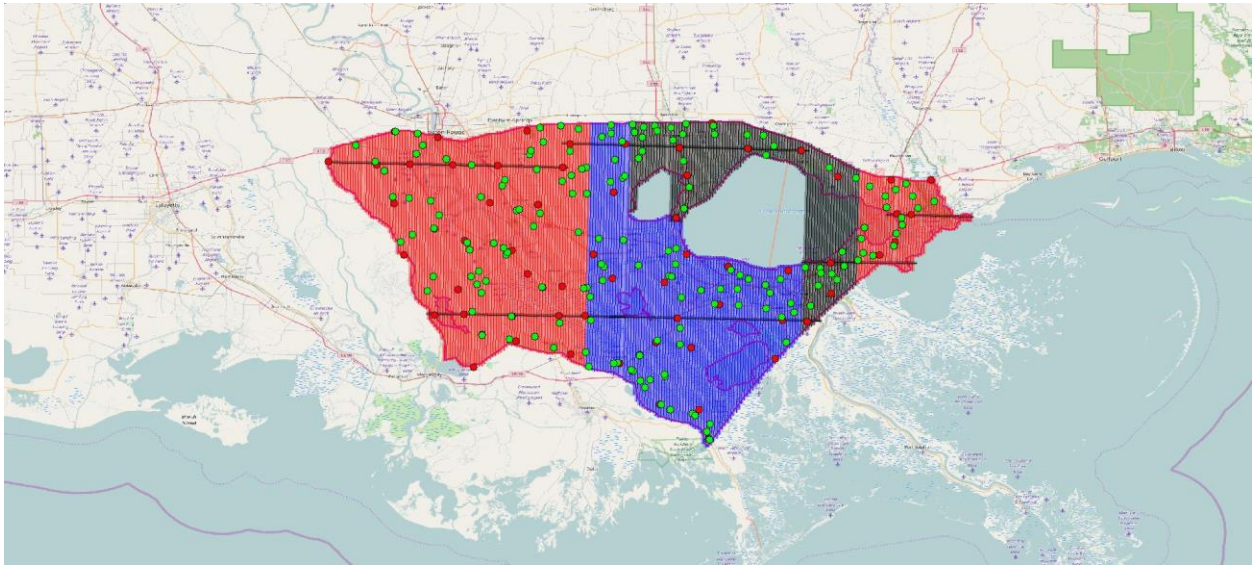


REPORT OF SURVEY

UPPER DELTA PLAIN, LA

USGS LIDAR



Performed by:

TerraSurv

For:



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REPORT OF SURVEY UPPER DELTA PLAIN, LA USGS LIDAR

INTRODUCTION

Terrasurv, Inc of Pittsburgh, PA was tasked by Fugro Earthdata with performing a control survey in support of LiDAR data collection covering southern Louisiana, south of Interstate 12. The project consisted of two parts: ground control (GCP, 62 points) and quality control (VVA/NVA, 175 points). The map below in figure 1 shows the layout of the ground control and quality control stations and the flight lines.

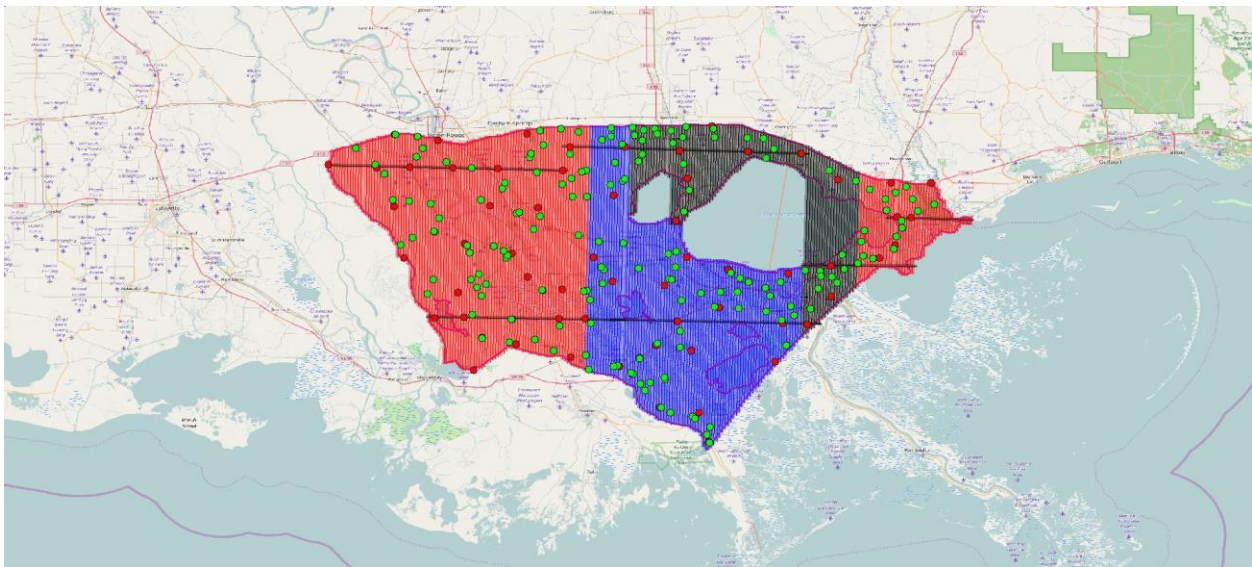


Figure 1 – Flight Lines and Lidar ground control (red) with QC points (green)

The green circles show the locations of the 175 QC points, and the red circles are the locations of the 62 GCP stations.

CONTROL

The National Spatial Reference System (NSRS) was used to provide control for the network. A Virtual Reference System (VRS) was used to survey each of the Lidar control points. GULFNet is a network of Continuously Operating Reference Stations (CORS) network operated by the Louisiana Spatial Reference Center which is tightly aligned with the CORS of the National Spatial Reference System (NSRS). Figure 2 shows the locations of the CORS comprising the GulfNet (red cross in white circle) that were used in this project. Using this methodology and VRS network was crucial to being able to obtain accurate heights due to known subsidence issues with the passive (i.e. ground monumented stations) National Spatial Reference System

(NSRS) marks in the area. Many of the GULFNet stations are also part of the National CORS Network. The horizontal datum was the North American Datum of 1983 – NAD83 (2011), epoch 2010.0. The vertical datum was the North American Vertical Datum of 1988 (NAVD88), realized with GEOID12B. The National Geodetic Survey has the following statement on their GEOID12B page:

Differences between GEOID12A and GEOID12B

The following information is taken from NOAA NGS (<https://www.ngs.noaa.gov/GEOID/GEOID12B/>):

When using the geoid models, please be advised that GEOID12B should supersede previous models GEOID12 and GEOID12A. GEOID12B is identical to GEOID12A everywhere, except in Puerto Rico and Virgin island region. For more detail, please read [Technical details](#).

A new hybrid geoid model has been computed for the Puerto Rico/U.S. Virgin Islands region based on a corrected set of heights. Although the only change to GEOID12A occur in the Puerto Rico/U.S. Virgin Islands region, NGS released an entirely new set of hybrid geoid model grids under the name "GEOID12B." In all areas other than the Puerto Rico/U.S. Virgin Islands region, GEOID12B is identical to GEOID12A.

No new data from Puerto Rico/Virgin Islands were included in the computation of GEOID12B. Observations are currently being collected on approximately 10 new bench marks by our remote sensing team which will be included in the next hybrid geoid model.

The most recent officially released hybrid geoid model, GEOID12B, was used for this project.

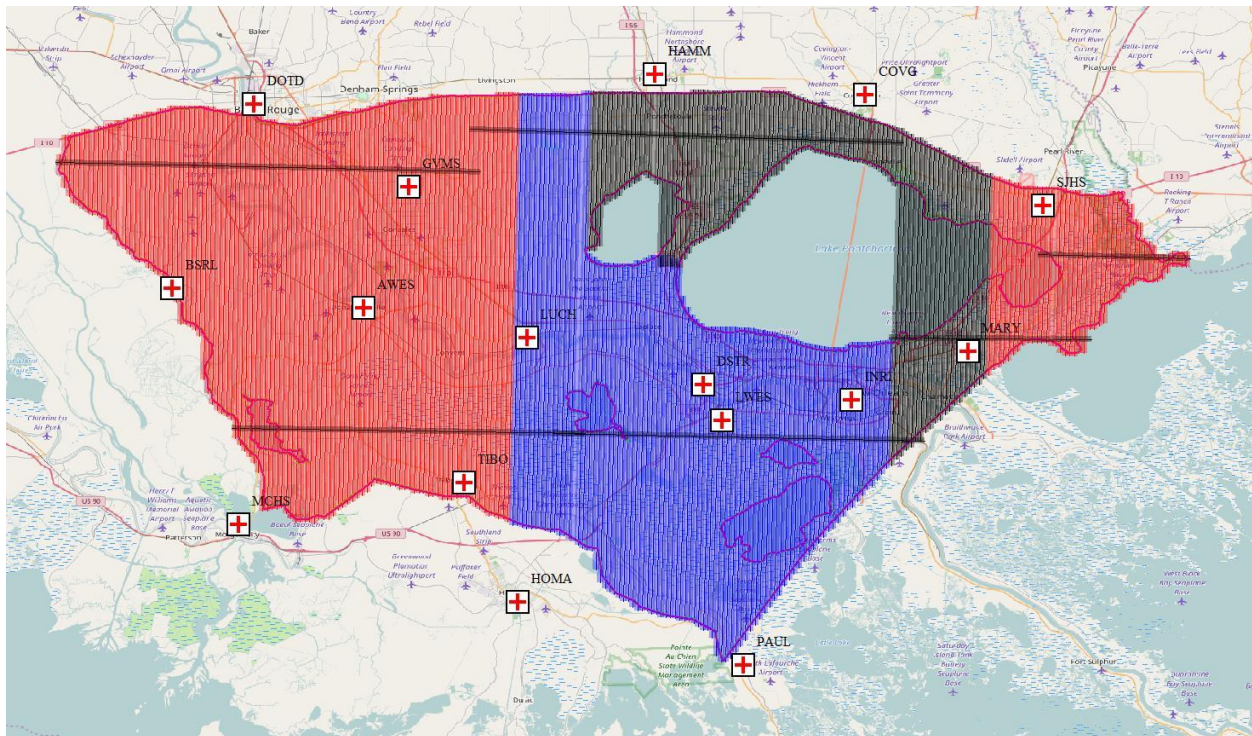


Figure 2 - Continuously Operating Reference Stations (CORS) used

STATIONS

There were a total of 63 GCP stations, 62 as called for in the control layout and one additional station established due to access issues. 175 QC points were requested, consisting of 100 NVA (bare ground, low grass, low brush, etc) and 75 VVA (high brush, forest, woods). There were actually a total of 101 NVA and 78 VVA points surveyed. Table 1 lists the stations established in this survey, including traverse stations that were set to enable survey of points in dense woods, as well as the CORS used.

Table 1 - Station List

| Station Name | GPSID | USGS Quad | Description |
|---------------|---------|---------------------|---|
| AWES | AWES | DONALDSONVILL E | CORS |
| BSRL | BSRL | BAYOU SORREL | CORS |
| COVG | COVG | COVINGTON | CORS |
| DOTD | DOTD | BATON ROUGE WEST | CORS |
| DSTR | DSTR | HAHNVILLE | CORS |
| GCP01 | 17002AA | COW BAYOU | center of dirt road on east side of levee, west side of river |
| GCP02 | 17002AB | ADDIS | Bare ground on west side of SR77 at center of field entrance. Note: slightly south of plotted cross tie flight line, see GCP02A for alternate if needed |
| GCP02A | 17002CY | GROSSE TETE SW | grass/edge of pavement on west side of SR 77. Note: this is an alternate point for GCP02, which may be outside of the cross tie coverage |
| GCP03 | 17002AC | BAYOU SORREL | bare ground on south side of Intracoastal Road at center of entrance to shipyard |
| GCP04 | 17002AD | PIGEON | mowed grass on north side of Bayou Pigeon Road, west side of parking lot |
| GCP05 | 17002AE | ADDIS | mowed grass on west side of parking lot for church on south side of Myhand Street |
| GCP06 | 17002AF | PIERRE PART | mowed grass in vacant lot on south side of Bayou Tranquille Street and north side of canal |
| GCP07 | 17002AG | BATON ROUGE WEST | mowed grass on west side of church parking lot and north side of Education Street |
| GCP08 | 17002AH | WHITE CASTLE | bare ground in road crossing tracks on west side of SR1 opposite Eureka Road to the east |
| GCP09 | 17002AI | PLAQUEMINE | center of mowed grass area in NW quadrant of intersection of Amanda Drive and Leake Avenue |
| GCP10 | 17002AJ | NAPOLEONVILLE | bare ground in middle of gravel road SR 402 (St Vincent Road) |
| GCP11 | 17002AK | BELLE ROSE | bare ground on south side of Myles Road at north edge of gravel field loading pad |
| GCP12 | 17002AL | NAPOLEONVILLE | bare ground on NW side of SR401 Canal Road at field entrance |
| GCP13 | 17002AM | AMELIA | bare ground on north side of SR 663 near SW corner of field |
| GCP14 | 17002AN | CARVILLE | sparse ground on SW side of SR 30 near NW corner of vacant lot and NE corner of fenced area |
| GCP15 | 17002AO | PRAIRIEVILLE | mowed grass on NE side of US 61, NW side of entrance to storage business |
| GCP16 | 17002AP | DONALDSONVILL E | bare ground in industrial area on north side of SR 70, west of RR tracks |
| GCP17 | 17002AQ | MADEWOOD | sparse grass in area between fields at east side of pond, south side of trees, north side of canal |
| GCP18 | 17002AR | LABADIEVILLE | bare ground on south side of SR 645 just east of dwellings |
| GCP19 | 17002AS | DENHAM SPRINGS | mowed grass in median of cul-de-sac at west end of Caddo Drive |
| GCP20 | 17002AT | DONALDSONVILL | bare ground on NE side of SR3127 in middle of access road |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|-------------------|--|
| | | E | to well |
| GCP21 | 17002AU | SORRENTO | mowed grass in traingle formed by N-S SR 431, E-W SR 429, and bank parking lot |
| GCP22 | 17002AV | LAGAN | mowed grass in park on east side of parking lot, south of ball fields, NW side of SR 20 |
| GCP23 | 17002AW | FRENCH SETTLEMENT | mowed grass in SE corner of yard for #17445 Pleasant Hill Drive |
| GCP24 | 17002AX | LAGAN | center of dirt road (Chopin Road) about 0.9 miles north of SR 3127 |
| GCP25 | 17002AY | WALKER | bare ground/sparse grass on west side of S Satsuma Road on east side of vacant lot |
| GCP26 | 17002AZ | THIBODAUX | bare ground on NW side of Throughbred Park Drive at gated drive |
| GCP27 | 17002BA | MOUNT AIRY NW | bare ground on crossover in median of I-10 |
| GCP28 | 17002BB | LUTCHER | bare ground at north end of road to transfer station, east side of road |
| GCP29 | 17002BC | LOWER VACHERIE | mowed grass on west side of SR 307 just south of dirt drive to the west, near NE corner of field |
| GCP30 | 17002BD | WHITEHALL | bare ground in gravel parking area in SE quadrant of intersection of Black Lake Club Road and Hanna Road |
| GCP31 | 17002BE | LOWER VACHERIE | bare ground on north side of SR 3127 |
| GCP32 | 17002BF | LOCKPORT | mowed grass on west side of Levis Lane in vacant lot |
| GCP33 | 17002BG | SPRINGFIELD | bare ground on west side of Church Of God Road, north of SR 1037 |
| GCP34 | 17002BH | RESERVE | bare ground on crossover in median of I-10 |
| GCP35 | 17002BI | BAYOU BOEUF | bare ground on SE side of US90 at gated road to the SE along canal |
| GCP36 | 17002BJ | LAROSE | mowed grass between driveways on west side of SR 1 |
| GCP37 | 17002BK | HAHNVILLE | bare ground on west side of access road to substation north of SR 3127 |
| GCP38 | 17002BL | RUDDOCK | bare ground in center of dirt drive on east side of Old US 51 |
| GCP39 | 17002BM | PONCHATOULA | asphalt shoulder of I-55 NB on ramp, opposite dirt road to the east |
| GCP40 | 17002BN | DES ALLEMANDS | grass on NW side of Barber Road |
| GCP41 | 17002BO | MANCHAC | grass on east side of Old US51 and north side of entrance to Port Manchac Distribution Center, west of RR tracks |
| GCP42 | 17002BP | LAPLACE | center of dirt road on SE side of canal, south of I-10 |
| GCP43 | 17002BQ | CUT OFF | bare ground on west side of SR657 just south of gate |
| GCP44 | 17002BR | PONCHATOULA NE | sparse grass on east side of Merchant Court |
| GCP45 | 17002BS | GOLDEN MEADOW | bare ground in middle of field entrance road on east side of SR 3235 |
| GCP46 | 17002BT | LULING | bare ground on sand sand road on south side of service road on south side of US 90 near levee road entrance. See also GCP46A |
| GCP46A | 17002CZ | DES ALLEMANDS | bare ground on west edge of SR 306 near north end in bayou |
| GCP47 | 17002BU | LA BRANCHE | pavement in middle of cul-de-sac in W Grandlake Boulevard where road turns from N-S to E-W |
| GCP48 | 17002BV | MADISONVILLE | mowed grass on west side of Grand Rue Port Louis Road and south side of gated entrance drive to Madisonville on the Lake |
| GCP49 | 17002BW | BERTRANDVILLE | mowed grass field on north side of Bayou Estate Blvd and west side of Ames Blvd |
| GCP50 | 17002BX | BARATARIA | mowed grass in vacant lot on north side of Madeline Lane |
| GCP51 | 17002BY | SPANISH FORT | mowed grass in vacant lot on east side of Dove Street |
| GCP52 | 17002BZ | COVINGTON | pavement in center of intersection of Oak Island Drive and Cascade Court |
| GCP53 | 17002CA | BERTRANDVILLE | mowed grass on north side of Harvey Blvd and west side of Wall Blvd |
| GCP54 | 17002CB | LITTLE WOODS | mowed grass on south side of I-10 EB exit ramp to Bullard Avenue |
| GCP55 | 17002CC | CHALMETTE | grass in vacant block on north side of E Solidell Street between Buffon Street and Tournefort Street |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|------------------|--|
| GCP56 | 17002CD | LACOMBE | sparse grass and sand parking area on north side of US 190 and west side of 8th Street |
| GCP57 | 17002CE | CHEF MENTEUR | bare ground in gravel parking lot on east side of Burton Road at north end |
| GCP58 | 17002CF | SLIDELL | bare ground in gravel parking lot for Gas and Supply on west side of US 11 opposite intersection with North Blvd |
| GCP59 | 17002CG | CHEF MENTEUR | bare ground in parking pad at raised utility boxes on east side of US 90 |
| GCP60 | 17002CH | RIGOLETS | bare ground on gravel drive apron on east side of US 90 at #52720 |
| GCP61 | 17002CI | HAASWOOD | grass on north shoulder of I-10 just west of Pearl River overpass |
| GCP62 | 17002CJ | NORTH SHORE | sand/grass area on north side of Salt Bayou Road and west side of SR 433 |
| GVMS | GVMS | PRAIRIEVILLE | CORS |
| HAMM | HAMM | HAMMOND | CORS |
| HOMA | HOMA | HOUMA | CORS |
| INRI | INRI | NEW ORLEANS EAST | CORS |
| LUCH | LUCH | LUTCHER | CORS |
| LWES | LWES | LULING | CORS |
| MARY | MARY | LITTLE WOODS | CORS |
| MCHS | MCHS | MORGAN CITY | CORS |
| NVA001 | 17002DA | NEW ORLEANS WEST | sparse grass on east side of a canal and south of Amanda Street |
| NVA002 | 17002DB | NEW ORLEANS WEST | vacant grass lot on the north side of US61 |
| NVA003 | 17002DC | NEW ORLEANS EAST | grass median of I10 and I610 interchange on the south die of I610 E exit to Canal Ave |
| NVA004 | 17002DD | SPANISH FORT | grass area between a set of RR tracks and Leon C Simon Drive |
| NVA005 | 17002DE | LITTLE WOODS | grass area on the south side of the exit from I10 to Crowder Blvd |
| NVA006 | 17002DF | LITTLE WOODS | grass median in Almonaster Ave |
| NVA007 | 17002DH | NEW ORLEANS EAST | grass in park on east side of Delery Street and north side of Law Street |
| NVA008 | 17002DI | NEW ORLEANS EAST | grass in vacant lot on north side of Tchoupitoulas Street and west side of Pleasant Street |
| NVA009 | 17002HA | INDIAN BEACH | mowed grass on east side of off ramp from Airport Road to Veterans Memorial Boulevard |
| NVA010 | 17002DK | BERTRANDVILLE | center of grass median along Lafitte Larose Hwy |
| NVA011 | 17002DM | NEW ORLEANS EAST | concrete parking lot on the north side of Lapalco Blvd and east side of Ames Blvd |
| NVA012 | 17002DN | NEW ORLEANS WEST | grass field on the side of parking lot and east of Segnette Blvd |
| NVA013 | 17002HC | LULING | mowed grass on west side of I-310 just south of bridge and power line crossing |
| NVA014 | 17002DP | LULING | grass in vacant lot on SW corner of intersection of Kerner Ave and River Road |
| NVA015 | 17002DQ | NEW ORLEANS WEST | gravel area on south side of oil tank facility and on north side of levee |
| NVA016 | 17002DR | LITTLE WOODS | asphalt/sparse grass in vacant lot on south side of US 90 opposite Werner Drive |
| NVA017 | 17002DS | LITTLE WOODS | grass area on south side of US 90 and in front of King Hung Shrine |
| NVA018 | 17002DT | LITTLE WOODS | center of gravel parking for boat ramp at Sauvage Wildlife Reserve |
| NVA019 | 17002DU | CHEF MENTEUR | gravel parking for boat access to Bayou Sauvage National Wildlife Refuge on west side of US 11 |
| NVA020 | 17002HE | BAYOU BOEUF | bare ground on NW side of US 90 opposite X-over |
| NVA021 | 17002HF | BAYOU BOEUF | bare ground at intersection of SR 182 and off ramp from US 90 on north side of SR 182 and east side of off ramp |
| NVA022 | 17002HH | LOCKPORT | mowed grass in cemetary on north side of SR 308, point is near SW corner of cemetary, just east of field edge |
| NVA023 | 17002DY | CHEF MENTEUR | concrete area from an old gas station at the split of US |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|-------------------|--|
| | | | 90 and US 11 |
| NVA024 | 17002EB | NORTH SHORE | gravel drive on west side of US 90 |
| NVA025 | 17002EC | RIGOLETS | gravel shoulder on east side of US 90 just north of Ft Pike Fire Department |
| NVA026 | 17002EE | RIGOLETS | gravel shoulder on NW side of intersection of US 90 and Apple Pie Ridge Road |
| NVA027 | 17002EF | RIGOLETS | gravel parking area on SE side of US 90 and south of Middle River at boat ramp |
| NVA028 | 17002EG | HAASWOOD | grass island on east side of Cross Gates Blvd at Shell Gas Station |
| NVA029 | 17002EH | HAASWOOD | grass area on west side of US 190 and north of entrance drive to Tammany Mobile Home Park |
| NVA030 | 17002EI | SLIDELL | gravel/sparse grass area on north side of Panera Bread and south side of US 190 Business |
| NVA031 | 17002EJ | SLIDELL | grass on SE side of US 11 and south of Westchester Blvd |
| NVA032 | 17002EN | MADISONVILLE | gravel in vacant lot on south side of SR 22 |
| NVA033 | 17002EO | MADISONVILLE | gravel parking area for boat launch at end of SR 1077 (Main Street) |
| NVA034 | 17002ER | PONCHATOULA | sparse grass and sand area on north side of Dr John Lambert Drive |
| NVA035 | 17002ET | PONCHATOULA | grass in lot on south side of drive and west side of US 51 Business |
| NVA036 | 17002EU | MANCHAC | gravel pull off on west side of Old US 51 |
| NVA037 | 17002EV | MANCHAC | gravel parking area for road side park on west side of US 51 |
| NVA038 | 17002EW | RUDDOCK | grass on east shoulder of Old US 51 and on north side of dirt drive to storage tank site |
| NVA039 | 17002EY | FROST | gravel/sparse grass on north side of Oliver Wheat Road just east of intersection with S Frost Road |
| NVA040 | 17002EZ | WALKER | gravel pull off at vacant lot between SR 42 and S Satsuma Road |
| NVA041 | 17002FA | WALKER | grass on south side of Lee Ann Court and north edge of pond |
| NVA042 | 17002FE | FROST | GRASS= center of traffic island at the entrance ramp to I12E off SR441 |
| NVA043 | 17002FG | SPRINGFIELD | grass field on north side of parking for American Legion east of SR 43 |
| NVA044 | 17002FL | SPRINGFIELD | gravel parking area on west side of SR 22 and south of Tiboe Place |
| NVA045 | 17002FO | WHITEHALL | concrete parking lot for church on north side of SR 444 |
| NVA046 | 17002FP | FRENCH SETTLEMENT | east side of grass island at cul du sac for Plantation Trace Drive |
| NVA047 | 17002FQ | FRENCH SETTLEMENT | gravel area on north side of concrete parking lot for church and west of cemetery |
| NVA048 | 17002FR | FRENCH SETTLEMENT | concrete parking in front of First Baptist Church on north side of Advants Road east of SR 22 |
| NVA049 | 17002FV | FRENCH SETTLEMENT | grass on south side of John Ealy Road and north side of church and west side of SR 933 |
| NVA050 | 17002FW | DENHAM SPRINGS | gravel pull off on north side of Fontenot Road and southwest side of 4H Club Road |
| NVA051 | 17002HJ | LOCKPORT | bare ground/old asphalt on west side of SR 308 |
| NVA052 | 17002HL | LAROSE | bare ground on SW side of SR 657 (E Main Street) just east of 90° bend to the north |
| NVA053 | 17002HM | CUT OFF | bare ground on west side of SR 3235 at gated field road |
| NVA054 | 17002HO | SAVOIE | mowed grass on south side of SR 1, east side of parking lot for meat market |
| NVA055 | 17002HP | KRAEMER | bare ground on north side of Bushgrove Road |
| NVA056 | 17002HQ | LABADIEVILLE | mowed grass on north side of parking area in NW quadrant of intersection of SR 1 and bridge across canal |
| NVA057 | 17002HR | LABADIEVILLE | bare ground on east side of SR 398 in middle of field road |
| NVA058 | 17002HT | THIBODAU | bare ground in center of field road on east side of SR 20 |
| NVA059 | 17002HU | KRAEMER | bare ground in parking area for business on north side of SR 307 |
| NVA060 | 17002HV | LOWER VACHERIE | bare ground on south side of SR 20 |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|------------------|--|
| NVA061 | 17002HW | LOWER VACHERIE | bare ground in middle of field road on north side of SR 3127 |
| NVA062 | 17002HZ | LAGAN | bare ground in middle of field road on north side of SR 3127 |
| NVA063 | 17002IA | DONALDSONVILLE | asphalt island between SR 3127 left turn lane and right turn lane at east side of SR 70 |
| NVA064 | 17002IC | DONALDSONVILLE | bare ground in middle of field access on NE side of SR3089 |
| NVA065 | 17002ID | BELLE ROSE | mowed grass in church yard on north side of SR 1 |
| NVA066 | 17002IF | BELLE ROSE | bare ground in field access on north side of SR 943 |
| NVA067 | 17002IG | BELLE ROSE | mowed grass on east side of church parking lot on north side of SR 1003 |
| NVA068 | 17002IH | NAPOLEONVILLE | bare ground in dirt field road on east side of SR 403 |
| NVA069 | 17002II | NAPOLEONVILLE | bare ground on south side of Glenwood Road |
| NVA070 | 17002IJ | NAPOLEONVILLE | bare ground on south side of SR 401 in field access road |
| NVA071 | 17002IL | BELLE ROSE | bare ground in middle of well access road on north side of SR 70 |
| NVA072 | 17002IM | LONE STAR | bare ground in middle of dirt drive to lot in NE quadrant of intersection of SR 70 and Lee Drive |
| NVA073 | 17002IN | PIERRE PART | mowed grass on east side of SR 70 at field entrance |
| NVA074 | 17002IO | PIGEON | mowed grass on SE side of SR 75 on north side of library parking lot |
| NVA075 | 17002IP | BAYOU SORREL | bare ground in middle of gated drive on north side of SR 404 |
| NVA076 | 17002IQ | WHITE CASTLE | bare ground in SE quadrant of intersection of SR 994 and Ridge Road |
| NVA077 | 17002IT | WHITE CASTLE | bare ground in center of access to pump station on east side of SR 1 |
| NVA078 | 17002IU | BAYOU SORREL | bare ground in NE quadrant of intersection of SR 75 and Milly Plantation Road |
| NVA079 | 17002IV | ADDIS | mowed grass on west side of Intracoastal Road |
| NVA080 | 17002IX | LOBDELL | bare ground in middle of gated field access road on south side of frontage road on south side of I-10 |
| NVA081 | 17002JA | BATON ROUGE WEST | gravel on west side of I-10 Frontage Road and west side of S Lobdell Highway |
| NVA082 | 17002JC | BATON ROUGE WEST | mowed grass between SR 1 NB lanes and service road on SE side of road |
| NVA083 | 17002JE | SAINT GABRIEL | mowed grass in park on south side of SR 42, south side of parking lot, in between ball fields |
| NVA084 | 17002JG | PRAIRIEVILLE | bare ground in large vacant lot on west side of SR 73 |
| NVA085 | 17002JI | GONZALES | bare ground on south side of SR 30 in middle of drive to sewer lift station |
| NVA086 | 17002JJ | SORRENTO | concrete parking lot for cancer center on NE side of US 61 |
| NVA087 | 17002JL | LUTCHER | concrete island on off ramp from I-10EB between left turn lane for SR 641 NB and right turn lane for SR 641 SB |
| NVA088 | 17002JN | LUTCHER | bare ground in center of road on top of levee on north side of SR 18 opposite Woodville Road to the south |
| NVA089 | 17002JP | RESERVE | bare ground in field access on west side of SR 640 |
| NVA090 | 17002JT | DES ALLEMANS | bare ground on east side of SR 306 to gated field road on south side of canal |
| NVA091 | 17002JU | LAPLACE | grass island on off ramp from I-10 WB, between right turn lane to US 51 NB and left turn lane to US 51 SB |
| NVA092 | 17002JX | LAPLACE | bare ground on NE side of US 61 |
| NVA093 | 17002KA | LAPLACE | bare ground on north side of SR 628 on east side of entrance to park parking area |
| NVA094 | 17002KE | GHEENS | gravel road to park pavillion on west side of SR 654 |
| NVA095 | 17002KK | LAROSE | bare ground on north side of SR 1 at boat dock |
| NVA096 | 17002KN | GRASSY LAKE | gravel road circle at south end of SR 1012 |
| NVA097 | 17002KQ | ADDIS | bare ground in middle of drive to radio tower on west side of SR 77 |
| NVA098 | 17002KR | GROSSE TETE | bare ground in loading area on north side of fields, south side of Cedar Street |
| NVA099 | 17002FC | WALKER | grass field on west side of S Satsuma Road and north side of Spring Ranch Road |

| Station Name | GPSID | USGS Quad | Description |
|--------------|----------|------------------|---|
| NVA100 | 17002FI | SPRINGFIELD | sparse weeds on west side of Pumpkin Center Road and north of NOLA Pizza |
| NVA101 | 17002FJ | SPRINGFIELD | grass and weeds in a vacant lot on west side of September Rain Drive |
| PAUL | PAUL | GOLDEN MEADOW | CORS |
| SJHS | SJHS | SLIDELL | CORS |
| TIBO | TIBO | THIBODAUX | CORS |
| TRAVERSE | 17002SC | PONCHATOULA | Traverse station for woods VVA point |
| TRAVERSE | 17002SD | PONCHATOULA NE | Traverse station for woods VVA point |
| TRAVERSE | 17002SE | MADISONVILLE | Traverse station for woods VVA point |
| TRAVERSE | 17002SF | FROST | Traverse station for woods VVA point |
| TRAVERSE | 17002SG | KILLIAN | Traverse station for woods VVA point |
| TRAVERSE | 17002SH | DENHAM SPRINGS | Traverse station for woods VVA point |
| TRAVERSE | 17002SI | CARVILLE | Traverse station for woods VVA point |
| TRAVERSE | 17002SJ | GONZALES | Traverse station for woods VVA point |
| TRAVERSE | 17002SK | WHITEHALL | Traverse station for woods VVA point |
| TRAVERSE | 17002XC | PONCHATOULA | Traverse station for woods VVA point |
| TRAVERSE | 17002XD | PONCHATOULA NE | Traverse station for woods VVA point |
| TRAVERSE | 17002XE | MADISONVILLE | Traverse station for woods VVA point |
| TRAVERSE | 17002XF | FROST | Traverse station for woods VVA point |
| TRAVERSE | 17002XG | KILLIAN | Traverse station for woods VVA point |
| TRAVERSE | 17002XH | DENHAM SPRINGS | Traverse station for woods VVA point |
| TRAVERSE | 17002XI | CARVILLE | Traverse station for woods VVA point |
| TRAVERSE | 17002XJ | GONZALES | Traverse station for woods VVA point |
| TRAVERSE | 17002XK | WHITEHALL | Traverse station for woods VVA point |
| VRS_0315 | VRS_0315 | NEW ORLEANS WEST | VIRTUAL CORS |
| VVA001 | 17002DG | CHALMETTE | BRUSH: area on the west side of LA 47 opposite Eddie Pinto's Marina |
| VVA002 | 17002DL | NEW ORLEANS EAST | uncut vacant lot on the northeast side of Peters Road |
| VVA003 | 17002DZ | CHEF MENTEUR | BRUSH: on south side of US 90 |
| VVA004 | 17002EA | CHEF MENTEUR | BRUSH: on east side of US 90 in a vacant lot |
| VVA005 | 17002ED | RIGOLETS | BRUSH: on southwest side of a small pump station on the south side of Old Spanish Trail |
| VVA006 | 17002EK | SLIDELL | vacant area on the southeast side of SR 433 |
| VVA007 | 17002EL | LACOMBE | vacant lot on the north side of US 190 |
| VVA008 | 17002EM | LACOMBE | WOODS: pines on west side of Ordogne Ruppert Road opposite a tower site |
| VVA009 | 17002EP | MADISONVILLE | BRUSH: brushy area on north side of Raiford Oaks Blvd |
| VVA010 | 17002EQ | PONCHATOULA NE | large brushy vacant lot on the north side of SR22 opposite SR445 |
| VVA011 | 17002ES | PONCHATOULA | BRUSH: brushy lot on north side of SR 22 |
| VVA012 | 17002EX | SPRINGFIELD | BRUSH: brushy area on south side of Church of God Road |
| VVA013 | 17002FB | WALKER | low brush on west side of Walker South Road and north of drive to medical center |
| VVA014 | 17002FD | FROST | field on the south side of SR 42 |
| VVA015 | 17002FF | SPRINGFIELD | uncut field on SE side of Strawberry Lane east of SR 43 |
| VVA016 | 17002FH | SPRINGFIELD | brush on NW side of SR 22 on SE side of stream |
| VVA017 | 17002FK | PONCHATOULA | field on NE corner of Happywoods Road and Hoffman Road |
| VVA018 | 17002FM | KILLIAN | west shoulder of SR 22 |
| VVA019 | 17002FN | WHITEHALL | low brush area on west side of SR 22 |
| VVA020 | 17002FS | KILLIAN | tall grass on south shoulder of SR 22 just north of Amite River Bridge |
| VVA021 | 17002FT | WHITEHALL | uncut field on north side of SR 22 just east of Bear Island Road |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|------------------|--|
| VVA022 | 17002FU | WHITEHALL | weeds at western end of gravel lot on west side of SR 22 and south of Live Oak Street |
| VVA023 | 17002HB | LA BRANCHE | unmowed vacant lot on south side of W Esplanade Avenue across from hospital |
| VVA024 | 17002HD | DES ALLEMANDS | tall vegetation on NW side of US 90 |
| VVA025 | 17002HG | BAYOU BOEUF | unmowed vacant lot on south/east side of SR 182 just west of intersection with US 90 |
| VVA026 | 17002HI | LOCKPORT | BRUSH: weeds/briars/tall brush on SW side of SR 308 |
| VVA027 | 17002HK | LAROSE | high weeds in vacant lot in NE quadrant of intersection of SR 308 and Le Village Drive |
| VVA028 | 17002HN | LOCKPORT | high weeds in vacant lot on north side of SR 1, south bank of canal |
| VVA029 | 17002HS | MADEWOOD | WOODS between fields at east end of Valance Road |
| VVA030 | 17002HX | LOWER VACHERIE | high grass on south side of SR 3127 |
| VVA031 | 17002IB | DONALDSONVILLE | high weeds on east side of SR 70 just SW of entrance to plant |
| VVA032 | 17002IK | NAPOLEONVILLE | high grass/weeds on south side of SR 401 on east side of field road |
| VVA033 | 17002IR | WHITE CASTLE | high grass on south side of SR 994 at 90° bend to the north from Ourso Road to Catherine Road |
| VVA034 | 17002IS | WHITE CASTLE | high grass in median of SR 1 just north of Eureka Road cross-over |
| VVA035 | 17002IY | LOBDELL | unmowed grass on south side of south frontage road of I-10 |
| VVA036 | 17002IZ | BATON ROUGE WEST | unmowed grass in median of S Lobdell Highway |
| VVA037 | 17002JB | BATON ROUGE WEST | high weeds in vacant lot on east side of Vaughn Drive |
| VVA038 | 17002JD | PLAQUEMINE | unmowed gas pipeline right-of-way |
| VVA039 | 17002JF | PRAIRIEVILLE | high brush in vacant lot on east side of SR 73, south side of RR |
| VVA040 | 17002JH | GONZALES | weeds and low brush in vacant lot on east side of S Darla Avenue |
| VVA041 | 17002JK | MOUNT AIRY NW | high grass in median of I-10 on west side of cross-over |
| VVA042 | 17002JM | LUTCHER | high grass between SR 3213 and off ramp from SR 3213 southbound |
| VVA043 | 17002JO | LOWER VACHERIE | high grass and weeds on south side of SR 3127 |
| VVA044 | 17002JQ | RESERVE | top of planted row of crops on west side of SR 640 |
| VVA045 | 17002JR | HAHNVILLE | unmowed grass in median of SR 3127 |
| VVA046 | 17002JS | DES ALLEMANDS | high weeds and brush in vacant lot on NE side of 90° curve of SR 306 |
| VVA047 | 17002JV | LAPLACE | weeds in NE quadrant of intersection of off ramp from I-10 WB and US 51 |
| VVA048 | 17002JW | RESERVE | high grass in median of I-10 on west side of cross-over |
| VVA049 | 17002JY | LAPLACE | weeds and low brush on SE side of US 51 opposite Bamboo Road to the NW |
| VVA050 | 17002JZ | LAPLACE | unmowed brush on south side of levee on north side of Mississippi River, east side of road to water intake |
| VVA051 | 17002KB | LULING | overgrown vacant lot on west side of Almedia Road |
| VVA052 | 17002KC | LULING | brush and marsh area on south side of US 90 and west side of parking lot for club |
| VVA053 | 17002KD | LOCKPORT | uncut field at NW end of Ford Drive |
| VVA054 | 17002KF | GHEENS | high grass in vacant lot on west side of SR 654 |
| VVA055 | 17002KG | LOCKPORT | high grass on north side of SR 654 |
| VVA056 | 17002KH | LAROSE | high grass and weeds on east side of SR 308 |
| VVA057 | 17002KI | CUT OFF | high grass and weeds at SW corner of field, north side of E 35th Street |
| VVA058 | 17002KJ | GOLDEN MEADOW | high grass and weeds on east side of SR 3235 |
| VVA059 | 17002KL | SAVOIE | unmowed grass on east side of Grandmaw Lane |
| VVA060 | 17002KM | THIBODAUX | high grass in vacant lot on south side of Plantation Road between Ridgefield Avenue and Canal Blvd |
| VVA061 | 17002KO | GRASSY LAKE | overgrown field at south end of SR 1012 |

| Station Name | GPSID | USGS Quad | Description |
|--------------|---------|------------------|---|
| VVA062 | 17002KP | NAPOLEONVILLE | high grass and weeds on south side of SR 1, west side of field road south |
| VVA063 | 17002IE | BELLE ROSE | BRUSH: high brush and briars on east side of road under power lines |
| VVA064 | 17002DJ | NEW ORLEANS EAST | uncut grass area between north side of Homes Blvd and canal |
| VVA065 | 17002DO | NEW ORLEANS WEST | high grass area on north side of US 90 just west of dirt drive to dump site |
| VVA066 | 17002DV | NORTH SHORE | unmowed grass on SE side of exit 261 from I-10 EB |
| VVA067 | 17002DW | NORTH SHORE | north shoulder of I-10 WB on ramp from US 11 |
| VVA068 | 17002DX | LITTLE WOODS | uncut grass in center of median island at exit 248 I-10 |
| VVA069 | 17002HY | LAGAN | high grass and weeds on south side of SR 3127 |
| VVA070 | 17002WC | PONCHATOULA | woods on west side of westerly I-55 service road/south side of entrance to factory building |
| VVA071 | 17002WD | PONCHATOULA NE | woods on south side of Eagle Drive and west side of S Falcon Drive |
| VVA072 | 17002WE | MADISONVILLE | woods on south side of Post Oak Drive and west side of Turnpike Road |
| VVA073 | 17002WF | FROST | woods on west side of SR 441 |
| VVA074 | 17002WG | KILLIAN | woods on SE side of vacant lot on SE side of SR 22 |
| VVA075 | 17002WH | DENHAM SPRINGS | woods on NE side of SR 16 just south of Rolling Acres Drive to the west |
| VVA076 | 17002WI | CARVILLE | woods on west side of SR 3115 |
| VVA077 | 17002WJ | GONZALES | woods on NE side of Panama Road |
| VVA078 | 17002WK | WHITEHALL | woods on west side of Old Frost Road |

