



September 29, 2015

Survey Report of
LiDAR Ground Control & Quality Control
Points

Delaware Valley High Density
USGS Contract: G10PC00026
USGS Task Order: G15PD00316

Presented to:



Presented By:





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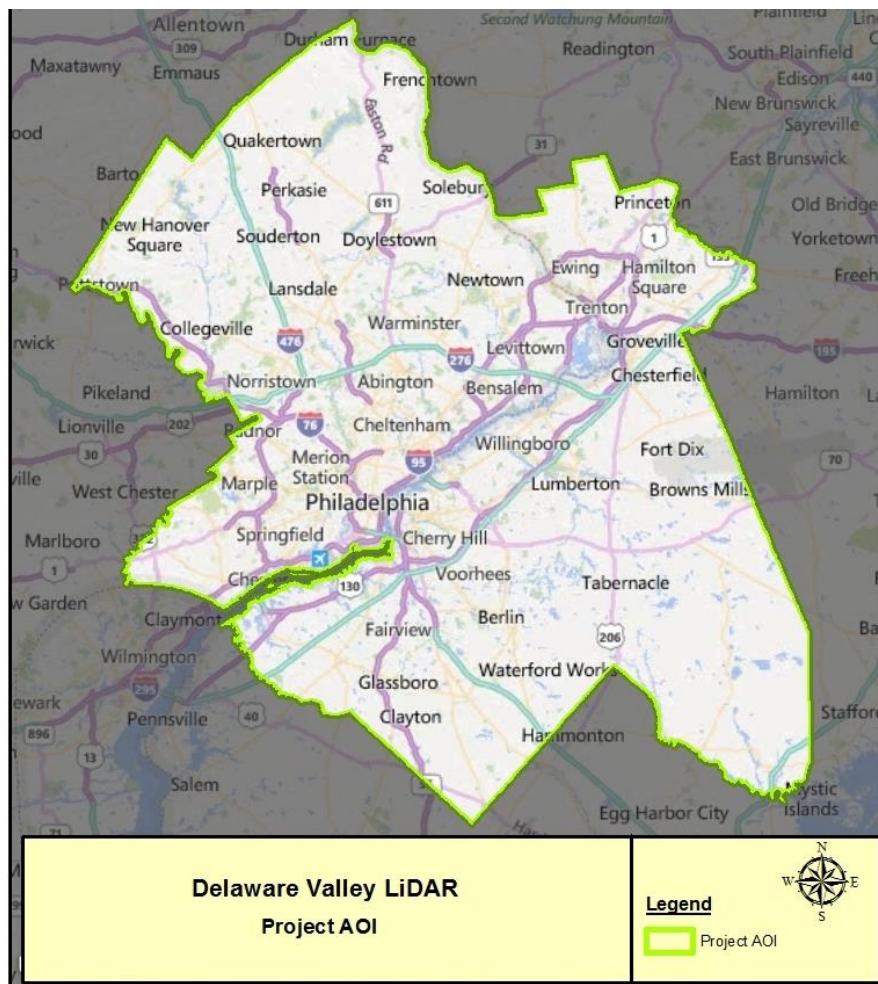


Introduction

Quantum Spatial, Inc was contracted by USGS under task order G15PD00248 to survey LiDAR calibration and quality control points in support of the Delaware Valley High Density aerial LiDAR acquisition project. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The Project Area, shown in the figure below, consists of approximately 7,863 square kilometers.





Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, Quantum Spatial calculated that 90 Non-Vegetated Vertical Assessment (NVA) and 68 Vegetated Vertical Assessment (VVA) points are required for this project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, Quantum Spatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

| NVA Class | # of Points | VVA Class | # of Points |
|------------|-------------|------------------|-------------|
| Bare Earth | 10 | Tall Weeds/Crops | 34 |
| Urban Area | 80 | Forested | 34 |

Given that approximately 1/2 of the NVA check points should also be used for horizontal accuracy testing, but that it is commonly understood that good vertical check points do not generally make for good horizontal check points, Quantum Spatial has determined that 45 horizontal check points shall be used for this project, whether they are used for NVA validation, or are entirely separate. These locations have been reported under their own chapter in this report.

Quantum Spatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind.

Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, Quantum Spatial requires that calibration and NVA points be better than 3 centimeters, both horizontally and vertically, and that VVA points be better than 5 centimeters, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies. The accuracy of each



point is reported at the 95% confidence level, meaning that if the point were measured 20 times, statistically it would fall within the reported accuracy 19 times.

