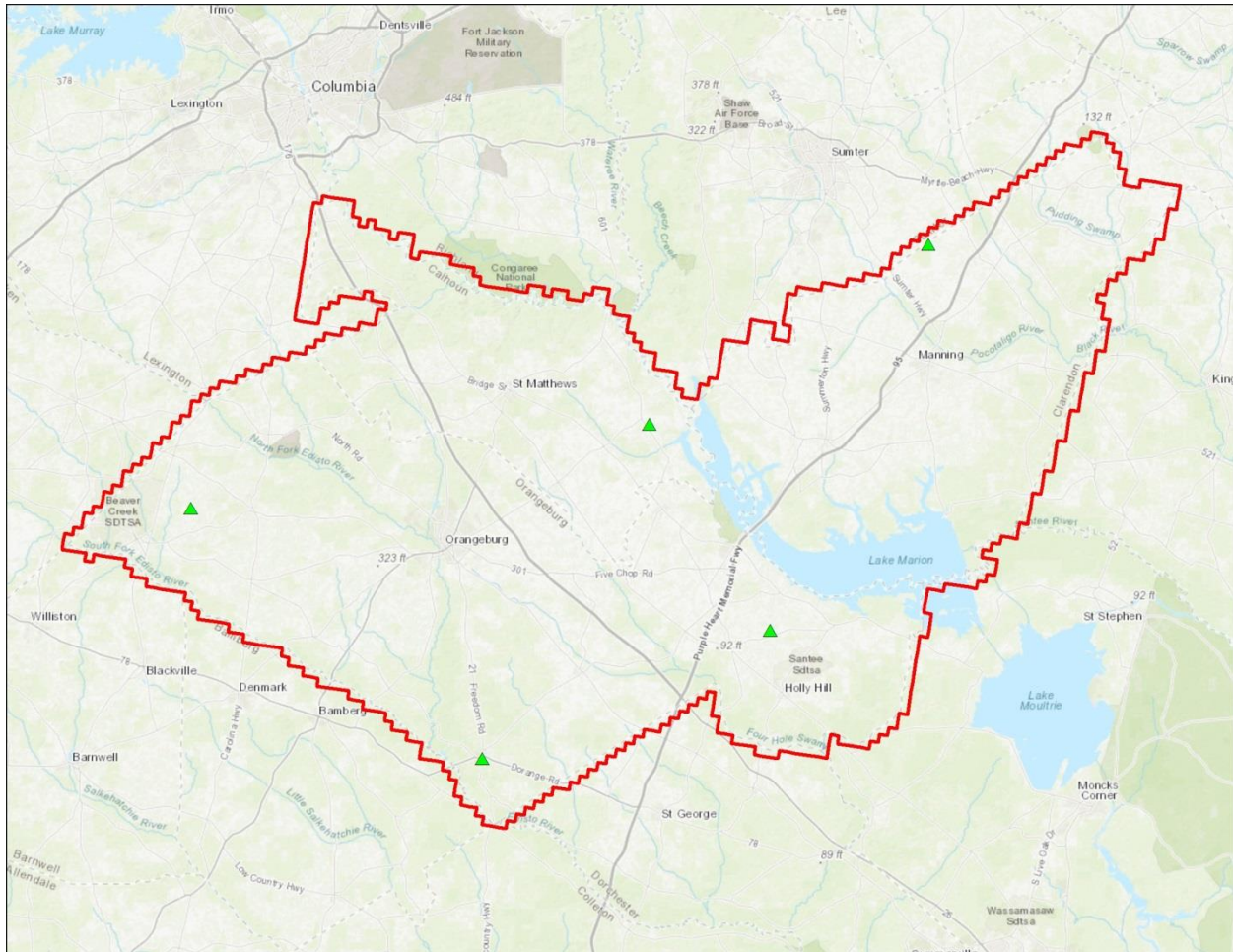
**Latitude:** 33° 33' 16.98839" N

**Longitude:** 80° 49' 17.04415" W

**Ellipsoid Height:** 59.5614 Meters

# Vegetated Vertical Accuracy Checkpoints Medium Vegetation

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, Medium Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement.