METHODOLOGY

The field survey was done by using the GULFNet Virtual Reference Station Network. In the VRS method, a GPS receiver (Trimble R8 GNSS and R10 dual frequency receivers were used) equipped with a data connection is used as a rover to occupy each survey point. Data is received via the cellular network for a “virtual” reference station nearby. The data is processed in real time to compute a position and elevation for the unknown station. The rover is positioned from the nearest physical CORS point and the vector data is stored in a data collector as a vector from this position, along with statistical data for the solution. Each point was surveyed two times in succession, separated by a new initialization. Table 2 summarizes the VRS data, precisions in meters):

Table 2 - VRS Occupation Summary

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| BSRL | 17002AA | 02/22/2017 00:21:32 | 00:23:31 | 0.007 | 0.014 | 15 | 1.6 |
| BSRL | 17002AA | 02/22/2017 00:24:20 | 00:26:19 | 0.006 | 0.013 | 14 | 1.7 |
| DOTD | 17002AB | 02/21/2017 23:42:23 | 23:44:22 | 0.008 | 0.014 | 11 | 2.1 |
| DOTD | 17002AB | 02/21/2017 23:44:46 | 23:46:52 | 0.015 | 0.025 | 11 | 2.0 |
| DOTD | 17002AB | 02/21/2017 23:47:18 | 23:49:17 | 0.015 | 0.028 | 8 | 2.1 |
| BSRL | 17002AC | 02/21/2017 23:10:11 | 23:12:10 | 0.007 | 0.013 | 15 | 1.3 |
| BSRL | 17002AC | 02/21/2017 23:12:23 | 23:14:22 | 0.005 | 0.010 | 13 | 1.9 |
| BSRL | 17002AD | 02/21/2017 21:00:34 | 21:02:33 | 0.007 | 0.012 | 15 | 1.5 |
| BSRL | 17002AD | 02/21/2017 21:02:46 | 21:04:45 | 0.006 | 0.009 | 15 | 1.5 |
| DOTD | 17002AE | 02/22/2017 14:17:09 | 14:19:08 | 0.005 | 0.010 | 16 | 1.4 |
| DOTD | 17002AE | 02/22/2017 14:19:23 | 14:21:22 | 0.005 | 0.010 | 16 | 1.4 |
| MCHS | 17002AF | 02/21/2017 20:32:01 | 20:34:00 | 0.005 | 0.009 | 15 | 1.4 |
| MCHS | 17002AF | 02/21/2017 20:34:12 | 20:36:11 | 0.006 | 0.009 | 14 | 1.5 |
| DOTD | 17002AG | 02/22/2017 15:02:39 | 15:04:38 | 0.003 | 0.005 | 13 | 1.8 |
| DOTD | 17002AG | 02/22/2017 15:04:50 | 15:06:49 | 0.005 | 0.010 | 14 | 1.5 |
| BSRL | 17002AH | 02/21/2017 22:14:44 | 22:16:43 | 0.008 | 0.018 | 13 | 1.8 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| BSRL | 17002AH | 02/21/2017 22:17:01 | 22:19:00 | 0.005 | 0.013 | 14 | 1.8 |
| DOTD | 17002AI | 02/22/2017 15:39:15 | 15:42:58 | 0.004 | 0.008 | 13 | 1.4 |
| DOTD | 17002AI | 02/22/2017 15:43:14 | 15:45:13 | 0.006 | 0.011 | 12 | 1.6 |
| AWES | 17002AJ | 02/21/2017 18:11:19 | 18:13:30 | 0.012 | 0.022 | 9 | 3.4 |
| AWES | 17002AJ | 02/21/2017 18:13:50 | 18:15:49 | 0.007 | 0.014 | 15 | 1.3 |
| BSRL | 17002AK | 02/21/2017 17:01:50 | 17:03:49 | 0.007 | 0.010 | 14 | 1.4 |
| BSRL | 17002AK | 02/21/2017 17:04:03 | 17:06:02 | 0.013 | 0.019 | 14 | 1.4 |
| MCHS | 17002AL | 02/21/2017 19:06:28 | 19:08:27 | 0.007 | 0.013 | 13 | 1.6 |
| MCHS | 17002AL | 02/21/2017 19:09:09 | 19:11:08 | 0.006 | 0.012 | 13 | 1.5 |
| MCHS | 17002AM | 02/20/2017 22:37:08 | 22:39:07 | 0.005 | 0.010 | 16 | 1.5 |
| MCHS | 17002AM | 02/20/2017 22:39:24 | 22:41:23 | 0.005 | 0.012 | 16 | 1.5 |
| GVMS | 17002AN | 02/22/2017 16:54:41 | 16:56:40 | 0.008 | 0.012 | 14 | 1.5 |
| GVMS | 17002AN | 02/22/2017 16:56:59 | 16:58:58 | 0.006 | 0.009 | 14 | 1.6 |
| GVMS | 17002AO | 02/22/2017 16:16:15 | 16:18:14 | 0.004 | 0.006 | 15 | 1.3 |
| GVMS | 17002AO | 02/22/2017 16:18:30 | 16:20:29 | 0.005 | 0.008 | 14 | 1.3 |
| AWES | 17002AP | 02/21/2017 16:13:51 | 16:15:50 | 0.004 | 0.006 | 15 | 1.5 |
| AWES | 17002AP | 02/21/2017 16:17:21 | 16:19:20 | 0.004 | 0.006 | 15 | 1.4 |
| AWES | 17002AQ | 02/20/2017 23:13:29 | 23:15:28 | 0.013 | 0.022 | 8 | 1.8 |
| AWES | 17002AQ | 02/20/2017 23:15:43 | 23:17:42 | 0.013 | 0.023 | 8 | 1.8 |
| AWES | 17002AQ | 02/20/2017 23:18:29 | 23:20:28 | 0.010 | 0.019 | 15 | 1.5 |
| MCHS | 17002AR | 02/20/2017 22:12:15 | 22:14:14 | 0.006 | 0.013 | 15 | 1.5 |
| MCHS | 17002AR | 02/20/2017 22:14:27 | 22:16:26 | 0.009 | 0.022 | 16 | 1.4 |
| GVMS | 17002AS | 02/22/2017 23:30:28 | 23:33:36 | 0.003 | 0.005 | 13 | 1.2 |
| GVMS | 17002AS | 02/22/2017 23:34:10 | 23:37:16 | 0.003 | 0.005 | 13 | 1.3 |
| AWES | 17002AT | 02/21/2017 15:38:40 | 15:40:39 | 0.008 | 0.015 | 14 | 1.4 |
| AWES | 17002AT | 02/21/2017 15:40:54 | 15:42:53 | 0.008 | 0.014 | 15 | 1.2 |
| GVMS | 17002AU | 02/22/2017 17:36:39 | 17:38:38 | 0.005 | 0.008 | 14 | 1.6 |
| GVMS | 17002AU | 02/22/2017 17:38:56 | 17:40:55 | 0.006 | 0.010 | 15 | 1.5 |
| LUCH | 17002AV | 02/21/2017 13:31:59 | 13:33:58 | 0.006 | 0.010 | 14 | 1.7 |
| LUCH | 17002AV | 02/21/2017 13:34:18 | 13:36:17 | 0.006 | 0.011 | 14 | 1.7 |
| HAMM | 17002AW | 02/22/2017 22:24:39 | 22:27:49 | 0.011 | 0.020 | 10 | 1.7 |
| HAMM | 17002AW | 02/22/2017 22:28:27 | 22:31:32 | 0.012 | 0.022 | 10 | 1.5 |
| HAMM | 17002AW | 02/22/2017 22:32:02 | 22:34:10 | 0.014 | 0.026 | 10 | 1.8 |
| HAMM | 17002AW | 02/22/2017 22:34:47 | 22:38:08 | 0.011 | 0.020 | 10 | 1.8 |
| HAMM | 17002AW | 02/22/2017 22:39:30 | 22:44:41 | 0.016 | 0.027 | 10 | 22.1 |
| HAMM | 17002AW | 02/22/2017 22:46:02 | 22:50:41 | 0.009 | 0.015 | 11 | 3.7 |
| LUCH | 17002AX | 02/21/2017 15:06:57 | 15:08:56 | 0.009 | 0.019 | 15 | 1.6 |
| LUCH | 17002AX | 02/21/2017 15:09:43 | 15:11:42 | 0.006 | 0.012 | 13 | 1.7 |
| HAMM | 17002AY | 02/22/2017 21:50:47 | 21:53:51 | 0.005 | 0.008 | 13 | 1.5 |
| HAMM | 17002AY | 02/22/2017 21:56:18 | 21:59:29 | 0.005 | 0.010 | 12 | 1.8 |
| HOMA | 17002AZ | 02/20/2017 21:22:36 | 21:24:35 | 0.007 | 0.012 | 13 | 1.6 |
| HOMA | 17002AZ | 02/20/2017 21:24:49 | 21:26:48 | 0.005 | 0.009 | 13 | 1.6 |
| LUCH | 17002BA | 02/22/2017 18:05:21 | 18:07:20 | 0.005 | 0.009 | 16 | 1.3 |
| LUCH | 17002BA | 02/22/2017 18:07:31 | 18:09:30 | 0.004 | 0.007 | 16 | 1.3 |
| LUCH | 17002BB | 02/22/2017 18:35:31 | 18:37:30 | 0.005 | 0.011 | 14 | 1.7 |
| LUCH | 17002BB | 02/22/2017 18:37:38 | 18:39:37 | 0.003 | 0.006 | 14 | 1.6 |
| LUCH | 17002BC | 02/21/2017 14:05:30 | 14:07:29 | 0.009 | 0.018 | 16 | 1.4 |
| LUCH | 17002BC | 02/21/2017 14:07:43 | 14:09:42 | 0.006 | 0.011 | 16 | 1.4 |
| LUCH | 17002BD | 02/23/2017 21:10:10 | 21:13:13 | 0.005 | 0.016 | 9 | 4.5 |
| LUCH | 17002BD | 02/23/2017 21:16:49 | 21:19:57 | 0.005 | 0.014 | 10 | 2.2 |
| LUCH | 17002BE | 02/22/2017 19:29:56 | 19:31:55 | 0.007 | 0.011 | 13 | 1.7 |
| LUCH | 17002BE | 02/22/2017 19:32:13 | 19:34:12 | 0.005 | 0.009 | 13 | 1.7 |
| HOMA | 17002BF | 02/20/2017 20:34:49 | 20:36:48 | 0.006 | 0.009 | 15 | 1.4 |
| HOMA | 17002BF | 02/20/2017 20:37:03 | 20:39:02 | 0.006 | 0.009 | 15 | 1.4 |
| HAMM | 17002BG | 02/22/2017 20:41:15 | 20:44:23 | 0.004 | 0.006 | 14 | 1.4 |
| HAMM | 17002BG | 02/22/2017 20:45:41 | 20:49:07 | 0.003 | 0.005 | 12 | 1.5 |
| LUCH | 17002BH | 02/22/2017 22:03:47 | 22:05:46 | 0.007 | 0.017 | 13 | 2.3 |
| LUCH | 17002BH | 02/22/2017 22:05:59 | 22:07:58 | 0.005 | 0.012 | 13 | 2.3 |
| LWES | 17002BI | 02/20/2017 17:16:00 | 17:17:59 | 0.013 | 0.019 | 9 | 1.9 |
| HOMA | 17002BJ | 02/20/2017 18:37:10 | 18:39:09 | 0.008 | 0.017 | 11 | 1.4 |
| DSTR | 17002BK | 02/22/2017 20:04:13 | 20:06:12 | 0.004 | 0.007 | 13 | 1.6 |
| DSTR | 17002BK | 02/22/2017 20:06:29 | 20:08:28 | 0.004 | 0.006 | 13 | 1.6 |
| DSTR | 17002BL | 02/22/2017 19:33:19 | 19:38:53 | 0.004 | 0.007 | 12 | 2.1 |
| DSTR | 17002BL | 02/22/2017 19:39:19 | 19:42:30 | 0.005 | 0.008 | 13 | 1.6 |
| HAMM | 17002BM | 02/22/2017 18:23:35 | 18:26:39 | 0.003 | 0.005 | 16 | 1.2 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| HAMM | 17002BM | 02/22/2017 18:29:04 | 18:32:10 | 0.003 | 0.005 | 16 | 1.1 |
| LWES | 17002BN | 02/20/2017 16:41:11 | 16:43:10 | 0.009 | 0.014 | 10 | 1.7 |
| LWES | 17002BN | 02/20/2017 16:43:26 | 16:45:25 | 0.007 | 0.010 | 9 | 2.0 |
| HAMM | 17002BO | 02/22/2017 18:57:43 | 19:00:48 | 0.004 | 0.008 | 13 | 1.5 |
| HAMM | 17002BO | 02/22/2017 19:01:29 | 19:04:36 | 0.004 | 0.008 | 13 | 1.8 |
| DSTR | 17002BP | 02/22/2017 22:43:50 | 22:45:49 | 0.013 | 0.028 | 13 | 1.6 |
| DSTR | 17002BP | 02/22/2017 22:46:02 | 22:48:01 | 0.006 | 0.013 | 13 | 1.6 |
| PAUL | 17002BQ | 02/20/2017 19:13:58 | 19:15:57 | 0.005 | 0.010 | 13 | 1.6 |
| PAUL | 17002BQ | 02/20/2017 19:16:19 | 19:18:18 | 0.005 | 0.009 | 13 | 1.6 |
| COVG | 17002BR | 02/22/2017 17:05:06 | 17:09:01 | 0.004 | 0.006 | 13 | 1.5 |
| COVG | 17002BR | 02/22/2017 17:09:40 | 17:13:30 | 0.005 | 0.007 | 14 | 1.4 |
| PAUL | 17002BS | 02/20/2017 19:49:40 | 19:51:39 | 0.004 | 0.006 | 12 | 1.7 |
| PAUL | 17002BS | 02/20/2017 19:51:54 | 19:53:53 | 0.005 | 0.007 | 13 | 1.6 |
| INRI | 17002BT | 02/21/2017 14:36:15 | 14:39:19 | 0.004 | 0.008 | 15 | 1.5 |
| INRI | 17002BT | 02/21/2017 14:41:00 | 14:46:05 | 0.004 | 0.008 | 14 | 1.5 |
| DSTR | 17002BU | 02/20/2017 15:45:46 | 15:47:50 | 0.005 | 0.009 | 12 | 1.7 |
| DSTR | 17002BU | 02/20/2017 15:48:04 | 15:50:03 | 0.007 | 0.012 | 17 | 1.1 |
| COVG | 17002BV | 02/22/2017 15:52:04 | 15:55:12 | 0.004 | 0.006 | 13 | 1.3 |
| COVG | 17002BV | 02/22/2017 15:56:09 | 15:59:14 | 0.004 | 0.006 | 13 | 1.4 |
| INRI | 17002BW | 02/21/2017 13:26:53 | 13:30:00 | 0.003 | 0.005 | 14 | 0.9 |
| INRI | 17002BW | 02/21/2017 13:33:08 | 13:36:16 | 0.003 | 0.005 | 15 | 1.0 |
| INRI | 17002BX | 02/20/2017 23:41:53 | 23:47:06 | 0.003 | 0.005 | 14 | 1.7 |
| INRI | 17002BX | 02/20/2017 23:47:41 | 23:51:12 | 0.003 | 0.006 | 16 | 1.5 |
| INRI | 17002BY | 02/20/2017 19:14:31 | 19:18:05 | 0.003 | 0.005 | 12 | 1.2 |
| INRI | 17002BY | 02/20/2017 19:18:35 | 19:21:42 | 0.003 | 0.006 | 13 | 1.2 |
| COVG | 17002BZ | 02/22/2017 14:41:36 | 14:46:33 | 0.003 | 0.006 | 14 | 1.4 |
| COVG | 17002BZ | 02/22/2017 14:46:57 | 14:50:04 | 0.003 | 0.007 | 14 | 1.5 |
| INRI | 17002CA | 02/20/2017 23:00:08 | 23:03:18 | 0.007 | 0.010 | 12 | 1.6 |
| INRI | 17002CA | 02/20/2017 23:04:29 | 23:07:35 | 0.006 | 0.010 | 12 | 1.5 |
| INRI | 17002CB | 02/20/2017 20:08:01 | 20:11:02 | 0.004 | 0.006 | 12 | 1.4 |
| INRI | 17002CB | 02/20/2017 20:11:32 | 20:14:41 | 0.004 | 0.006 | 13 | 1.5 |
| INRI | 17002CC | 02/20/2017 20:53:11 | 20:56:19 | 0.004 | 0.006 | 14 | 1.3 |
| INRI | 17002CC | 02/20/2017 20:57:22 | 21:01:47 | 0.003 | 0.005 | 14 | 1.5 |
| SJHS | 17002CD | 02/22/2017 13:49:14 | 13:52:24 | 0.003 | 0.005 | 14 | 1.3 |
| SJHS | 17002CD | 02/22/2017 13:52:48 | 13:55:53 | 0.003 | 0.006 | 14 | 1.5 |
| MARY | 17002CE | 02/21/2017 19:17:34 | 19:20:41 | 0.003 | 0.005 | 13 | 1.1 |
| MARY | 17002CE | 02/21/2017 19:22:27 | 19:25:47 | 0.003 | 0.006 | 13 | 1.3 |
| MARY | 17002CF | 02/21/2017 23:42:42 | 23:45:47 | 0.005 | 0.008 | 13 | 1.7 |
| MARY | 17002CF | 02/21/2017 23:46:52 | 23:49:58 | 0.005 | 0.008 | 12 | 1.5 |
| MARY | 17002CG | 02/21/2017 19:49:27 | 19:52:44 | 0.004 | 0.006 | 14 | 1.2 |
| MARY | 17002CG | 02/21/2017 19:53:09 | 19:56:17 | 0.004 | 0.006 | 14 | 1.4 |
| MARY | 17002CH | 02/21/2017 20:59:22 | 21:02:31 | 0.004 | 0.007 | 14 | 1.4 |
| MARY | 17002CH | 02/21/2017 21:03:04 | 21:07:10 | 0.004 | 0.007 | 14 | 1.7 |
| MARY | 17002CI | 02/21/2017 21:48:01 | 21:51:06 | 0.005 | 0.009 | 14 | 1.5 |
| MARY | 17002CI | 02/21/2017 21:51:44 | 21:54:59 | 0.005 | 0.009 | 15 | 1.4 |
| MARY | 17002CJ | 02/21/2017 20:41:35 | 20:45:54 | 0.004 | 0.006 | 15 | 1.7 |
| MARY | 17002CJ | 02/21/2017 20:46:18 | 20:49:24 | 0.004 | 0.007 | 17 | 1.4 |
| MARY | 17002CJ | 02/21/2017 20:49:54 | 20:53:03 | 0.004 | 0.007 | 16 | 1.3 |
| DOTD | 17002CY | 02/21/2017 23:53:26 | 23:55:25 | 0.007 | 0.012 | 13 | 1.8 |
| DOTD | 17002CY | 02/21/2017 23:55:41 | 23:57:40 | 0.009 | 0.018 | 14 | 1.6 |
| LWES | 17002CZ | 02/22/2017 20:40:17 | 20:42:16 | 0.007 | 0.011 | 17 | 1.2 |
| LWES | 17002CZ | 02/22/2017 20:42:30 | 20:44:29 | 0.006 | 0.009 | 16 | 1.3 |
| VRS_0315 | 17002DA | 02/20/2017 18:09:46 | 18:12:52 | 0.002 | 0.004 | 7 | 0.7 |
| VRS_0315 | 17002DA | 02/20/2017 18:17:27 | 18:20:31 | 0.002 | 0.004 | 7 | 0.8 |
| VRS_0315 | 17002DB | 02/20/2017 18:35:22 | 18:38:25 | 0.010 | 0.015 | 7 | 1.8 |
| INRI | 17002DB | 02/20/2017 18:43:05 | 18:46:10 | 0.005 | 0.009 | 9 | 1.6 |
| INRI | 17002DC | 02/20/2017 18:57:03 | 19:00:11 | 0.004 | 0.009 | 8 | 1.8 |
| INRI | 17002DC | 02/20/2017 19:00:34 | 19:03:39 | 0.004 | 0.009 | 8 | 1.9 |
| INRI | 17002DD | 02/20/2017 19:31:42 | 19:34:49 | 0.003 | 0.006 | 13 | 1.5 |
| INRI | 17002DD | 02/20/2017 19:39:14 | 19:42:26 | 0.003 | 0.006 | 12 | 1.4 |
| INRI | 17002DD | 02/20/2017 19:43:05 | 19:46:09 | 0.003 | 0.005 | 12 | 1.4 |
| INRI | 17002DE | 02/20/2017 19:54:11 | 19:57:21 | 0.003 | 0.005 | 11 | 1.3 |
| INRI | 17002DE | 02/20/2017 19:57:43 | 20:01:10 | 0.003 | 0.005 | 11 | 1.4 |
| INRI | 17002DF | 02/20/2017 20:24:47 | 20:27:53 | 0.004 | 0.006 | 14 | 1.4 |
| INRI | 17002DF | 02/20/2017 20:28:28 | 20:31:34 | 0.004 | 0.006 | 14 | 1.4 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| INRI | 17002DG | 02/20/2017 20:38:09 | 20:41:20 | 0.004 | 0.006 | 15 | 1.5 |
| INRI | 17002DG | 02/20/2017 20:43:01 | 20:45:20 | 0.004 | 0.007 | 16 | 1.3 |
| INRI | 17002DH | 02/20/2017 21:15:20 | 21:18:21 | 0.003 | 0.005 | 14 | 1.2 |
| INRI | 17002DH | 02/20/2017 21:19:16 | 21:22:18 | 0.003 | 0.005 | 14 | 1.3 |
| INRI | 17002DI | 02/20/2017 22:00:24 | 22:03:37 | 0.002 | 0.004 | 16 | 1.0 |
| INRI | 17002DI | 02/20/2017 22:04:33 | 22:07:43 | 0.003 | 0.005 | 16 | 1.1 |
| INRI | 17002DJ | 02/20/2017 22:31:43 | 22:34:49 | 0.003 | 0.007 | 15 | 1.3 |
| INRI | 17002DJ | 02/20/2017 22:35:23 | 22:38:31 | 0.003 | 0.007 | 15 | 2.1 |
| INRI | 17002DJ | 02/20/2017 22:39:00 | 22:42:09 | 0.003 | 0.006 | 15 | 5.6 |
| INRI | 17002DK | 02/21/2017 00:04:41 | 00:07:47 | 0.003 | 0.006 | 16 | 1.4 |
| INRI | 17002DK | 02/21/2017 00:08:21 | 00:11:27 | 0.003 | 0.006 | 15 | 1.4 |
| INRI | 17002DL | 02/21/2017 12:54:03 | 12:57:16 | 0.004 | 0.006 | 16 | 1.0 |
| INRI | 17002DL | 02/21/2017 12:57:39 | 13:00:47 | 0.003 | 0.005 | 15 | 1.0 |
| INRI | 17002DM | 02/21/2017 13:12:04 | 13:15:16 | 0.003 | 0.005 | 16 | 0.9 |
| INRI | 17002DM | 02/21/2017 13:15:44 | 13:20:03 | 0.003 | 0.005 | 14 | 1.0 |
| INRI | 17002DN | 02/21/2017 13:53:46 | 13:56:50 | 0.003 | 0.005 | 15 | 1.0 |
| INRI | 17002DN | 02/21/2017 13:59:06 | 14:02:11 | 0.003 | 0.005 | 16 | 1.1 |
| INRI | 17002DO | 02/21/2017 14:22:50 | 14:25:52 | 0.003 | 0.006 | 14 | 1.4 |
| INRI | 17002DO | 02/21/2017 14:26:16 | 14:29:22 | 0.003 | 0.007 | 15 | 1.4 |
| INRI | 17002DP | 02/21/2017 15:02:12 | 15:05:25 | 0.005 | 0.007 | 12 | 1.7 |
| INRI | 17002DP | 02/21/2017 15:06:40 | 15:10:05 | 0.005 | 0.007 | 12 | 1.8 |
| INRI | 17002DQ | 02/21/2017 15:35:26 | 15:38:38 | 0.003 | 0.005 | 12 | 1.2 |
| INRI | 17002DQ | 02/21/2017 15:39:47 | 15:43:00 | 0.003 | 0.005 | 11 | 1.2 |
| MARY | 17002DR | 02/21/2017 16:15:04 | 16:18:16 | 0.004 | 0.006 | 12 | 1.3 |
| MARY | 17002DR | 02/21/2017 16:19:58 | 16:23:11 | 0.004 | 0.006 | 13 | 1.3 |
| MARY | 17002DS | 02/21/2017 16:36:54 | 16:39:58 | 0.002 | 0.004 | 11 | 0.9 |
| MARY | 17002DS | 02/21/2017 16:40:30 | 16:43:39 | 0.002 | 0.003 | 10 | 0.9 |
| MARY | 17002DT | 02/21/2017 16:51:20 | 16:54:33 | 0.003 | 0.006 | 11 | 1.2 |
| MARY | 17002DT | 02/21/2017 16:59:52 | 17:03:05 | 0.005 | 0.008 | 10 | 1.3 |
| MARY | 17002DU | 02/21/2017 17:12:23 | 17:15:32 | 0.003 | 0.004 | 14 | 1.0 |
| MARY | 17002DU | 02/21/2017 17:17:26 | 17:20:39 | 0.003 | 0.004 | 14 | 1.0 |
| SJHS | 17002DV | 02/21/2017 17:36:34 | 17:39:42 | 0.004 | 0.005 | 13 | 1.0 |
| SJHS | 17002DV | 02/21/2017 17:43:47 | 17:46:55 | 0.004 | 0.006 | 15 | 1.0 |
| MARY | 17002DW | 02/21/2017 18:08:54 | 18:12:01 | 0.003 | 0.005 | 14 | 1.2 |
| MARY | 17002DW | 02/21/2017 18:12:33 | 18:15:36 | 0.003 | 0.005 | 15 | 1.3 |
| MARY | 17002DX | 02/21/2017 18:24:40 | 18:27:47 | 0.003 | 0.005 | 15 | 1.0 |
| MARY | 17002DX | 02/21/2017 18:29:06 | 18:32:13 | 0.003 | 0.005 | 15 | 1.1 |
| MARY | 17002DY | 02/21/2017 18:47:17 | 18:50:36 | 0.003 | 0.006 | 13 | 1.1 |
| MARY | 17002DY | 02/21/2017 18:50:59 | 18:54:29 | 0.003 | 0.006 | 13 | 1.2 |
| MARY | 17002DZ | 02/21/2017 19:01:42 | 19:04:59 | 0.003 | 0.005 | 12 | 1.0 |
| MARY | 17002DZ | 02/21/2017 19:07:03 | 19:10:18 | 0.003 | 0.006 | 13 | 1.3 |
| MARY | 17002EA | 02/21/2017 19:33:47 | 19:37:07 | 0.003 | 0.005 | 13 | 1.2 |
| MARY | 17002EA | 02/21/2017 19:39:24 | 19:41:26 | 0.004 | 0.006 | 13 | 1.4 |
| MARY | 17002EB | 02/21/2017 20:01:58 | 20:05:10 | 0.004 | 0.006 | 14 | 1.4 |
| MARY | 17002EB | 02/21/2017 20:05:48 | 20:08:59 | 0.004 | 0.006 | 14 | 1.4 |
| MARY | 17002EC | 02/21/2017 20:14:05 | 20:17:13 | 0.004 | 0.006 | 14 | 1.5 |
| MARY | 17002EC | 02/21/2017 20:17:39 | 20:20:57 | 0.004 | 0.006 | 15 | 1.3 |
| MARY | 17002ED | 02/21/2017 20:27:31 | 20:30:38 | 0.004 | 0.006 | 15 | 1.4 |
| MARY | 17002ED | 02/21/2017 20:33:23 | 20:36:07 | 0.005 | 0.007 | 15 | 1.4 |
| MARY | 17002EE | 02/21/2017 21:12:11 | 21:15:24 | 0.005 | 0.008 | 15 | 1.5 |
| MARY | 17002EE | 02/21/2017 21:15:54 | 21:19:02 | 0.005 | 0.008 | 16 | 1.5 |
| MARY | 17002EF | 02/21/2017 21:25:54 | 21:29:06 | 0.005 | 0.008 | 14 | 1.6 |
| MARY | 17002EF | 02/21/2017 21:29:54 | 21:33:01 | 0.005 | 0.008 | 14 | 1.5 |
| MARY | 17002EG | 02/21/2017 22:14:03 | 22:17:09 | 0.007 | 0.013 | 13 | 1.8 |
| MARY | 17002EG | 02/21/2017 22:19:05 | 22:22:14 | 0.007 | 0.012 | 14 | 1.5 |
| MARY | 17002EG | 02/21/2017 22:22:40 | 22:25:56 | 0.006 | 0.011 | 14 | 1.4 |
| MARY | 17002EH | 02/21/2017 22:53:25 | 22:56:37 | 0.009 | 0.014 | 12 | 1.5 |
| MARY | 17002EH | 02/21/2017 22:57:06 | 23:00:15 | 0.009 | 0.014 | 11 | 1.5 |
| MARY | 17002EI | 02/21/2017 23:13:07 | 23:16:41 | 0.004 | 0.007 | 14 | 1.3 |
| MARY | 17002EI | 02/21/2017 23:17:08 | 23:20:14 | 0.005 | 0.008 | 14 | 1.3 |
| MARY | 17002EJ | 02/22/2017 00:04:08 | 00:07:19 | 0.004 | 0.007 | 12 | 1.5 |
| MARY | 17002EJ | 02/22/2017 00:08:34 | 00:11:40 | 0.004 | 0.007 | 11 | 2.7 |
| SJHS | 17002EK | 02/22/2017 13:12:21 | 13:15:33 | 0.003 | 0.009 | 10 | 1.8 |
| SJHS | 17002EK | 02/22/2017 13:19:21 | 13:22:23 | 0.004 | 0.014 | 11 | 1.9 |
| SJHS | 17002EL | 02/22/2017 13:33:03 | 13:36:14 | 0.003 | 0.005 | 13 | 1.0 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| SJHS | 17002EL | 02/22/2017 13:37:11 | 13:40:19 | 0.003 | 0.005 | 14 | 1.1 |
| SJHS | 17002EM | 02/22/2017 14:09:40 | 14:12:54 | 0.003 | 0.006 | 13 | 1.7 |
| SJHS | 17002EM | 02/22/2017 14:13:55 | 14:16:23 | 0.005 | 0.010 | 13 | 1.8 |
| COVG | 17002EN | 02/22/2017 15:07:30 | 15:10:41 | 0.003 | 0.005 | 12 | 1.1 |
| COVG | 17002EN | 02/22/2017 15:12:17 | 15:15:31 | 0.003 | 0.005 | 13 | 1.3 |
| COVG | 17002EN | 02/22/2017 15:15:56 | 15:19:10 | 0.003 | 0.005 | 12 | 1.3 |
| COVG | 17002EO | 02/22/2017 15:27:34 | 15:30:48 | 0.003 | 0.005 | 14 | 1.1 |
| COVG | 17002EO | 02/22/2017 15:32:51 | 15:35:54 | 0.003 | 0.005 | 15 | 1.2 |
| COVG | 17002EP | 02/22/2017 16:17:27 | 16:20:36 | 0.004 | 0.006 | 10 | 1.7 |
| COVG | 17002EP | 02/22/2017 16:22:32 | 16:25:42 | 0.004 | 0.006 | 12 | 2.6 |
| COVG | 17002EQ | 02/22/2017 16:47:44 | 16:50:58 | 0.005 | 0.008 | 11 | 1.5 |
| COVG | 17002EQ | 02/22/2017 16:52:55 | 16:56:06 | 0.005 | 0.008 | 10 | 1.5 |
| HAMM | 17002ER | 02/22/2017 17:28:15 | 17:31:24 | 0.004 | 0.006 | 14 | 1.0 |
| HAMM | 17002ER | 02/22/2017 17:32:20 | 17:35:29 | 0.004 | 0.006 | 14 | 1.0 |
| HAMM | 17002ES | 02/22/2017 17:45:07 | 17:48:12 | 0.003 | 0.005 | 15 | 0.8 |
| HAMM | 17002ES | 02/22/2017 17:50:34 | 17:52:35 | 0.004 | 0.007 | 15 | 1.0 |
| HAMM | 17002ET | 02/22/2017 18:04:58 | 18:08:19 | 0.003 | 0.005 | 15 | 0.9 |
| HAMM | 17002ET | 02/22/2017 18:09:18 | 18:12:26 | 0.003 | 0.006 | 14 | 1.1 |
| HAMM | 17002EU | 02/22/2017 18:39:34 | 18:42:44 | 0.003 | 0.007 | 13 | 1.6 |
| HAMM | 17002EU | 02/22/2017 18:43:14 | 18:46:23 | 0.003 | 0.007 | 13 | 1.5 |
| HAMM | 17002EU | 02/22/2017 18:46:53 | 18:50:01 | 0.003 | 0.007 | 13 | 1.5 |
| HAMM | 17002EV | 02/22/2017 19:12:32 | 19:15:43 | 0.004 | 0.008 | 13 | 1.8 |
| HAMM | 17002EV | 02/22/2017 19:16:47 | 19:19:54 | 0.005 | 0.008 | 13 | 1.7 |
| DSTR | 17002EW | 02/22/2017 19:47:48 | 19:51:10 | 0.005 | 0.008 | 12 | 1.8 |
| DSTR | 17002EW | 02/22/2017 19:51:47 | 19:55:02 | 0.005 | 0.008 | 12 | 1.8 |
| HAMM | 17002EX | 02/22/2017 20:54:16 | 20:58:15 | 0.004 | 0.010 | 11 | 2.5 |
| HAMM | 17002EX | 02/22/2017 20:58:44 | 21:02:58 | 0.004 | 0.011 | 11 | 2.6 |
| HAMM | 17002EY | 02/22/2017 21:20:29 | 21:23:35 | 0.005 | 0.014 | 11 | 2.2 |
| HAMM | 17002EY | 02/22/2017 21:24:34 | 21:27:38 | 0.005 | 0.014 | 11 | 2.3 |
| HAMM | 17002EZ | 02/22/2017 22:04:12 | 22:07:18 | 0.005 | 0.009 | 13 | 1.6 |
| HAMM | 17002EZ | 02/22/2017 22:08:32 | 22:11:45 | 0.008 | 0.015 | 12 | 1.7 |
| GVMS | 17002FA | 02/22/2017 23:11:15 | 23:14:27 | 0.004 | 0.009 | 10 | 2.1 |
| GVMS | 17002FA | 02/22/2017 23:15:19 | 23:18:36 | 0.004 | 0.009 | 9 | 2.1 |
| GVMS | 17002FB | 02/23/2017 14:53:24 | 14:56:26 | 0.007 | 0.010 | 11 | 1.7 |
| GVMS | 17002FB | 02/23/2017 15:00:22 | 15:02:49 | 0.006 | 0.010 | 13 | 1.5 |
| GVMS | 17002FC | 02/23/2017 15:11:24 | 15:14:38 | 0.005 | 0.008 | 11 | 1.8 |
| GVMS | 17002FC | 02/23/2017 15:15:59 | 15:19:09 | 0.006 | 0.008 | 11 | 1.6 |
| GVMS | 17002FD | 02/23/2017 15:35:16 | 15:38:25 | 0.004 | 0.007 | 15 | 1.4 |
| GVMS | 17002FD | 02/23/2017 15:39:49 | 15:42:24 | 0.005 | 0.008 | 14 | 1.5 |
| GVMS | 17002FE | 02/23/2017 15:49:40 | 15:53:26 | 0.004 | 0.007 | 14 | 1.5 |
| GVMS | 17002FE | 02/23/2017 15:53:53 | 15:56:57 | 0.005 | 0.008 | 16 | 1.9 |
| GVMS | 17002FF | 02/23/2017 16:03:22 | 16:06:32 | 0.005 | 0.008 | 16 | 1.3 |
| GVMS | 17002FF | 02/23/2017 16:09:19 | 16:12:30 | 0.005 | 0.008 | 16 | 1.3 |
| GVMS | 17002FG | 02/23/2017 16:19:11 | 16:22:16 | 0.005 | 0.008 | 16 | 1.2 |
| GVMS | 17002FG | 02/23/2017 16:24:14 | 16:27:25 | 0.005 | 0.007 | 15 | 1.4 |
| GVMS | 17002FH | 02/23/2017 16:33:56 | 16:37:08 | 0.005 | 0.008 | 13 | 1.5 |
| GVMS | 17002FH | 02/23/2017 16:37:44 | 16:40:56 | 0.005 | 0.007 | 15 | 1.2 |
| GVMS | 17002FI | 02/23/2017 16:47:12 | 16:50:29 | 0.005 | 0.007 | 15 | 1.4 |
| GVMS | 17002FI | 02/23/2017 16:53:02 | 16:55:32 | 0.006 | 0.008 | 15 | 1.4 |
| GVMS | 17002FJ | 02/23/2017 17:09:26 | 17:12:40 | 0.005 | 0.008 | 13 | 1.5 |
| GVMS | 17002FJ | 02/23/2017 17:17:02 | 17:20:18 | 0.005 | 0.007 | 13 | 1.5 |
| GVMS | 17002FJ | 02/23/2017 17:21:47 | 17:25:06 | 0.005 | 0.008 | 13 | 1.5 |
| GVMS | 17002FJ | 02/23/2017 17:31:49 | 17:34:59 | 0.005 | 0.008 | 13 | 2.5 |
| HAMM | 17002FJ | 02/23/2017 17:37:21 | 17:40:23 | 0.004 | 0.006 | 15 | 1.0 |
| HAMM | 17002FJ | 02/23/2017 17:41:35 | 17:44:44 | 0.004 | 0.006 | 15 | 1.0 |
| HAMM | 17002FJ | 02/23/2017 17:45:41 | 17:48:48 | 0.004 | 0.006 | 14 | 1.0 |
| HAMM | 17002FK | 02/23/2017 17:58:00 | 18:01:10 | 0.005 | 0.007 | 9 | 1.3 |
| HAMM | 17002FK | 02/23/2017 18:01:40 | 18:04:50 | 0.004 | 0.006 | 10 | 1.4 |
| HAMM | 17002FK | 02/23/2017 18:05:54 | 18:09:09 | 0.004 | 0.006 | 9 | 1.5 |