Due to variances in reference control accuracy and adjustment, Quantum Spatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range:

April 21 – June 15, 2015

Equipment Used:

Trimble R8 dual frequency GNSS receivers and a Trimble M3 2" Total Station

GNSS Methodology:

Each calibration point was measured using the real time adjusted network provided by Key Net. Each point was measured twice, for at least 8 minutes, separated by a 20 minute static session to ensure variance in the observed satellite constellations. The static base station data was post processed referencing NGS continuously operating reference stations and a weighted adjustment was performed to obtain base station coordinates. The adjustment was performed using Trimble Business Center.

The majority of the QC points were established with calibration point locations occupied by a static base station broadcasting real time kinematic corrections to a rover from which multiple measurements were taken.

For forested points, a secondary control point with line of sight to another point was established so that the resulting pair could be occupied with a total station.

Variations from the stated GNSS methodology:

Due to the reliability of the regional cellular coverage, no alternate methodologies were required for the supplemental portion of this project.

Total Station Methodology:

Angles and distances to forested points were doubled and the final point accuracy was determined by adding the calculated error, estimated procedural errors, and manufacturer stated instrument error to the reported error of the point over which the total station was placed.

Overall Project Accuracy Statement



All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011), UTM Zone 18N in meters. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12A model and are reported in meters.

Calibration Points

Average Horizontal RMSE at the 95% confidence level is 0.008 meter.
Average Elevation RMSE at the 95% confidence level is 0.010 meter.
Average 3 dimensional RMSE at the 95% confidence level is 0.013 meter.

NVA Points

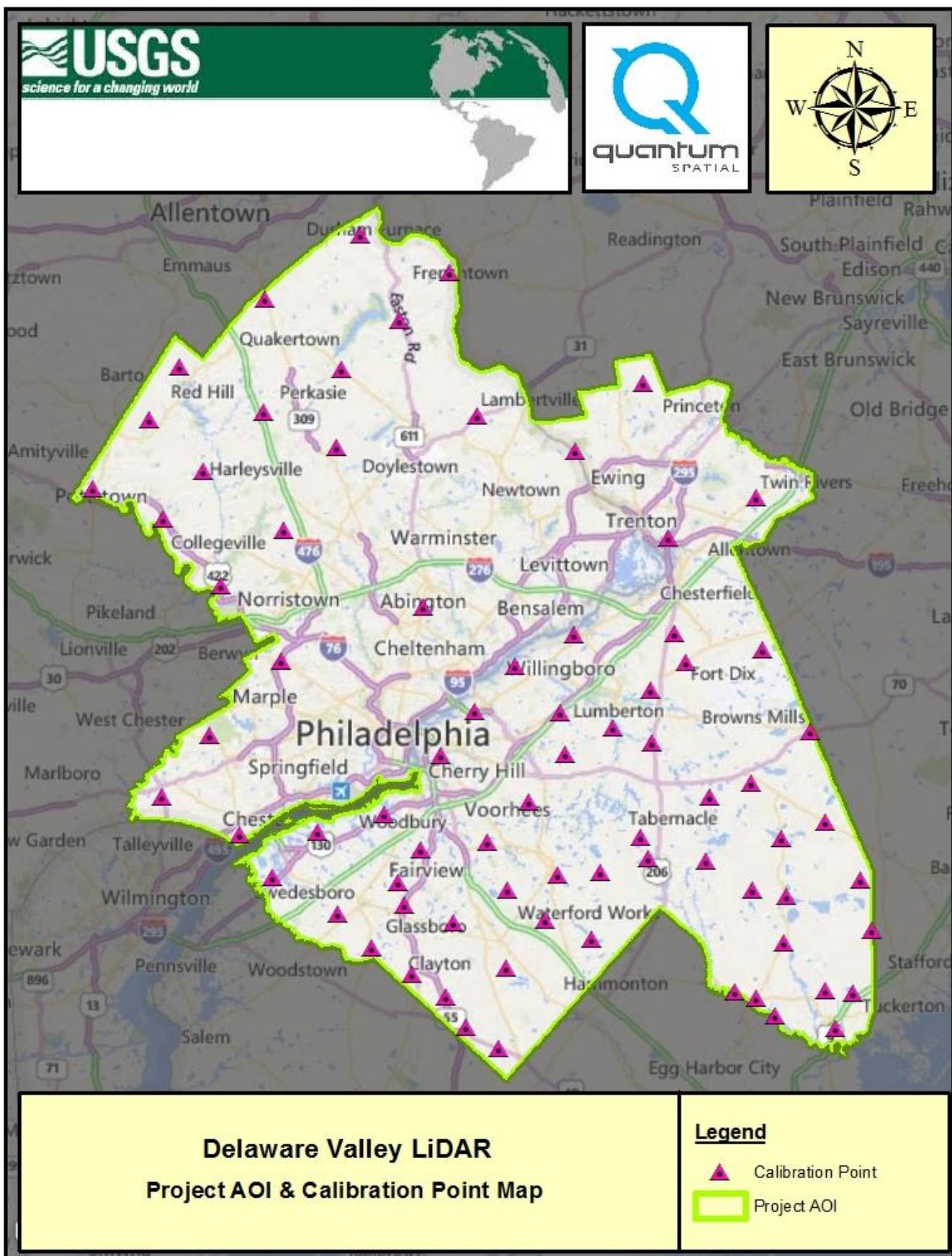
Average Horizontal RMSE at the 95% confidence level is 0.013 meter.
Average Elevation RMSE at the 95% confidence level is 0.014 meter.
Average 3 dimensional RMSE at the 95% confidence level is 0.019 meter.