**TABLE: Medium Vegetation**

<b>Point ID</b>	<b>NORTHING (Int. Foot)</b>	<b>EASTING (Int. Foot)</b>	<b>ORTHO (US Survey Foot)</b>
20.VVA.MV	617878.577	1936730.809	315.941
36.VVA.MV	652432.788	2125036.576	171.355
4.VVA.MV	515366.408	2056313.268	121.000
52.VVA.MV	568021.334	2174544.575	124.639
67.VVA.MV	726052.388	2239505.452	126.604

**20.VVA.MV**



**Point ID:** 20.VVA.MV

**Northing:** 617878.577 Int. Foot

**Easting:** 1936730.809 Int. Foot

**Orthometric Height:** 315.941 US Survey Foot

**Latitude:** 33° 31' 53.06409" N

**Longitude:** 81° 12' 27.53966" W

**Ellipsoid Height:** 64.8908 Meters

**36.VVA.MV**



**Point ID:** 36.VVA.MV

**Northing:** 652432.788 Int. Foot

**Easting:** 2125036.576 Int. Foot

**Orthometric Height:** 171.355 US Survey Foot

**Latitude:** 33° 37' 33.14878" N

**Longitude:** 80° 35' 21.04773" W

**Ellipsoid Height:** 20.791 Meters



**4.VVA.MV**



**Point ID: 4.VVA.MV**

**Northing: 515366.408 Int. Foot**

**Easting: 2056313.268 Int. Foot**

**Orthometric Height: 121 US Survey Foot**

**Latitude: 33° 14' 58.81642" N**

**Longitude: 80° 48' 56.80493" W**

**Ellipsoid Height: 5.387 Meters**

52.VVA.MV

**NO IMAGE  
AVAILABLE**

**Point ID:** 52.VVA.MV

**Northing:** 568021.334 Int. Foot

**Easting:** 2174544.575 Int. Foot

**Orthometric Height:** 124.639 US Survey Foot

**Latitude:** 33° 23' 35.56840" N

**Longitude:** 80° 25' 40.99508" W

**Ellipsoid Height:** 6.3168 Meters

**67.VVA.MV**



**Point ID:** 67.VVA.MV

**Northing:** 726052.388 Int. Foot

**Easting:** 2239505.452 Int. Foot

**Orthometric Height:** 126.604 US Survey Foot

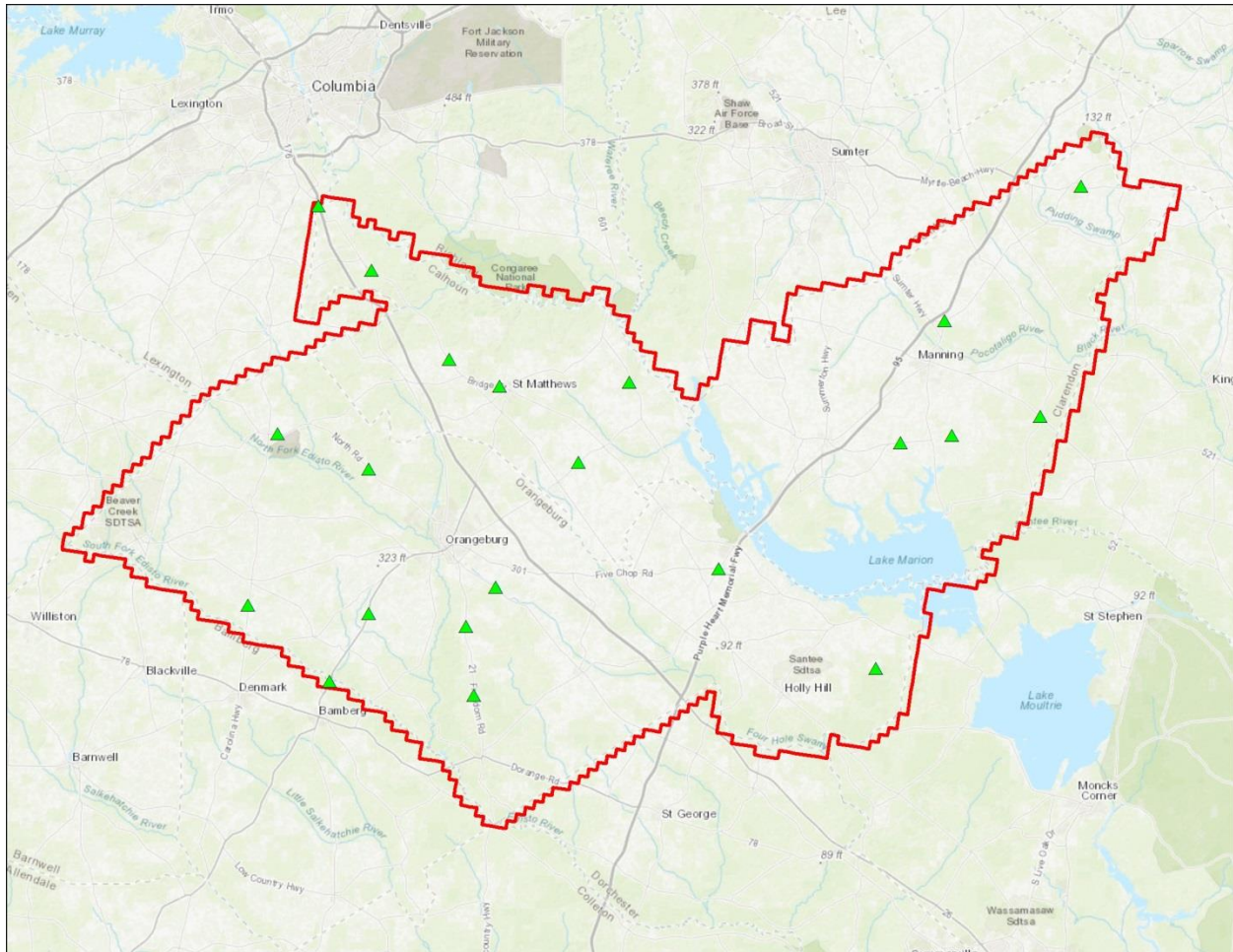