| HAMM | 17002FL | 02/23/2017 18:44:50 | 18:47:57 | 0.005 | 0.008 | 8 | 1.9 |
| HAMM | 17002FL | 02/23/2017 18:48:27 | 18:51:32 | 0.005 | 0.008 | 8 | 1.9 |
| HAMM | 17002FM | 02/23/2017 18:57:14 | 19:00:28 | 0.006 | 0.009 | 8 | 2.3 |
| HAMM | 17002FM | 02/23/2017 19:01:26 | 19:04:37 | 0.005 | 0.008 | 8 | 2.3 |
| HAMM | 17002FN | 02/23/2017 19:14:14 | 19:18:06 | 0.004 | 0.007 | 11 | 2.1 |
| HAMM | 17002FN | 02/23/2017 19:18:31 | 19:21:38 | 0.005 | 0.008 | 12 | 1.5 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| GVMS | 17002FO | 02/23/2017 19:35:42 | 19:38:53 | 0.004 | 0.006 | 12 | 1.4 |
| GVMS | 17002FO | 02/23/2017 19:39:19 | 19:42:32 | 0.004 | 0.006 | 11 | 1.6 |
| GVMS | 17002FP | 02/23/2017 19:53:01 | 19:56:05 | 0.004 | 0.006 | 12 | 1.4 |
| GVMS | 17002FP | 02/23/2017 19:56:28 | 19:59:39 | 0.003 | 0.005 | 11 | 1.4 |
| GVMS | 17002FQ | 02/23/2017 20:26:30 | 20:29:34 | 0.003 | 0.006 | 15 | 1.2 |
| GVMS | 17002FQ | 02/23/2017 20:30:13 | 20:33:18 | 0.003 | 0.006 | 16 | 1.2 |
| GVMS | 17002FR | 02/23/2017 20:40:58 | 20:44:01 | 0.004 | 0.010 | 12 | 1.6 |
| GVMS | 17002FR | 02/23/2017 20:45:11 | 20:48:17 | 0.004 | 0.010 | 11 | 1.6 |
| HAMM | 17002FS | 02/23/2017 21:34:21 | 21:37:28 | 0.005 | 0.012 | 11 | 2.1 |
| HAMM | 17002FS | 02/23/2017 21:38:33 | 21:41:38 | 0.005 | 0.012 | 11 | 2.0 |
| GVMS | 17002FT | 02/23/2017 21:48:10 | 21:51:53 | 0.005 | 0.011 | 11 | 1.6 |
| GVMS | 17002FT | 02/23/2017 21:52:20 | 21:55:25 | 0.005 | 0.011 | 11 | 1.9 |
| GVMS | 17002FU | 02/23/2017 22:10:26 | 22:14:15 | 0.005 | 0.013 | 11 | 1.8 |
| GVMS | 17002FU | 02/23/2017 22:14:47 | 22:17:52 | 0.007 | 0.013 | 11 | 1.8 |
| GVMS | 17002FV | 02/23/2017 22:41:54 | 22:45:36 | 0.004 | 0.008 | 12 | 1.5 |
| GVMS | 17002FV | 02/23/2017 22:45:59 | 22:49:10 | 0.004 | 0.009 | 11 | 1.5 |
| GVMS | 17002FW | 02/23/2017 23:09:23 | 23:12:28 | 0.005 | 0.010 | 11 | 1.7 |
| GVMS | 17002FW | 02/23/2017 23:12:57 | 23:16:04 | 0.005 | 0.010 | 11 | 1.7 |
| DSTR | 17002HA | 02/20/2017 15:25:03 | 15:27:02 | 0.005 | 0.009 | 16 | 1.4 |
| DSTR | 17002HA | 02/20/2017 15:27:22 | 15:29:21 | 0.005 | 0.009 | 16 | 1.4 |
| DSTR | 17002HA | 02/20/2017 15:30:30 | 15:32:29 | 0.006 | 0.011 | 16 | 1.3 |
| DSTR | 17002HB | 02/20/2017 15:56:27 | 15:58:26 | 0.010 | 0.017 | 16 | 1.2 |
| DSTR | 17002HB | 02/20/2017 15:59:45 | 16:01:44 | 0.009 | 0.015 | 15 | 1.2 |
| DSTR | 17002HC | 02/20/2017 16:18:44 | 16:20:43 | 0.005 | 0.010 | 12 | 2.1 |
| LWES | 17002HD | 02/20/2017 16:56:56 | 16:58:55 | 0.009 | 0.014 | 10 | 1.7 |
| LWES | 17002HD | 02/20/2017 17:00:01 | 17:02:00 | 0.011 | 0.015 | 10 | 1.7 |
| LWES | 17002HE | 02/20/2017 17:04:14 | 17:06:13 | 0.008 | 0.011 | 10 | 1.8 |
| LWES | 17002HE | 02/20/2017 17:06:29 | 17:08:28 | 0.013 | 0.019 | 10 | 1.8 |
| LWES | 17002HE | 02/20/2017 17:08:56 | 17:10:55 | 0.009 | 0.013 | 10 | 1.8 |
| HOMA | 17002HF | 02/20/2017 17:27:43 | 17:29:42 | 0.009 | 0.013 | 10 | 1.7 |
| HOMA | 17002HF | 02/20/2017 17:29:54 | 17:31:53 | 0.007 | 0.010 | 10 | 1.7 |
| HOMA | 17002HG | 02/20/2017 17:34:01 | 17:36:00 | 0.009 | 0.014 | 9 | 2.0 |
| HOMA | 17002HG | 02/20/2017 17:36:15 | 17:38:14 | 0.006 | 0.010 | 9 | 2.0 |
| HOMA | 17002HH | 02/20/2017 17:46:43 | 17:48:42 | 0.006 | 0.010 | 10 | 1.9 |
| HOMA | 17002HH | 02/20/2017 17:48:55 | 17:50:54 | 0.006 | 0.010 | 10 | 1.9 |
| HOMA | 17002HI | 02/20/2017 17:59:24 | 18:01:23 | 0.006 | 0.010 | 10 | 1.9 |
| HOMA | 17002HI | 02/20/2017 18:01:48 | 18:03:47 | 0.006 | 0.010 | 10 | 1.9 |
| HOMA | 17002HJ | 02/20/2017 18:22:36 | 18:24:35 | 0.008 | 0.016 | 9 | 1.8 |
| HOMA | 17002HJ | 02/20/2017 18:24:49 | 18:26:48 | 0.006 | 0.013 | 10 | 1.7 |
| PAUL | 17002HK | 02/20/2017 18:53:04 | 18:55:03 | 0.007 | 0.015 | 9 | 1.9 |
| PAUL | 17002HK | 02/20/2017 18:56:40 | 18:58:39 | 0.005 | 0.011 | 13 | 1.6 |
| PAUL | 17002HK | 02/20/2017 18:58:56 | 19:00:55 | 0.005 | 0.012 | 12 | 1.9 |
| PAUL | 17002HL | 02/20/2017 19:23:37 | 19:25:36 | 0.005 | 0.009 | 13 | 1.6 |
| PAUL | 17002HL | 02/20/2017 19:25:57 | 19:27:56 | 0.006 | 0.010 | 13 | 1.6 |
| PAUL | 17002HM | 02/20/2017 19:40:13 | 19:42:12 | 0.005 | 0.009 | 13 | 1.6 |
| PAUL | 17002HM | 02/20/2017 19:42:24 | 19:44:23 | 0.004 | 0.006 | 13 | 1.6 |
| HOMA | 17002HN | 02/20/2017 20:42:08 | 20:44:07 | 0.009 | 0.015 | 16 | 1.3 |
| HOMA | 17002HN | 02/20/2017 20:44:19 | 20:46:18 | 0.007 | 0.011 | 16 | 1.3 |
| HOMA | 17002HN | 02/20/2017 20:46:42 | 20:48:41 | 0.005 | 0.009 | 8 | 1.7 |
| HOMA | 17002HO | 02/20/2017 20:52:56 | 20:54:55 | 0.005 | 0.009 | 14 | 1.4 |
| HOMA | 17002HO | 02/20/2017 20:55:10 | 20:57:09 | 0.006 | 0.010 | 14 | 1.5 |
| HOMA | 17002HP | 02/20/2017 21:09:36 | 21:11:35 | 0.006 | 0.010 | 13 | 1.6 |
| HOMA | 17002HP | 02/20/2017 21:11:52 | 21:13:51 | 0.006 | 0.009 | 13 | 1.6 |
| HOMA | 17002HQ | 02/20/2017 21:52:04 | 21:54:07 | 0.017 | 0.034 | 15 | 1.5 |
| HOMA | 17002HQ | 02/20/2017 21:56:39 | 21:58:42 | 0.019 | 0.031 | 15 | 1.5 |
| HOMA | 17002HQ | 02/20/2017 21:59:43 | 22:01:42 | 0.014 | 0.033 | 15 | 1.4 |
| MCHS | 17002HR | 02/20/2017 22:54:36 | 22:56:35 | 0.006 | 0.012 | 15 | 1.4 |
| MCHS | 17002HR | 02/20/2017 22:56:59 | 22:58:58 | 0.006 | 0.013 | 16 | 1.4 |
| AWES | 17002HS | 02/20/2017 23:23:23 | 23:25:22 | 0.012 | 0.027 | 13 | 2.0 |
| AWES | 17002HS | 02/20/2017 23:25:41 | 23:27:40 | 0.010 | 0.028 | 13 | 2.0 |
| LUCH | 17002HT | 02/21/2017 13:20:28 | 13:22:27 | 0.006 | 0.009 | 14 | 1.6 |
| LUCH | 17002HT | 02/21/2017 13:22:44 | 13:24:43 | 0.007 | 0.011 | 15 | 1.5 |
| LUCH | 17002HU | 02/21/2017 13:56:15 | 13:58:14 | 0.006 | 0.010 | 16 | 1.4 |
| LUCH | 17002HU | 02/21/2017 13:58:33 | 14:00:32 | 0.009 | 0.016 | 16 | 1.4 |
| LUCH | 17002HV | 02/21/2017 14:28:25 | 14:30:24 | 0.005 | 0.011 | 14 | 1.7 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| LUCH | 17002HV | 02/21/2017 14:31:22 | 14:33:21 | 0.005 | 0.012 | 14 | 1.8 |
| LUCH | 17002HW | 02/21/2017 14:40:04 | 14:42:03 | 0.004 | 0.010 | 15 | 1.6 |
| LUCH | 17002HW | 02/21/2017 14:42:25 | 14:44:24 | 0.005 | 0.012 | 15 | 1.6 |
| LUCH | 17002HX | 02/21/2017 14:52:08 | 14:54:07 | 0.005 | 0.010 | 12 | 2.0 |
| LUCH | 17002HX | 02/21/2017 14:55:19 | 14:57:18 | 0.005 | 0.011 | 15 | 1.5 |
| LUCH | 17002HY | 02/21/2017 15:21:21 | 15:23:20 | 0.006 | 0.012 | 15 | 1.5 |
| LUCH | 17002HY | 02/21/2017 15:23:42 | 15:25:41 | 0.008 | 0.015 | 15 | 1.4 |
| LUCH | 17002HZ | 02/21/2017 15:27:35 | 15:29:34 | 0.007 | 0.013 | 15 | 1.5 |
| LUCH | 17002HZ | 02/21/2017 15:29:47 | 15:31:46 | 0.007 | 0.013 | 14 | 1.4 |
| AWES | 17002IA | 02/21/2017 15:56:09 | 15:58:08 | 0.003 | 0.005 | 15 | 1.2 |
| AWES | 17002IA | 02/21/2017 15:58:27 | 16:00:26 | 0.004 | 0.007 | 14 | 1.4 |
| AWES | 17002IB | 02/21/2017 16:03:51 | 16:05:50 | 0.003 | 0.006 | 14 | 1.5 |
| AWES | 17002IB | 02/21/2017 16:06:06 | 16:08:05 | 0.003 | 0.005 | 14 | 1.5 |
| GVMS | 17002IC | 02/21/2017 16:26:49 | 16:28:48 | 0.006 | 0.010 | 16 | 1.3 |
| GVMS | 17002IC | 02/21/2017 16:29:00 | 16:30:59 | 0.007 | 0.010 | 16 | 1.3 |
| GVMS | 17002ID | 02/21/2017 16:38:16 | 16:40:16 | 0.007 | 0.012 | 13 | 1.5 |
| GVMS | 17002ID | 02/21/2017 16:40:28 | 16:42:27 | 0.010 | 0.016 | 13 | 1.5 |
| BSRL | 17002IE | 02/21/2017 16:53:11 | 16:55:10 | 0.010 | 0.015 | 13 | 1.5 |
| BSRL | 17002IE | 02/21/2017 16:55:22 | 16:57:21 | 0.010 | 0.016 | 14 | 1.4 |
| BSRL | 17002IF | 02/21/2017 17:13:09 | 17:15:08 | 0.006 | 0.009 | 14 | 1.4 |
| BSRL | 17002IF | 02/21/2017 17:15:28 | 17:17:27 | 0.008 | 0.012 | 15 | 1.4 |
| BSRL | 17002IG | 02/21/2017 17:35:29 | 17:37:28 | 0.007 | 0.013 | 13 | 1.7 |
| BSRL | 17002IG | 02/21/2017 17:37:40 | 17:39:39 | 0.007 | 0.011 | 13 | 1.7 |
| AWES | 17002IH | 02/21/2017 17:48:59 | 17:50:58 | 0.007 | 0.010 | 12 | 1.8 |
| AWES | 17002IH | 02/21/2017 17:51:14 | 17:53:13 | 0.010 | 0.015 | 14 | 1.6 |
| AWES | 17002IH | 02/21/2017 17:53:50 | 17:55:49 | 0.011 | 0.018 | 13 | 1.8 |
| AWES | 17002II | 02/21/2017 18:28:47 | 18:30:46 | 0.007 | 0.013 | 15 | 1.3 |
| AWES | 17002II | 02/21/2017 18:31:11 | 18:33:10 | 0.007 | 0.014 | 16 | 1.2 |
| AWES | 17002II | 02/21/2017 18:33:30 | 18:35:29 | 0.008 | 0.017 | 15 | 1.4 |
| MCHS | 17002IJ | 02/21/2017 18:49:40 | 18:51:39 | 0.006 | 0.013 | 13 | 1.7 |
| MCHS | 17002IJ | 02/21/2017 18:52:05 | 18:54:04 | 0.008 | 0.016 | 13 | 1.7 |
| MCHS | 17002IK | 02/21/2017 18:54:51 | 18:56:50 | 0.024 | 0.035 | 13 | 1.7 |
| MCHS | 17002IK | 02/21/2017 18:57:03 | 18:59:02 | 0.010 | 0.012 | 13 | 1.7 |
| AWES | 17002IL | 02/21/2017 19:36:31 | 19:38:30 | 0.008 | 0.013 | 13 | 1.6 |
| AWES | 17002IL | 02/21/2017 19:38:48 | 19:40:47 | 0.007 | 0.012 | 13 | 1.6 |
| BSRL | 17002IM | 02/21/2017 19:56:58 | 19:58:57 | 0.009 | 0.015 | 13 | 1.6 |
| BSRL | 17002IM | 02/21/2017 19:59:07 | 20:01:06 | 0.005 | 0.009 | 14 | 1.4 |
| BSRL | 17002IM | 02/21/2017 20:01:23 | 20:03:22 | 0.005 | 0.009 | 13 | 1.7 |
| BSRL | 17002IM | 02/21/2017 20:04:01 | 20:06:01 | 0.008 | 0.014 | 6 | 3.1 |
| BSRL | 17002IN | 02/21/2017 20:15:09 | 20:17:08 | 0.007 | 0.011 | 8 | 2.5 |
| BSRL | 17002IN | 02/21/2017 20:17:24 | 20:19:24 | 0.011 | 0.018 | 9 | 1.6 |
| BSRL | 17002IO | 02/21/2017 21:24:11 | 21:26:10 | 0.004 | 0.007 | 15 | 1.5 |
| BSRL | 17002IO | 02/21/2017 21:26:30 | 21:28:29 | 0.003 | 0.006 | 13 | 1.7 |
| BSRL | 17002IP | 02/21/2017 21:36:43 | 21:38:42 | 0.005 | 0.007 | 13 | 1.7 |
| BSRL | 17002IP | 02/21/2017 21:38:54 | 21:40:53 | 0.004 | 0.006 | 14 | 1.6 |
| BSRL | 17002IQ | 02/21/2017 21:50:26 | 21:52:25 | 0.007 | 0.013 | 14 | 1.6 |
| BSRL | 17002IQ | 02/21/2017 21:52:36 | 21:54:35 | 0.007 | 0.012 | 15 | 1.4 |
| BSRL | 17002IR | 02/21/2017 21:57:33 | 21:59:32 | 0.005 | 0.010 | 15 | 1.4 |
| BSRL | 17002IR | 02/21/2017 22:00:06 | 22:02:05 | 0.004 | 0.008 | 15 | 1.4 |
| BSRL | 17002IS | 02/21/2017 22:20:59 | 22:22:58 | 0.011 | 0.025 | 11 | 2.2 |
| BSRL | 17002IS | 02/21/2017 22:23:12 | 22:25:11 | 0.007 | 0.016 | 15 | 1.5 |
| BSRL | 17002IT | 02/21/2017 22:33:30 | 22:35:29 | 0.005 | 0.011 | 15 | 1.5 |
| BSRL | 17002IT | 02/21/2017 22:35:40 | 22:37:39 | 0.008 | 0.017 | 15 | 1.5 |
| BSRL | 17002IU | 02/21/2017 22:51:33 | 22:53:32 | 0.006 | 0.012 | 16 | 1.3 |
| BSRL | 17002IU | 02/21/2017 22:53:44 | 22:55:43 | 0.006 | 0.012 | 15 | 1.3 |
| BSRL | 17002IV | 02/21/2017 23:19:27 | 23:21:26 | 0.004 | 0.008 | 13 | 1.9 |
| BSRL | 17002IV | 02/21/2017 23:21:40 | 23:23:39 | 0.006 | 0.011 | 13 | 1.9 |
| DOTD | 17002IX | 02/22/2017 13:21:31 | 13:23:30 | 0.006 | 0.008 | 8 | 2.1 |
| DOTD | 17002IX | 02/22/2017 13:23:44 | 13:25:43 | 0.005 | 0.007 | 8 | 2.1 |
| DOTD | 17002IY | 02/22/2017 13:27:37 | 13:29:36 | 0.005 | 0.008 | 7 | 2.5 |
| DOTD | 17002IY | 02/22/2017 13:29:55 | 13:31:54 | 0.008 | 0.013 | 8 | 2.0 |
| DOTD | 17002IZ | 02/22/2017 13:42:34 | 13:44:33 | 0.003 | 0.005 | 16 | 1.4 |
| DOTD | 17002IZ | 02/22/2017 13:44:46 | 13:46:45 | 0.003 | 0.005 | 16 | 1.4 |
| DOTD | 17002JA | 02/22/2017 13:49:03 | 13:51:02 | 0.003 | 0.005 | 16 | 1.4 |
| DOTD | 17002JA | 02/22/2017 13:51:15 | 13:53:14 | 0.003 | 0.005 | 16 | 1.4 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| DOTD | 17002JB | 02/22/2017 14:32:38 | 14:34:37 | 0.004 | 0.009 | 16 | 1.5 |
| DOTD | 17002JB | 02/22/2017 14:35:01 | 14:37:00 | 0.004 | 0.009 | 16 | 1.4 |
| DOTD | 17002JC | 02/22/2017 14:43:07 | 14:45:06 | 0.003 | 0.007 | 15 | 1.5 |
| DOTD | 17002JC | 02/22/2017 14:45:19 | 14:48:31 | 0.003 | 0.007 | 15 | 1.5 |
| DOTD | 17002JD | 02/22/2017 15:26:58 | 15:28:57 | 0.006 | 0.012 | 11 | 3.0 |
| DOTD | 17002JD | 02/22/2017 15:29:12 | 15:31:11 | 0.006 | 0.011 | 12 | 2.1 |
| DOTD | 17002JE | 02/22/2017 15:59:43 | 16:01:42 | 0.006 | 0.010 | 14 | 1.3 |
| DOTD | 17002JE | 02/22/2017 16:02:09 | 16:04:08 | 0.006 | 0.010 | 15 | 1.3 |
| GVMS | 17002JF | 02/22/2017 16:30:54 | 16:32:53 | 0.003 | 0.005 | 16 | 1.3 |
| GVMS | 17002JF | 02/22/2017 16:33:37 | 16:35:36 | 0.003 | 0.005 | 15 | 1.4 |
| GVMS | 17002JG | 02/22/2017 16:39:53 | 16:41:52 | 0.006 | 0.009 | 15 | 1.4 |
| GVMS | 17002JG | 02/22/2017 16:42:04 | 16:44:03 | 0.005 | 0.007 | 16 | 1.2 |
| GVMS | 17002JH | 02/22/2017 17:14:10 | 17:16:09 | 0.010 | 0.014 | 15 | 1.5 |
| GVMS | 17002JH | 02/22/2017 17:16:22 | 17:18:21 | 0.007 | 0.010 | 15 | 1.5 |
| GVMS | 17002JI | 02/22/2017 17:22:23 | 17:24:22 | 0.005 | 0.008 | 14 | 1.6 |
| GVMS | 17002JI | 02/22/2017 17:24:33 | 17:26:32 | 0.006 | 0.009 | 14 | 1.6 |
| GVMS | 17002JJ | 02/22/2017 17:49:40 | 17:51:39 | 0.009 | 0.015 | 15 | 1.5 |
| GVMS | 17002JJ | 02/22/2017 17:51:52 | 17:53:51 | 0.011 | 0.020 | 15 | 1.5 |
| LUCH | 17002JK | 02/22/2017 18:10:11 | 18:12:10 | 0.004 | 0.008 | 16 | 1.3 |
| LUCH | 17002JK | 02/22/2017 18:12:20 | 18:14:19 | 0.006 | 0.012 | 16 | 1.3 |
| LUCH | 17002JL | 02/22/2017 18:21:07 | 18:23:06 | 0.006 | 0.011 | 15 | 1.4 |
| LUCH | 17002JL | 02/22/2017 18:23:22 | 18:25:21 | 0.005 | 0.010 | 14 | 1.5 |
| LUCH | 17002JM | 02/22/2017 18:56:28 | 18:58:27 | 0.004 | 0.007 | 13 | 1.8 |
| LUCH | 17002JM | 02/22/2017 18:58:47 | 19:00:46 | 0.004 | 0.007 | 14 | 1.5 |
| LUCH | 17002JN | 02/22/2017 19:04:04 | 19:06:03 | 0.003 | 0.006 | 13 | 1.8 |
| LUCH | 17002JN | 02/22/2017 19:06:11 | 19:08:10 | 0.003 | 0.005 | 13 | 1.8 |
| LUCH | 17002JO | 02/22/2017 19:19:32 | 19:21:31 | 0.005 | 0.009 | 11 | 3.8 |
| LUCH | 17002JO | 02/22/2017 19:21:57 | 19:23:56 | 0.010 | 0.019 | 11 | 3.8 |
| LUCH | 17002JP | 02/22/2017 19:44:21 | 19:46:20 | 0.006 | 0.010 | 12 | 1.8 |
| LUCH | 17002JP | 02/22/2017 19:46:33 | 19:48:32 | 0.008 | 0.013 | 12 | 1.8 |
| LUCH | 17002JQ | 02/22/2017 19:50:18 | 19:52:17 | 0.005 | 0.008 | 12 | 1.9 |
| LUCH | 17002JQ | 02/22/2017 19:52:31 | 19:54:30 | 0.006 | 0.009 | 13 | 1.5 |
| DSTR | 17002JR | 02/22/2017 20:16:22 | 20:18:21 | 0.005 | 0.008 | 14 | 1.4 |
| DSTR | 17002JR | 02/22/2017 20:18:33 | 20:20:32 | 0.004 | 0.006 | 14 | 1.4 |
| LWES | 17002JS | 02/22/2017 20:53:10 | 20:55:09 | 0.006 | 0.009 | 15 | 1.4 |
| LWES | 17002JS | 02/22/2017 20:55:30 | 20:57:29 | 0.006 | 0.010 | 15 | 1.4 |
| LWES | 17002JT | 02/22/2017 21:03:31 | 21:05:30 | 0.006 | 0.009 | 13 | 1.6 |
| LWES | 17002JT | 02/22/2017 21:05:54 | 21:07:53 | 0.011 | 0.018 | 13 | 1.6 |
| DSTR | 17002JU | 02/22/2017 21:40:03 | 21:42:02 | 0.005 | 0.008 | 14 | 1.6 |
| DSTR | 17002JU | 02/22/2017 21:42:16 | 21:44:15 | 0.006 | 0.011 | 14 | 1.7 |
| DSTR | 17002JV | 02/22/2017 21:45:55 | 21:47:54 | 0.009 | 0.017 | 14 | 1.5 |
| DSTR | 17002JV | 02/22/2017 21:48:03 | 21:50:02 | 0.005 | 0.009 | 15 | 1.4 |
| LUCH | 17002JW | 02/22/2017 22:09:09 | 22:11:08 | 0.005 | 0.013 | 12 | 2.4 |
| LUCH | 17002JW | 02/22/2017 22:11:27 | 22:13:26 | 0.006 | 0.015 | 13 | 2.3 |
| DSTR | 17002JX | 02/22/2017 23:02:17 | 23:04:16 | 0.005 | 0.009 | 16 | 1.3 |
| DSTR | 17002JX | 02/22/2017 23:04:37 | 23:06:36 | 0.005 | 0.010 | 15 | 1.4 |
| DSTR | 17002JY | 02/22/2017 23:19:03 | 23:21:02 | 0.005 | 0.010 | 13 | 2.0 |
| DSTR | 17002JY | 02/22/2017 23:21:49 | 23:23:48 | 0.005 | 0.009 | 13 | 2.0 |
| DSTR | 17002JZ | 02/23/2017 14:09:50 | 14:11:49 | 0.003 | 0.007 | 17 | 1.3 |
| DSTR | 17002JZ | 02/23/2017 14:11:59 | 14:13:58 | 0.004 | 0.008 | 17 | 1.3 |
| DSTR | 17002KA | 02/23/2017 14:16:49 | 14:18:48 | 0.005 | 0.011 | 16 | 1.4 |
| DSTR | 17002KA | 02/23/2017 14:19:03 | 14:21:02 | 0.005 | 0.011 | 16 | 1.4 |
| LWES | 17002KB | 02/23/2017 14:53:36 | 14:55:35 | 0.004 | 0.007 | 14 | 1.7 |
| LWES | 17002KB | 02/23/2017 14:55:59 | 14:57:58 | 0.004 | 0.007 | 16 | 1.4 |
| LWES | 17002KC | 02/23/2017 15:24:12 | 15:26:11 | 0.004 | 0.007 | 13 | 1.7 |
| LWES | 17002KC | 02/23/2017 15:26:37 | 15:28:36 | 0.004 | 0.007 | 15 | 1.4 |
| HOMA | 17002KD | 02/23/2017 16:13:09 | 16:15:08 | 0.005 | 0.009 | 16 | 1.3 |
| HOMA | 17002KD | 02/23/2017 16:15:22 | 16:17:21 | 0.005 | 0.009 | 16 | 1.3 |
| HOMA | 17002KE | 02/23/2017 16:36:13 | 16:38:12 | 0.006 | 0.009 | 17 | 1.1 |
| HOMA | 17002KE | 02/23/2017 16:38:47 | 16:40:46 | 0.006 | 0.009 | 16 | 1.2 |
| HOMA | 17002KF | 02/23/2017 16:44:14 | 16:46:13 | 0.006 | 0.009 | 15 | 1.4 |
| HOMA | 17002KF | 02/23/2017 16:46:23 | 16:48:37 | 0.006 | 0.009 | 15 | 1.4 |
| HOMA | 17002KG | 02/23/2017 16:56:35 | 16:58:34 | 0.007 | 0.011 | 15 | 1.4 |
| HOMA | 17002KG | 02/23/2017 16:58:50 | 17:00:49 | 0.006 | 0.009 | 15 | 1.5 |
| HOMA | 17002KH | 02/23/2017 17:14:36 | 17:16:35 | 0.006 | 0.009 | 15 | 1.4 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| HOMA | 17002KH | 02/23/2017 17:17:43 | 17:19:42 | 0.008 | 0.012 | 15 | 1.4 |
| PAUL | 17002KI | 02/23/2017 17:53:04 | 17:55:03 | 0.004 | 0.007 | 14 | 1.6 |
| PAUL | 17002KI | 02/23/2017 17:55:23 | 17:57:22 | 0.004 | 0.006 | 14 | 1.6 |
| PAUL | 17002KJ | 02/23/2017 18:13:15 | 18:15:14 | 0.003 | 0.006 | 14 | 1.3 |
| PAUL | 17002KJ | 02/23/2017 18:15:27 | 18:17:26 | 0.003 | 0.005 | 14 | 1.3 |
| PAUL | 17002KK | 02/23/2017 18:36:11 | 18:38:10 | 0.006 | 0.011 | 13 | 1.5 |
| PAUL | 17002KK | 02/23/2017 18:39:07 | 18:41:06 | 0.006 | 0.011 | 12 | 1.8 |
| TIBO | 17002KL | 02/23/2017 19:21:56 | 19:23:55 | 0.006 | 0.010 | 12 | 1.7 |
| TIBO | 17002KL | 02/23/2017 19:24:08 | 19:26:07 | 0.005 | 0.009 | 13 | 1.5 |
| TIBO | 17002KM | 02/23/2017 19:52:32 | 19:54:31 | 0.003 | 0.006 | 13 | 1.5 |
| TIBO | 17002KM | 02/23/2017 19:54:54 | 19:56:53 | 0.003 | 0.004 | 13 | 1.5 |
| MCHS | 17002KN | 02/23/2017 20:41:07 | 20:43:06 | 0.006 | 0.009 | 14 | 1.7 |
| MCHS | 17002KN | 02/23/2017 20:43:21 | 20:45:20 | 0.006 | 0.010 | 16 | 1.3 |
| MCHS | 17002KO | 02/23/2017 20:47:08 | 20:49:07 | 0.006 | 0.009 | 14 | 1.4 |
| MCHS | 17002KO | 02/23/2017 20:49:20 | 20:51:19 | 0.008 | 0.013 | 14 | 1.4 |
| AWES | 17002KP | 02/23/2017 21:20:48 | 21:22:47 | 0.005 | 0.009 | 14 | 1.6 |
| AWES | 17002KP | 02/23/2017 21:23:20 | 21:25:19 | 0.008 | 0.013 | 14 | 1.5 |
| DOTD | 17002KQ | 02/23/2017 22:16:29 | 22:18:29 | 0.009 | 0.024 | 6 | 5.9 |
| DOTD | 17002KQ | 02/23/2017 22:18:42 | 22:20:41 | 0.007 | 0.019 | 12 | 2.7 |
| DOTD | 17002KR | 02/23/2017 22:37:53 | 22:39:52 | 0.006 | 0.011 | 16 | 1.3 |
| DOTD | 17002KR | 02/23/2017 22:40:00 | 22:41:59 | 0.006 | 0.011 | 16 | 1.3 |
| SJHS | 17002SA | 03/21/2017 17:46:47 | 17:49:55 | 0.004 | 0.007 | 12 | 1.4 |
| SJHS | 17002SA | 03/21/2017 17:14:08 | 17:17:14 | 0.004 | 0.008 | 13 | 1.7 |
| SJHS | 17002SA | 03/21/2017 17:46:47 | 17:49:55 | 0.004 | 0.007 | 12 | 1.4 |
| SJHS | 17002SA | 03/21/2017 17:14:08 | 17:17:14 | 0.004 | 0.008 | 13 | 1.7 |
| COVG | 17002SB | 03/21/2017 18:31:19 | 18:34:23 | 0.004 | 0.006 | 14 | 1.6 |
| COVG | 17002SB | 03/21/2017 18:52:32 | 18:55:37 | 0.005 | 0.007 | 13 | 1.3 |
| COVG | 17002SB | 03/21/2017 18:56:16 | 18:57:36 | 0.005 | 0.008 | 13 | 1.4 |
| COVG | 17002SB | 03/21/2017 18:31:19 | 18:34:23 | 0.004 | 0.006 | 14 | 1.6 |
| COVG | 17002SB | 03/21/2017 18:52:32 | 18:55:37 | 0.005 | 0.007 | 13 | 1.3 |
| COVG | 17002SB | 03/21/2017 18:56:16 | 18:57:36 | 0.005 | 0.008 | 13 | 1.4 |
| HAMM | 17002SC | 03/21/2017 19:30:06 | 19:33:12 | 0.004 | 0.006 | 13 | 1.5 |
| HAMM | 17002SC | 03/21/2017 19:50:14 | 19:53:20 | 0.004 | 0.008 | 14 | 1.4 |
| HAMM | 17002SC | 03/21/2017 20:00:24 | 20:03:32 | 0.004 | 0.007 | 14 | 1.4 |
| HAMM | 17002SC | 03/21/2017 19:30:06 | 19:33:12 | 0.004 | 0.006 | 13 | 1.5 |
| HAMM | 17002SC | 03/21/2017 19:50:14 | 19:53:20 | 0.004 | 0.008 | 14 | 1.4 |
| HAMM | 17002SC | 03/21/2017 20:00:24 | 20:03:32 | 0.004 | 0.007 | 14 | 1.4 |
| HAMM | 17002SD | 03/21/2017 20:32:07 | 20:35:14 | 0.008 | 0.015 | 13 | 2.1 |
| HAMM | 17002SD | 03/21/2017 20:32:07 | 20:35:14 | 0.008 | 0.015 | 13 | 2.1 |
| COVG | 17002SE | 03/21/2017 21:08:15 | 21:11:22 | 0.004 | 0.008 | 12 | 1.3 |
| COVG | 17002SE | 03/21/2017 21:08:15 | 21:11:22 | 0.004 | 0.008 | 12 | 1.3 |
| HAMM | 17002SF | 03/21/2017 21:59:17 | 22:02:31 | 0.005 | 0.011 | 12 | 2.0 |
| HAMM | 17002SF | 03/21/2017 21:59:17 | 22:02:31 | 0.005 | 0.011 | 12 | 2.0 |
| HAMM | 17002SG | 03/21/2017 23:05:47 | 23:08:52 | 0.007 | 0.011 | 13 | 1.7 |
| HAMM | 17002SG | 03/21/2017 23:26:32 | 23:29:41 | 0.006 | 0.009 | 15 | 1.4 |
| HAMM | 17002SG | 03/21/2017 23:05:47 | 23:08:52 | 0.007 | 0.011 | 13 | 1.7 |
| HAMM | 17002SG | 03/21/2017 23:26:32 | 23:29:41 | 0.006 | 0.009 | 15 | 1.4 |
| GVMS | 17002SH | 03/22/2017 13:24:57 | 13:28:02 | 0.004 | 0.008 | 12 | 2.2 |
| GVMS | 17002SI | 03/22/2017 14:31:15 | 14:34:27 | 0.006 | 0.011 | 10 | 2.8 |
| AWES | 17002SJ | 03/22/2017 15:14:37 | 15:17:43 | 0.005 | 0.006 | 13 | 1.4 |
| GVMS | 17002SK | 03/22/2017 17:27:00 | 17:30:04 | 0.007 | 0.011 | 13 | 1.7 |
| SJHS | 17002XA | 03/21/2017 17:42:29 | 17:45:36 | 0.004 | 0.007 | 13 | 1.3 |
| SJHS | 17002XA | 03/21/2017 17:19:10 | 17:22:13 | 0.004 | 0.007 | 13 | 1.4 |
| SJHS | 17002XA | 03/21/2017 17:42:29 | 17:45:36 | 0.004 | 0.007 | 13 | 1.3 |
| SJHS | 17002XA | 03/21/2017 17:19:10 | 17:22:13 | 0.004 | 0.007 | 13 | 1.4 |
| COVG | 17002XB | 03/21/2017 18:36:20 | 18:39:22 | 0.004 | 0.006 | 15 | 1.4 |
| COVG | 17002XB | 03/21/2017 18:49:43 | 18:51:43 | 0.004 | 0.006 | 15 | 1.4 |
| COVG | 17002XB | 03/21/2017 18:36:20 | 18:39:22 | 0.004 | 0.006 | 15 | 1.4 |
| COVG | 17002XB | 03/21/2017 18:49:43 | 18:51:43 | 0.004 | 0.006 | 15 | 1.4 |
| HAMM | 17002XC | 03/21/2017 19:45:27 | 19:48:32 | 0.003 | 0.006 | 14 | 1.4 |
| HAMM | 17002XC | 03/21/2017 20:07:33 | 20:10:42 | 0.004 | 0.008 | 10 | 1.7 |
| HAMM | 17002XC | 03/21/2017 19:45:27 | 19:48:32 | 0.003 | 0.006 | 14 | 1.4 |
| HAMM | 17002XC | 03/21/2017 20:07:33 | 20:10:42 | 0.004 | 0.008 | 10 | 1.7 |
| HAMM | 17002XD | 03/21/2017 20:36:24 | 20:39:36 | 0.004 | 0.010 | 14 | 1.9 |
| HAMM | 17002XD | 03/21/2017 20:36:24 | 20:39:36 | 0.004 | 0.010 | 14 | 1.9 |

| GPS BASE | GPSID | UTC Start | UTC End | Horz Prec | Vert Prec | # of SV's | PDOP |
|----------|---------|---------------------|----------|-----------|-----------|-----------|------|
| COVG | 17002XE | 03/21/2017 21:14:13 | 21:17:24 | 0.003 | 0.006 | 14 | 1.3 |
| COVG | 17002XE | 03/21/2017 21:14:13 | 21:17:24 | 0.003 | 0.006 | 14 | 1.3 |
| HAMM | 17002XF | 03/21/2017 22:05:09 | 22:08:16 | 0.006 | 0.010 | 15 | 1.5 |
| HAMM | 17002XF | 03/21/2017 22:05:09 | 22:08:16 | 0.006 | 0.010 | 15 | 1.5 |
| HAMM | 17002XG | 03/21/2017 23:11:44 | 23:14:45 | 0.007 | 0.011 | 13 | 1.6 |
| HAMM | 17002XG | 03/21/2017 23:21:41 | 23:24:42 | 0.006 | 0.009 | 14 | 1.5 |
| HAMM | 17002XG | 03/21/2017 23:11:44 | 23:14:45 | 0.007 | 0.011 | 13 | 1.6 |
| HAMM | 17002XG | 03/21/2017 23:21:41 | 23:24:42 | 0.006 | 0.009 | 14 | 1.5 |
| GVMS | 17002XH | 03/22/2017 13:29:52 | 13:33:03 | 0.005 | 0.013 | 10 | 2.5 |
| GVMS | 17002XI | 03/22/2017 14:37:44 | 14:40:54 | 0.005 | 0.007 | 11 | 1.6 |
| AWES | 17002XJ | 03/22/2017 15:19:33 | 15:22:40 | 0.005 | 0.008 | 13 | 2.1 |
| GVMS | 17002XK | 03/22/2017 17:31:33 | 17:34:36 | 0.006 | 0.010 | 13 | 1.7 |

Three occupations were rejected, denoted in the table above by ~~strikethrough~~.