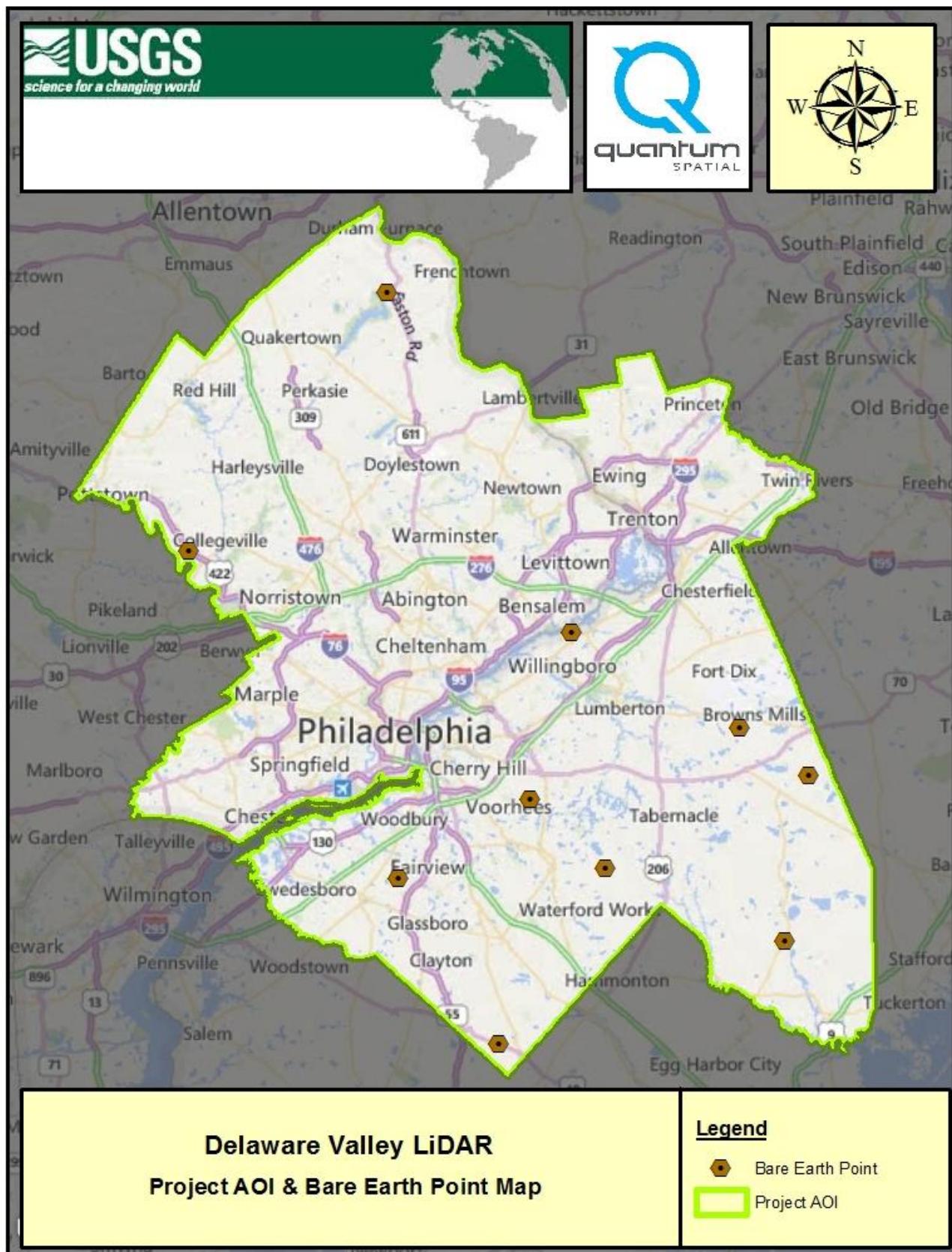
VVA Points

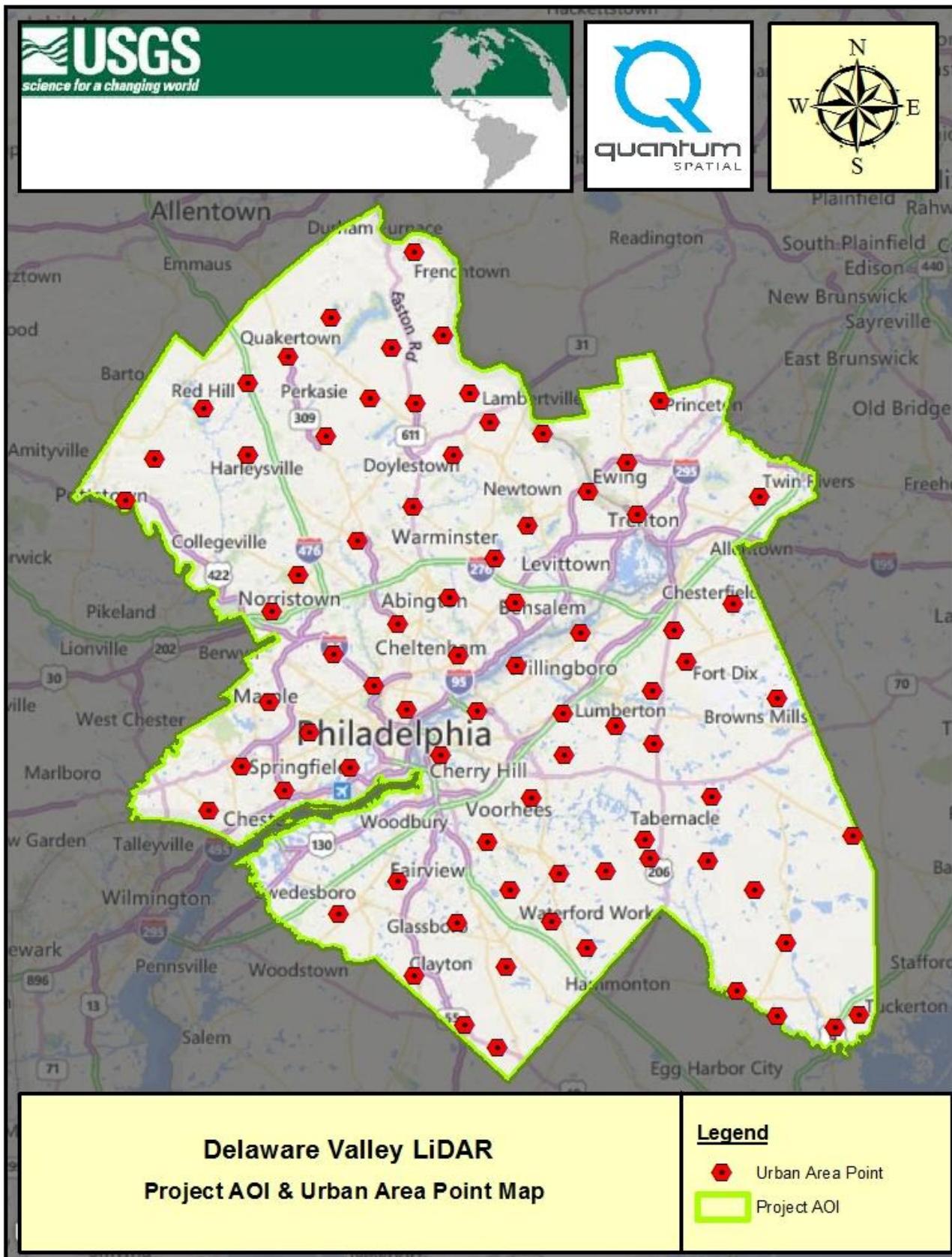
Average Horizontal RMSE at the 95% confidence level is 0.013 meter.
Average Elevation RMSE at the 95% confidence level is 0.014 meter.
Average 3 dimensional RMSE at the 95% confidence level is 0.019.