**Latitude:** 33° 49' 35.01514" N

**Longitude:** 80° 12' 40.48603" W

**Ellipsoid Height:** 6.6285 Meters

# Vegetated Vertical Accuracy Checkpoints High Vegetation

The Map shows the overall distribution of the Vegetated Vertical Accuracy Checkpoint, High Vegetation throughout the AOI. The following tables contain a list of the control using Easting, Northing, and Orthometric height. The coordinate system displayed is State Plane South Carolina FIPS 3900, North American Datum 1983 (2011) is in Int. Foot, North American Vertical Datum of 1988, GEOID12B and using US Survey Foot for measurement



**TABLE: High Vegetation**

<b>Point ID</b>	<b>NORTHING (Int. Foot)</b>	<b>EASTING (Int. Foot)</b>	<b>ORTHO (US Survey Foot)</b>
10.VVA.HV	585552.026	2061931.882	180.364
14.VVA.HV	574790.088	2009784.768	240.711
15.VVA.HV	547095.962	1993679.425	138.970
16.VVA.HV	578299.077	1960277.620	224.629
2.VVA.HV	569429.115	2049725.886	175.279
22.VVA.HV	648514.980	1972340.518	291.679
24.VVA.HV	634044.032	2009715.602	291.223
28.VVA.HV	741859.017	1989040.555	249.278
29.VVA.HV	715595.907	2010971.622	149.567
3.VVA.HV	541314.707	2053055.052	148.008
31.VVA.HV	679069.651	2042934.086	340.554
32.VVA.HV	668011.426	2063472.463	314.980
35.VVA.HV	669671.404	2116684.801	166.784
39.VVA.HV	593269.260	2153457.964	134.048
48.VVA.HV	552406.546	2217961.995	86.896
59.VVA.HV	644735.387	2228112.167	136.614
60.VVA.HV	647788.139	2249073.382	131.109
69.VVA.HLV	694813.298	2246177.348	109.819
73.VVA.HV	749868.775	2302231.013	94.941
81.VVA.HV	655592.408	2285341.764	92.687
86.VVA.HV	636678.858	2095956.435	181.033