PROCESSING

The VRS/RTK data collected and stored as vectors was downloaded to a PC and input to a database. The VRS/RTK vectors were repeated, as described above. The repeat occupations were done immediately after the initial observations, with a re-initialization in between. The Earth Centered Earth Fixed (ECEF) vector differences were rotated into a local horizon system for analysis (all values in meters):

Table 3 - Repeat Baseline Analysis

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| BSRL | 17002AA | 0.004 | -0.002 | 0.005 | 0.006 | 31461 |
| DOTD | 17002AB | 0.017 | -0.013 | 0.021 | -0.035 | 22368 |
| DOTD | 17002AB | -0.007 | 0.012 | 0.014 | 0.018 | 22368 |
| DOTD | 17002AB | -0.024 | 0.024 | 0.034 | 0.053 | 22368 |
| BSRL | 17002AC | -0.007 | -0.005 | 0.009 | -0.012 | 10654 |
| BSRL | 17002AD | 0.002 | -0.001 | 0.002 | 0.003 | 7934 |
| DOTD | 17002AE | -0.004 | 0.004 | 0.006 | -0.009 | 14862 |
| MCHS | 17002AF | 0.009 | -0.007 | 0.012 | -0.001 | 18479 |
| DOTD | 17002AG | 0.000 | 0.002 | 0.002 | -0.002 | 2938 |
| BSRL | 17002AH | -0.004 | 0.001 | 0.004 | 0.005 | 15430 |
| DOTD | 17002AI | 0.005 | 0.004 | 0.006 | 0.004 | 13045 |
| AWES | 17002AJ | -0.005 | -0.006 | 0.008 | 0.021 | 20245 |
| BSRL | 17002AK | 0.003 | 0.002 | 0.003 | 0.013 | 21709 |
| MCHS | 17002AL | 0.002 | 0.002 | 0.003 | -0.002 | 21235 |
| MCHS | 17002AM | 0.002 | 0.002 | 0.002 | -0.020 | 12946 |
| GVMS | 17002AN | -0.006 | 0.001 | 0.006 | -0.007 | 14538 |
| GVMS | 17002AO | 0.004 | -0.002 | 0.005 | -0.006 | 9537 |
| AWES | 17002AP | -0.001 | 0.000 | 0.001 | -0.009 | 3527 |
| AWES | 17002AQ | -0.006 | -0.006 | 0.008 | -0.012 | 24642 |
| AWES | 17002AQ | 0.023 | -0.021 | 0.031 | 0.047 | 24642 |
| AWES | 17002AQ | 0.028 | -0.014 | 0.032 | 0.059 | 24642 |
| MCHS | 17002AR | -0.014 | -0.006 | 0.015 | 0.007 | 27348 |
| GVMS | 17002AS | -0.003 | -0.001 | 0.003 | -0.007 | 15356 |
| AWES | 17002AT | 0.004 | 0.005 | 0.006 | -0.005 | 12588 |
| GVMS | 17002AU | -0.006 | -0.001 | 0.006 | 0.002 | 10432 |
| LUCH | 17002AV | 0.000 | -0.006 | 0.006 | -0.009 | 21301 |
| HAMM | 17002AW | 0.010 | 0.005 | 0.012 | -0.071 | 36763 |
| HAMM | 17002AW | 0.001 | 0.009 | 0.009 | -0.054 | 36763 |
| HAMM | 17002AW | 0.013 | -0.001 | 0.013 | -0.043 | 36763 |
| HAMM | 17002AW | 0.004 | 0.003 | 0.005 | -0.025 | 36763 |
| HAMM | 17002AW | -0.009 | 0.004 | 0.010 | 0.017 | 36763 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|----------|---------|---------|---------|-------|---------|--------|
| HAMM | 17002AW | 0.002 | -0.006 | 0.007 | 0.028 | 36763 |
| LUCH | 17002AX | -0.002 | 0.002 | 0.003 | -0.008 | 12819 |
| HAMM | 17002AY | -0.006 | -0.007 | 0.009 | -0.008 | 31168 |
| HOMA | 17002AZ | -0.002 | -0.002 | 0.002 | -0.002 | 20958 |
| LUCH | 17002BA | -0.002 | 0.002 | 0.003 | 0.003 | 11386 |
| LUCH | 17002BB | -0.003 | 0.001 | 0.003 | -0.020 | 2837 |
| LUCH | 17002BC | -0.001 | -0.004 | 0.004 | 0.019 | 18484 |
| LUCH | 17002BD | -0.013 | -0.016 | 0.021 | 0.016 | 24653 |
| LUCH | 17002BE | -0.008 | 0.000 | 0.008 | 0.003 | 7551 |
| HOMA | 17002BF | -0.005 | 0.015 | 0.016 | 0.020 | 19315 |
| HAMM | 17002BG | 0.007 | -0.013 | 0.015 | 0.001 | 16721 |
| LUCH | 17002BH | 0.005 | 0.005 | 0.007 | 0.010 | 11550 |
| DSTR | 17002BK | -0.003 | -0.001 | 0.003 | 0.000 | 9396 |
| DSTR | 17002BL | -0.007 | -0.002 | 0.007 | -0.017 | 25089 |
| HAMM | 17002BM | 0.008 | -0.001 | 0.008 | 0.000 | 12922 |
| LWES | 17002BN | -0.005 | 0.001 | 0.005 | -0.007 | 8889 |
| HAMM | 17002BO | -0.005 | 0.005 | 0.007 | 0.003 | 22738 |
| DSTR | 17002BP | -0.004 | -0.006 | 0.007 | 0.011 | 12206 |
| PAUL | 17002BQ | 0.002 | 0.004 | 0.004 | -0.005 | 14627 |
| COVG | 17002BR | 0.003 | 0.001 | 0.003 | 0.017 | 22476 |
| PAUL | 17002BS | -0.007 | -0.001 | 0.007 | -0.001 | 4393 |
| INRI | 17002BT | -0.001 | 0.011 | 0.011 | -0.002 | 18386 |
| DSTR | 17002BU | -0.004 | -0.002 | 0.004 | 0.003 | 12485 |
| COVG | 17002BV | 0.010 | 0.005 | 0.011 | 0.002 | 14504 |
| INRI | 17002BW | 0.002 | -0.003 | 0.003 | -0.007 | 7831 |
| INRI | 17002BX | 0.005 | 0.004 | 0.006 | 0.000 | 21018 |
| INRI | 17002BY | 0.007 | -0.002 | 0.007 | 0.003 | 9617 |
| COVG | 17002BZ | -0.005 | 0.001 | 0.006 | 0.013 | 10188 |
| INRI | 17002CA | -0.009 | -0.003 | 0.010 | 0.007 | 11660 |
| INRI | 17002CB | 0.006 | 0.006 | 0.008 | 0.026 | 19398 |
| INRI | 17002CC | -0.008 | 0.011 | 0.014 | 0.024 | 15495 |
| SJHS | 17002CD | -0.001 | 0.004 | 0.005 | 0.004 | 15670 |
| MARY | 17002CE | 0.007 | 0.002 | 0.007 | 0.007 | 11203 |
| MARY | 17002CF | 0.009 | -0.011 | 0.014 | 0.015 | 33629 |
| MARY | 17002CG | 0.001 | -0.001 | 0.001 | -0.003 | 17409 |
| MARY | 17002CH | -0.009 | 0.003 | 0.009 | 0.008 | 27171 |
| MARY | 17002CI | -0.001 | -0.003 | 0.003 | -0.018 | 39861 |
| MARY | 17002CJ | 0.006 | 0.001 | 0.006 | -0.029 | 24552 |
| MARY | 17002CJ | 0.006 | -0.003 | 0.007 | 0.000 | 24552 |
| MARY | 17002CJ | 0.000 | -0.004 | 0.004 | 0.028 | 24552 |
| DOTD | 17002CY | -0.013 | 0.006 | 0.014 | 0.004 | 22047 |
| LWES | 17002CZ | 0.003 | -0.001 | 0.003 | -0.004 | 13943 |
| VRS_0315 | 17002DA | 0.003 | 0.006 | 0.007 | 0.013 | 23 |
| INRI | 17002DC | 0.003 | -0.007 | 0.008 | 0.008 | 6451 |
| INRI | 17002DD | -0.010 | 0.004 | 0.011 | -0.025 | 12821 |
| INRI | 17002DD | -0.012 | 0.002 | 0.012 | -0.022 | 12821 |
| INRI | 17002DD | 0.002 | 0.001 | 0.002 | -0.004 | 12821 |
| INRI | 17002DE | 0.003 | 0.009 | 0.010 | 0.009 | 15814 |
| INRI | 17002DF | -0.001 | 0.003 | 0.004 | -0.008 | 17489 |
| INRI | 17002DG | -0.003 | 0.003 | 0.004 | -0.009 | 18069 |
| INRI | 17002DH | 0.003 | 0.004 | 0.005 | 0.001 | 12088 |
| INRI | 17002DI | 0.004 | 0.004 | 0.006 | 0.019 | 3866 |
| INRI | 17002DJ | 0.008 | 0.008 | 0.011 | -0.005 | 9583 |
| INRI | 17002DJ | 0.010 | 0.010 | 0.014 | 0.046 | 9583 |
| INRI | 17002DJ | 0.003 | 0.002 | 0.003 | 0.051 | 9583 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| INRI | 17002DK | -0.001 | 0.011 | 0.011 | 0.010 | 15463 |
| INRI | 17002DL | -0.001 | -0.003 | 0.003 | 0.010 | 6625 |
| INRI | 17002DM | -0.005 | -0.001 | 0.005 | 0.013 | 6756 |
| INRI | 17002DN | -0.002 | -0.006 | 0.006 | 0.017 | 5612 |
| INRI | 17002DO | -0.002 | -0.006 | 0.006 | -0.014 | 12638 |
| INRI | 17002DP | 0.001 | -0.009 | 0.010 | 0.022 | 13137 |
| INRI | 17002DQ | 0.005 | 0.004 | 0.007 | -0.010 | 3373 |
| MARY | 17002DR | 0.003 | -0.002 | 0.004 | -0.008 | 7786 |
| MARY | 17002DS | 0.002 | -0.001 | 0.003 | 0.007 | 1334 |
| MARY | 17002DT | 0.006 | -0.002 | 0.007 | 0.013 | 4889 |
| MARY | 17002DU | -0.002 | -0.001 | 0.002 | -0.012 | 11519 |
| SJHS | 17002DV | -0.004 | 0.001 | 0.004 | 0.016 | 7039 |
| MARY | 17002DW | 0.001 | -0.003 | 0.003 | -0.008 | 15450 |
| MARY | 17002DX | 0.009 | 0.000 | 0.009 | 0.007 | 6281 |
| MARY | 17002DY | -0.005 | 0.001 | 0.005 | -0.009 | 7596 |
| MARY | 17002DZ | -0.008 | 0.005 | 0.009 | -0.005 | 9387 |
| MARY | 17002EA | 0.003 | 0.004 | 0.005 | 0.006 | 16376 |
| MARY | 17002EB | -0.002 | -0.001 | 0.002 | 0.007 | 19521 |
| MARY | 17002EC | -0.003 | 0.002 | 0.004 | 0.007 | 22701 |
| MARY | 17002ED | -0.007 | -0.001 | 0.007 | -0.009 | 24363 |
| MARY | 17002EE | -0.002 | 0.007 | 0.007 | 0.004 | 30047 |
| MARY | 17002EF | 0.001 | 0.002 | 0.002 | -0.004 | 35317 |
| MARY | 17002EG | 0.002 | -0.001 | 0.002 | -0.008 | 34414 |
| MARY | 17002EG | 0.001 | 0.010 | 0.010 | 0.028 | 34414 |
| MARY | 17002EG | -0.001 | 0.011 | 0.011 | 0.036 | 34414 |
| MARY | 17002EH | 0.000 | -0.002 | 0.002 | 0.005 | 32167 |
| MARY | 17002EI | 0.000 | 0.008 | 0.008 | 0.010 | 31233 |
| MARY | 17002EJ | -0.010 | -0.005 | 0.011 | 0.003 | 27876 |
| SJHS | 17002EK | 0.002 | -0.003 | 0.004 | 0.026 | 5750 |
| SJHS | 17002EL | -0.002 | -0.002 | 0.003 | -0.008 | 10299 |
| SJHS | 17002EM | -0.005 | -0.003 | 0.006 | 0.020 | 19057 |
| COVG | 17002EN | -0.004 | 0.000 | 0.005 | -0.042 | 8573 |
| COVG | 17002EN | 0.000 | 0.001 | 0.001 | -0.036 | 8573 |
| COVG | 17002EN | -0.004 | -0.001 | 0.004 | -0.006 | 8573 |
| COVG | 17002EO | 0.000 | -0.004 | 0.004 | -0.003 | 12533 |
| COVG | 17002EP | 0.005 | 0.003 | 0.006 | 0.013 | 12570 |
| COVG | 17002EQ | -0.002 | 0.004 | 0.004 | 0.010 | 22069 |
| HAMM | 17002ER | -0.004 | 0.003 | 0.005 | -0.005 | 6799 |
| HAMM | 17002ES | -0.008 | -0.009 | 0.012 | 0.017 | 8942 |
| HAMM | 17002ET | 0.005 | -0.002 | 0.005 | -0.018 | 5507 |
| HAMM | 17002EU | -0.004 | 0.000 | 0.004 | -0.031 | 17664 |
| HAMM | 17002EU | -0.005 | -0.005 | 0.007 | -0.018 | 17664 |
| HAMM | 17002EU | -0.001 | -0.005 | 0.005 | 0.013 | 17664 |
| HAMM | 17002EV | -0.006 | -0.005 | 0.008 | -0.010 | 26768 |
| DSTR | 17002EW | 0.012 | 0.000 | 0.012 | 0.001 | 27786 |
| HAMM | 17002EX | -0.009 | -0.002 | 0.009 | 0.017 | 17053 |
| HAMM | 17002EY | -0.001 | 0.001 | 0.001 | 0.003 | 27304 |
| HAMM | 17002EZ | 0.005 | 0.010 | 0.011 | -0.016 | 32015 |
| GVMS | 17002FA | -0.005 | 0.006 | 0.008 | -0.001 | 12434 |
| GVMS | 17002FB | 0.001 | 0.003 | 0.003 | -0.010 | 16967 |
| GVMS | 17002FC | 0.005 | 0.002 | 0.005 | -0.016 | 19931 |
| GVMS | 17002FD | -0.008 | -0.005 | 0.009 | 0.013 | 26140 |
| GVMS | 17002FE | -0.003 | 0.003 | 0.004 | 0.005 | 30563 |
| GVMS | 17002FF | 0.002 | 0.002 | 0.002 | 0.010 | 36016 |
| GVMS | 17002FG | 0.003 | -0.008 | 0.008 | 0.001 | 35435 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| GVMS | 17002FH | 0.003 | -0.017 | 0.017 | -0.011 | 36804 |
| GVMS | 17002FI | -0.002 | 0.002 | 0.003 | -0.016 | 38575 |
| GVMS | 17002FJ | -0.003 | -0.007 | 0.007 | -0.011 | 41791 |
| HAMM | 17002FJ | 0.001 | 0.008 | 0.008 | -0.010 | 6125 |
| GVMS | 17002FJ | 0.003 | 0.003 | 0.005 | -0.004 | 41791 |
| HAMM | 17002FJ | 0.006 | -0.001 | 0.006 | 0.001 | 6125 |
| GVMS | 17002FJ | 0.006 | 0.010 | 0.012 | 0.007 | 41791 |
| HAMM | 17002FJ | 0.005 | -0.008 | 0.009 | 0.011 | 6125 |
| HAMM | 17002FK | 0.002 | 0.008 | 0.008 | -0.010 | 7342 |
| HAMM | 17002FK | 0.017 | 0.010 | 0.020 | 0.022 | 7342 |
| HAMM | 17002FK | 0.015 | 0.002 | 0.015 | 0.032 | 7342 |
| HAMM | 17002FL | -0.004 | 0.001 | 0.005 | -0.002 | 15560 |
| HAMM | 17002FM | 0.004 | -0.001 | 0.004 | 0.013 | 18184 |
| HAMM | 17002FN | 0.002 | 0.001 | 0.002 | 0.026 | 22824 |
| GVMS | 17002FO | -0.007 | -0.003 | 0.007 | 0.017 | 17940 |
| GVMS | 17002FP | -0.003 | -0.002 | 0.003 | -0.007 | 13189 |
| GVMS | 17002FQ | 0.000 | 0.001 | 0.001 | 0.003 | 10720 |
| GVMS | 17002FR | -0.013 | 0.001 | 0.013 | -0.008 | 14820 |
| HAMM | 17002FS | 0.002 | 0.000 | 0.002 | 0.002 | 26356 |
| GVMS | 17002FT | -0.001 | 0.000 | 0.001 | -0.001 | 24910 |
| GVMS | 17002FU | 0.005 | 0.004 | 0.006 | -0.010 | 18892 |
| GVMS | 17002FV | -0.002 | -0.001 | 0.002 | -0.010 | 3597 |
| GVMS | 17002FW | -0.001 | 0.002 | 0.003 | -0.006 | 7245 |
| DSTR | 17002HA | -0.004 | -0.004 | 0.005 | 0.004 | 14182 |
| DSTR | 17002HA | -0.001 | 0.005 | 0.005 | 0.006 | 14182 |
| DSTR | 17002HA | -0.005 | 0.001 | 0.005 | 0.010 | 14182 |
| DSTR | 17002HB | 0.003 | -0.003 | 0.004 | 0.021 | 12473 |
| LWES | 17002HD | 0.000 | 0.007 | 0.007 | 0.007 | 17923 |
| LWES | 17002HE | -0.006 | -0.005 | 0.008 | -0.028 | 18118 |
| LWES | 17002HE | -0.003 | 0.004 | 0.006 | 0.002 | 18118 |
| LWES | 17002HE | 0.003 | 0.009 | 0.010 | 0.030 | 18118 |
| HOMA | 17002HF | -0.010 | 0.020 | 0.022 | 0.005 | 25011 |
| HOMA | 17002HG | -0.012 | -0.005 | 0.013 | -0.003 | 24957 |
| HOMA | 17002HH | 0.003 | -0.002 | 0.003 | -0.002 | 19640 |
| HOMA | 17002HI | 0.006 | 0.005 | 0.008 | -0.006 | 19610 |
| HOMA | 17002HJ | -0.005 | 0.004 | 0.006 | 0.023 | 18932 |
| PAUL | 17002HK | -0.008 | -0.004 | 0.009 | -0.034 | 14480 |
| PAUL | 17002HK | -0.012 | -0.004 | 0.013 | -0.030 | 14480 |
| PAUL | 17002HK | -0.005 | -0.001 | 0.005 | 0.003 | 14480 |
| PAUL | 17002HL | 0.003 | -0.004 | 0.005 | -0.017 | 13461 |
| PAUL | 17002HM | 0.002 | 0.006 | 0.006 | 0.008 | 6838 |
| HOMA | 17002HN | -0.007 | -0.006 | 0.009 | -0.036 | 19241 |
| HOMA | 17002HN | 0.000 | 0.018 | 0.018 | 0.001 | 19241 |
| HOMA | 17002HN | 0.007 | 0.024 | 0.025 | 0.037 | 19241 |
| HOMA | 17002HO | -0.018 | -0.006 | 0.019 | -0.016 | 18542 |
| HOMA | 17002HP | -0.002 | -0.013 | 0.013 | -0.020 | 20885 |
| HOMA | 17002HQ | -0.012 | -0.007 | 0.014 | -0.032 | 30988 |
| HOMA | 17002HQ | 0.016 | 0.016 | 0.023 | 0.004 | 30988 |
| HOMA | 17002HQ | 0.028 | 0.024 | 0.037 | 0.036 | 30988 |
| MCHS | 17002HR | -0.002 | -0.002 | 0.002 | -0.021 | 25759 |
| AWES | 17002HS | 0.010 | 0.017 | 0.020 | 0.022 | 24649 |
| LUCH | 17002HT | -0.011 | -0.001 | 0.011 | -0.019 | 23249 |
| LUCH | 17002HU | -0.007 | 0.003 | 0.007 | 0.016 | 19851 |
| LUCH | 17002HV | -0.002 | 0.000 | 0.002 | -0.004 | 12020 |
| LUCH | 17002HW | -0.002 | 0.003 | 0.003 | -0.005 | 8922 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| LUCH | 17002HX | -0.003 | -0.003 | 0.004 | -0.003 | 9470 |
| LUCH | 17002HY | -0.002 | 0.005 | 0.005 | -0.005 | 17824 |
| LUCH | 17002HZ | -0.007 | 0.004 | 0.008 | 0.010 | 17925 |
| AWES | 17002IA | 0.003 | 0.001 | 0.003 | -0.004 | 3713 |
| AWES | 17002IB | -0.004 | -0.002 | 0.004 | -0.023 | 3044 |
| GVMS | 17002IC | 0.003 | 0.002 | 0.004 | 0.010 | 25721 |
| GVMS | 17002ID | -0.003 | 0.005 | 0.006 | -0.011 | 25256 |
| BSRL | 17002IE | 0.001 | 0.021 | 0.021 | 0.010 | 22652 |
| BSRL | 17002IF | -0.001 | -0.015 | 0.015 | -0.009 | 23867 |
| BSRL | 17002IG | 0.009 | 0.005 | 0.010 | -0.021 | 28967 |
| AWES | 17002IH | -0.007 | -0.005 | 0.008 | -0.002 | 15504 |
| AWES | 17002IH | 0.009 | -0.009 | 0.013 | 0.028 | 15504 |
| AWES | 17002IH | 0.016 | -0.004 | 0.017 | 0.029 | 15504 |
| AWES | 17002II | 0.007 | 0.002 | 0.008 | -0.025 | 17544 |
| AWES | 17002II | 0.009 | -0.002 | 0.009 | -0.017 | 17544 |
| AWES | 17002II | 0.001 | -0.005 | 0.005 | 0.007 | 17544 |
| MCHS | 17002IJ | 0.005 | 0.002 | 0.005 | 0.007 | 23179 |
| MCHS | 17002IK | 0.005 | 0.004 | 0.007 | -0.018 | 23184 |
| AWES | 17002IL | 0.011 | 0.002 | 0.011 | 0.003 | 14198 |
| BSRL | 17002IM | 0.000 | -0.013 | 0.013 | -0.076 | 19018 |
| BSRL | 17002IM | 0.017 | -0.005 | 0.018 | -0.075 | 19018 |
| BSRL | 17002IM | -0.001 | -0.006 | 0.006 | -0.051 | 19018 |
| BSRL | 17002IM | -0.019 | -0.014 | 0.024 | -0.051 | 19018 |
| BSRL | 17002IM | 0.019 | 0.001 | 0.019 | -0.024 | 19018 |
| BSRL | 17002IM | -0.018 | -0.008 | 0.019 | 0.000 | 19018 |
| BSRL | 17002IN | -0.005 | 0.002 | 0.005 | -0.008 | 22236 |
| BSRL | 17002IO | -0.001 | -0.001 | 0.001 | 0.004 | 3719 |
| BSRL | 17002IP | -0.006 | 0.005 | 0.008 | 0.011 | 5994 |
| BSRL | 17002IQ | 0.001 | 0.001 | 0.002 | 0.000 | 12745 |
| BSRL | 17002IR | 0.009 | -0.003 | 0.010 | 0.024 | 12528 |
| BSRL | 17002IS | -0.005 | -0.001 | 0.005 | -0.007 | 15455 |
| BSRL | 17002IT | 0.005 | 0.003 | 0.006 | -0.004 | 16277 |
| BSRL | 17002IU | -0.002 | 0.002 | 0.003 | 0.006 | 13345 |
| BSRL | 17002IV | 0.002 | 0.003 | 0.003 | -0.001 | 12892 |
| DOTD | 17002IX | -0.002 | 0.001 | 0.003 | -0.006 | 13109 |
| DOTD | 17002IY | -0.005 | 0.001 | 0.005 | -0.006 | 13051 |
| DOTD | 17002IZ | 0.002 | -0.003 | 0.004 | 0.000 | 6549 |
| DOTD | 17002JA | -0.005 | -0.003 | 0.006 | 0.006 | 6572 |
| DOTD | 17002JB | 0.003 | 0.002 | 0.003 | -0.009 | 10768 |
| DOTD | 17002JC | 0.006 | -0.001 | 0.006 | -0.003 | 7371 |
| DOTD | 17002JD | 0.000 | -0.003 | 0.003 | 0.000 | 10507 |
| DOTD | 17002JE | 0.007 | 0.000 | 0.007 | 0.004 | 15747 |
| GVMS | 17002JF | 0.002 | 0.003 | 0.003 | 0.010 | 6859 |
| GVMS | 17002JG | 0.005 | 0.004 | 0.006 | 0.004 | 8168 |
| GVMS | 17002JH | 0.000 | 0.000 | 0.000 | 0.003 | 12456 |
| GVMS | 17002JI | 0.001 | -0.005 | 0.006 | 0.006 | 11744 |
| GVMS | 17002JJ | 0.000 | -0.001 | 0.001 | 0.004 | 13529 |
| LUCH | 17002JK | -0.004 | 0.002 | 0.005 | -0.003 | 11394 |
| LUCH | 17002JL | -0.005 | -0.003 | 0.006 | 0.004 | 8261 |
| LUCH | 17002JM | 0.003 | 0.004 | 0.005 | 0.010 | 2992 |
| LUCH | 17002JN | 0.006 | -0.001 | 0.006 | 0.013 | 2092 |
| LUCH | 17002JO | 0.009 | -0.002 | 0.009 | 0.017 | 6687 |
| LUCH | 17002JP | 0.013 | -0.003 | 0.013 | -0.017 | 13079 |
| LUCH | 17002JQ | 0.011 | 0.000 | 0.011 | -0.007 | 13081 |
| DSTR | 17002JR | -0.002 | 0.006 | 0.006 | -0.001 | 5042 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| LWES | 17002JS | 0.005 | 0.007 | 0.008 | -0.002 | 14267 |
| LWES | 17002JT | 0.002 | 0.005 | 0.006 | -0.009 | 10004 |
| DSTR | 17002JU | -0.011 | -0.007 | 0.013 | 0.014 | 14928 |
| DSTR | 17002JV | 0.007 | -0.005 | 0.009 | 0.006 | 14956 |
| LUCH | 17002JW | -0.005 | 0.000 | 0.005 | -0.012 | 11541 |
| DSTR | 17002JX | 0.001 | -0.003 | 0.003 | 0.007 | 10336 |
| DSTR | 17002JY | -0.002 | -0.001 | 0.002 | 0.006 | 15204 |
| DSTR | 17002JZ | 0.001 | 0.001 | 0.002 | 0.005 | 8952 |
| DSTR | 17002KA | 0.000 | 0.001 | 0.001 | -0.001 | 8255 |
| LWES | 17002KB | -0.007 | 0.002 | 0.007 | 0.000 | 8336 |
| LWES | 17002KC | -0.004 | 0.000 | 0.004 | 0.008 | 3150 |
| HOMA | 17002KD | -0.007 | -0.001 | 0.007 | 0.002 | 18880 |
| HOMA | 17002KE | -0.003 | 0.000 | 0.003 | -0.001 | 26041 |
| HOMA | 17002KF | 0.000 | 0.001 | 0.001 | 0.004 | 26342 |
| HOMA | 17002KG | -0.003 | 0.004 | 0.005 | 0.009 | 21596 |
| HOMA | 17002KH | -0.007 | 0.002 | 0.008 | -0.010 | 21764 |
| PAUL | 17002KI | -0.003 | -0.003 | 0.004 | -0.003 | 8844 |
| PAUL | 17002KJ | 0.005 | -0.003 | 0.005 | -0.001 | 4196 |
| PAUL | 17002KK | -0.001 | 0.001 | 0.001 | -0.006 | 19719 |
| TIBO | 17002KL | -0.001 | -0.006 | 0.006 | -0.014 | 11661 |
| TIBO | 17002KM | -0.003 | 0.007 | 0.007 | 0.009 | 1877 |
| MCHS | 17002KN | -0.006 | 0.001 | 0.006 | 0.008 | 19317 |
| MCHS | 17002KO | 0.003 | -0.007 | 0.008 | -0.021 | 19327 |
| AWES | 17002KP | -0.002 | 0.006 | 0.006 | 0.021 | 13202 |
| DOTD | 17002KQ | -0.005 | -0.002 | 0.006 | 0.022 | 21695 |
| DOTD | 17002KR | 0.011 | -0.001 | 0.011 | -0.005 | 25377 |
| SJHS | 17002SA | 0.003 | 0.005 | 0.006 | -0.003 | 2606 |
| SJHS | 17002SA | 0.003 | 0.005 | 0.006 | -0.003 | 2606 |
| SJHS | 17002SA | 0.003 | 0.005 | 0.006 | -0.003 | 2606 |
| SJHS | 17002SA | 0.000 | 0.000 | 0.000 | 0.000 | 2606 |
| SJHS | 17002SA | 0.000 | 0.000 | 0.000 | 0.000 | 2606 |
| SJHS | 17002SA | -0.003 | -0.005 | 0.006 | 0.003 | 2606 |
| COVG | 17002SB | -0.003 | 0.027 | 0.027 | -0.028 | 9547 |
| COVG | 17002SB | -0.003 | 0.027 | 0.027 | -0.028 | 9547 |
| COVG | 17002SB | -0.003 | 0.027 | 0.027 | -0.028 | 9547 |
| COVG | 17002SB | -0.013 | 0.025 | 0.028 | -0.017 | 9547 |
| COVG | 17002SB | -0.013 | 0.025 | 0.028 | -0.017 | 9547 |
| COVG | 17002SB | -0.013 | 0.025 | 0.028 | -0.017 | 9547 |
| COVG | 17002SB | 0.010 | 0.002 | 0.010 | -0.011 | 9547 |
| COVG | 17002SB | 0.000 | 0.000 | 0.000 | 0.000 | 9547 |
| COVG | 17002SB | 0.000 | 0.000 | 0.000 | 0.000 | 9547 |
| COVG | 17002SB | 0.000 | 0.000 | 0.000 | 0.000 | 9547 |
| COVG | 17002SB | -0.010 | -0.002 | 0.010 | 0.011 | 9547 |
| COVG | 17002SB | -0.010 | -0.002 | 0.010 | 0.011 | 9547 |
| COVG | 17002SB | -0.010 | -0.002 | 0.010 | 0.011 | 9547 |
| COVG | 17002SB | 0.013 | -0.025 | 0.028 | 0.017 | 9547 |
| COVG | 17002SB | 0.003 | -0.027 | 0.027 | 0.028 | 9547 |
| HAMM | 17002SC | -0.012 | -0.009 | 0.015 | -0.006 | 9858 |
| HAMM | 17002SC | 0.002 | -0.009 | 0.009 | -0.005 | 9858 |
| HAMM | 17002SC | -0.014 | 0.000 | 0.014 | -0.001 | 9858 |
| HAMM | 17002SC | -0.014 | 0.000 | 0.014 | -0.001 | 9858 |
| HAMM | 17002SC | -0.014 | 0.000 | 0.014 | -0.001 | 9858 |
| HAMM | 17002SC | 0.000 | 0.000 | 0.000 | 0.000 | 9858 |
| HAMM | 17002SC | 0.000 | 0.000 | 0.000 | 0.000 | 9858 |
| HAMM | 17002SC | 0.000 | 0.000 | 0.000 | 0.000 | 9858 |

| From | To | Delta N | Delta E | Horiz | Delta U | Length |
|------|---------|---------|---------|-------|---------|--------|
| HAMM | 17002SC | 0.014 | 0.000 | 0.014 | 0.001 | 9858 |
| HAMM | 17002SC | -0.002 | 0.009 | 0.009 | 0.005 | 9858 |
| HAMM | 17002SC | -0.002 | 0.009 | 0.009 | 0.005 | 9858 |
| HAMM | 17002SC | -0.002 | 0.009 | 0.009 | 0.005 | 9858 |
| HAMM | 17002SC | 0.012 | 0.009 | 0.015 | 0.006 | 9858 |
| HAMM | 17002SC | 0.012 | 0.009 | 0.015 | 0.006 | 9858 |
| HAMM | 17002SC | 0.012 | 0.009 | 0.015 | 0.006 | 9858 |
| HAMM | 17002SD | 0.000 | 0.000 | 0.000 | 0.000 | 14392 |
| COVG | 17002SE | 0.000 | 0.000 | 0.000 | 0.000 | 8135 |
| HAMM | 17002SF | 0.000 | 0.000 | 0.000 | 0.000 | 18408 |
| HAMM | 17002SG | -0.004 | 0.010 | 0.011 | -0.002 | 25467 |
| HAMM | 17002SG | -0.004 | 0.010 | 0.011 | -0.002 | 25467 |
| HAMM | 17002SG | -0.004 | 0.010 | 0.011 | -0.002 | 25467 |
| HAMM | 17002SG | 0.000 | 0.000 | 0.000 | 0.000 | 25467 |
| HAMM | 17002SG | 0.000 | 0.000 | 0.000 | 0.000 | 25467 |
| HAMM | 17002SG | 0.004 | -0.010 | 0.011 | 0.002 | 25467 |
| SJHS | 17002XA | 0.004 | 0.002 | 0.004 | -0.013 | 2585 |
| SJHS | 17002XA | 0.004 | 0.002 | 0.004 | -0.013 | 2585 |
| SJHS | 17002XA | 0.004 | 0.002 | 0.004 | -0.013 | 2585 |
| SJHS | 17002XA | 0.000 | 0.000 | 0.000 | 0.000 | 2585 |
| SJHS | 17002XA | 0.000 | 0.000 | 0.000 | 0.000 | 2585 |
| SJHS | 17002XA | -0.004 | -0.002 | 0.004 | 0.013 | 2585 |
| COVG | 17002XB | 0.013 | -0.001 | 0.013 | -0.009 | 9570 |
| COVG | 17002XB | 0.013 | -0.001 | 0.013 | -0.009 | 9570 |
| COVG | 17002XB | 0.013 | -0.001 | 0.013 | -0.009 | 9570 |
| COVG | 17002XB | 0.000 | 0.000 | 0.000 | 0.000 | 9570 |
| COVG | 17002XB | 0.000 | 0.000 | 0.000 | 0.000 | 9570 |
| COVG | 17002XB | -0.013 | 0.001 | 0.013 | 0.009 | 9570 |
| HAMM | 17002XC | 0.005 | 0.011 | 0.013 | -0.016 | 9885 |
| HAMM | 17002XC | 0.000 | 0.000 | 0.000 | 0.000 | 9885 |
| HAMM | 17002XC | 0.000 | 0.000 | 0.000 | 0.000 | 9885 |
| HAMM | 17002XC | -0.005 | -0.011 | 0.013 | 0.016 | 9885 |
| HAMM | 17002XC | -0.005 | -0.011 | 0.013 | 0.016 | 9885 |
| HAMM | 17002XC | -0.005 | -0.011 | 0.013 | 0.016 | 9885 |
| HAMM | 17002XD | 0.000 | 0.000 | 0.000 | 0.000 | 14442 |
| COVG | 17002XE | 0.000 | 0.000 | 0.000 | 0.000 | 8189 |
| HAMM | 17002XF | 0.000 | 0.000 | 0.000 | 0.000 | 18396 |
| HAMM | 17002XG | 0.008 | 0.010 | 0.013 | -0.002 | 25515 |
| HAMM | 17002XG | 0.000 | 0.000 | 0.000 | 0.000 | 25515 |
| HAMM | 17002XG | 0.000 | 0.000 | 0.000 | 0.000 | 25515 |
| HAMM | 17002XG | -0.008 | -0.010 | 0.013 | 0.002 | 25515 |
| HAMM | 17002XG | -0.008 | -0.010 | 0.013 | 0.002 | 25515 |
| HAMM | 17002XG | -0.008 | -0.010 | 0.013 | 0.002 | 25515 |

LEAST SQUARES ADJUSTMENTS

Geolab was used to adjust the GPS vectors. No scaling of the apriori GPS statistics was done. Station errors (centering, HI and HT) of 0.005 m were input. The GEOID12B model was used.