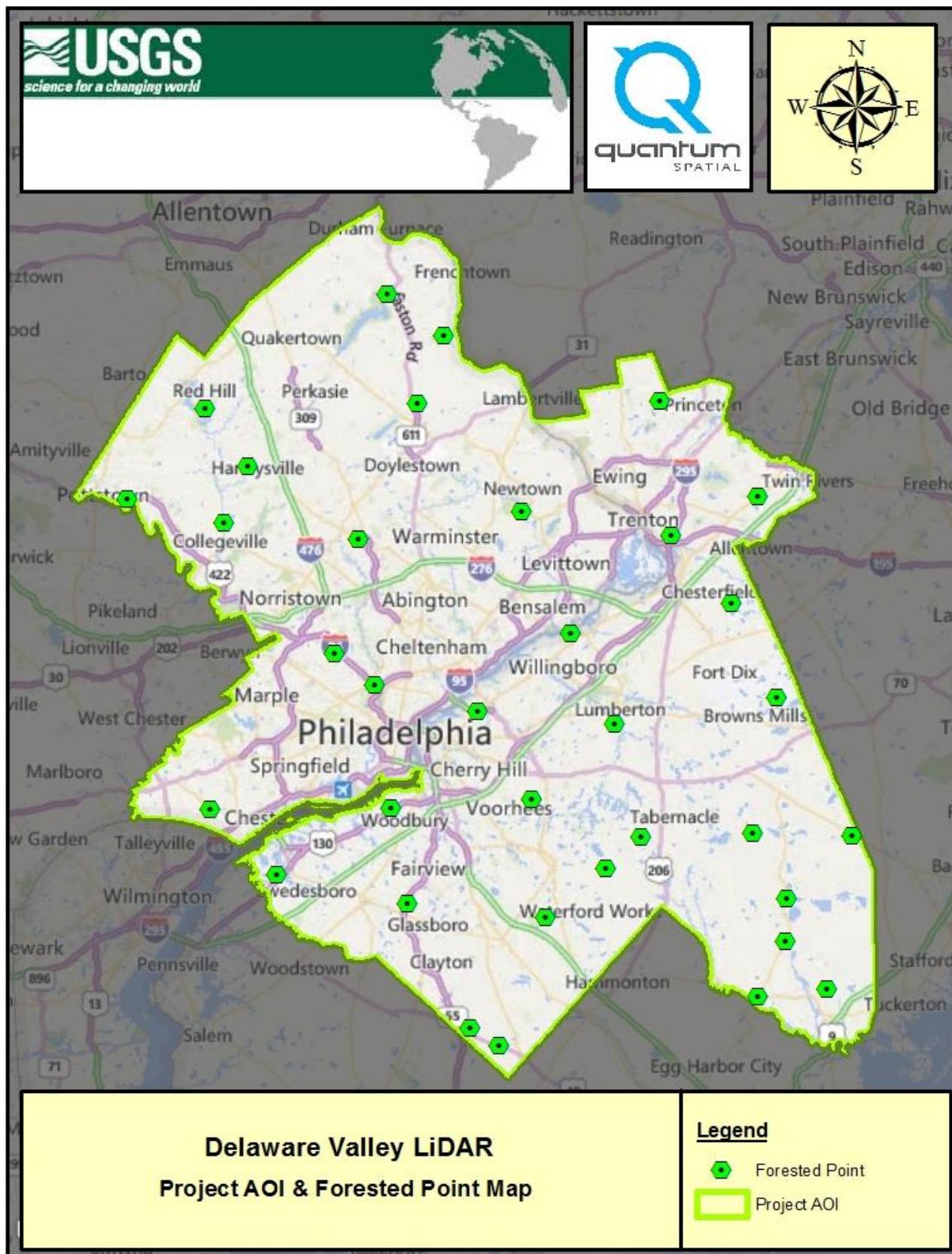


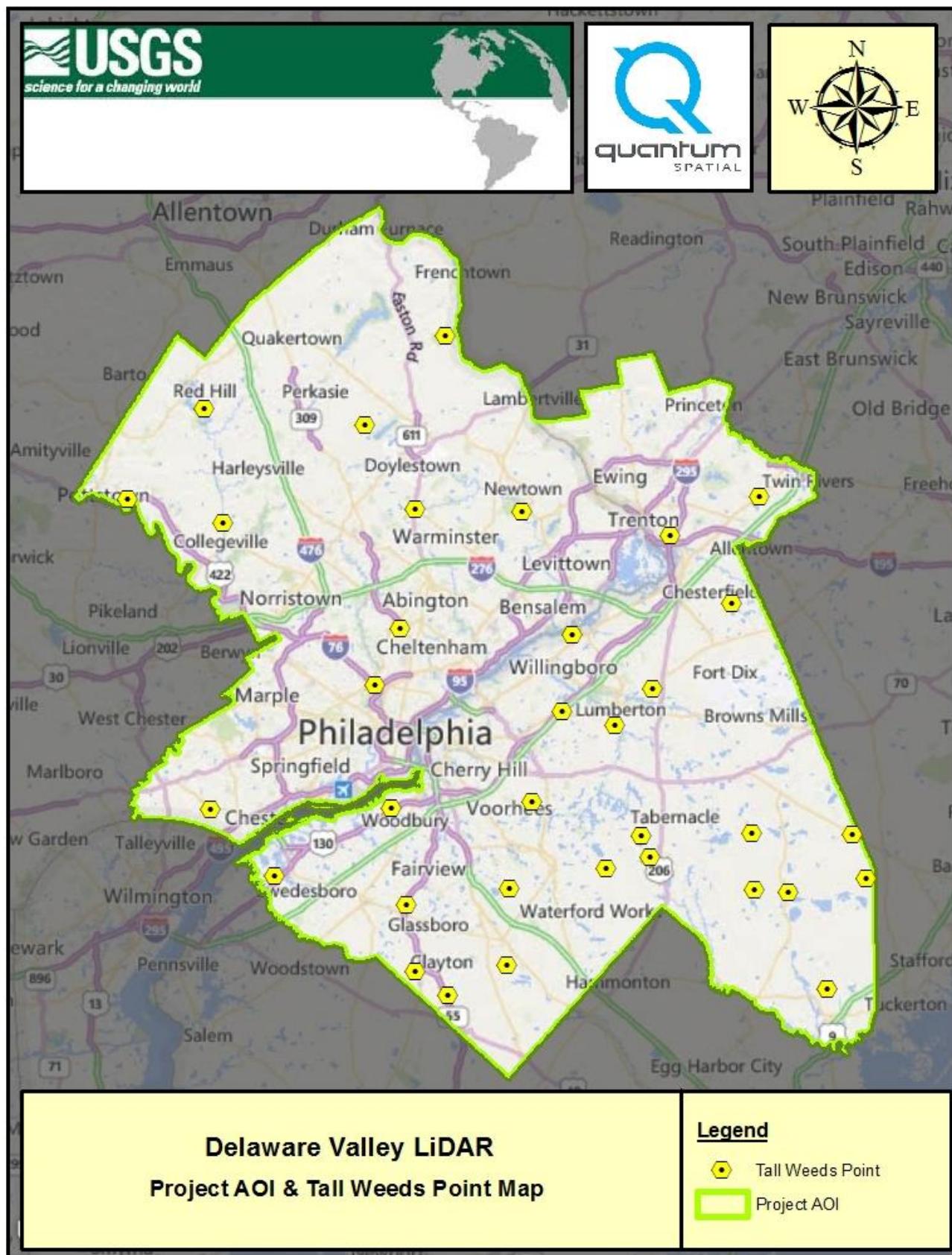
PROJECT AOI & POINT MAPS

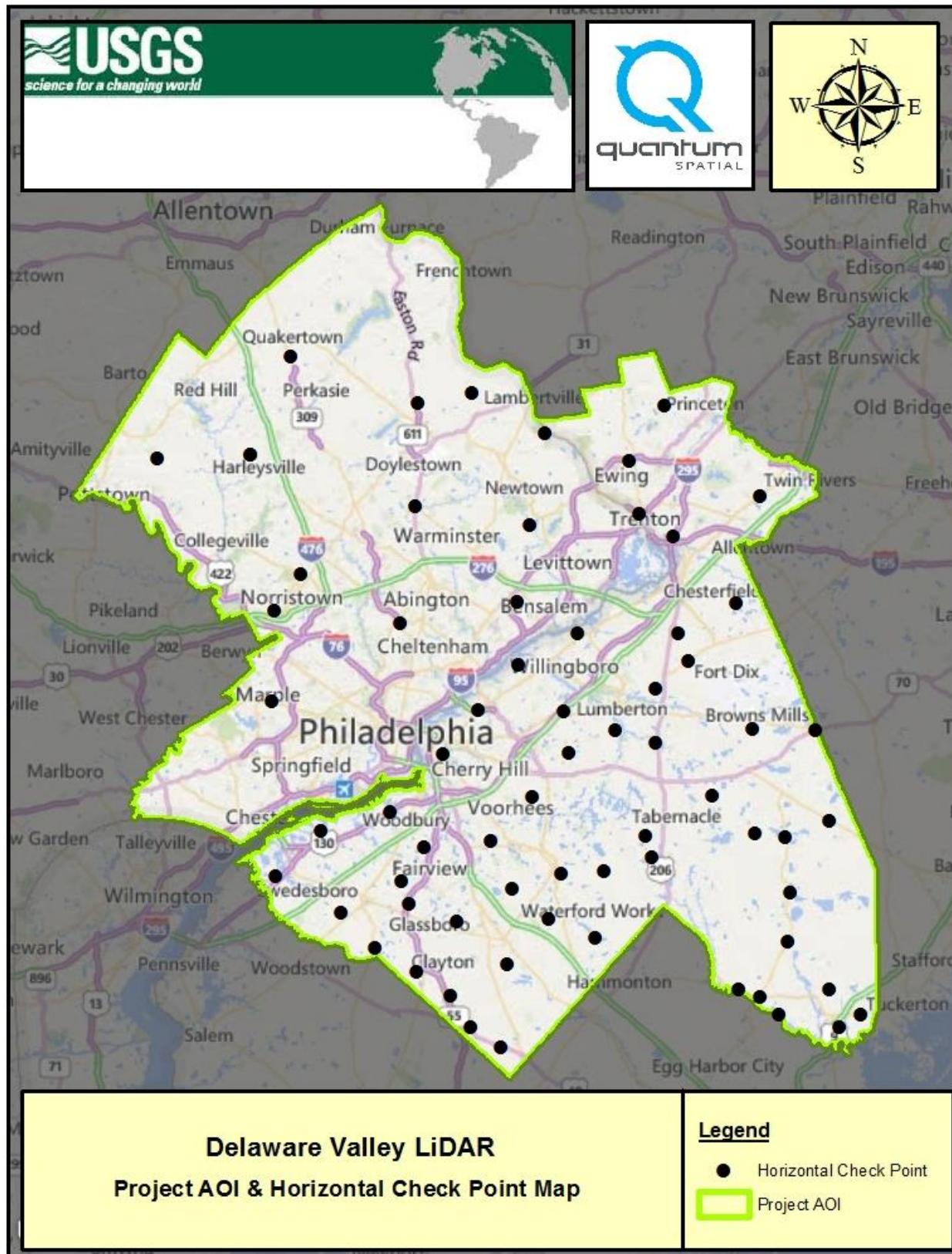














FINAL POINT COORDINATES



CALIBRATION POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS UTM-Zone 18N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

| Point ID | Northing | Easting | Elevation |
|----------|-------------|------------|-----------|
| CP1 | 4491359.725 | 481038.524 | 79.112 |
| CP3 | 4482528.392 | 467694.603 | 182.372 |
| CP4 | 4473101.209 | 455823.976 | 92.559 |