**10.VVA.HV**



**Point ID:** 10.VVA.HV

**Northing:** 585552.026 Int. Foot

**Easting:** 2061931.882 Int. Foot

**Orthometric Height:** 180.364 US Survey Foot

**Latitude:** 33° 26' 33.21536" N

**Longitude:** 80° 47' 49.01134" W

**Ellipsoid Height:** 23.5748 Meters

**14.VVA.HV**



**Point ID:** 14.VVA.HV

**Northing:** 574790.088 Int. Foot

**Easting:** 2009784.768 Int. Foot

**Orthometric Height:** 240.711 US Survey Foot

**Latitude:** 33° 24' 47.31089" N

**Longitude:** 80° 58' 04.54862" W

**Ellipsoid Height:** 41.9432 Meters

**15.VVA.HV**



**Point ID:** 15.VVA.HV

**Northing:** 547095.962 Int. Foot

**Easting:** 1993679.425 Int. Foot

**Orthometric Height:** 138.97 US Survey Foot

**Latitude:** 33° 20' 13.27977" N

**Longitude:** 81° 01' 14.51162" W

**Ellipsoid Height:** 10.9702 Meters



**16.VVA.HV**



**Point ID:** 16.VVA.HV

**Northing:** 578299.077 Int. Foot

**Easting:** 1960277.62 Int. Foot

**Orthometric Height:** 224.629 US Survey Foot

**Latitude:** 33° 25' 21.80048" N

**Longitude:** 81° 07' 48.74001" W

**Ellipsoid Height:** 36.9929 Meters

**2.VVA.HV**



**Point ID:** 2.VVA.HV

**Northing:** 569429.115 Int. Foot

**Easting:** 2049725.886 Int. Foot

**Orthometric Height:** 175.279 US Survey Foot

**Latitude:** 33° 23' 53.89003" N

**Longitude:** 80° 50' 13.37980" W

**Ellipsoid Height:** 22.0311 Meters

**22.VVA.HV**



**Point ID:** 22.VVA.HV

**Northing:** 648514.98 Int. Foot

**Easting:** 1972340.518 Int. Foot

**Orthometric Height:** 291.679 US Survey Foot

**Latitude:** 33° 36' 56.72096" N

**Longitude:** 81° 05' 27.12162" W

**Ellipsoid Height:** 57.5661 Meters

**24.VVA.HV**



**Point ID:** 24.VVA.HV

**Northing:** 634044.032 Int. Foot

**Easting:** 2009715.602 Int. Foot

**Orthometric Height:** 291.223 US Survey Foot

**Latitude:** 33° 34' 33.63634" N

**Longitude:** 80° 58' 05.14889" W

**Ellipsoid Height:** 57.4108 Meters

**28.VVA.HV**



**Point ID:** 28.VVA.HV

**Northing:** 741859.017 Int. Foot

**Easting:** 1989040.555 Int. Foot

**Orthometric Height:** 249.278 US Survey Foot

**Latitude:** 33° 52' 20.43907" N

**Longitude:** 81° 02' 10.00032" W

**Ellipsoid Height:** 44.7544 Meters

**29.VVA.HV**



**Point ID:** 29.VVA.HV

**Northing:** 715595.907 Int. Foot

**Easting:** 2010971.622 Int. Foot

**Orthometric Height:** 149.567 US Survey Foot

**Latitude:** 33° 48' 00.57649" N

**Longitude:** 80° 57' 49.96413" W

**Ellipsoid Height:** 14.283 Meters

### 3.VVA.HV



**Point ID:** 3.VVA.HV

**Northing:** 541314.707 Int. Foot

**Easting:** 2053055.052 Int. Foot

**Orthometric Height:** 148.008 US Survey Foot

**Latitude:** 33° 19' 15.63774" N

**Longitude:** 80° 49' 34.66288" W

**Ellipsoid Height:** 13.7004 Meters

**31.VVA.HV**



**Point ID:** 31.VVA.HV

**Northing:** 679069.651 Int. Foot

**Easting:** 2042934.086 Int. Foot

**Orthometric Height:** 340.554 US Survey Foot

**Latitude:** 