The adjustment constrained the VRS CORS in all three dimensions (NAD83 (2011) epoch 2010.0 latitude, longitude, and ellipsoidal height). The adjustment had an estimated variance

factor of 0.47. This adjustment provided the horizontal positions, ellipsoidal heights, and GPS derived orthometric heights for all of the stations in the network.

Table 4 lists the station confidence regions (error ellipses) at the 95% level (in meters):

Table 4 - 95% Confidence Regions (meters)

| Station Name | Semi-Major Axis | Azimuth | Semi-Minor Axis | Vertical |
|--------------|-----------------|---------|-----------------|----------|
| 17002AA | 0.011 | 46 | 0.010 | 0.014 |
| 17002AB | 0.011 | 98 | 0.010 | 0.016 |
| 17002AC | 0.010 | 91 | 0.010 | 0.013 |
| 17002AD | 0.010 | 42 | 0.010 | 0.012 |
| 17002AE | 0.009 | 157 | 0.009 | 0.012 |
| 17002AF | 0.010 | 133 | 0.009 | 0.011 |
| 17002AG | 0.009 | 177 | 0.009 | 0.009 |
| 17002AH | 0.010 | 24 | 0.010 | 0.016 |
| 17002AI | 0.010 | 13 | 0.009 | 0.011 |
| 17002AJ | 0.012 | 40 | 0.011 | 0.018 |
| 17002AK | 0.012 | 47 | 0.011 | 0.014 |
| 17002AL | 0.011 | 9 | 0.010 | 0.014 |
| 17002AM | 0.010 | 27 | 0.009 | 0.013 |
| 17002AN | 0.011 | 42 | 0.010 | 0.012 |
| 17002AO | 0.009 | 31 | 0.009 | 0.009 |
| 17002AP | 0.009 | 33 | 0.009 | 0.009 |
| 17002AQ | 0.011 | 96 | 0.010 | 0.017 |
| 17002AR | 0.011 | 26 | 0.010 | 0.017 |
| 17002AS | 0.009 | 71 | 0.009 | 0.009 |
| 17002AT | 0.011 | 178 | 0.010 | 0.015 |
| 17002AU | 0.010 | 55 | 0.009 | 0.011 |
| 17002AV | 0.010 | 179 | 0.010 | 0.012 |
| 17002AW | 0.009 | 11 | 0.007 | 0.015 |
| 17002AX | 0.011 | 162 | 0.010 | 0.016 |
| 17002AY | 0.010 | 30 | 0.010 | 0.013 |
| 17002AZ | 0.010 | 79 | 0.010 | 0.012 |
| 17002BA | 0.009 | 52 | 0.009 | 0.010 |
| 17002BB | 0.009 | 26 | 0.009 | 0.010 |
| 17002BC | 0.011 | 159 | 0.010 | 0.014 |
| 17002BD | 0.010 | 53 | 0.010 | 0.020 |
| 17002BE | 0.010 | 7 | 0.009 | 0.012 |
| 17002BF | 0.010 | 133 | 0.009 | 0.011 |
| 17002BG | 0.009 | 123 | 0.009 | 0.009 |
| 17002BH | 0.010 | 21 | 0.009 | 0.015 |
| 17002BI | 0.021 | 44 | 0.018 | 0.027 |
| 17002BJ | 0.016 | 33 | 0.015 | 0.025 |
| 17002BK | 0.009 | 153 | 0.009 | 0.009 |
| 17002BL | 0.010 | 4 | 0.009 | 0.011 |
| 17002BM | 0.009 | 37 | 0.009 | 0.009 |
| 17002BN | 0.011 | 37 | 0.010 | 0.013 |
| 17002BO | 0.010 | 14 | 0.009 | 0.012 |
| 17002BP | 0.012 | 175 | 0.011 | 0.018 |
| 17002BQ | 0.010 | 15 | 0.009 | 0.011 |
| 17002BR | 0.010 | 46 | 0.009 | 0.010 |
| 17002BS | 0.009 | 170 | 0.009 | 0.009 |
| 17002BT | 0.010 | 154 | 0.009 | 0.012 |
| 17002BU | 0.010 | 21 | 0.009 | 0.012 |
| 17002BV | 0.009 | 24 | 0.009 | 0.010 |
| 17002BW | 0.009 | 179 | 0.009 | 0.009 |
| 17002BX | 0.009 | 76 | 0.009 | 0.009 |
| 17002BY | 0.009 | 12 | 0.009 | 0.009 |
| 17002BZ | 0.009 | 171 | 0.009 | 0.010 |
| 17002CA | 0.011 | 178 | 0.009 | 0.015 |
| 17002CB | 0.010 | 152 | 0.009 | 0.010 |
| 17002CC | 0.009 | 124 | 0.009 | 0.009 |
| 17002CD | 0.009 | 166 | 0.009 | 0.010 |
| 17002CE | 0.009 | 5 | 0.009 | 0.009 |

| Station Name | Semi-Major Axis | Azimuth | Semi-Minor Axis | Vertical |
|--------------|-----------------|---------|-----------------|----------|
| 17002CF | 0.010 | 85 | 0.010 | 0.012 |
| 17002CG | 0.009 | 170 | 0.009 | 0.010 |
| 17002CH | 0.009 | 98 | 0.009 | 0.010 |
| 17002CI | 0.010 | 37 | 0.010 | 0.013 |
| 17002CJ | 0.008 | 128 | 0.008 | 0.009 |
| 17002CY | 0.011 | 65 | 0.010 | 0.015 |
| 17002CZ | 0.010 | 123 | 0.010 | 0.011 |
| 17002DA | 0.009 | 60 | 0.009 | 0.008 |
| 17002DB | 0.011 | 46 | 0.010 | 0.013 |
| 17002DC | 0.010 | 41 | 0.009 | 0.012 |
| 17002DD | 0.008 | 180 | 0.007 | 0.008 |
| 17002DE | 0.009 | 164 | 0.009 | 0.009 |
| 17002DF | 0.010 | 140 | 0.009 | 0.010 |
| 17002DG | 0.010 | 132 | 0.009 | 0.010 |
| 17002DH | 0.009 | 83 | 0.009 | 0.009 |
| 17002DI | 0.009 | 30 | 0.009 | 0.009 |
| 17002DJ | 0.007 | 24 | 0.007 | 0.008 |
| 17002DK | 0.009 | 69 | 0.009 | 0.010 |
| 17002DL | 0.009 | 8 | 0.009 | 0.009 |
| 17002DM | 0.009 | 7 | 0.009 | 0.009 |
| 17002DN | 0.009 | 165 | 0.009 | 0.009 |
| 17002DO | 0.009 | 156 | 0.009 | 0.010 |
| 17002DP | 0.010 | 141 | 0.009 | 0.011 |
| 17002DQ | 0.009 | 126 | 0.009 | 0.009 |
| 17002DR | 0.009 | 138 | 0.009 | 0.009 |
| 17002DS | 0.009 | 163 | 0.009 | 0.008 |
| 17002DT | 0.009 | 151 | 0.009 | 0.010 |
| 17002DU | 0.009 | 54 | 0.009 | 0.008 |
| 17002DV | 0.009 | 54 | 0.009 | 0.009 |
| 17002DW | 0.009 | 50 | 0.009 | 0.009 |
| 17002DX | 0.009 | 38 | 0.009 | 0.009 |
| 17002DY | 0.009 | 6 | 0.009 | 0.009 |
| 17002DZ | 0.009 | 5 | 0.009 | 0.009 |
| 17002EA | 0.009 | 1 | 0.009 | 0.010 |
| 17002EB | 0.009 | 156 | 0.009 | 0.010 |
| 17002EC | 0.010 | 145 | 0.009 | 0.010 |
| 17002ED | 0.010 | 133 | 0.009 | 0.011 |
| 17002EE | 0.010 | 57 | 0.010 | 0.011 |
| 17002EF | 0.010 | 55 | 0.010 | 0.012 |
| 17002EG | 0.009 | 25 | 0.008 | 0.014 |
| 17002EH | 0.012 | 177 | 0.010 | 0.020 |
| 17002EI | 0.010 | 98 | 0.010 | 0.012 |
| 17002EJ | 0.010 | 75 | 0.010 | 0.011 |
| 17002EK | 0.009 | 165 | 0.009 | 0.014 |
| 17002EL | 0.009 | 167 | 0.009 | 0.009 |
| 17002EM | 0.009 | 162 | 0.009 | 0.010 |
| 17002EN | 0.007 | 4 | 0.007 | 0.007 |
| 17002EO | 0.009 | 12 | 0.009 | 0.009 |
| 17002EP | 0.010 | 136 | 0.009 | 0.010 |
| 17002EQ | 0.010 | 163 | 0.010 | 0.012 |
| 17002ER | 0.009 | 54 | 0.009 | 0.009 |
| 17002ES | 0.009 | 53 | 0.009 | 0.009 |
| 17002ET | 0.009 | 51 | 0.009 | 0.009 |
| 17002EU | 0.008 | 19 | 0.007 | 0.009 |
| 17002EV | 0.010 | 11 | 0.009 | 0.012 |
| 17002EW | 0.010 | 169 | 0.009 | 0.012 |
| 17002EX | 0.009 | 108 | 0.009 | 0.014 |
| 17002EY | 0.010 | 58 | 0.010 | 0.019 |
| 17002EZ | 0.011 | 23 | 0.010 | 0.015 |
| 17002FA | 0.010 | 161 | 0.009 | 0.013 |
| 17002FB | 0.013 | 149 | 0.010 | 0.014 |
| 17002FC | 0.011 | 145 | 0.010 | 0.012 |
| 17002FD | 0.010 | 17 | 0.009 | 0.012 |
| 17002FE | 0.010 | 30 | 0.009 | 0.012 |
| 17002FF | 0.010 | 37 | 0.010 | 0.012 |

| Station Name | Semi-Major Axis | Azimuth | Semi-Minor Axis | Vertical |
|--------------|-----------------|---------|-----------------|----------|
| 17002FG | 0.010 | 36 | 0.010 | 0.011 |
| 17002FH | 0.010 | 51 | 0.010 | 0.012 |
| 17002FI | 0.011 | 47 | 0.010 | 0.012 |
| 17002FJ | 0.006 | 48 | 0.005 | 0.006 |
| 17002FK | 0.007 | 43 | 0.007 | 0.007 |
| 17002FL | 0.010 | 24 | 0.009 | 0.011 |
| 17002FM | 0.011 | 21 | 0.010 | 0.012 |
| 17002FN | 0.010 | 8 | 0.009 | 0.011 |
| 17002FO | 0.009 | 176 | 0.009 | 0.010 |
| 17002FP | 0.009 | 154 | 0.009 | 0.010 |
| 17002FQ | 0.009 | 134 | 0.009 | 0.009 |
| 17002FR | 0.009 | 113 | 0.009 | 0.014 |
| 17002FS | 0.011 | 44 | 0.009 | 0.016 |
| 17002FT | 0.011 | 40 | 0.009 | 0.015 |
| 17002FU | 0.010 | 29 | 0.009 | 0.018 |
| 17002FV | 0.009 | 1 | 0.009 | 0.011 |
| 17002FW | 0.010 | 152 | 0.009 | 0.012 |
| 17002HA | 0.008 | 9 | 0.008 | 0.009 |
| 17002HB | 0.012 | 29 | 0.011 | 0.017 |
| 17002HC | 0.013 | 60 | 0.013 | 0.017 |
| 17002HD | 0.013 | 43 | 0.011 | 0.015 |
| 17002HE | 0.010 | 45 | 0.009 | 0.012 |
| 17002HF | 0.011 | 47 | 0.010 | 0.013 |
| 17002HG | 0.011 | 48 | 0.010 | 0.013 |
| 17002HH | 0.010 | 49 | 0.009 | 0.011 |
| 17002HI | 0.010 | 48 | 0.009 | 0.012 |
| 17002HJ | 0.010 | 44 | 0.010 | 0.015 |
| 17002HK | 0.008 | 20 | 0.008 | 0.011 |
| 17002HL | 0.010 | 8 | 0.009 | 0.011 |
| 17002HM | 0.010 | 177 | 0.009 | 0.010 |
| 17002HN | 0.009 | 129 | 0.008 | 0.010 |
| 17002HO | 0.010 | 122 | 0.009 | 0.011 |
| 17002HP | 0.010 | 119 | 0.010 | 0.011 |
| 17002HQ | 0.016 | 25 | 0.008 | 0.025 |
| 17002HR | 0.010 | 38 | 0.010 | 0.014 |
| 17002HS | 0.013 | 85 | 0.011 | 0.026 |
| 17002HT | 0.010 | 2 | 0.010 | 0.012 |
| 17002HU | 0.011 | 163 | 0.010 | 0.013 |
| 17002HV | 0.010 | 153 | 0.009 | 0.013 |
| 17002HW | 0.010 | 153 | 0.009 | 0.012 |
| 17002HX | 0.009 | 159 | 0.009 | 0.012 |
| 17002HY | 0.011 | 169 | 0.010 | 0.014 |
| 17002HZ | 0.011 | 168 | 0.010 | 0.014 |
| 17002IA | 0.009 | 22 | 0.009 | 0.009 |
| 17002IB | 0.009 | 30 | 0.009 | 0.009 |
| 17002IC | 0.010 | 38 | 0.010 | 0.012 |
| 17002ID | 0.012 | 40 | 0.010 | 0.015 |
| 17002IE | 0.013 | 49 | 0.011 | 0.016 |
| 17002IF | 0.011 | 47 | 0.010 | 0.012 |
| 17002IG | 0.010 | 80 | 0.010 | 0.013 |
| 17002IH | 0.009 | 43 | 0.009 | 0.012 |
| 17002II | 0.009 | 28 | 0.008 | 0.013 |
| 17002IJ | 0.011 | 11 | 0.010 | 0.015 |
| 17002IK | 0.015 | 133 | 0.013 | 0.016 |
| 17002IL | 0.011 | 1 | 0.010 | 0.014 |
| 17002IM | 0.007 | 159 | 0.007 | 0.009 |
| 17002IN | 0.012 | 144 | 0.011 | 0.015 |
| 17002IO | 0.009 | 45 | 0.009 | 0.009 |
| 17002IP | 0.009 | 39 | 0.009 | 0.009 |
| 17002IQ | 0.011 | 32 | 0.010 | 0.014 |
| 17002IR | 0.010 | 29 | 0.009 | 0.011 |
| 17002IS | 0.012 | 28 | 0.011 | 0.019 |
| 17002IT | 0.010 | 38 | 0.010 | 0.015 |
| 17002IU | 0.010 | 77 | 0.010 | 0.013 |
| 17002IV | 0.010 | 86 | 0.009 | 0.011 |

| Station Name | Semi-Major Axis | Azimuth | Semi-Minor Axis | Vertical |
|--------------|-----------------|---------|-----------------|----------|
| 17002IX | 0.010 | 179 | 0.009 | 0.010 |
| 17002IY | 0.011 | 169 | 0.010 | 0.012 |
| 17002IZ | 0.009 | 160 | 0.009 | 0.008 |
| 17002JA | 0.009 | 159 | 0.009 | 0.008 |
| 17002JB | 0.009 | 161 | 0.009 | 0.011 |
| 17002JC | 0.009 | 168 | 0.009 | 0.010 |
| 17002JD | 0.010 | 12 | 0.009 | 0.013 |
| 17002JE | 0.010 | 26 | 0.009 | 0.011 |
| 17002JF | 0.009 | 36 | 0.009 | 0.008 |
| 17002JG | 0.010 | 39 | 0.009 | 0.010 |
| 17002JH | 0.011 | 48 | 0.011 | 0.013 |
| 17002JI | 0.010 | 51 | 0.009 | 0.010 |
| 17002JJ | 0.012 | 53 | 0.011 | 0.018 |
| 17002JK | 0.010 | 50 | 0.009 | 0.011 |
| 17002JL | 0.010 | 43 | 0.009 | 0.012 |
| 17002JM | 0.009 | 13 | 0.009 | 0.010 |
| 17002JN | 0.009 | 14 | 0.009 | 0.008 |
| 17002JO | 0.011 | 5 | 0.009 | 0.014 |
| 17002JP | 0.011 | 177 | 0.010 | 0.013 |
| 17002JQ | 0.010 | 171 | 0.009 | 0.011 |
| 17002JR | 0.009 | 141 | 0.009 | 0.009 |
| 17002JS | 0.010 | 116 | 0.009 | 0.011 |
| 17002JT | 0.011 | 103 | 0.010 | 0.014 |
| 17002JU | 0.010 | 50 | 0.009 | 0.011 |
| 17002JV | 0.010 | 41 | 0.010 | 0.013 |
| 17002JW | 0.010 | 18 | 0.009 | 0.015 |
| 17002JX | 0.009 | 66 | 0.009 | 0.011 |
| 17002JY | 0.010 | 75 | 0.009 | 0.011 |
| 17002JZ | 0.009 | 159 | 0.009 | 0.010 |
| 17002KA | 0.010 | 159 | 0.009 | 0.012 |
| 17002KB | 0.009 | 169 | 0.009 | 0.010 |
| 17002KC | 0.009 | 2 | 0.009 | 0.009 |
| 17002KD | 0.010 | 41 | 0.009 | 0.011 |
| 17002KE | 0.010 | 49 | 0.009 | 0.011 |
| 17002KF | 0.010 | 50 | 0.009 | 0.011 |
| 17002KG | 0.010 | 53 | 0.010 | 0.011 |
| 17002KH | 0.011 | 54 | 0.010 | 0.012 |
| 17002KI | 0.009 | 47 | 0.009 | 0.009 |
| 17002KJ | 0.009 | 39 | 0.009 | 0.009 |
| 17002KK | 0.010 | 20 | 0.009 | 0.013 |
| 17002KL | 0.010 | 178 | 0.009 | 0.011 |
| 17002KM | 0.009 | 156 | 0.009 | 0.008 |
| 17002KN | 0.010 | 92 | 0.010 | 0.011 |
| 17002KO | 0.010 | 70 | 0.010 | 0.012 |
| 17002KP | 0.010 | 61 | 0.010 | 0.012 |
| 17002KQ | 0.012 | 20 | 0.009 | 0.021 |
| 17002KR | 0.010 | 30 | 0.010 | 0.012 |
| 17002SC | 0.005 | 32 | 0.004 | 0.006 |
| 17002SD | 0.010 | 3 | 0.007 | 0.014 |
| 17002SE | 0.009 | 2 | 0.007 | 0.009 |
| 17002SF | 0.010 | 86 | 0.007 | 0.012 |
| 17002SG | 0.007 | 130 | 0.006 | 0.008 |
| 17002SH | 0.013 | 14 | 0.010 | 0.014 |
| 17002SI | 0.014 | 105 | 0.011 | 0.015 |
| 17002SJ | 0.014 | 43 | 0.010 | 0.012 |
| 17002SK | 0.014 | 58 | 0.011 | 0.015 |
| 17002WC | 0.012 | 113 | 0.007 | 0.020 |
| 17002WD | 0.015 | 154 | 0.009 | 0.024 |
| 17002WE | 0.012 | 51 | 0.008 | 0.021 |
| 17002WF | 0.019 | 119 | 0.009 | 0.023 |
| 17002WG | 0.012 | 6 | 0.008 | 0.021 |
| 17002WH | 0.021 | 83 | 0.011 | 0.024 |
| 17002WI | 0.021 | 169 | 0.012 | 0.024 |
| 17002WJ | 0.020 | 173 | 0.011 | 0.023 |
| 17002WK | 0.047 | 111 | 0.012 | 0.024 |

| Station Name | Semi-Major Axis | Azimuth | Semi-Minor Axis | Vertical |
|--------------|-----------------|---------|-----------------|----------|
| 17002XC | 0.007 | 31 | 0.005 | 0.007 |
| 17002XD | 0.010 | 1 | 0.007 | 0.012 |
| 17002XE | 0.009 | 2 | 0.007 | 0.009 |
| 17002XF | 0.010 | 89 | 0.007 | 0.011 |
| 17002XG | 0.007 | 131 | 0.006 | 0.009 |
| 17002XH | 0.014 | 14 | 0.010 | 0.016 |
| 17002XI | 0.014 | 105 | 0.010 | 0.014 |
| 17002XJ | 0.014 | 43 | 0.010 | 0.012 |
| 17002XK | 0.014 | 58 | 0.011 | 0.015 |

SUMMARY

A LiDAR ground control network consisting of 63 ground control points (GCP) and 179 QC check points was established in southern Louisiana. The estimated accuracy of the control network is ± 0.03 m with respect to the NAD83 (2011) epoch 2010.0 reference frame and the NAVD88 vertical datum.

Adjusted Coordinates – NAD83 (2011) epoch 2010.0

Table 5 - Adjusted Coordinates - NAD83 (2011) Latitude/Longitude/Ellipsoidal Height

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|--------------|---------|-------------------|-------------------|-------------------|---------|
| AWES | AWES | DONALDSONVILLE | 30°06'00.96248" N | 90°58'58.63439" W | -8.952 |
| BSRL | BSRL | BAYOU SORREL | 30°08'01.36304" N | 91°19'21.36174" W | -22.434 |
| COVG | COVG | COVINGTON | 30°28'33.26971" N | 90°05'43.92269" W | -4.563 |
| DOTD | DOTD | BATON ROUGE WEST | 30°27'33.67457" N | 91°10'39.74038" W | 17.162 |
| DSTR | DSTR | HAHNVILLE | 29°57'52.39569" N | 90°22'56.00655" W | -18.579 |
| GCP01 | 17002AA | COW BAYOU | 30°21'31.76161" N | 91°31'17.98057" W | -21.370 |
| GCP02 | 17002AB | ADDIS | 30°20'51.49641" N | 91°22'17.54460" W | -22.855 |
| GCP02A | 17002CY | GROSSE TETE SW | 30°21'29.53915" N | 91°22'30.93214" W | -21.972 |
| GCP03 | 17002AC | BAYOU SORREL | 30°13'46.91732" N | 91°19'01.52492" W | -24.825 |
| GCP04 | 17002AD | PIGEON | 30°04'08.94507" N | 91°17'13.46462" W | -24.941 |
| GCP05 | 17002AE | ADDIS | 30°21'01.56214" N | 91°16'04.36093" W | -22.425 |
| GCP06 | 17002AF | PIERRE PART | 29°53'00.95161" N | 91°11'32.16817" W | -24.758 |
| GCP07 | 17002AG | BATON ROUGE WEST | 30°25'58.69028" N | 91°10'50.09512" W | -11.091 |
| GCP08 | 17002AH | WHITE CASTLE | 30°11'29.69651" N | 91°10'36.92860" W | -21.613 |
| GCP09 | 17002AI | PLAQUEMINE | 30°20'52.05369" N | 91°08'04.25475" W | -20.599 |
| GCP10 | 17002AJ | NAPOLEONVILLE | 29°57'39.33668" N | 91°07'07.10570" W | -25.295 |
| GCP11 | 17002AK | BELLE ROSE | 30°06'46.89797" N | 91°05'54.90514" W | -24.128 |
| GCP12 | 17002AL | NAPOLEONVILLE | 29°53'07.95169" N | 91°05'57.42805" W | -24.315 |
| GCP13 | 17002AM | AMELIA | 29°43'17.81727" N | 91°04'13.66579" W | -24.111 |
| GCP14 | 17002AN | CARVILLE | 30°13'48.57209" N | 91°01'09.95146" W | -20.450 |
| GCP15 | 17002AO | PRAIRIEVILLE | 30°20'47.66733" N | 90°59'44.12111" W | -21.532 |
| GCP16 | 17002AP | DONALDSONVILLE | 30°05'01.94798" N | 90°57'05.75299" W | -22.432 |
| GCP17 | 17002AQ | MADEWOOD | 29°52'47.43414" N | 90°56'59.67902" W | -23.671 |
| GCP18 | 17002AR | LABADIEVILLE | 29°48'10.53370" N | 90°56'20.42544" W | -23.215 |
| GCP19 | 17002AS | DENHAM SPRINGS | 30°27'10.44642" N | 90°54'18.16928" W | -16.360 |
| GCP20 | 17002AT | DONALDSONVILLE | 30°00'41.02201" N | 90°54'06.08608" W | -24.191 |
| GCP21 | 17002AU | SORRENTO | 30°13'29.89321" N | 90°52'11.44584" W | -24.877 |
| GCP22 | 17002AV | LAGAN | 29°52'51.01770" N | 90°48'19.17346" W | -24.972 |
| GCP23 | 17002AW | FRENCH SETTLEMENT | 30°20'22.34011" N | 90°47'37.35471" W | -22.104 |
| GCP24 | 17002AX | LAGAN | 29°58'19.65578" N | 90°47'39.93426" W | -24.425 |
| GCP25 | 17002AY | WALKER | 30°24'49.64165" N | 90°46'16.52535" W | -22.530 |
| GCP26 | 17002AZ | THIBODAUX | 29°45'40.97386" N | 90°46'05.90347" W | -23.732 |
| GCP27 | 17002BA | MOUNT AIRY NW | 30°08'20.86222" N | 90°44'40.36932" W | -24.658 |
| GCP28 | 17002BB | LUTCHER | 30°04'18.40544" N | 90°41'53.21787" W | -24.206 |
| GCP29 | 17002BC | LOWER VACHERIE | 29°52'54.37947" N | 90°43'23.45648" W | -25.129 |
| GCP30 | 17002BD | WHITEHALL | 30°15'47.04631" N | 90°38'07.10977" W | -24.881 |
| GCP31 | 17002BE | LOWER VACHERIE | 29°59'50.06772" N | 90°38'21.97637" W | -24.645 |
| GCP32 | 17002BF | LOCKPORT | 29°43'58.67100" N | 90°37'02.38194" W | -22.643 |
| GCP33 | 17002BG | SPRINGFIELD | 30°24'49.46731" N | 90°35'55.12495" W | -23.360 |
| GCP34 | 17002BH | RESERVE | 30°06'59.30985" N | 90°36'17.05564" W | -24.611 |
| GCP35 | 17002BI | BAYOU BOEUF | 29°47'54.40851" N | 90°30'16.60292" W | -24.608 |
| GCP36 | 17002BJ | LAROSE | 29°36'19.42648" N | 90°29'33.38183" W | -23.200 |
| GCP37 | 17002BK | HAHNVILLE | 29°59'00.42142" N | 90°28'37.65163" W | -24.620 |
| GCP38 | 17002BL | RUDDOCK | 30°11'06.08974" N | 90°26'27.71759" W | -25.810 |
| GCP39 | 17002BM | PONCHATOULA | 30°24'03.67357" N | 90°25'49.91814" W | -25.015 |
| GCP40 | 17002BN | DES ALLEMANDS | 29°52'25.03923" N | 90°26'10.17468" W | -26.100 |
| GCP41 | 17002BO | MANCHAC | 30°18'53.70388" N | 90°24'23.40746" W | -25.816 |
| GCP42 | 17002BP | LAPLACE | 30°04'19.41277" N | 90°24'34.56036" W | -25.575 |
| GCP43 | 17002BQ | CUT OFF | 29°35'21.24539" N | 90°22'10.90675" W | -24.552 |
| GCP44 | 17002BR | PONCHATOULA NE | 30°28'41.81389" N | 90°19'46.51904" W | -17.890 |
| GCP45 | 17002BS | GOLDEN MEADOW | 29°29'54.70000" N | 90°20'21.02138" W | -25.606 |
| GCP46 | 17002BT | LULING | 29°54'58.02920" N | 90°18'27.87446" W | -25.181 |
| GCP46A | 17002CZ | DES ALLEMANDS | 29°46'51.68577" N | 90°23'41.98181" W | -24.403 |

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|--------------|---------|------------------|-------------------|-------------------|---------|
| GCP47 | 17002BU | LA BRANCHE | 30°01'54.81468" N | 90°16'42.60197" W | -28.224 |
| GCP48 | 17002BV | MADISONVILLE | 30°23'57.85867" N | 90°13'04.88948" W | -24.955 |
| GCP49 | 17002BW | BERTRANDVILLE | 29°51'59.97139" N | 90°06'40.92214" W | -25.515 |
| GCP50 | 17002BX | BARATARIA | 29°44'52.21793" N | 90°08'01.15221" W | -24.752 |
| GCP51 | 17002BY | SPANISH FORT | 30°01'14.31033" N | 90°05'32.58022" W | -26.497 |
| GCP52 | 17002BZ | COVINGTON | 30°23'31.34637" N | 90°03'07.81717" W | -21.114 |
| GCP53 | 17002CA | BERTRANDVILLE | 29°51'44.00338" N | 90°02'02.16964" W | -27.317 |
| GCP54 | 17002CB | LITTLE WOODS | 30°02'43.46655" N | 89°57'39.75335" W | -28.876 |
| GCP55 | 17002CC | CHALMETTE | 29°56'55.95140" N | 89°57'32.13061" W | -26.196 |
| GCP56 | 17002CD | LACOMBE | 30°18'43.76604" N | 89°56'19.29849" W | -22.415 |
| GCP57 | 17002CE | CHEF MENTEUR | 30°04'11.09990" N | 89°48'36.08804" W | -25.622 |
| GCP58 | 17002CF | SLIDELL | 30°18'05.01064" N | 89°46'27.72871" W | -22.723 |
| GCP59 | 17002CG | CHEF MENTEUR | 30°06'31.01684" N | 89°45'41.99213" W | -25.743 |
| GCP60 | 17002CH | RIGOLETS | 30°11'37.29535" N | 89°42'38.56341" W | -24.461 |
| GCP61 | 17002CI | HAASWOOD | 30°18'05.02914" N | 89°39'04.06663" W | -23.500 |
| GCP62 | 17002CJ | NORTH SHORE | 30°11'48.03489" N | 89°45'17.86200" W | -25.744 |
| GVMS | GVMS | PRAIRIEVILLE | 30°18'51.79676" N | 90°54'13.02953" W | -15.202 |
| HAMM | HAMM | HAMMOND | 30°30'47.05150" N | 90°28'03.42840" W | 7.264 |
| HOMA | HOMA | HOUMA | 29°34'44.67646" N | 90°42'39.26457" W | -13.931 |
| INRI | INRI | NEW ORLEANS EAST | 29°56'13.21144" N | 90°07'07.83712" W | -9.178 |
| LUCH | LUCH | LUTCHER | 30°02'47.41984" N | 90°41'36.60721" W | -14.912 |
| LWES | LWES | LULING | 29°54'01.29535" N | 90°20'57.83368" W | -15.710 |
| MARY | MARY | LITTLE WOODS | 30°01'22.70955" N | 89°54'46.80193" W | -22.897 |
| MCHS | MCHS | MORGAN CITY | 29°43'01.98785" N | 91°12'14.98892" W | -14.732 |
| NVA001 | 17002DA | NEW ORLEANS WEST | 29°59'35.87142" N | 90°13'02.03387" W | -28.135 |
| NVA002 | 17002DB | NEW ORLEANS WEST | 29°58'31.07286" N | 90°09'50.42348" W | -24.578 |
| NVA003 | 17002DC | NEW ORLEANS EAST | 29°59'42.66646" N | 90°07'03.01678" W | -27.913 |
| NVA004 | 17002DD | SPANISH FORT | 30°01'48.53849" N | 90°02'24.30715" W | -25.170 |
| NVA005 | 17002DE | LITTLE WOODS | 30°01'44.85797" N | 89°59'37.37849" W | -28.579 |
| NVA006 | 17002DF | LITTLE WOODS | 30°00'38.47119" N | 89°57'31.00955" W | -25.526 |
| NVA007 | 17002DH | NEW ORLEANS EAST | 29°58'25.43790" N | 90°00'03.36642" W | -27.622 |
| NVA008 | 17002DI | NEW ORLEANS EAST | 29°55'07.63285" N | 90°05'04.91238" W | -23.231 |
| NVA009 | 17002HA | INDIAN BEACH | 30°00'20.75114" N | 90°14'35.13866" W | -27.945 |
| NVA010 | 17002DK | BERTRANDVILLE | 29°47'54.96574" N | 90°05'55.79626" W | -25.302 |
| NVA011 | 17002DM | NEW ORLEANS EAST | 29°52'34.66570" N | 90°06'45.52019" W | -25.644 |
| NVA012 | 17002DN | NEW ORLEANS WEST | 29°54'12.69618" N | 90°09'44.76714" W | -27.170 |
| NVA013 | 17002HC | LULING | 29°57'34.12748" N | 90°21'51.30791" W | -25.032 |
| NVA014 | 17002DP | LULING | 29°57'53.02033" N | 90°15'04.14957" W | -22.492 |
| NVA015 | 17002DQ | NEW ORLEANS WEST | 29°57'07.44133" N | 90°08'57.13603" W | -20.693 |
| NVA016 | 17002DR | LITTLE WOODS | 30°00'47.23006" N | 89°59'34.49965" W | -25.840 |
| NVA017 | 17002DS | LITTLE WOODS | 30°02'01.39174" N | 89°55'09.19367" W | -26.125 |
| NVA018 | 17002DT | LITTLE WOODS | 30°03'12.52203" N | 89°52'35.02706" W | -25.932 |
| NVA019 | 17002DU | CHEF MENTEUR | 30°07'07.68071" N | 89°52'00.46666" W | -26.164 |
| NVA020 | 17002HE | BAYOU BOEUF | 29°48'12.13697" N | 90°30'01.16842" W | -24.814 |
| NVA021 | 17002HF | BAYOU BOEUF | 29°45'31.91791" N | 90°33'17.28943" W | -23.554 |
| NVA022 | 17002HH | LOCKPORT | 29°42'33.96845" N | 90°34'24.70045" W | -22.918 |
| NVA023 | 17002DY | CHEF MENTEUR | 30°04'29.84231" N | 89°51'42.05923" W | -25.440 |
| NVA024 | 17002EB | NORTH SHORE | 30°08'10.68731" N | 89°45'28.88867" W | -24.414 |
| NVA025 | 17002EC | RIGOLETS | 30°09'42.78950" N | 89°44'23.90557" W | -25.158 |
| NVA026 | 17002EE | RIGOLETS | 30°12'49.33052" N | 89°41'29.26043" W | -24.305 |
| NVA027 | 17002EF | RIGOLETS | 30°14'06.25483" N | 89°38'22.27625" W | -25.721 |
| NVA028 | 17002EG | HAASWOOD | 30°17'18.79746" N | 89°43'40.87232" W | -23.562 |
| NVA029 | 17002EH | HAASWOOD | 30°15'02.81168" N | 89°42'22.39340" W | -24.644 |
| NVA030 | 17002EI | SLIDELL | 30°16'15.29855" N | 89°45'32.50995" W | -23.438 |
| NVA031 | 17002EJ | SLIDELL | 30°15'03.67199" N | 89°47'27.91393" W | -25.708 |
| NVA032 | 17002EN | MADISONVILLE | 30°24'27.68183" N | 90°08'15.20397" W | -24.278 |