| CP5 | 4465722.252 | 451577.950 | 111.008 |
| CP6 | 4456080.620 | 443701.254 | 44.089 |
| CP7 | 4451794.690 | 453614.676 | 71.352 |
| CP8 | 4458489.481 | 459161.520 | 62.676 |
| CP9 | 4466793.715 | 467473.999 | 170.161 |
| CP10 | 4472624.504 | 478424.426 | 111.772 |
| CP11 | 4479529.283 | 486508.645 | 99.194 |
| CP12 | 4486141.795 | 493490.421 | 114.605 |
| CP13 | 4466241.908 | 497298.860 | 89.726 |
| CP14 | 4461772.152 | 477628.902 | 162.461 |
| CP15 | 4450278.078 | 470332.839 | 72.744 |
| CP16 | 4442680.416 | 461616.052 | 28.426 |
| CP17 | 4413135.054 | 453340.498 | 117.800 |
| CP18 | 4421846.578 | 460055.026 | 128.586 |
| CP19 | 4432094.751 | 469970.839 | 119.865 |
| CP20 | 4439610.343 | 489850.101 | 51.795 |
| CP21 | 4461326.146 | 510943.784 | 13.987 |
| CP22 | 4470732.766 | 520437.688 | 47.914 |
| CP23 | 4408028.765 | 464189.997 | 8.719 |
| CP24 | 4380951.771 | 547150.025 | 0.853 |
| CP25 | 4435951.596 | 524718.155 | 21.991 |
| CP26 | 4424856.061 | 508744.959 | 12.342 |
| CP27 | 4401391.789 | 486309.408 | 46.251 |
| CP28 | 4392160.513 | 482573.781 | 41.409 |
| CP29 | 4402389.986 | 508557.423 | 50.649 |
| CP30 | 4433696.916 | 536981.134 | 25.016 |