33° 40' 09.12346" N

**Longitude:** 80° 47' 28.86306" W

**Ellipsoid Height:** 64.6468 Meters



**32.VVA.HV**



**Point ID:** 32.VVA.HV

**Northing:** 668011.426 Int. Foot

**Easting:** 2063472.463 Int. Foot

**Orthometric Height:** 314.98 US Survey Foot

**Latitude:** 33° 40' 09.12340" N

**Longitude:** 80° 47' 28.86278" W

**Ellipsoid Height:** 64.6561 Meters

**35.VVA.HV**



**Point ID:** 35.VVA.HV

**Northing:** 669671.404 Int. Foot

**Easting:** 2116684.801 Int. Foot

**Orthometric Height:** 166.784 US Survey Foot

**Latitude:** 33° 40' 24.03998" N

**Longitude:** 80° 36' 59.07610" W

**Ellipsoid Height:** 19.3818 Meters

39.VVA.HV

**NO IMAGE  
AVAILABLE**

**Point ID:** 39.VVA.HV

**Northing:** 593269.26 Int. Foot

**Easting:** 2153457.964 Int. Foot

**Orthometric Height:** 134.048 US Survey Foot

**Latitude:** 33° 27' 46.48358" N

**Longitude:** 80° 29' 48.28755" W

**Ellipsoid Height:** 9.3369 Meters

48.VVA.HV

**NO IMAGE  
AVAILABLE**

**Point ID:** 48.VVA.HV

**Northing:** 552406.546 Int. Foot

**Easting:** 2217961.995 Int. Foot

**Orthometric Height:** 86.896 US Survey Foot

**Latitude:** 33° 20' 58.38674" N

**Longitude:** 80° 17' 10.11100" W

**Ellipsoid Height:** -5.3918 Meters

59.VVA.HV

**NO IMAGE  
AVAILABLE**

**Point ID:** 59.VVA.HV

**Northing:** 644735.387 Int. Foot

**Easting:** 2228112.167 Int. Foot

**Orthometric Height:** 136.614 US Survey Foot

**Latitude:** 33° 36' 11.25976" N

**Longitude:** 80° 15' 02.54657" W

**Ellipsoid Height:** 9.827 Meters

60.VVA.HV

**NO IMAGE  
AVAILABLE**

**Point ID:** 60.VVA.HV

**Northing:** 647788.139 Int. Foot

**Easting:** 2249073.382 Int. Foot

**Orthometric Height:** 131.109 US Survey Foot

**Latitude:** 33° 36' 39.89290" N

**Longitude:** 80° 10' 54.40188" W

**Ellipsoid Height:** 8.052 Meters

**69.VVA.HLV**



**Point ID:** 69.VVA.HLV

**Northing:** 694813.298 Int. Foot

**Easting:** 2246177.348 Int. Foot

**Orthometric Height:** 109.819 US Survey Foot

**Latitude:** 33° 44' 25.41264" N

**Longitude:** 80° 11' 24.29139" W

**Ellipsoid Height:** 1.5534 Meters

**73.VVA.HV**



**Point ID:** 73.VVA.HV

**Northing:** 749868.775 Int. Foot

**Easting:** 2302231.013 Int. Foot

**Orthometric Height:** 94.941 US Survey Foot

**Latitude:** 33° 53' 25.29943" N

**Longitude:** 80° 00' 14.14809" W

**Ellipsoid Height:** -3.2515 Meters



**81.VVA.HV**



**Point ID:** 81.VVA.HV

**Northing:** 655592.408 Int. Foot

**Easting:** 2285341.764 Int. Foot

**Orthometric Height:** 92.687 US Survey Foot

**Latitude:** 33° 37' 54.06461" N

**Longitude:** 80° 03' 44.66853" W

**Ellipsoid Height:** -3.8614 Meters

**86.VVA.HV**



**Point ID:** 86.VVA.HV

**Northing:** 636678.858 Int. Foot

**Easting:** 2095956.435 Int. Foot

**Orthometric Height:** 181.033 US Survey Foot

**Latitude:** 33° 34' 58.27530" N

**Longitude:** 80° 41' 05.57790" W

**Ellipsoid Height:** 23.7686 Meters