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|--------------|---------|-------------------|-------------------|-------------------|---------|
| NVA033 | 17002EO | MADISONVILLE | 30°22'42.73444" N | 90°09'42.52410" W | -26.090 |
| NVA034 | 17002ER | PONCHATOULA | 30°28'34.04958" N | 90°24'39.93246" W | -17.986 |
| NVA035 | 17002ET | PONCHATOULA | 30°27'50.90704" N | 90°27'27.77051" W | -18.778 |
| NVA036 | 17002EU | MANCHAC | 30°21'34.67568" N | 90°25'04.98480" W | -25.903 |
| NVA037 | 17002EV | MANCHAC | 30°16'43.66298" N | 90°24'00.55362" W | -25.815 |
| NVA038 | 17002EW | RUDDOCK | 30°12'48.03725" N | 90°25'02.30964" W | -25.168 |
| NVA039 | 17002EY | FROST | 30°27'31.21468" N | 90°44'41.91870" W | -17.345 |
| NVA040 | 17002EZ | WALKER | 30°23'28.94138" N | 90°46'11.67669" W | -20.226 |
| NVA041 | 17002FA | WALKER | 30°25'04.40923" N | 90°51'13.59915" W | -20.684 |
| NVA042 | 17002FE | FROST | 30°28'19.22813" N | 90°38'33.69470" W | -16.380 |
| NVA043 | 17002FG | SPRINGFIELD | 30°26'59.56672" N | 90°34'10.93366" W | -19.135 |
| NVA044 | 17002FL | SPRINGFIELD | 30°23'25.61510" N | 90°32'47.21507" W | -23.618 |
| NVA045 | 17002FO | WHITEHALL | 30°20'20.46855" N | 90°43'09.27454" W | -22.046 |
| NVA046 | 17002FP | FRENCH SETTLEMENT | 30°18'59.18327" N | 90°45'59.43560" W | -24.916 |
| NVA047 | 17002FQ | FRENCH SETTLEMENT | 30°17'48.38982" N | 90°47'38.54808" W | -23.440 |
| NVA048 | 17002FR | FRENCH SETTLEMENT | 30°15'34.05108" N | 90°45'47.44590" W | -24.802 |
| NVA049 | 17002FV | FRENCH SETTLEMENT | 30°20'01.19043" N | 90°52'24.72666" W | -22.764 |
| NVA050 | 17002FW | DENHAM SPRINGS | 30°22'46.07423" N | 90°53'47.95239" W | -21.614 |
| NVA051 | 17002HJ | LOCKPORT | 29°39'33.51803" N | 90°32'18.05159" W | -22.071 |
| NVA052 | 17002HL | LAROSE | 29°34'18.44024" N | 90°22'56.29233" W | -23.099 |
| NVA053 | 17002HM | CUT OFF | 29°31'14.41804" N | 90°20'48.95650" W | -25.135 |
| NVA054 | 17002HO | SAVOIE | 29°43'57.55605" N | 90°38'05.98262" W | -22.521 |
| NVA055 | 17002HP | KRAEMER | 29°46'02.09580" N | 90°43'18.55825" W | -24.488 |
| NVA056 | 17002HQ | LABADIEVILLE | 29°48'57.81172" N | 90°52'50.73015" W | -21.804 |
| NVA057 | 17002HR | LABADIEVILLE | 29°48'29.22170" N | 90°57'32.54474" W | -23.057 |
| NVA058 | 17002HT | THIBODAUX | 29°51'33.40035" N | 90°48'07.30243" W | -24.510 |
| NVA059 | 17002HU | KRAEMER | 29°52'04.11898" N | 90°42'25.07177" W | -25.241 |
| NVA060 | 17002HV | LOWER VACHERIE | 29°56'19.97736" N | 90°42'31.44606" W | -24.203 |
| NVA061 | 17002HW | LOWER VACHERIE | 29°58'07.90234" N | 90°43'04.23113" W | -22.993 |
| NVA062 | 17002HZ | LAGAN | 29°58'08.96083" N | 90°51'23.99380" W | -24.389 |
| NVA063 | 17002IA | DONALDSONVILLE | 30°04'08.65469" N | 90°58'08.11377" W | -23.812 |
| NVA064 | 17002IC | DONALDSONVILLE | 30°05'28.51981" N | 90°58'36.61842" W | -21.546 |
| NVA065 | 17002ID | BELLE ROSE | 30°06'17.60228" N | 91°00'24.13388" W | -21.397 |
| NVA066 | 17002IF | BELLE ROSE | 30°05'07.82594" N | 91°04'52.51382" W | -24.057 |
| NVA067 | 17002IG | BELLE ROSE | 30°01'06.69459" N | 91°03'10.48986" W | -21.967 |
| NVA068 | 17002IH | NAPOLEONVILLE | 29°58'40.12415" N | 91°03'38.21005" W | -22.538 |
| NVA069 | 17002II | NAPOLEONVILLE | 29°57'05.34629" N | 91°02'41.89430" W | -21.810 |
| NVA070 | 17002IJ | NAPOLEONVILLE | 29°53'34.36390" N | 91°04'26.70303" W | -23.816 |
| NVA071 | 17002IL | BELLE ROSE | 30°00'10.47852" N | 91°04'43.03417" W | -22.744 |
| NVA072 | 17002IM | LONE STAR | 30°00'09.58110" N | 91°11'43.09361" W | -24.809 |
| NVA073 | 17002IN | PIERRE PART | 29°57'26.53697" N | 91°12'45.72686" W | -24.798 |
| NVA074 | 17002IO | PIGEON | 30°06'34.58909" N | 91°17'44.73577" W | -25.276 |
| NVA075 | 17002IP | BAYOU SORREL | 30°07'57.31389" N | 91°15'37.46081" W | -25.779 |
| NVA076 | 17002IQ | WHITE CASTLE | 30°08'58.50894" N | 91°11'29.71702" W | -23.487 |
| NVA077 | 17002IT | WHITE CASTLE | 30°14'15.29965" N | 91°12'11.31571" W | -23.769 |
| NVA078 | 17002IU | BAYOU SORREL | 30°14'41.81061" N | 91°16'10.63936" W | -23.277 |
| NVA079 | 17002IV | ADDIS | 30°15'00.02002" N | 91°19'17.32440" W | -23.958 |
| NVA080 | 17002IX | LOBDELL | 30°27'02.57958" N | 91°18'49.80724" W | -22.675 |
| NVA081 | 17002JA | BATON ROUGE WEST | 30°26'42.45414" N | 91°14'38.86676" W | -22.685 |
| NVA082 | 17002JC | BATON ROUGE WEST | 30°24'33.04487" N | 91°13'40.97031" W | -21.355 |
| NVA083 | 17002JE | SAINT GABRIEL | 30°20'51.87837" N | 91°04'34.83874" W | -23.797 |
| NVA084 | 17002JG | PRAIRIEVILLE | 30°17'01.93330" N | 90°58'51.25247" W | -21.915 |
| NVA085 | 17002JI | GONZALES | 30°12'38.43741" N | 90°55'42.67652" W | -24.529 |
| NVA086 | 17002JJ | SORRENTO | 30°11'51.43129" N | 90°51'45.84425" W | -25.821 |
| NVA087 | 17002JL | LUTCHER | 30°07'13.40449" N | 90°40'56.37005" W | -25.189 |
| NVA088 | 17002JN | LUTCHER | 30°02'28.72067" N | 90°40'21.51754" W | -16.430 |

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|--------------|----------|------------------|-------------------|-------------------|---------|
| NVA089 | 17002JP | RESERVE | 30°02'10.43611" N | 90°33'30.27972" W | -23.648 |
| NVA090 | 17002JT | DES ALLEMANDS | 29°50'34.91141" N | 90°25'45.75446" W | -27.140 |
| NVA091 | 17002JU | LAPLACE | 30°05'21.43128" N | 90°26'25.97428" W | -25.089 |
| NVA092 | 17002JX | LAPLACE | 30°02'30.22623" N | 90°26'32.40244" W | -24.583 |
| NVA093 | 17002KA | LAPLACE | 30°00'07.38679" N | 90°27'22.04886" W | -22.100 |
| NVA094 | 17002KE | GHEENS | 29°41'32.83419" N | 90°28'31.36285" W | -24.065 |
| NVA095 | 17002KK | LAROSE | 29°35'22.05971" N | 90°27'32.22283" W | -24.025 |
| NVA096 | 17002KN | GRASSY LAKE | 29°49'17.40710" N | 91°02'38.88374" W | -25.056 |
| NVA097 | 17002KQ | ADDIS | 30°19'44.90365" N | 91°20'46.40712" W | -24.054 |
| NVA098 | 17002KR | GROSSE TETE | 30°24'32.88426" N | 91°26'07.58912" W | -23.041 |
| NVA099 | 17002FC | WALKER | 30°28'11.64652" N | 90°47'58.41084" W | -17.685 |
| NVA100 | 17002FI | SPRINGFIELD | 30°27'58.98683" N | 90°32'33.20992" W | -18.984 |
| NVA101 | 17002FJ | SPRINGFIELD | 30°28'11.84390" N | 90°30'27.06174" W | -18.630 |
| PAUL | PAUL | GOLDEN MEADOW | 29°28'04.28579" N | 90°18'37.73539" W | -12.809 |
| SJHS | SJHS | SLIDELL | 30°16'49.45657" N | 89°46'47.85818" W | -12.935 |
| TIBO | TIBO | THIBODAUX | 29°47'26.04594" N | 90°48'16.47280" W | 2.895 |
| TRAVERSE | 17002SC | PONCHATOUA | 30°25'30.73046" N | 90°27'06.76341" W | -22.140 |
| TRAVERSE | 17002SD | PONCHATOUA NE | 30°28'12.31856" N | 90°19'34.20838" W | -18.458 |
| TRAVERSE | 17002SE | MADISONVILLE | 30°26'23.53457" N | 90°10'09.55053" W | -19.580 |
| TRAVERSE | 17002SF | FROST | 30°26'44.29547" N | 90°38'34.11371" W | -19.324 |
| TRAVERSE | 17002SG | KILLIAN | 30°18'50.97861" N | 90°36'00.76198" W | -21.591 |
| TRAVERSE | 17002SH | DENHAM SPRINGS | 30°23'33.08823" N | 90°53'30.44796" W | -15.253 |
| TRAVERSE | 17002SI | CARVILLE | 30°14'55.74009" N | 91°02'52.11890" W | -21.686 |
| TRAVERSE | 17002SJ | GONZALES | 30°09'25.30983" N | 90°53'00.03077" W | -23.046 |
| TRAVERSE | 17002SK | WHITEHALL | 30°20'13.02531" N | 90°43'58.95232" W | -20.537 |
| TRAVERSE | 17002XC | PONCHATOUA | 30°25'30.01318" N | 90°27'05.39620" W | -23.374 |
| TRAVERSE | 17002XD | PONCHATOUA NE | 30°28'12.35081" N | 90°19'32.20406" W | -20.013 |
| TRAVERSE | 17002XE | MADISONVILLE | 30°26'23.60739" N | 90°10'11.93043" W | -21.106 |
| TRAVERSE | 17002XF | FROST | 30°26'45.16968" N | 90°38'34.08083" W | -20.940 |
| TRAVERSE | 17002XG | KILLIAN | 30°18'49.69251" N | 90°36'01.79912" W | -23.030 |
| TRAVERSE | 17002XH | DENHAM SPRINGS | 30°23'32.83803" N | 90°53'29.23673" W | -16.316 |
| TRAVERSE | 17002XI | CARVILLE | 30°14'56.87673" N | 91°02'51.66277" W | -23.249 |
| TRAVERSE | 17002XJ | GONZALES | 30°09'25.99510" N | 90°53'00.91841" W | -24.664 |
| TRAVERSE | 17002XK | WHITEHALL | 30°20'13.73453" N | 90°43'59.29565" W | -22.091 |
| VRS_0315 | VRS_0315 | NEW ORLEANS WEST | 29°59'36.60899" N | 90°13'02.24220" W | -27.100 |
| VVA001 | 17002DG | CHALMETTE | 29°59'30.72127" N | 89°56'33.23455" W | -25.833 |
| VVA002 | 17002DL | NEW ORLEANS EAST | 29°53'28.00576" N | 90°04'29.62915" W | -25.622 |
| VVA003 | 17002DZ | CHEF MENTEUR | 30°04'00.73812" N | 89°49'47.16793" W | -25.924 |
| VVA004 | 17002EA | CHEF MENTEUR | 30°05'49.74801" N | 89°45'58.09221" W | -25.780 |
| VVA005 | 17002ED | RIGOLETS | 30°11'02.81493" N | 89°44'28.01699" W | -25.689 |
| VVA006 | 17002EK | SLIDELL | 30°16'54.03648" N | 89°50'22.93936" W | -24.234 |
| VVA007 | 17002EL | LACOMBE | 30°18'28.31554" N | 89°52'56.02703" W | -21.786 |
| VVA008 | 17002EM | LACOMBE | 30°20'24.95403" N | 89°57'56.49123" W | -21.055 |
| VVA009 | 17002EP | MADISONVILLE | 30°26'27.25556" N | 90°13'12.08031" W | -21.237 |
| VVA010 | 17002EQ | PONCHATOUA NE | 30°26'37.46152" N | 90°19'20.29084" W | -20.579 |
| VVA011 | 17002ES | PONCHATOUA | 30°26'37.53104" N | 90°25'11.98515" W | -20.130 |
| VVA012 | 17002EX | SPRINGFIELD | 30°25'15.58868" N | 90°36'35.56206" W | -21.715 |
| VVA013 | 17002FB | WALKER | 30°27'47.86928" N | 90°51'46.13150" W | -17.784 |
| VVA014 | 17002FD | FROST | 30°26'09.37178" N | 90°40'14.12945" W | -22.037 |
| VVA015 | 17002FF | SPRINGFIELD | 30°28'27.12610" N | 90°34'38.36560" W | -16.740 |
| VVA016 | 17002FH | SPRINGFIELD | 30°25'58.32612" N | 90°32'45.40199" W | -23.014 |
| VVA017 | 17002FK | PONCHATOUA | 30°27'09.81368" N | 90°29'56.85915" W | -20.356 |
| VVA018 | 17002FM | KILLIAN | 30°22'07.98533" N | 90°33'28.37580" W | -22.802 |
| VVA019 | 17002FN | WHITEHALL | 30°21'48.69440" N | 90°37'51.31714" W | -21.689 |
| VVA020 | 17002FS | KILLIAN | 30°18'30.66195" N | 90°36'26.69544" W | -25.321 |
| VVA021 | 17002FT | WHITEHALL | 30°17'42.07120" N | 90°38'44.22410" W | -23.065 |

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|--------------|---------|------------------|-------------------|-------------------|---------|
| VVA022 | 17002FU | WHITEHALL | 30°15'35.09348" N | 90°43'03.43040" W | -25.680 |
| VVA023 | 17002HB | LA BRANCHE | 30°01'22.30051" N | 90°16'18.01128" W | -28.566 |
| VVA024 | 17002HD | DES ALLEMANDS | 29°48'17.39992" N | 90°29'56.56627" W | -25.272 |
| VVA025 | 17002HG | BAYOU BOEUF | 29°45'30.46199" N | 90°33'18.38536" W | -24.172 |
| VVA026 | 17002HI | LOCKPORT | 29°42'50.19747" N | 90°34'47.41063" W | -22.879 |
| VVA027 | 17002HK | LAROSE | 29°34'39.90800" N | 90°23'28.43033" W | -24.233 |
| VVA028 | 17002HN | LOCKPORT | 29°44'04.94399" N | 90°37'22.43220" W | -22.140 |
| VVA029 | 17002HS | MADEWOOD | 29°52'46.49289" N | 90°57'06.03883" W | -23.743 |
| VVA030 | 17002HX | LOWER VACHERIE | 29°57'58.68414" N | 90°43'38.27578" W | -24.228 |
| VVA031 | 17002IB | DONALDSONVILLE | 30°04'41.30774" N | 90°57'51.33430" W | -24.070 |
| VVA032 | 17002IK | NAPOLEONVILLE | 29°53'34.44468" N | 91°04'26.50796" W | -23.893 |
| VVA033 | 17002IR | WHITE CASTLE | 30°09'04.18738" N | 91°11'38.85947" W | -24.226 |
| VVA034 | 17002IS | WHITE CASTLE | 30°11'30.73092" N | 91°10'36.42823" W | -22.176 |
| VVA035 | 17002IY | LOBDELL | 30°27'02.61224" N | 91°18'47.62663" W | -23.238 |
| VVA036 | 17002IZ | BATON ROUGE WEST | 30°26'40.83254" N | 91°14'37.52000" W | -23.048 |
| VVA037 | 17002JB | BATON ROUGE WEST | 30°22'58.89634" N | 91°14'49.26206" W | -20.645 |
| VVA038 | 17002JD | PLAQUEMINE | 30°21'59.65954" N | 91°09'19.35378" W | -22.525 |
| VVA039 | 17002JF | PRAIRIEVILLE | 30°18'02.83058" N | 90°58'23.44867" W | -19.790 |
| VVA040 | 17002JH | GONZALES | 30°12'20.90666" N | 90°56'12.86514" W | -24.061 |
| VVA041 | 17002JK | MOUNT AIRY NW | 30°08'21.02935" N | 90°44'40.65624" W | -24.925 |
| VVA042 | 17002JM | LUTCHER | 30°01'59.81965" N | 90°39'59.25069" W | -22.670 |
| VVA043 | 17002JO | LOWER VACHERIE | 29°59'23.64550" N | 90°40'10.28420" W | -25.242 |
| VVA044 | 17002JQ | RESERVE | 30°02'09.60565" N | 90°33'30.26878" W | -24.042 |
| VVA045 | 17002JR | HAHNVILLE | 29°56'18.36233" N | 90°25'29.96081" W | -24.789 |
| VVA046 | 17002JS | DES ALLEMANDS | 29°47'30.26217" N | 90°25'42.97009" W | -27.260 |
| VVA047 | 17002JV | LAPLACE | 30°05'22.69128" N | 90°26'25.24537" W | -25.915 |
| VVA048 | 17002JW | RESERVE | 30°06'59.28541" N | 90°36'17.44328" W | -24.762 |
| VVA049 | 17002JY | LAPLACE | 30°04'52.24023" N | 90°27'54.62888" W | -24.986 |
| VVA050 | 17002JZ | LAPLACE | 30°00'12.93913" N | 90°27'48.32554" W | -18.892 |
| VVA051 | 17002KB | LULING | 29°57'52.58571" N | 90°18'16.28321" W | -23.848 |
| VVA052 | 17002KC | LULING | 29°55'00.07935" N | 90°19'21.71711" W | -25.815 |
| VVA053 | 17002KD | LOCKPORT | 29°40'43.32258" N | 90°33'10.01672" W | -24.839 |
| VVA054 | 17002KF | GHEENS | 29°41'59.67235" N | 90°28'35.97967" W | -24.475 |
| VVA055 | 17002KG | LOCKPORT | 29°40'59.47942" N | 90°31'20.70224" W | -24.513 |
| VVA056 | 17002KH | LAROSE | 29°36'25.22183" N | 90°29'18.71562" W | -24.611 |
| VVA057 | 17002KI | CUT OFF | 29°32'40.96287" N | 90°20'05.99668" W | -24.428 |
| VVA058 | 17002KJ | GOLDEN MEADOW | 29°29'48.27916" N | 90°20'18.39509" W | -25.997 |
| VVA059 | 17002KL | SAVOIE | 29°43'25.50086" N | 90°42'41.26237" W | -24.501 |
| VVA060 | 17002KM | THIBODAUX | 29°46'51.56201" N | 90°49'14.08208" W | -22.021 |
| VVA061 | 17002KO | GRASSY LAKE | 29°49'16.79833" N | 91°02'37.87681" W | -24.990 |
| VVA062 | 17002KP | NAPOLEONVILLE | 29°59'18.96899" N | 91°01'49.92171" W | -20.941 |
| VVA063 | 17002IE | BELLE ROSE | 30°06'23.97741" N | 91°05'22.63437" W | -24.623 |
| VVA064 | 17002DJ | NEW ORLEANS EAST | 29°54'40.50113" N | 90°01'26.77137" W | -27.883 |
| VVA065 | 17002DO | NEW ORLEANS WEST | 29°54'46.24859" N | 90°14'48.30525" W | -26.048 |
| VVA066 | 17002DV | NORTH SHORE | 30°13'02.18427" N | 89°47'15.90050" W | -24.728 |
| VVA067 | 17002DW | NORTH SHORE | 30°09'12.52345" N | 89°51'24.22984" W | -23.700 |
| VVA068 | 17002DX | LITTLE WOODS | 30°04'42.73171" N | 89°55'32.79168" W | -25.580 |
| VVA069 | 17002HY | LAGAN | 29°58'06.27889" N | 90°51'17.96277" W | -24.647 |
| VVA070 | 17002WC | PONCHATOUA | 30°25'29.08481" N | 90°27'06.89619" W | -23.643 |
| VVA071 | 17002WD | PONCHATOUA NE | 30°28'11.56030" N | 90°19'34.70930" W | -20.321 |
| VVA072 | 17002WE | MADISONVILLE | 30°26'22.51289" N | 90°10'09.84383" W | -21.375 |
| VVA073 | 17002WF | FROST | 30°26'43.83114" N | 90°38'34.72779" W | -21.058 |
| VVA074 | 17002WG | KILLIAN | 30°18'50.18723" N | 90°35'59.69342" W | -23.071 |
| VVA075 | 17002WH | DENHAM SPRINGS | 30°23'33.96023" N | 90°53'29.98942" W | -16.593 |
| VVA076 | 17002WI | CARVILLE | 30°14'56.10209" N | 91°02'53.09184" W | -24.098 |
| VVA077 | 17002WJ | GONZALES | 30°09'25.78741" N | 90°52'59.48219" W | -25.107 |

| Station Name | GPSID | USGS Quad | Latitude | Longitude | Ellip H |
|---------------|---------|-----------|-------------------|-------------------|---------|
| VVA078 | 17002WK | WHITEHALL | 30°20'11.68462" N | 90°43'59.84954" W | -22.080 |

NAD83 (2011) UTM Zone 15 and 16 Coordinates - meters

NAVD88 Orthometric Heights (GEOID12B) – meters

Table 6 - NAD83 (2011) UTM Zone 15/16 and NAVD88 GPS Derived Orthometric Heights

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|--------------|-------------|------------|-------------|------------|----------|
| AWES | 3331612.101 | 694363.655 | 3336594.915 | 116085.338 | 17.669 |
| BSRL | 3334789.439 | 661575.511 | 3341499.417 | 83457.916 | 4.398 |
| COVG | 3375108.191 | 778841.155 | 3375595.987 | 202807.027 | 22.284 |
| DOTD | 3371097.972 | 674955.436 | 3377110.869 | 98764.578 | 44.268 |
| DSTR | 3317741.265 | 752612.468 | 3319673.280 | 173580.788 | 7.492 |
| GCP01 | 3359473.397 | 642074.378 | 3367228.464 | 65251.472 | 5.907 |
| GCP02 | 3358431.487 | 656521.263 | 3365419.398 | 79651.385 | 4.336 |
| GCP02A | 3359597.609 | 656146.995 | 3366605.931 | 79338.803 | 5.227 |
| GCP03 | 3345436.007 | 661949.214 | 3352130.762 | 84393.662 | 2.198 |
| GCP04 | 3327684.747 | 665105.473 | 3334205.955 | 86615.286 | 1.712 |
| GCP05 | 3358889.093 | 666481.583 | 3365348.891 | 89639.983 | 4.699 |
| GCP06 | 3307259.538 | 674569.286 | 3313277.554 | 95011.122 | 1.308 |
| GCP07 | 3368168.981 | 674726.315 | 3374193.480 | 98379.652 | 16.012 |
| GCP08 | 3341419.020 | 675507.427 | 3347396.424 | 97744.050 | 5.270 |
| GCP09 | 3358799.772 | 679306.621 | 3364579.462 | 102463.365 | 6.444 |
| GCP10 | 3315944.582 | 681540.285 | 3321599.646 | 102438.359 | 0.998 |
| GCP11 | 3332835.216 | 683195.749 | 3338405.849 | 104981.265 | 2.571 |
| GCP12 | 3307619.917 | 683546.586 | 3313168.603 | 104009.223 | 1.723 |
| GCP13 | 3289497.237 | 686634.692 | 3294882.271 | 106152.601 | 1.421 |
| GCP14 | 3345948.255 | 690597.819 | 3351129.414 | 113075.323 | 6.418 |
| GCP15 | 3358892.688 | 692664.889 | 3363964.244 | 115827.285 | 5.441 |
| GCP16 | 3329848.820 | 697418.356 | 3334671.050 | 119047.136 | 4.135 |
| GCP17 | 3307236.145 | 697985.553 | 3312030.035 | 118428.867 | 2.273 |
| GCP18 | 3298729.375 | 699191.474 | 3303460.785 | 119190.665 | 2.482 |
| GCP19 | 3370836.628 | 701151.538 | 3375456.394 | 124947.035 | 10.647 |
| GCP20 | 3321902.055 | 702376.734 | 3326464.656 | 123587.603 | 2.162 |
| GCP21 | 3345633.263 | 705006.900 | 3350053.495 | 127466.370 | 1.918 |
| GCP22 | 3307604.343 | 711949.954 | 3311668.457 | 132410.392 | 0.945 |
| GCP23 | 3358473.284 | 712089.337 | 3362515.642 | 135226.048 | 4.774 |
| GCP24 | 3317651.290 | 712810.207 | 3321667.746 | 133796.083 | 1.779 |
| GCP25 | 3366746.597 | 714086.234 | 3370680.286 | 137661.017 | 4.402 |
| GCP26 | 3294431.681 | 715782.621 | 3298299.473 | 135555.021 | 1.817 |
| GCP27 | 3336349.841 | 717257.165 | 3340126.767 | 139223.717 | 1.928 |
| GCP28 | 3328973.261 | 721881.365 | 3332509.847 | 143458.121 | 2.219 |
| GCP29 | 3307862.197 | 719882.977 | 3311511.756 | 140354.442 | 0.777 |
| GCP30 | 3350302.833 | 727497.118 | 3353533.459 | 150195.090 | 1.845 |
| GCP31 | 3320825.664 | 727709.503 | 3324060.095 | 148856.013 | 1.577 |
| GCP32 | 3291573.562 | 730449.916 | 3294679.370 | 150067.849 | 2.848 |
| GCP33 | 3367080.660 | 730671.449 | 3370133.839 | 154256.136 | 3.510 |
| GCP34 | 3334113.174 | 730780.873 | 3337179.388 | 152623.533 | 1.867 |
| GCP35 | 3299063.205 | 741198.134 | 3301605.291 | 161199.668 | 1.046 |
| GCP36 | 3277687.304 | 742823.322 | 3280159.030 | 161713.539 | 1.987 |
| GCP37 | 3319630.713 | 743405.430 | 3322043.379 | 164479.858 | 1.528 |
| GCP38 | 3342055.507 | 746388.146 | 3344294.670 | 168638.566 | 0.714 |
| GCP39 | 3366025.309 | 746857.375 | 3368220.475 | 170374.674 | 1.771 |
| GCP40 | 3307542.573 | 747631.122 | 3309743.167 | 168070.289 | -0.249 |
| GCP41 | 3356531.788 | 749385.401 | 3358600.929 | 172397.731 | 0.862 |
| GCP42 | 3329599.789 | 749700.036 | 3331674.674 | 171292.534 | 0.745 |
| GCP43 | 3276159.540 | 754771.123 | 3278013.888 | 173573.399 | 0.520 |
| GCP44 | 3374816.258 | 756356.387 | 3376499.243 | 180331.984 | 8.940 |
| GCP45 | 3266171.030 | 757959.181 | 3267869.045 | 176242.599 | -0.784 |
| GCP46 | 3312537.843 | 759928.478 | 3314091.840 | 180618.109 | 0.751 |

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|--------------|-------------|------------|-------------|------------|----------|
| GCP46A | 3297366.236 | 751840.748 | 3299355.357 | 171746.109 | 1.189 |
| GCP47 | 3325440.359 | 762447.959 | 3326849.981 | 183810.647 | -2.027 |
| GCP48 | 3366329.237 | 767285.717 | 3367440.823 | 190799.460 | 1.739 |
| GCP49 | 3307514.852 | 779033.654 | 3308076.645 | 199440.477 | 0.268 |
| GCP50 | 3294286.670 | 777207.853 | 3294959.248 | 196927.969 | 0.692 |
| GCP51 | 3324634.629 | 780435.381 | 3325102.113 | 201735.689 | -0.363 |
| GCP52 | 3365916.305 | 783248.521 | 3366182.257 | 206720.885 | 5.607 |
| GCP53 | 3307213.588 | 786529.328 | 3307384.763 | 206910.985 | -1.555 |
| GCP54 | 3327710.154 | 793035.884 | 3327512.922 | 214480.567 | -2.681 |
| GCP55 | 3317011.475 | 793524.472 | 3316803.926 | 214408.221 | -0.217 |
| GCP56 | 3357347.547 | 794396.648 | 3357035.519 | 217399.791 | 4.252 |
| GCP57 | 3330806.555 | 807530.047 | 3329844.276 | 229114.912 | 0.671 |
| GCP58 | 3356591.913 | 810241.277 | 3355443.756 | 233179.231 | 4.024 |
| GCP59 | 3335247.959 | 812072.404 | 3334039.778 | 233882.832 | 0.655 |
| GCP60 | 3344823.732 | 816712.900 | 3343354.767 | 239018.839 | 2.127 |
| GCP61 | 3356936.176 | 822100.985 | 3355160.873 | 245035.893 | 3.376 |
| GCP62 | 3345032.183 | 812440.558 | 3343787.843 | 234764.973 | 0.827 |
| GVMS | 3355484.767 | 701572.932 | 3360084.776 | 124553.891 | 11.704 |
| HAMM | 3378367.744 | 743014.731 | 3380757.212 | 167190.830 | 34.205 |
| HOMA | 3274332.328 | 721733.956 | 3277897.627 | 140461.093 | 11.197 |
| INRI | 3315296.333 | 778115.459 | 3315896.699 | 198929.781 | 16.777 |
| LUCH | 3326180.528 | 722382.765 | 3329691.953 | 143812.631 | 11.454 |
| LWES | 3310697.030 | 755945.661 | 3312460.817 | 176542.737 | 10.188 |
| MARY | 3325346.800 | 797737.790 | 3324906.539 | 219051.708 | 3.260 |
| MCHS | 3288801.352 | 673707.787 | 3294858.761 | 93186.580 | 10.836 |
| NVA001 | 3321303.340 | 768462.780 | 3322401.992 | 189602.433 | -2.032 |
| NVA002 | 3319433.627 | 773649.083 | 3320262.787 | 194685.084 | 1.472 |
| NVA003 | 3321750.697 | 778082.518 | 3322344.998 | 199234.620 | -1.828 |
| NVA004 | 3325818.274 | 785454.414 | 3326021.155 | 206810.324 | 0.983 |
| NVA005 | 3325821.587 | 789931.277 | 3325789.784 | 211281.310 | -2.424 |
| NVA006 | 3323866.283 | 793372.568 | 3323656.900 | 214615.298 | 0.596 |
| NVA007 | 3319660.911 | 789395.670 | 3319665.639 | 210423.778 | -1.586 |
| NVA008 | 3313359.835 | 781464.267 | 3313787.547 | 202173.270 | 2.678 |
| NVA009 | 3322625.178 | 765933.492 | 3323854.940 | 187145.064 | -1.810 |
| NVA010 | 3299999.349 | 780435.263 | 3300497.217 | 200448.713 | 0.284 |
| NVA011 | 3308580.310 | 778883.381 | 3309148.658 | 199345.978 | 0.163 |
| NVA012 | 3311479.683 | 773997.607 | 3312299.707 | 194617.309 | -1.289 |
| NVA013 | 3317218.426 | 754360.281 | 3319059.406 | 175299.741 | 1.021 |
| NVA014 | 3318056.692 | 765265.031 | 3319326.170 | 186238.051 | 3.550 |
| NVA015 | 3316893.310 | 775142.011 | 3317647.281 | 196043.364 | 5.302 |
| NVA016 | 3324048.592 | 790055.088 | 3324012.754 | 211312.035 | 0.282 |
| NVA017 | 3326522.130 | 797105.501 | 3326113.257 | 218481.962 | 0.054 |
| NVA018 | 3328825.254 | 801177.564 | 3328199.374 | 222668.612 | 0.302 |
| NVA019 | 3336094.312 | 801904.892 | 3335418.937 | 223776.429 | 0.214 |
| NVA020 | 3299618.122 | 741600.829 | 3302138.861 | 161631.006 | 0.853 |
| NVA021 | 3294571.408 | 736438.364 | 3297364.097 | 156208.998 | 2.000 |
| NVA022 | 3289053.583 | 734742.334 | 3291937.603 | 154227.029 | 2.520 |
| NVA023 | 3331245.872 | 802531.507 | 3330545.187 | 224147.442 | 0.845 |
| NVA024 | 3338328.298 | 812336.076 | 3337100.987 | 234307.921 | 2.041 |
| NVA025 | 3341215.182 | 813994.884 | 3339895.642 | 236115.684 | 1.354 |
| NVA026 | 3347096.648 | 818502.971 | 3345529.305 | 240925.413 | 2.335 |
| NVA027 | 3349613.173 | 823435.860 | 3347781.193 | 245981.811 | 1.011 |
| NVA028 | 3355296.000 | 814742.561 | 3353912.333 | 237604.243 | 3.199 |
| NVA029 | 3351167.455 | 816962.215 | 3349673.993 | 239602.043 | 2.059 |
| NVA030 | 3353254.223 | 811813.834 | 3352028.747 | 234572.833 | 3.264 |
| NVA031 | 3350960.107 | 808790.396 | 3349898.078 | 231433.484 | 0.941 |

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|--------------|-------------|------------|-------------|------------|----------|
| NVA032 | 3367440.752 | 774996.787 | 3368142.185 | 198560.494 | 2.434 |
| NVA033 | 3364149.578 | 772746.673 | 3364974.228 | 196138.637 | 0.580 |
| NVA034 | 3374394.803 | 748534.963 | 3376493.906 | 172495.255 | 8.879 |
| NVA035 | 3372964.392 | 744087.750 | 3375301.027 | 167975.664 | 8.092 |
| NVA036 | 3361463.899 | 748161.561 | 3363593.698 | 171436.005 | 0.832 |
| NVA037 | 3352540.884 | 750087.786 | 3354576.262 | 172888.515 | 0.816 |
| NVA038 | 3345246.722 | 748601.964 | 3347366.617 | 171018.854 | 1.384 |
| NVA039 | 3371772.081 | 716511.959 | 3375575.028 | 140352.801 | 9.611 |
| NVA040 | 3364264.113 | 714264.614 | 3368189.215 | 137707.588 | 6.688 |
| NVA041 | 3367048.014 | 706149.084 | 3371403.039 | 129742.238 | 6.285 |
| NVA042 | 3373451.193 | 726304.411 | 3376732.767 | 150229.962 | 10.560 |
| NVA043 | 3371146.550 | 733366.272 | 3374054.148 | 157165.210 | 7.762 |
| NVA044 | 3364606.002 | 735742.938 | 3367391.672 | 159193.172 | 3.210 |
| NVA045 | 3358557.348 | 719250.770 | 3362220.337 | 142389.309 | 4.798 |
| NVA046 | 3355963.836 | 714755.111 | 3359865.867 | 137758.049 | 1.928 |
| NVA047 | 3353732.104 | 712149.644 | 3357772.755 | 135035.340 | 3.399 |
| NVA048 | 3349653.513 | 715199.860 | 3353534.229 | 137868.892 | 1.982 |
| NVA049 | 3357675.380 | 704426.199 | 3362123.882 | 127522.643 | 4.147 |
| NVA050 | 3362711.010 | 702109.010 | 3367281.374 | 125472.833 | 5.345 |
| NVA051 | 3283568.967 | 738265.115 | 3286273.257 | 157463.039 | 3.253 |
| NVA052 | 3274197.833 | 753593.210 | 3276114.722 | 172294.955 | 1.938 |
| NVA053 | 3268608.739 | 757150.584 | 3270346.410 | 175560.531 | -0.252 |
| NVA054 | 3291504.089 | 728741.398 | 3294698.771 | 148356.545 | 2.967 |
| NVA055 | 3295169.930 | 720265.592 | 3298804.102 | 140074.979 | 1.078 |
| NVA056 | 3300287.199 | 704795.623 | 3304726.217 | 124875.493 | 3.919 |
| NVA057 | 3299270.292 | 697244.693 | 3304103.190 | 117272.177 | 2.663 |
| NVA058 | 3305220.520 | 712314.172 | 3309266.212 | 132650.005 | 1.336 |
| NVA059 | 3306345.722 | 721480.513 | 3309912.408 | 141872.171 | 0.617 |
| NVA060 | 3314220.715 | 721152.291 | 3317801.502 | 141955.754 | 1.875 |
| NVA061 | 3317526.434 | 720206.926 | 3321155.443 | 141183.832 | 3.178 |
| NVA062 | 3317300.419 | 706807.943 | 3321631.434 | 127776.835 | 1.826 |
| NVA063 | 3328178.104 | 695777.687 | 3333086.688 | 117318.728 | 2.726 |
| NVA064 | 3330623.615 | 694970.769 | 3335574.525 | 116640.431 | 5.051 |
| NVA065 | 3332084.246 | 692065.697 | 3337187.968 | 113812.257 | 5.246 |
| NVA066 | 3329812.818 | 684917.091 | 3335292.516 | 106543.762 | 2.575 |
| NVA067 | 3322434.793 | 687775.247 | 3327763.640 | 109014.494 | 4.475 |
| NVA068 | 3317909.443 | 687108.918 | 3323272.872 | 108110.713 | 3.783 |
| NVA069 | 3315016.979 | 688668.202 | 3320298.459 | 109518.540 | 4.420 |
| NVA070 | 3308473.621 | 685967.048 | 3313895.857 | 106474.655 | 2.235 |
| NVA071 | 3320662.074 | 685324.681 | 3326119.362 | 106470.667 | 3.663 |
| NVA072 | 3320451.354 | 674068.625 | 3326499.259 | 95201.388 | 1.633 |
| NVA073 | 3315405.319 | 672468.518 | 3321535.692 | 93336.180 | 1.511 |
| NVA074 | 3332156.213 | 664201.194 | 3338726.776 | 85945.971 | 1.484 |
| NVA075 | 3334754.497 | 667569.220 | 3341148.614 | 89452.119 | 1.020 |
| NVA076 | 3336741.677 | 674169.406 | 3342788.542 | 96159.006 | 3.320 |
| NVA077 | 3346477.584 | 672902.450 | 3352593.787 | 95405.612 | 3.203 |
| NVA078 | 3347194.602 | 666492.128 | 3353649.881 | 89031.263 | 3.741 |
| NVA079 | 3347680.432 | 661493.602 | 3354400.205 | 84056.519 | 3.101 |
| NVA080 | 3369937.656 | 661898.215 | 3376644.856 | 85641.861 | 4.509 |
| NVA081 | 3369419.940 | 668601.685 | 3375770.397 | 92320.037 | 4.458 |
| NVA082 | 3365459.626 | 670208.605 | 3371723.564 | 93716.897 | 5.770 |
| NVA083 | 3358887.838 | 684899.023 | 3364371.049 | 108061.048 | 3.214 |
| NVA084 | 3351967.179 | 694200.461 | 3356957.747 | 116996.055 | 4.997 |
| NVA085 | 3343944.586 | 699387.578 | 3348661.736 | 121758.790 | 2.273 |
| NVA086 | 3342614.296 | 705748.411 | 3346996.004 | 128048.395 | 0.932 |
| NVA087 | 3334392.795 | 723294.532 | 3337852.734 | 145155.636 | 1.330 |

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|--------------|-------------|------------|-------------|------------|----------|
| NVA088 | 3325645.477 | 724406.098 | 3329050.918 | 145806.991 | 9.914 |
| NVA089 | 3325312.099 | 735435.826 | 3328138.846 | 156813.386 | 2.644 |
| NVA090 | 3304165.812 | 748362.331 | 3306330.829 | 168624.734 | -1.375 |
| NVA091 | 3331442.449 | 746673.000 | 3333674.888 | 168364.705 | 1.276 |
| NVA092 | 3326166.209 | 746618.842 | 3328405.561 | 168033.533 | 1.687 |
| NVA093 | 3321737.746 | 745386.440 | 3324045.076 | 166569.825 | 4.086 |
| NVA094 | 3287374.534 | 744281.735 | 3289764.121 | 163673.292 | 1.319 |
| NVA095 | 3275991.772 | 746122.412 | 3278293.850 | 164922.609 | 1.105 |
| NVA096 | 3300611.166 | 688994.077 | 3305874.482 | 109091.284 | 0.740 |
| NVA097 | 3356416.460 | 658984.767 | 3363272.817 | 82009.162 | 3.109 |
| NVA098 | 3365160.953 | 650284.407 | 3372483.466 | 73768.630 | 4.216 |
| NVA099 | 3372913.746 | 711245.916 | 3376996.268 | 135149.344 | 9.299 |
| NVA100 | 3373032.851 | 735933.854 | 3375802.779 | 159831.353 | 7.923 |
| NVA101 | 3373502.556 | 739290.374 | 3376093.751 | 163210.504 | 8.270 |
| PAUL | 3262834.817 | 760820.311 | 3264388.191 | 178929.143 | 11.912 |
| SJHS | 3354249.150 | 809769.251 | 3353129.908 | 232584.272 | 13.771 |
| TIBO | 3297599.601 | 712213.267 | 3301652.448 | 132151.609 | 28.530 |
| TRAVERSE | 3368659.999 | 744745.533 | 3370965.096 | 168404.324 | 4.682 |
| TRAVERSE | 3373915.616 | 756706.299 | 3375580.874 | 180633.694 | 8.359 |
| TRAVERSE | 3370932.240 | 771854.729 | 3371796.183 | 195607.432 | 7.173 |
| TRAVERSE | 3370527.515 | 726354.237 | 3373808.003 | 150124.375 | 7.589 |
| TRAVERSE | 3356037.792 | 730754.863 | 3359092.997 | 153754.289 | 5.177 |
| TRAVERSE | 3364167.360 | 702549.377 | 3368714.092 | 125990.387 | 11.713 |
| TRAVERSE | 3347969.140 | 687830.687 | 3353296.558 | 110414.906 | 5.220 |
| TRAVERSE | 3338077.955 | 703847.738 | 3342560.737 | 125908.906 | 3.648 |
| TRAVERSE | 3358301.532 | 717928.466 | 3362034.661 | 141053.995 | 6.311 |
| TRAVERSE | 3368638.732 | 744782.521 | 3370941.882 | 168440.154 | 3.449 |
| TRAVERSE | 3373917.875 | 756759.747 | 3375580.290 | 180687.210 | 6.803 |
| TRAVERSE | 3370932.892 | 771791.158 | 3371800.208 | 195543.971 | 5.647 |
| TRAVERSE | 3370554.453 | 726354.553 | 3373834.909 | 150126.122 | 5.974 |
| TRAVERSE | 3355997.604 | 730727.993 | 3359054.254 | 153725.308 | 3.738 |
| TRAVERSE | 3364160.258 | 702581.853 | 3368705.268 | 126022.479 | 10.649 |
| TRAVERSE | 3348004.347 | 687842.279 | 3353331.153 | 110428.360 | 3.657 |
| TRAVERSE | 3338098.614 | 703823.595 | 3342582.665 | 125885.855 | 2.030 |
| TRAVERSE | 3358323.188 | 717918.859 | 3362056.817 | 141045.539 | 4.757 |
| VRS_0315 | 3321325.921 | 768456.643 | 3322424.869 | 189597.485 | -0.996 |
| VVA001 | 3321820.710 | 794977.092 | 3321530.244 | 216110.382 | 0.250 |
| VVA002 | 3310315.416 | 782489.102 | 3310693.423 | 203037.816 | 0.217 |
| VVA003 | 3330434.354 | 805634.465 | 3329572.136 | 227202.883 | 0.355 |
| VVA004 | 3333964.440 | 811677.220 | 3332779.202 | 233420.913 | 0.591 |
| VVA005 | 3343677.268 | 813814.272 | 3342362.943 | 236064.961 | 0.864 |
| VVA006 | 3354228.620 | 804014.937 | 3353413.256 | 226838.403 | 2.439 |
| VVA007 | 3357019.605 | 799842.357 | 3356420.241 | 222819.887 | 4.904 |
| VVA008 | 3360394.623 | 791715.704 | 3360219.910 | 214883.916 | 5.638 |
| VVA009 | 3370925.911 | 766980.599 | 3372048.588 | 190738.541 | 5.513 |
| VVA010 | 3371002.947 | 757146.851 | 3372647.624 | 180919.104 | 6.199 |
| VVA011 | 3370786.752 | 747761.913 | 3372929.974 | 171531.162 | 6.696 |
| VVA012 | 3367862.212 | 729575.157 | 3370973.125 | 153201.966 | 5.166 |
| VVA013 | 3372064.935 | 705185.719 | 3376469.956 | 129045.695 | 9.218 |
| VVA014 | 3369396.720 | 723707.838 | 3372818.366 | 147419.265 | 4.876 |
| VVA015 | 3373827.282 | 732576.521 | 3376775.166 | 156518.428 | 10.187 |
| VVA016 | 3369309.914 | 735689.314 | 3372095.319 | 159389.197 | 3.858 |
| VVA017 | 3371610.053 | 740138.365 | 3374157.557 | 163957.314 | 6.519 |
| VVA018 | 3362191.584 | 734695.613 | 3365034.347 | 158018.527 | 4.007 |
| VVA019 | 3361448.399 | 727686.723 | 3364663.056 | 150974.391 | 5.143 |
| VVA020 | 3355397.513 | 730075.173 | 3358489.048 | 153041.110 | 1.444 |

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|--------------|-------------|------------|-------------|------------|----------|
| VVA021 | 3353824.330 | 726431.573 | 3357109.458 | 149316.260 | 3.701 |
| VVA022 | 3349772.789 | 719583.572 | 3353421.813 | 142257.241 | 1.082 |
| VVA023 | 3324454.694 | 763130.812 | 3325829.492 | 184441.135 | -2.389 |
| VVA024 | 3299782.872 | 741720.909 | 3302297.245 | 161759.590 | 0.399 |
| VVA025 | 3294525.952 | 736409.869 | 3297320.150 | 156178.154 | 1.381 |
| VVA026 | 3289540.516 | 734121.392 | 3292456.532 | 153631.731 | 2.570 |
| VVA027 | 3274839.436 | 752713.196 | 3276801.333 | 171448.835 | 0.824 |
| VVA028 | 3291755.616 | 729907.102 | 3294889.560 | 149534.769 | 3.354 |
| VVA029 | 3307204.123 | 697815.424 | 3312006.906 | 118257.072 | 2.202 |
| VVA030 | 3317224.454 | 719299.814 | 3320901.090 | 140261.242 | 1.940 |
| VVA031 | 3329191.490 | 696209.148 | 3334077.341 | 117803.441 | 2.489 |
| VVA032 | 3308476.196 | 685972.240 | 3313898.161 | 106479.982 | 2.159 |
| VVA033 | 3336912.630 | 673922.009 | 3342972.579 | 95920.558 | 2.585 |
| VVA034 | 3341451.082 | 675520.301 | 3347427.815 | 97758.618 | 4.708 |
| VVA035 | 3369939.530 | 661956.367 | 3376643.636 | 85700.135 | 3.946 |
| VVA036 | 3369370.570 | 668638.388 | 3375719.062 | 92354.125 | 4.093 |
| VVA037 | 3362532.504 | 668431.016 | 3368890.010 | 91783.355 | 6.482 |
| VVA038 | 3360848.509 | 677267.295 | 3366736.688 | 100532.363 | 4.540 |
| VVA039 | 3353855.498 | 694909.982 | 3358808.407 | 117805.455 | 7.134 |
| VVA040 | 3343390.134 | 698590.030 | 3348149.440 | 120932.067 | 2.737 |
| VVA041 | 3336354.836 | 717249.385 | 3340132.170 | 139216.202 | 1.662 |
| VVA042 | 3324767.681 | 725020.804 | 3328141.258 | 146375.347 | 3.653 |
| VVA043 | 3319952.600 | 724823.072 | 3323338.734 | 145925.181 | 0.971 |
| VVA044 | 3325286.532 | 735436.665 | 3328113.251 | 156812.883 | 2.249 |
| VVA045 | 3314751.960 | 748549.294 | 3316899.016 | 169364.493 | 1.231 |
| VVA046 | 3298481.217 | 748564.061 | 3300640.066 | 168530.049 | -1.633 |
| VVA047 | 3331481.689 | 746691.651 | 3333713.118 | 168385.403 | 0.450 |
| VVA048 | 3334112.204 | 730770.511 | 3337178.963 | 152613.126 | 1.716 |
| VVA049 | 3330490.544 | 744318.757 | 3332847.401 | 165962.229 | 1.372 |
| VVA050 | 3321893.108 | 744678.339 | 3324237.436 | 165870.391 | 7.300 |
| VVA051 | 3317920.951 | 760113.135 | 3319460.201 | 181084.136 | 2.203 |
| VVA052 | 3312567.198 | 758482.492 | 3314196.741 | 179175.003 | 0.121 |
| VVA053 | 3285688.807 | 736822.054 | 3288466.730 | 156130.829 | 0.529 |
| VVA054 | 3288198.276 | 744139.561 | 3290594.679 | 163573.992 | 0.927 |
| VVA055 | 3286248.918 | 739750.822 | 3288874.474 | 159086.911 | 0.862 |
| VVA056 | 3277874.308 | 743214.118 | 3280325.672 | 162113.762 | 0.578 |
| VVA057 | 3271300.374 | 758246.508 | 3272979.117 | 176794.557 | 0.508 |
| VVA058 | 3265974.920 | 758034.458 | 3267669.219 | 176307.693 | -1.180 |
| VVA059 | 3290367.987 | 721363.123 | 3293946.786 | 140922.283 | 0.956 |
| VVA060 | 3296508.465 | 710686.122 | 3300641.129 | 130567.970 | 3.587 |
| VVA061 | 3300592.882 | 689021.428 | 3305854.770 | 109117.684 | 0.805 |
| VVA062 | 3319154.934 | 689991.017 | 3324367.327 | 111058.317 | 5.399 |
| VVA063 | 3332143.934 | 684071.382 | 3337668.390 | 105820.615 | 2.060 |
| VVA064 | 3312674.374 | 787338.819 | 3312796.073 | 208004.432 | -1.996 |
| VVA065 | 3312314.748 | 765827.969 | 3313560.669 | 186500.143 | -0.133 |
| VVA066 | 3347226.739 | 809217.448 | 3346148.467 | 231662.967 | 1.867 |
| VVA067 | 3339966.641 | 802769.255 | 3339239.728 | 224843.030 | 2.756 |
| VVA068 | 3331474.790 | 796339.361 | 3331098.758 | 217976.753 | 0.692 |
| VVA069 | 3317220.864 | 706971.173 | 3321543.342 | 127935.865 | 1.566 |
| VVA070 | 3368609.238 | 744743.132 | 3370914.503 | 168399.230 | 3.179 |
| VVA071 | 3373891.946 | 756693.488 | 3375557.907 | 180619.637 | 6.495 |
| VVA072 | 3370900.576 | 771847.689 | 3371764.929 | 195598.721 | 5.378 |
| VVA073 | 3370512.875 | 726338.151 | 3373794.224 | 150107.519 | 5.856 |
| VVA074 | 3356014.026 | 730783.928 | 3359067.707 | 153782.080 | 3.697 |
| VVA075 | 3364194.438 | 702561.117 | 3368740.542 | 126003.561 | 10.373 |
| VVA076 | 3347979.840 | 687804.487 | 3353308.643 | 110389.271 | 2.808 |

| Station Name | UTM15 N | UTM15 E | UTM16 N | UTM16 E | NAVD88 H |
|---------------|-------------|------------|-------------|------------|----------|
| VVA077 | 3338092.933 | 703862.144 | 3342574.953 | 125924.098 | 1.587 |
| VVA078 | 3358259.768 | 717905.327 | 3361994.139 | 141028.653 | 4.767 |

NAD83 (2011) Louisiana South Zone State Plane Coordinates

NAVD88 Orthometric Height (GEOID12B)

Units: meters & US Survey FT

Table 7 - NAD83 (2011) Louisiana South Zone Coordinates and NAVD88 GPS Derived Orthometric Heights

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| AWES | 177432.189 | 1033770.252 | 17.669 | 582125.439 | 3391627.902 | 57.969 |
| BSRL | 181087.821 | 1001034.108 | 4.398 | 594118.960 | 3284226.068 | 14.429 |
| COVG | 219662.523 | 1118849.609 | 22.284 | 720676.127 | 3670759.093 | 73.110 |
| DOTD | 217195.623 | 1014945.660 | 44.268 | 712582.639 | 3329867.554 | 145.236 |
| DSTR | 162718.434 | 1091793.740 | 7.492 | 533852.064 | 3581993.296 | 24.580 |
| GCP01 | 206056.050 | 981895.666 | 5.907 | 676035.559 | 3221436.030 | 19.380 |
| GCP02 | 204801.927 | 996326.687 | 4.336 | 671920.990 | 3268781.806 | 14.226 |
| GCP02A | 205973.476 | 995969.584 | 5.227 | 675764.645 | 3267610.209 | 17.149 |
| GCP03 | 191727.869 | 1001563.509 | 2.198 | 629027.183 | 3285962.944 | 7.211 |
| GCP04 | 173932.388 | 1004460.013 | 1.712 | 570643.177 | 3295465.892 | 5.617 |
| GCP05 | 205113.059 | 1006292.880 | 4.699 | 672941.761 | 3301479.223 | 15.417 |
| GCP06 | 153372.380 | 1013625.648 | 1.308 | 503189.217 | 3325536.815 | 4.291 |
| GCP07 | 214270.394 | 1014673.333 | 16.012 | 702985.452 | 3328974.094 | 52.533 |
| GCP08 | 187512.836 | 1015061.184 | 5.270 | 615198.363 | 3330246.568 | 17.290 |
| GCP09 | 204835.058 | 1019114.897 | 6.444 | 672029.685 | 3343546.125 | 21.142 |
| GCP10 | 161954.805 | 1020721.480 | 0.998 | 531346.723 | 3348817.055 | 3.274 |
| GCP11 | 178818.113 | 1022622.653 | 2.571 | 586672.427 | 3355054.486 | 8.435 |
| GCP12 | 153602.610 | 1022606.619 | 1.723 | 503944.562 | 3355001.881 | 5.653 |
| GCP13 | 135438.849 | 1025432.289 | 1.421 | 444352.290 | 3364272.433 | 4.662 |
| GCP14 | 191820.096 | 1030215.098 | 6.418 | 629329.765 | 3379964.032 | 21.056 |
| GCP15 | 204731.264 | 1032471.976 | 5.441 | 671689.154 | 3387368.476 | 17.851 |
| GCP16 | 175624.766 | 1036798.442 | 4.135 | 576195.585 | 3401562.890 | 13.566 |
| GCP17 | 153009.760 | 1037036.759 | 2.273 | 501999.521 | 3402344.767 | 7.457 |
| GCP18 | 144487.776 | 1038119.345 | 2.482 | 474040.311 | 3405896.552 | 8.143 |
| GCP19 | 216547.074 | 1041132.947 | 10.647 | 710454.860 | 3415783.678 | 34.931 |
| GCP20 | 167607.910 | 1041639.655 | 2.162 | 549893.618 | 3417446.101 | 7.093 |
| GCP21 | 191293.793 | 1044615.854 | 1.918 | 627603.054 | 3427210.516 | 6.293 |
| GCP22 | 153175.638 | 1051002.366 | 0.945 | 502543.740 | 3448163.594 | 3.100 |
| GCP23 | 204025.697 | 1051884.983 | 4.774 | 669374.307 | 3451059.315 | 15.663 |
| GCP24 | 163206.741 | 1052008.058 | 1.779 | 535454.117 | 3451463.104 | 5.837 |
| GCP25 | 212266.856 | 1054003.417 | 4.402 | 696412.177 | 3458009.544 | 14.442 |
| GCP26 | 139952.071 | 1054643.484 | 1.817 | 459159.420 | 3460109.497 | 5.961 |
| GCP27 | 181833.905 | 1056726.091 | 1.928 | 596566.736 | 3466942.183 | 6.325 |
| GCP28 | 174392.520 | 1061240.780 | 2.219 | 572152.793 | 3481754.125 | 7.280 |
| GCP29 | 153318.550 | 1058936.327 | 0.777 | 503012.608 | 3474193.600 | 2.549 |
| GCP30 | 195631.286 | 1067166.793 | 1.845 | 641833.643 | 3501196.388 | 6.053 |
| GCP31 | 166163.300 | 1066947.862 | 1.577 | 545154.095 | 3500478.112 | 5.174 |
| GCP32 | 136883.927 | 1069264.028 | 2.848 | 449093.350 | 3508077.066 | 9.344 |
| GCP33 | 212355.327 | 1070587.469 | 3.510 | 696702.435 | 3512419.054 | 11.516 |
| GCP34 | 179400.327 | 1070211.701 | 1.867 | 588582.573 | 3511186.221 | 6.125 |
| GCP35 | 144215.407 | 1080115.182 | 1.046 | 473146.714 | 3543677.892 | 3.432 |
| GCP36 | 122826.567 | 1081432.799 | 1.987 | 402973.497 | 3548000.775 | 6.519 |
| GCP37 | 164740.654 | 1082619.117 | 1.528 | 540486.629 | 3551892.887 | 5.013 |
| GCP38 | 187110.240 | 1085927.806 | 0.714 | 613877.512 | 3562748.142 | 2.343 |
| GCP39 | 211060.663 | 1086750.274 | 1.771 | 692454.857 | 3565446.522 | 5.810 |
| GCP40 | 152597.550 | 1086667.317 | -0.249 | 500647.129 | 3565174.355 | -0.817 |
| GCP41 | 201534.718 | 1089136.542 | 0.862 | 661201.820 | 3573275.473 | 2.828 |
| GCP42 | 174612.747 | 1089055.612 | 0.745 | 572875.320 | 3573009.954 | 2.444 |
| GCP43 | 121129.028 | 1093352.632 | 0.520 | 397404.151 | 3587107.760 | 1.706 |
| GCP44 | 219705.810 | 1096374.762 | 8.940 | 720818.143 | 3597022.865 | 29.331 |

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| GCP45 | 111100.690 | 1096396.779 | -0.784 | 364502.848 | 3597095.100 | -2.572 |
| GCP46 | 157411.941 | 1099029.951 | 0.751 | 516442.344 | 3605734.098 | 2.464 |
| GCP46A | 142365.991 | 1090727.800 | 1.189 | 467079.089 | 3578496.125 | 3.901 |
| GCP47 | 170269.832 | 1101735.355 | -2.027 | 558626.940 | 3614610.077 | -6.650 |
| GCP48 | 211061.430 | 1107171.363 | 1.739 | 692457.374 | 3632444.714 | 5.705 |
| GCP49 | 152115.882 | 1118049.581 | 0.268 | 499066.857 | 3668134.334 | 0.879 |
| GCP50 | 138923.608 | 1116034.563 | 0.692 | 455785.205 | 3661523.397 | 2.270 |
| GCP51 | 169202.587 | 1119698.635 | -0.363 | 555125.486 | 3673544.603 | -1.191 |
| GCP52 | 210411.748 | 1123116.929 | 5.607 | 690325.875 | 3684759.457 | 18.396 |
| GCP53 | 151706.564 | 1125535.189 | -1.555 | 497723.952 | 3692693.367 | -5.102 |
| GCP54 | 172091.987 | 1132333.957 | -2.681 | 564605.128 | 3714998.991 | -8.796 |
| GCP55 | 161395.196 | 1132666.473 | -0.217 | 529510.737 | 3716089.920 | -0.712 |
| GCP56 | 201684.468 | 1134129.123 | 4.252 | 661693.127 | 3720888.630 | 13.950 |
| GCP57 | 174974.011 | 1146860.388 | 0.671 | 574060.566 | 3762657.791 | 2.201 |
| GCP58 | 200694.903 | 1149948.348 | 4.024 | 658446.528 | 3772788.872 | 13.202 |
| GCP59 | 179344.683 | 1151463.341 | 0.655 | 588400.015 | 3777759.310 | 2.149 |
| GCP60 | 188842.762 | 1156239.819 | 2.127 | 619561.628 | 3793430.138 | 6.978 |
| GCP61 | 200863.115 | 1161801.258 | 3.376 | 658998.403 | 3811676.294 | 11.076 |
| GCP62 | 189113.902 | 1151974.807 | 0.827 | 620451.194 | 3779437.347 | 2.713 |
| GVMS | 201192.999 | 1041327.646 | 11.704 | 660080.698 | 3416422.451 | 38.399 |
| HAMM | 223454.100 | 1083092.883 | 34.205 | 733115.659 | 3553447.233 | 112.221 |
| HOMA | 119774.363 | 1060304.289 | 11.197 | 392959.722 | 3478681.655 | 36.735 |
| INRI | 159904.938 | 1117244.705 | 16.777 | 524621.449 | 3665493.668 | 55.043 |
| LUCH | 171593.560 | 1061701.257 | 11.454 | 562969.871 | 3483264.873 | 37.579 |
| LWES | 155629.921 | 1095022.855 | 10.188 | 510595.832 | 3592587.482 | 33.425 |
| MARY | 169662.105 | 1136997.378 | 3.260 | 556633.089 | 3730298.899 | 10.696 |
| MCHS | 134929.348 | 1012497.513 | 10.836 | 442680.701 | 3321835.589 | 35.551 |
| NVA001 | 166047.932 | 1107686.039 | -2.032 | 544775.589 | 3634133.278 | -6.667 |
| NVA002 | 164104.100 | 1112841.599 | 1.472 | 538398.202 | 3651047.812 | 4.829 |
| NVA003 | 166355.046 | 1117305.537 | -1.828 | 545783.180 | 3665693.248 | -5.997 |
| NVA004 | 170312.192 | 1124731.060 | 0.983 | 558765.917 | 3690055.152 | 3.225 |
| NVA005 | 170250.254 | 1129204.384 | -2.424 | 558562.708 | 3704731.384 | -7.953 |
| NVA006 | 168246.440 | 1132614.336 | 0.596 | 551988.529 | 3715918.868 | 1.955 |
| NVA007 | 164102.394 | 1128579.559 | -1.586 | 538392.605 | 3702681.436 | -5.203 |
| NVA008 | 157921.338 | 1120562.949 | 2.678 | 518113.588 | 3676380.276 | 8.786 |
| NVA009 | 167405.695 | 1105177.654 | -1.810 | 549230.185 | 3625903.686 | -5.938 |
| NVA010 | 144585.720 | 1119341.759 | 0.284 | 474361.651 | 3672373.754 | 0.932 |
| NVA011 | 153182.728 | 1117914.818 | 0.163 | 502567.001 | 3667692.197 | 0.535 |
| NVA012 | 156150.699 | 1113074.506 | -1.289 | 512304.418 | 3651811.941 | -4.229 |
| NVA013 | 162170.511 | 1093532.960 | 1.021 | 532054.419 | 3587699.387 | 3.350 |
| NVA014 | 162849.898 | 1104443.205 | 3.550 | 534283.375 | 3623494.083 | 11.647 |
| NVA015 | 161543.900 | 1114296.577 | 5.302 | 529998.613 | 3655821.352 | 17.395 |
| NVA016 | 168476.905 | 1129302.264 | 0.282 | 552744.645 | 3705052.512 | 0.925 |
| NVA017 | 170845.627 | 1136382.772 | 0.054 | 560516.026 | 3728282.476 | 0.177 |
| NVA018 | 173087.311 | 1140484.832 | 0.302 | 567870.620 | 3741740.654 | 0.991 |
| NVA019 | 180339.179 | 1141317.805 | 0.214 | 591662.791 | 3744473.500 | 0.702 |
| NVA020 | 144764.245 | 1080525.679 | 0.853 | 474947.360 | 3545024.666 | 2.799 |
| NVA021 | 139794.300 | 1075292.968 | 2.000 | 458641.800 | 3527857.014 | 6.562 |
| NVA022 | 134303.352 | 1073518.372 | 2.520 | 440626.915 | 3522034.857 | 8.268 |
| NVA023 | 175485.965 | 1141872.906 | 0.845 | 575740.203 | 3746294.691 | 2.772 |
| NVA024 | 182418.134 | 1151771.906 | 2.041 | 598483.494 | 3778771.662 | 6.696 |
| NVA025 | 185277.810 | 1153471.459 | 1.354 | 607865.616 | 3784347.611 | 4.442 |
| NVA026 | 191086.988 | 1158061.546 | 2.335 | 626924.559 | 3799406.923 | 7.661 |
| NVA027 | 193528.110 | 1163026.399 | 1.011 | 634933.476 | 3815695.777 | 3.317 |
| NVA028 | 199333.606 | 1154426.055 | 3.199 | 653980.340 | 3787479.481 | 10.495 |

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| NVA029 | 195176.378 | 1156582.432 | 2.059 | 640341.167 | 3794554.196 | 6.755 |
| NVA030 | 197337.161 | 1151469.999 | 3.264 | 647430.337 | 3777781.154 | 10.709 |
| NVA031 | 195089.922 | 1148415.569 | 0.941 | 640057.518 | 3767760.081 | 3.087 |
| NVA032 | 212057.690 | 1114893.797 | 2.434 | 695725.938 | 3657780.733 | 7.986 |
| NVA033 | 208802.180 | 1112596.368 | 0.580 | 685045.151 | 3650243.250 | 1.903 |
| NVA034 | 219400.962 | 1088551.265 | 8.879 | 719817.990 | 3571355.275 | 29.131 |
| NVA035 | 218037.383 | 1084085.009 | 8.092 | 715344.312 | 3556702.234 | 26.549 |
| NVA036 | 206482.303 | 1087986.243 | 0.832 | 677434.022 | 3569501.532 | 2.730 |
| NVA037 | 197535.604 | 1089779.675 | 0.816 | 648081.394 | 3575385.482 | 2.677 |
| NVA038 | 190267.250 | 1088187.307 | 1.384 | 624235.137 | 3570161.189 | 4.541 |
| NVA039 | 217254.783 | 1056502.755 | 9.611 | 712776.733 | 3466209.455 | 31.532 |
| NVA040 | 209782.542 | 1054145.038 | 6.688 | 688261.556 | 3458474.177 | 21.942 |
| NVA041 | 212685.552 | 1046073.123 | 6.285 | 697785.848 | 3431991.570 | 20.620 |
| NVA042 | 218788.066 | 1066316.620 | 10.560 | 717807.180 | 3498407.109 | 34.646 |
| NVA043 | 216379.563 | 1073341.430 | 7.762 | 709905.283 | 3521454.340 | 25.466 |
| NVA044 | 209806.648 | 1075620.136 | 3.210 | 688340.643 | 3528930.398 | 10.531 |
| NVA045 | 204004.113 | 1059045.225 | 4.798 | 669303.494 | 3474550.875 | 15.741 |
| NVA046 | 201477.781 | 1054512.893 | 1.928 | 661015.020 | 3459681.049 | 6.325 |
| NVA047 | 199285.158 | 1051875.420 | 3.399 | 653821.391 | 3451027.942 | 11.152 |
| NVA048 | 195163.059 | 1054864.619 | 1.982 | 640297.471 | 3460835.003 | 6.503 |
| NVA049 | 203340.987 | 1044212.391 | 4.147 | 667127.887 | 3425886.819 | 13.606 |
| NVA050 | 208409.410 | 1041970.092 | 5.345 | 683756.539 | 3418530.211 | 17.536 |
| NVA051 | 218770.682 | 1076960.885 | 3.253 | 422475.146 | 3533329.169 | 10.673 |
| NVA052 | 119185.187 | 1092147.392 | 1.938 | 391026.736 | 3583153.567 | 6.358 |
| NVA053 | 113548.528 | 1095623.261 | -0.252 | 372533.794 | 3594557.315 | -0.827 |
| NVA054 | 136839.052 | 1067555.224 | 2.967 | 448946.123 | 3502470.763 | 9.734 |
| NVA055 | 140625.469 | 1059135.494 | 1.078 | 461368.725 | 3474847.035 | 3.537 |
| NVA056 | 145964.232 | 1043744.444 | 3.919 | 478884.317 | 3424351.563 | 12.858 |
| NVA057 | 145056.669 | 1036180.878 | 2.663 | 475906.754 | 3399536.765 | 8.737 |
| NVA058 | 150787.334 | 1051331.964 | 1.336 | 494708.113 | 3449244.951 | 4.383 |
| NVA059 | 151779.527 | 1060511.314 | 0.617 | 497963.332 | 3479360.870 | 2.024 |
| NVA060 | 159656.267 | 1060297.321 | 1.875 | 523805.603 | 3478658.794 | 6.152 |
| NVA061 | 162974.456 | 1059400.315 | 3.178 | 534692.029 | 3475715.866 | 10.426 |
| NVA062 | 162943.200 | 1046002.634 | 1.826 | 534589.480 | 3431760.308 | 5.991 |
| NVA063 | 173978.413 | 1035133.822 | 2.726 | 570794.177 | 3396101.546 | 8.944 |
| NVA064 | 176435.084 | 1034362.786 | 5.051 | 578854.105 | 3393571.908 | 16.571 |
| NVA065 | 177937.774 | 1031479.740 | 5.246 | 583784.180 | 3384113.113 | 17.211 |
| NVA066 | 175771.184 | 1024299.537 | 2.575 | 576675.960 | 3360556.063 | 8.448 |
| NVA067 | 168353.044 | 1027049.571 | 4.475 | 552338.277 | 3369578.469 | 14.682 |
| NVA068 | 163838.352 | 1026317.558 | 3.783 | 537526.328 | 3367176.855 | 12.411 |
| NVA069 | 160923.857 | 1027834.481 | 4.420 | 527964.353 | 3372153.627 | 14.501 |
| NVA070 | 154421.069 | 1025038.972 | 2.235 | 506629.789 | 3362982.026 | 7.333 |
| NVA071 | 166616.359 | 1024573.722 | 3.663 | 546640.504 | 3361455.618 | 12.018 |
| NVA072 | 166569.436 | 1013316.611 | 1.633 | 546486.557 | 3324522.913 | 5.358 |
| NVA073 | 161547.421 | 1011643.386 | 1.511 | 530010.162 | 3319033.341 | 4.957 |
| NVA074 | 178416.536 | 1003621.064 | 1.484 | 585354.919 | 3292713.442 | 4.869 |
| NVA075 | 180965.332 | 1007026.632 | 1.020 | 593717.095 | 3303886.541 | 3.346 |
| NVA076 | 182855.787 | 1013654.945 | 3.320 | 599919.362 | 3325632.930 | 10.892 |
| NVA077 | 192608.808 | 1012530.700 | 3.203 | 631917.398 | 3321944.473 | 10.509 |
| NVA078 | 193419.706 | 1006131.712 | 3.741 | 634577.817 | 3300950.459 | 12.274 |
| NVA079 | 193978.755 | 1001140.829 | 3.101 | 636411.966 | 3284576.202 | 10.174 |
| NVA080 | 216228.120 | 1001872.647 | 4.509 | 709408.423 | 3286977.177 | 14.793 |
| NVA081 | 215611.571 | 1008567.880 | 4.458 | 707385.628 | 3308943.120 | 14.626 |
| NVA082 | 211627.994 | 1010116.226 | 5.770 | 694316.178 | 3314022.986 | 18.930 |
| NVA083 | 204840.782 | 1024707.625 | 3.214 | 672048.467 | 3361894.932 | 10.545 |

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| NVA084 | 197784.746 | 1033905.291 | 4.997 | 648898.788 | 3392070.942 | 16.394 |
| NVA085 | 189688.013 | 1038973.331 | 2.273 | 622334.755 | 3408698.336 | 7.457 |
| NVA086 | 188264.843 | 1045312.868 | 0.932 | 617665.572 | 3429497.302 | 3.058 |
| NVA087 | 179789.295 | 1062732.555 | 1.330 | 589858.711 | 3486648.390 | 4.364 |
| NVA088 | 171029.231 | 1063715.991 | 9.914 | 561118.403 | 3489874.879 | 32.526 |
| NVA089 | 170535.267 | 1074736.089 | 2.644 | 559497.789 | 3526029.985 | 8.675 |
| NVA090 | 149212.026 | 1087349.330 | -1.375 | 489539.789 | 3567411.927 | -4.511 |
| NVA091 | 176498.618 | 1086057.120 | 1.276 | 579062.550 | 3563172.400 | 4.186 |
| NVA092 | 171225.968 | 1085925.995 | 1.687 | 561763.864 | 3562742.201 | 5.535 |
| NVA093 | 166817.786 | 1084629.747 | 4.086 | 547301.354 | 3558489.429 | 13.405 |
| NVA094 | 132488.176 | 1083029.175 | 1.319 | 434671.622 | 3553238.218 | 4.327 |
| NVA095 | 121084.753 | 1084706.063 | 1.105 | 397258.893 | 3558739.808 | 3.625 |
| NVA096 | 146516.448 | 1027951.564 | 0.740 | 480696.045 | 3372537.757 | 2.428 |
| NVA097 | 202750.848 | 998760.405 | 3.109 | 665191.742 | 3276766.429 | 10.200 |
| NVA098 | 211622.772 | 990189.116 | 4.216 | 694299.046 | 3248645.457 | 13.832 |
| NVA099 | 218474.132 | 1051255.295 | 9.299 | 716777.214 | 3448993.414 | 30.508 |
| NVA100 | 218226.937 | 1075935.901 | 7.923 | 715966.210 | 3529966.369 | 25.994 |
| NVA101 | 218646.574 | 1079297.895 | 8.270 | 717342.968 | 3540996.511 | 27.132 |
| PAUL | 107725.777 | 1099208.973 | 11.912 | 353430.321 | 3606321.437 | 39.081 |
| SJHS | 198361.366 | 1149442.100 | 13.771 | 650790.581 | 3771127.955 | 45.180 |
| TIBO | 143170.387 | 1051120.998 | 28.530 | 469718.176 | 3448552.809 | 93.602 |
| TRAVERSE | 213725.339 | 1084678.561 | 4.682 | 701197.217 | 3558649.580 | 15.361 |
| TRAVERSE | 218800.466 | 1096711.073 | 8.359 | 717847.862 | 3598126.245 | 27.424 |
| TRAVERSE | 215593.522 | 1111805.788 | 7.173 | 707326.413 | 3647649.489 | 23.533 |
| TRAVERSE | 215864.772 | 1066323.060 | 7.589 | 708216.338 | 3498428.238 | 24.898 |
| TRAVERSE | 201315.866 | 1070507.651 | 5.177 | 660483.803 | 3512157.186 | 16.985 |
| TRAVERSE | 209858.872 | 1042431.840 | 11.713 | 688511.981 | 3420045.129 | 38.428 |
| TRAVERSE | 193881.145 | 1027478.210 | 5.220 | 636091.722 | 3370984.760 | 17.126 |
| TRAVERSE | 183757.676 | 1043346.312 | 3.648 | 602878.308 | 3423045.358 | 11.968 |
| TRAVERSE | 203767.892 | 1057719.617 | 6.311 | 668528.492 | 3470201.778 | 20.705 |
| TRAVERSE | 213703.533 | 1084715.215 | 3.449 | 701125.676 | 3558769.834 | 11.316 |
| TRAVERSE | 218801.929 | 1096764.524 | 6.803 | 717852.662 | 3598301.610 | 22.320 |
| TRAVERSE | 215595.119 | 1111742.269 | 5.647 | 707331.654 | 3647441.094 | 18.527 |
| TRAVERSE | 215891.696 | 1066323.775 | 5.974 | 708304.673 | 3498430.584 | 19.600 |
| TRAVERSE | 201276.088 | 1070480.198 | 3.738 | 660353.298 | 3512067.115 | 12.264 |
| TRAVERSE | 209851.292 | 1042464.203 | 10.649 | 688487.114 | 3420151.305 | 34.938 |
| TRAVERSE | 193916.174 | 1027490.316 | 3.657 | 636206.646 | 3371024.479 | 11.998 |
| TRAVERSE | 183778.682 | 1043322.478 | 2.030 | 602947.227 | 3422967.163 | 6.660 |
| TRAVERSE | 203789.682 | 1057710.333 | 4.757 | 668599.981 | 3470171.318 | 15.607 |
| VRS_0315 | 166070.586 | 1107680.234 | -0.996 | 544849.914 | 3634114.235 | -3.268 |
| VVA001 | 166179.251 | 1134187.731 | 0.250 | 545206.426 | 3721080.914 | 0.820 |
| VVA002 | 154864.391 | 1121542.932 | 0.217 | 508084.256 | 3679595.435 | 0.712 |
| VVA003 | 174629.854 | 1144961.149 | 0.355 | 572931.445 | 3756426.703 | 1.165 |
| VVA004 | 178068.208 | 1151049.751 | 0.591 | 584212.111 | 3776402.392 | 1.939 |
| VVA005 | 187740.107 | 1153327.226 | 0.864 | 615944.002 | 3783874.407 | 2.835 |
| VVA006 | 198425.959 | 1143692.853 | 2.439 | 651002.500 | 3752265.634 | 8.002 |
| VVA007 | 201276.186 | 1139565.304 | 4.904 | 660353.621 | 3738723.833 | 16.089 |
| VVA008 | 204768.740 | 1131495.536 | 5.638 | 671812.107 | 3712248.269 | 18.497 |
| VVA009 | 215659.703 | 1106934.737 | 5.513 | 707543.542 | 3631668.382 | 18.087 |
| VVA010 | 215882.899 | 1097108.059 | 6.199 | 708275.810 | 3599428.689 | 20.338 |
| VVA011 | 215806.250 | 1087724.987 | 6.696 | 708024.337 | 3568644.395 | 21.968 |
| VVA012 | 213152.795 | 1069503.204 | 5.166 | 699318.796 | 3508861.760 | 16.949 |
| VVA013 | 217715.341 | 1045184.256 | 9.218 | 714287.749 | 3429075.347 | 30.243 |
| VVA014 | 214773.627 | 1063660.905 | 4.876 | 704636.473 | 3489694.153 | 15.997 |
| VVA015 | 219070.887 | 1072591.804 | 10.187 | 718735.070 | 3518994.944 | 33.422 |

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| VVA016 | 214509.266 | 1075636.223 | 3.858 | 703769.152 | 3528983.176 | 12.657 |
| VVA017 | 216742.350 | 1080117.387 | 6.519 | 711095.526 | 3543685.128 | 21.388 |
| VVA018 | 207408.796 | 1074537.559 | 4.007 | 680473.692 | 3525378.643 | 13.146 |
| VVA019 | 206769.520 | 1067520.647 | 5.143 | 678376.334 | 3502357.322 | 16.873 |
| VVA020 | 200685.878 | 1069818.807 | 1.444 | 658416.917 | 3509897.204 | 4.738 |
| VVA021 | 199167.039 | 1066153.524 | 3.701 | 653433.860 | 3497872.019 | 12.142 |
| VVA022 | 195217.842 | 1059248.528 | 1.082 | 640477.202 | 3475217.878 | 3.550 |
| VVA023 | 169274.842 | 1102403.416 | -2.389 | 555362.543 | 3616801.873 | -7.838 |
| VVA024 | 144927.182 | 1080648.076 | 0.399 | 475481.931 | 3545426.229 | 1.309 |
| VVA025 | 139749.275 | 1075263.832 | 1.381 | 458494.079 | 3527761.421 | 4.531 |
| VVA026 | 134798.988 | 1072904.699 | 2.570 | 442253.012 | 3520021.500 | 8.432 |
| VVA027 | 119838.989 | 1091276.999 | 0.824 | 393171.750 | 3580297.953 | 2.703 |
| VVA028 | 137073.710 | 1068724.061 | 3.354 | 449715.996 | 3506305.522 | 11.004 |
| VVA029 | 152980.210 | 1036866.210 | 2.202 | 501902.572 | 3401785.224 | 7.224 |
| VVA030 | 162685.768 | 1058489.156 | 1.940 | 533744.891 | 3472726.505 | 6.365 |
| VVA031 | 174985.248 | 1035579.955 | 2.489 | 574097.433 | 3397565.237 | 8.166 |
| VVA032 | 154423.568 | 1025044.199 | 2.159 | 506637.988 | 3362999.177 | 7.083 |
| VVA033 | 183030.331 | 1013410.084 | 2.585 | 600492.012 | 3324829.585 | 8.481 |
| VVA034 | 187544.705 | 1015074.525 | 4.708 | 615302.920 | 3330290.336 | 15.446 |
| VVA035 | 216229.136 | 1001930.823 | 3.946 | 709411.755 | 3287168.042 | 12.946 |
| VVA036 | 215561.665 | 1008603.851 | 4.093 | 707221.895 | 3309061.134 | 13.428 |
| VVA037 | 208727.389 | 1008295.718 | 6.482 | 684799.774 | 3308050.200 | 21.266 |
| VVA038 | 206913.499 | 1017106.050 | 4.540 | 678848.706 | 3336955.431 | 14.895 |
| VVA039 | 199662.186 | 1034642.408 | 7.134 | 655058.354 | 3394489.300 | 23.405 |
| VVA040 | 189145.400 | 1038167.865 | 2.737 | 620554.533 | 3406055.736 | 8.980 |
| VVA041 | 181839.011 | 1056718.386 | 1.662 | 596583.490 | 3466916.904 | 5.453 |
| VVA042 | 170142.832 | 1064317.658 | 3.653 | 558210.276 | 3491848.850 | 11.985 |
| VVA043 | 165332.577 | 1064049.923 | 0.971 | 542428.629 | 3490970.454 | 3.186 |
| VVA044 | 170509.700 | 1074736.555 | 2.249 | 559413.906 | 3526031.514 | 7.379 |
| VVA045 | 159789.765 | 1087689.424 | 1.231 | 524243.588 | 3568527.719 | 4.039 |
| VVA046 | 143527.560 | 1087468.953 | -1.633 | 470890.004 | 3567804.389 | -5.358 |
| VVA047 | 176537.565 | 1086076.334 | 0.450 | 579190.328 | 3563235.439 | 1.476 |
| VVA048 | 179399.508 | 1070201.329 | 1.716 | 588579.887 | 3511152.194 | 5.630 |
| VVA049 | 175581.598 | 1083690.205 | 1.372 | 576053.958 | 3555406.947 | 4.501 |
| VVA050 | 166983.370 | 1083924.276 | 7.300 | 547844.606 | 3556174.894 | 23.950 |
| VVA051 | 162789.071 | 1099292.589 | 2.203 | 534083.811 | 3606595.768 | 7.228 |
| VVA052 | 157462.231 | 1097585.268 | 0.121 | 516607.337 | 3600994.333 | 0.397 |
| VVA053 | 130910.240 | 1075548.868 | 0.529 | 429494.677 | 3528696.578 | 1.736 |
| VVA054 | 133313.546 | 1082898.890 | 0.927 | 437379.526 | 3552810.773 | 3.041 |
| VVA055 | 131428.090 | 1078484.315 | 0.862 | 431193.659 | 3538327.291 | 2.828 |
| VVA056 | 123007.898 | 1081826.079 | 0.578 | 403568.410 | 3549291.060 | 1.896 |
| VVA057 | 116223.065 | 1096756.848 | 0.508 | 381308.507 | 3598276.427 | 1.667 |
| VVA058 | 110903.621 | 1096469.231 | -1.180 | 363856.297 | 3597332.801 | -3.871 |
| VVA059 | 135809.502 | 1060163.499 | 0.956 | 445568.342 | 3478219.745 | 3.136 |
| VVA060 | 142101.631 | 1049578.609 | 3.587 | 466211.767 | 3443492.486 | 11.768 |
| VVA061 | 146497.772 | 1027978.645 | 0.805 | 480634.774 | 3372626.606 | 2.641 |
| VVA062 | 165041.670 | 1029217.135 | 5.399 | 541474.211 | 3376689.883 | 17.713 |
| VVA063 | 178114.180 | 1023488.020 | 2.060 | 584362.939 | 3357893.614 | 6.759 |
| VVA064 | 157151.316 | 1126423.015 | -1.996 | 515587.275 | 3695606.175 | -6.549 |
| VVA065 | 157103.514 | 1104922.490 | -0.133 | 515430.445 | 3625066.536 | -0.436 |
| VVA066 | 191353.811 | 1148787.141 | 1.867 | 627799.960 | 3768979.146 | 6.125 |
| VVA067 | 184195.322 | 1142238.174 | 2.756 | 604314.153 | 3747493.074 | 9.042 |
| VVA068 | 175805.180 | 1135689.593 | 0.692 | 576787.495 | 3726008.272 | 2.270 |
| VVA069 | 162861.297 | 1046164.657 | 1.566 | 534320.773 | 3432291.880 | 5.138 |
| VVA070 | 213674.639 | 1084675.408 | 3.179 | 701030.878 | 3558639.234 | 10.430 |

| Station Name | SPC N Meters | SPC E Meters | NAVD88 H Meters | SPC N US FT | SPC E US FT | NAVD88 H US FT |
|--------------|--------------|--------------|-----------------|-------------|-------------|----------------|
| VVA071 | 218777.000 | 1096697.917 | 6.495 | 717770.874 | 3598083.084 | 21.309 |
| VVA072 | 215561.983 | 1111798.282 | 5.378 | 707222.940 | 3647624.864 | 17.644 |
| VVA073 | 215850.375 | 1066306.762 | 5.856 | 708169.105 | 3498374.769 | 19.213 |
| VVA074 | 201291.681 | 1070536.354 | 3.697 | 660404.456 | 3512251.353 | 12.129 |
| VVA075 | 209885.770 | 1042443.977 | 10.373 | 688600.230 | 3420084.948 | 34.032 |
| VVA076 | 193892.226 | 1027452.173 | 2.808 | 636128.079 | 3370899.336 | 9.213 |
| VVA077 | 183772.438 | 1043360.933 | 1.587 | 602926.742 | 3423093.326 | 5.207 |
| VVA078 | 203726.484 | 1057695.870 | 4.767 | 668392.640 | 3470123.866 | 15.640 |



Upper Delta Plain, LA QL2 Lidar

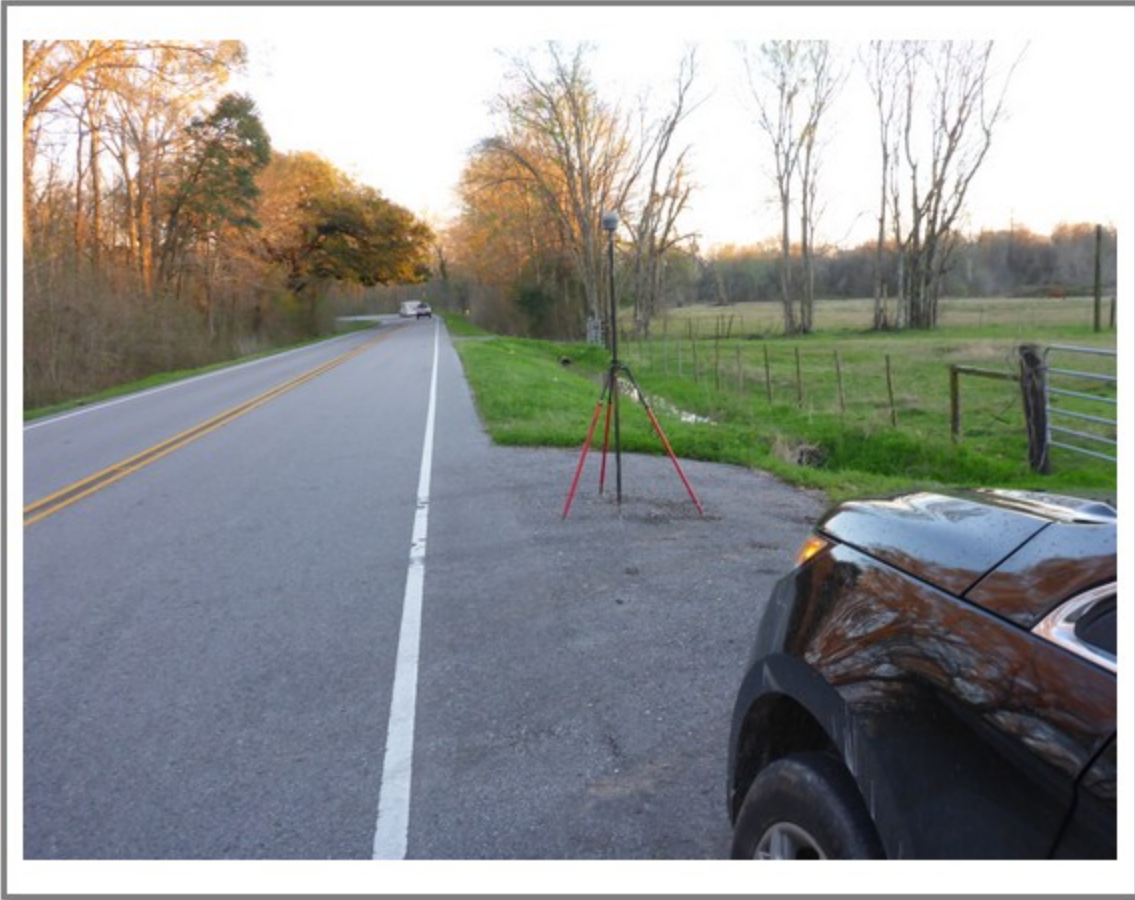
GCP Pictures



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GCP01-2



GCP02-1



GCP02-2



GCP02A-1



GCP02A-2



GCP03-1



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GCP04-1



GCP04-2



GCP05-1



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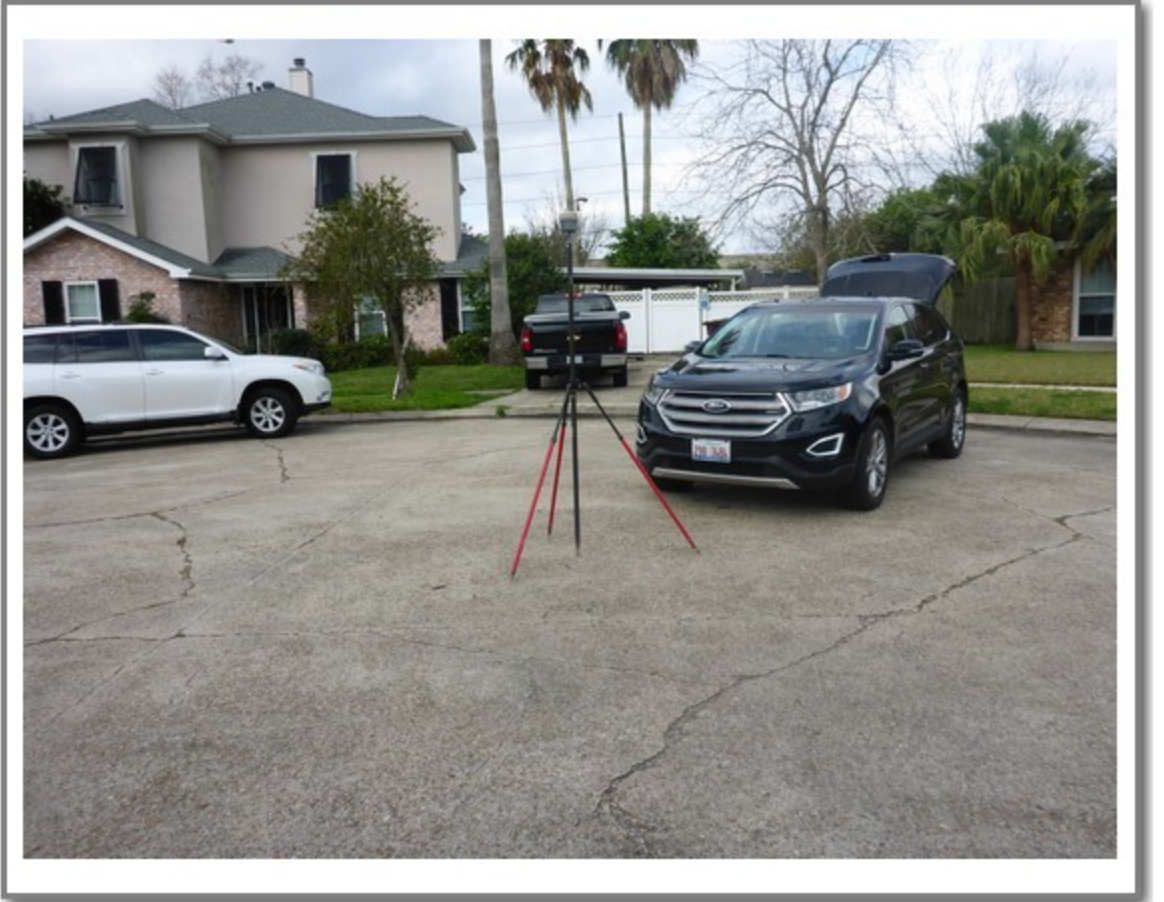
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Upper Delta Plain, LA QL2 Lidar

Checkpoint Pictures



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NVA002-1



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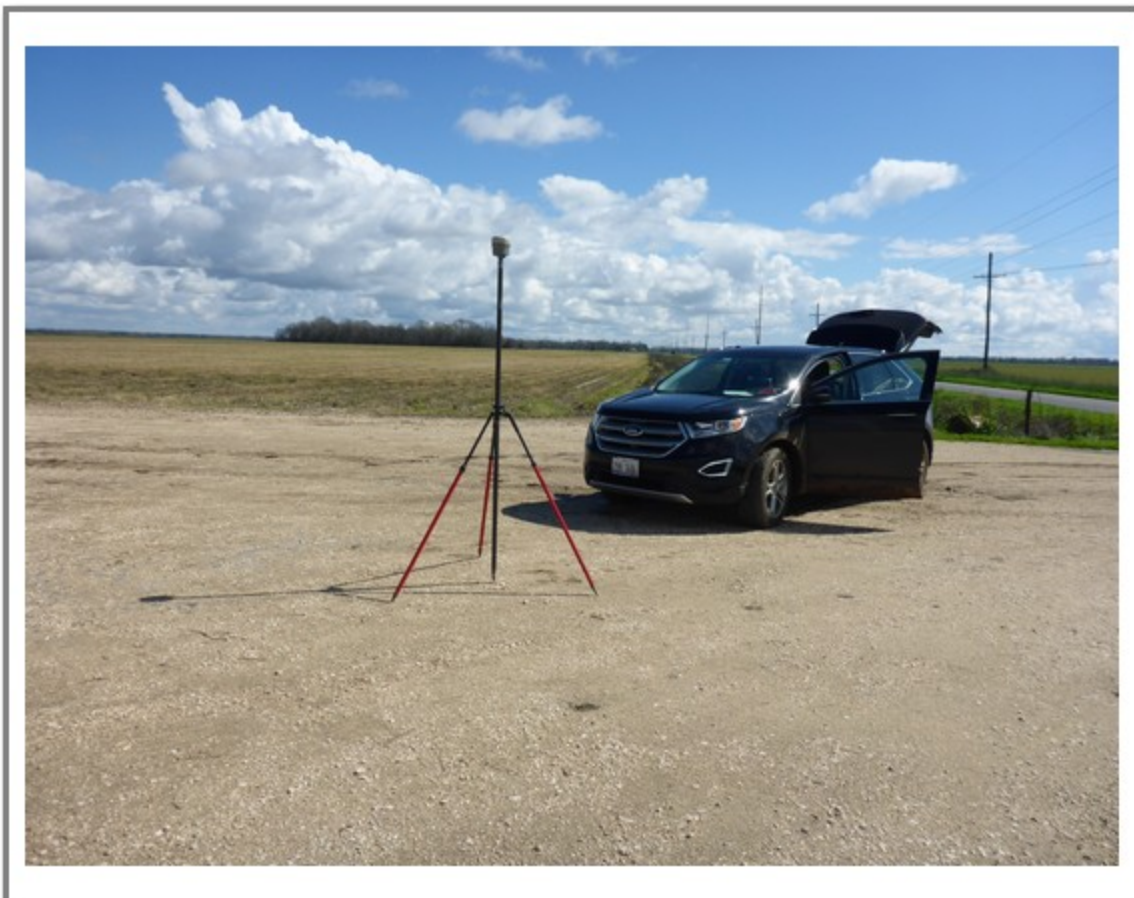
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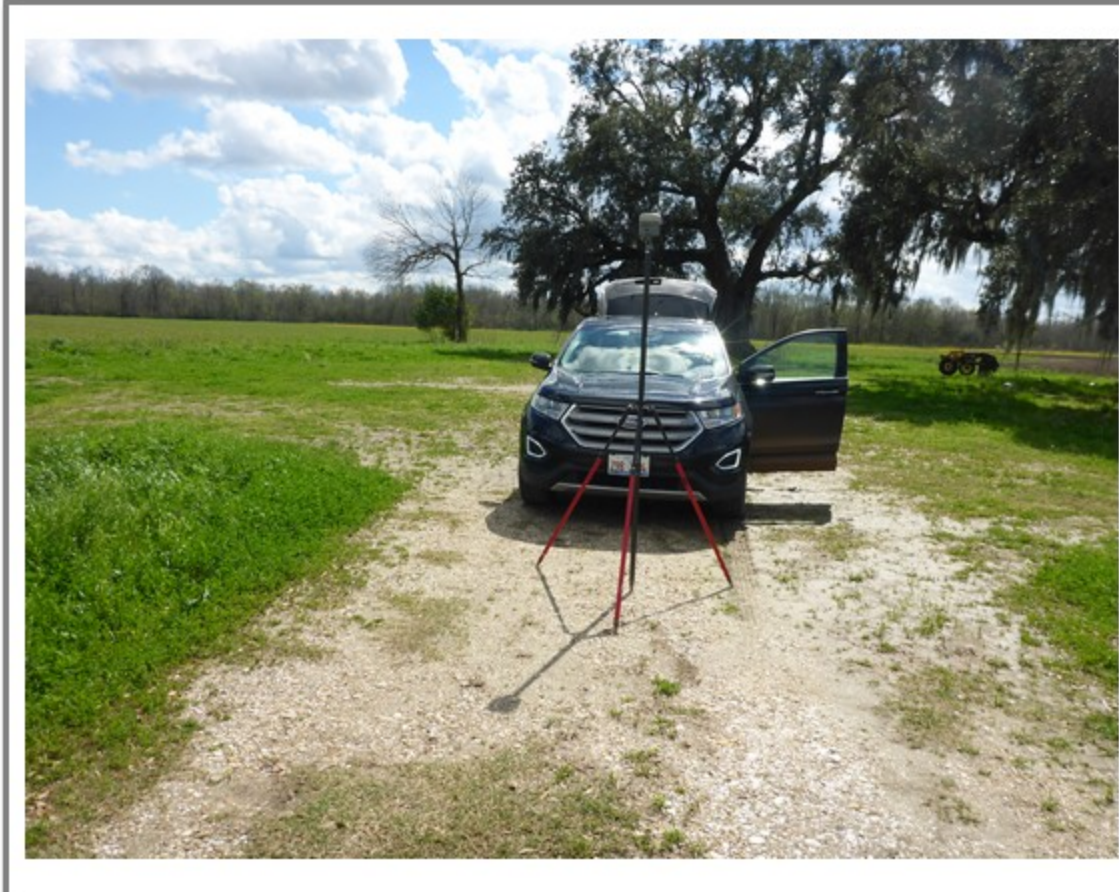
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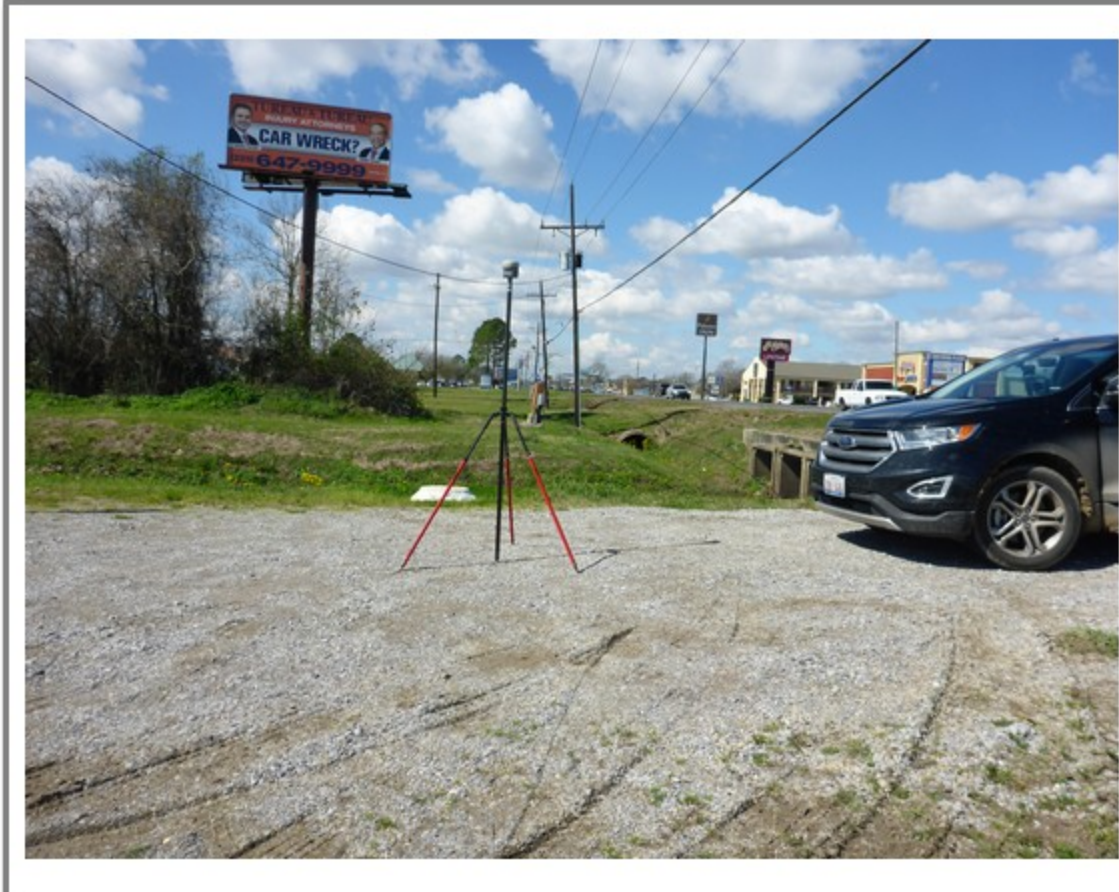
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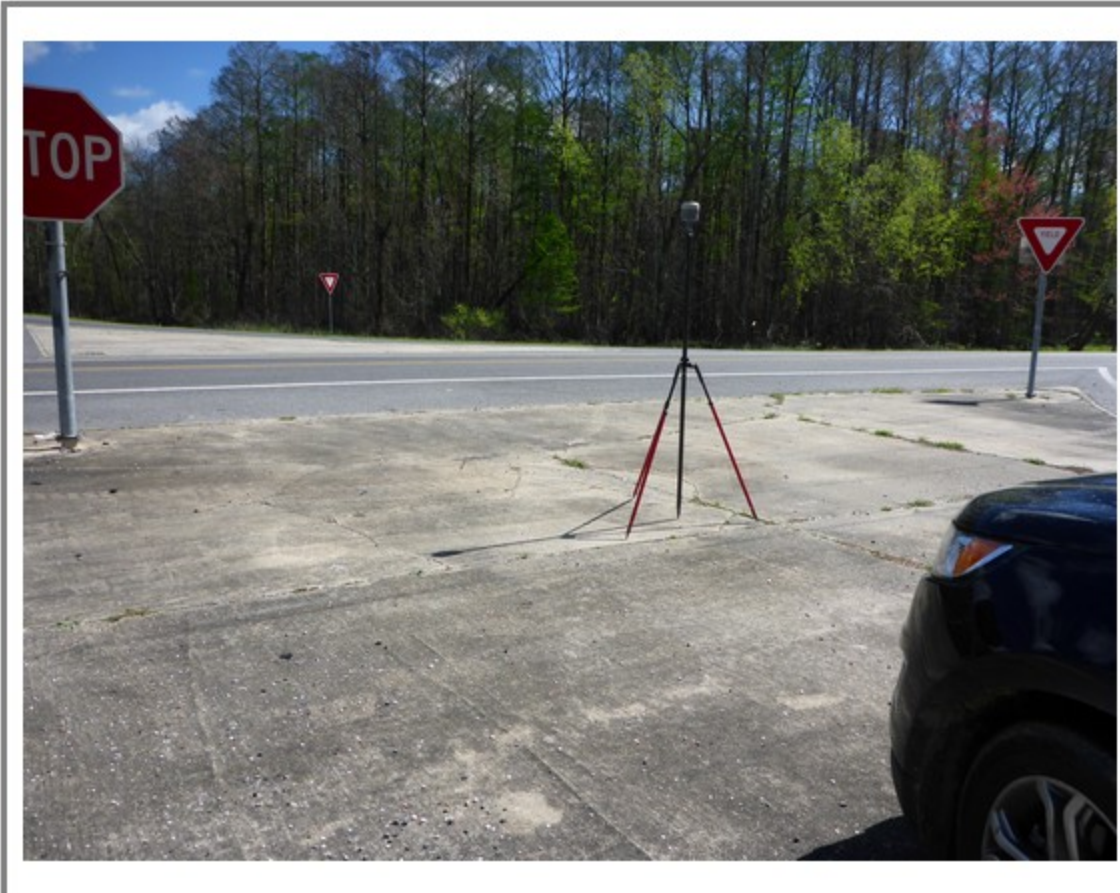
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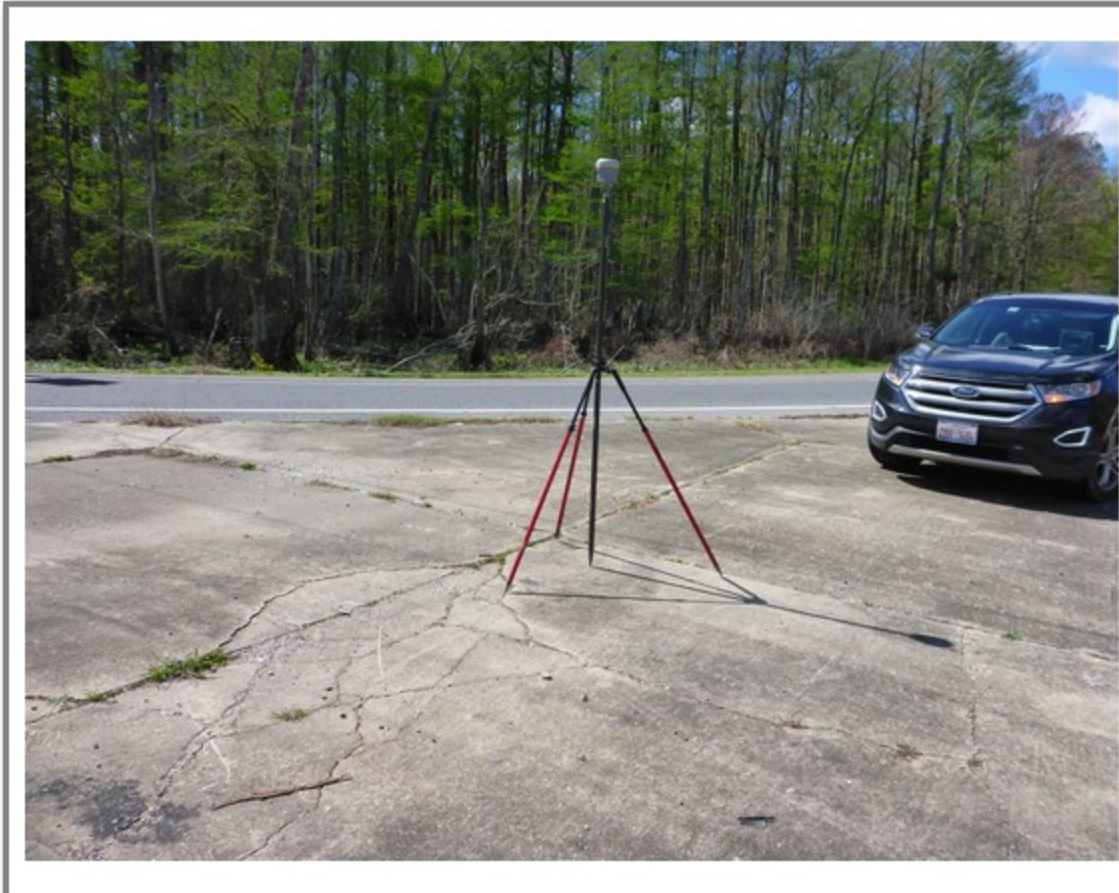
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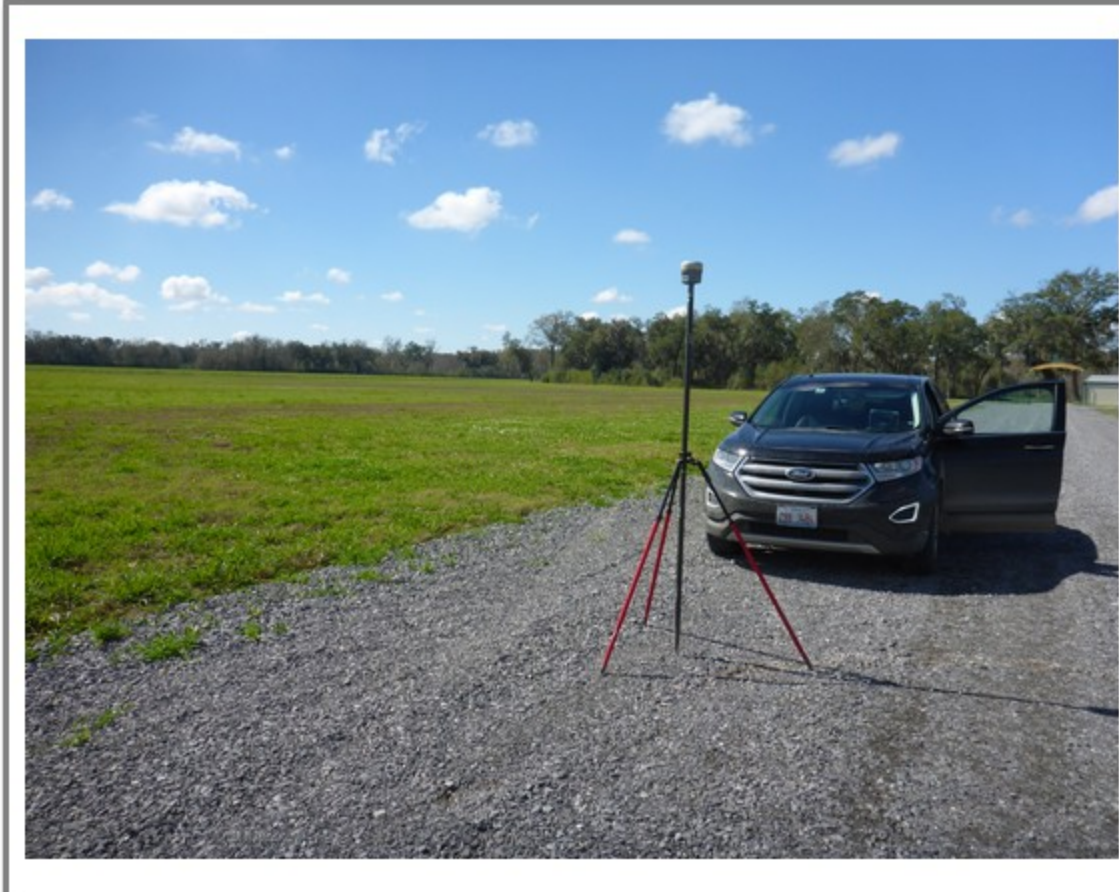
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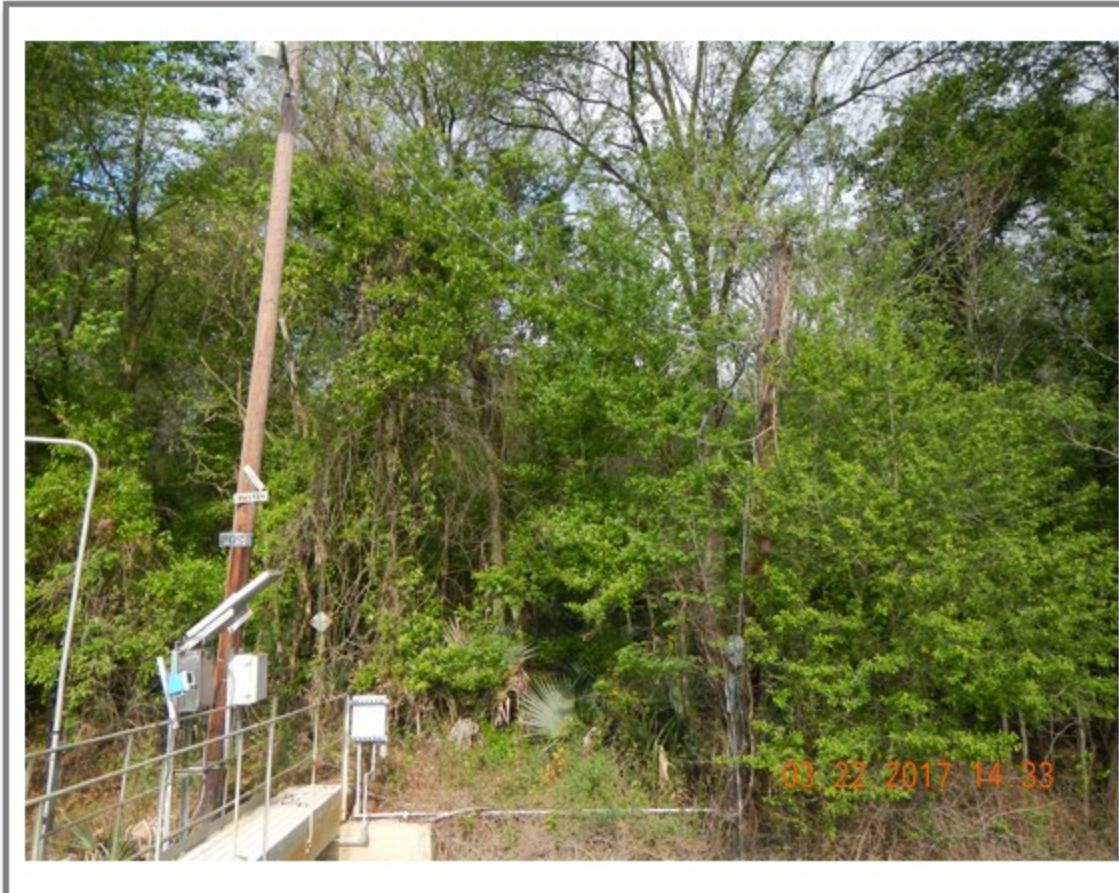
VVA075-1



VVA075-2



VVA076-1



VVA076-2



VVA077-1



VVA077-2



VVA078-1



VVA078-2