| | | | |
|------|-------------|------------|--------|
| CP31 | 4422271.669 | 543710.144 | 27.948 |
| CP32 | 4415104.073 | 535503.242 | 28.164 |
| CP33 | 4404320.072 | 529108.807 | 17.008 |
| CP34 | 4404633.120 | 521124.203 | 25.121 |
| CP35 | 4393488.954 | 513192.681 | 30.833 |
| CP36 | 4385354.158 | 492983.935 | 32.668 |
| CP37 | 4378228.291 | 500184.559 | 36.395 |
| CP38 | 4400182.275 | 535539.817 | 17.709 |
| CP39 | 4409673.574 | 545754.089 | 36.250 |
| CP40 | 4401690.393 | 550604.308 | 29.746 |
| CP41 | 4394697.037 | 552295.838 | 40.830 |
| CP42 | 4386164.427 | 533160.038 | 1.399 |
| CP43 | 4385862.477 | 549516.693 | 7.245 |
| CP46 | 4396862.739 | 477927.472 | 33.984 |
| CP47 | 4401984.706 | 468823.341 | 4.596 |
| CP48 | 4408298.295 | 475044.910 | 3.553 |
| CP49 | 4410827.708 | 484387.598 | 7.205 |
| CP50 | 4405925.259 | 489382.523 | 22.361 |
| CP51 | 4395705.132 | 493948.654 | 47.121 |
| CP52 | 4388571.676 | 488253.552 | 41.298 |
| CP53 | 4381123.053 | 495727.076 | 27.612 |
| CP54 | 4389490.677 | 501360.315 | 38.484 |
| CP55 | 4396120.773 | 506661.233 | 47.037 |
| CP56 | 4402732.969 | 514450.992 | 30.399 |
| CP57 | 4419031.845 | 492292.670 | 3.785 |
| CP58 | 4406835.294 | 498659.825 | 20.525 |
| CP59 | 4400255.068 | 501435.928 | 44.318 |
| CP60 | 4412491.384 | 504458.737 | 45.324 |
| CP61 | 4419128.401 | 509447.896 | 21.062 |
| CP62 | 4425119.704 | 497012.581 | 15.108 |



| | | | |
|------|-------------|------------|--------|
| CP63 | 4431445.394 | 502552.149 | 4.904 |
| CP64 | 4435809.666 | 510714.719 | 1.871 |
| CP65 | 4431921.989 | 526383.158 | 22.003 |
| CP66 | 4428091.484 | 521472.954 | 22.246 |
| CP67 | 4422816.044 | 516118.465 | 14.233 |
| CP68 | 4420677.102 | 521622.086 | 12.566 |
| CP69 | 4398233.644 | 487223.130 | 41.340 |
| CP70 | 4386236.288 | 545710.439 | 10.206 |
| CP71 | 4382791.887 | 538730.107 | 1.657 |
| CP72 | 4385228.903 | 536167.920 | 8.176 |
| CP73 | 4392906.551 | 540012.263 | 13.331 |
| CP74 | 4399345.399 | 540309.995 | 17.119 |
| CP75 | 4407406.408 | 539636.263 | 29.698 |
| CP76 | 4407646.191 | 519985.518 | 32.676 |
| CP77 | 4413139.146 | 529675.188 | 29.901 |
| CP78 | 4449264.183 | 523881.137 | 19.092 |
| CP79 | 4454891.902 | 536200.682 | 31.376 |

**BARE EARTH POINT COORDINATES**

Horizontal Datum - NAD83(2011)
SPCS UTM-Zone 18N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

| Point ID | Northing | Easting | Elevation |
|----------|-------------|------------|-----------|
| BE2 | 4483119.170 | 484489.501 | 159.320 |
| BE9 | 4447078.997 | 456848.786 | 76.790 |
| BE50 | 4401431.248 | 486090.221 | 43.534 |
| BE55 | 4378310.508 | 500114.285 | 36.013 |
| BE58 | 4402955.310 | 514904.757 | 29.966 |
| BE62 | 4412577.851 | 504486.140 | 44.269 |
| BE64 | 4435705.050 | 510200.853 | 3.366 |
| BE67 | 4422418.173 | 533612.339 | 16.614 |
| BE71 | 4392826.765 | 539990.878 | 12.581 |
| BE82 | 4415848.142 | 543288.429 | 38.017 |



URBAN AREA POINT COORDINATES

Horizontal Datum - NAD83(2011)

SPCS UTM-Zone 18N

Vertical Datum - NAVD 88

Geoid - GEOID12A

Units – Meters

| Point ID | Northing | Easting | Elevation |
|----------|-------------|------------|-----------|
| UA1 | 4488869.518 | 488312.933 | 184.228 |
| UA3 | 4479760.044 | 476838.716 | 153.667 |
| UA4 | 4474313.503 | 470887.945 | 159.618 |
| UA5 | 4470616.220 | 465192.747 | 164.770 |
| UA6 | 4467121.945 | 459090.865 | 95.900 |
| UA7 | 4460116.815 | 452354.114 | 85.964 |
| UA8 | 4454400.971 | 448348.459 | 46.114 |
| UA11 | 4460575.453 | 465279.032 | 79.962 |
| UA12 | 4460575.453 | 465279.032 | 79.962 |
| UA13 | 4463274.049 | 476097.162 | 189.288 |
| UA14 | 4468436.400 | 482299.129 | 174.635 |
| UA15 | 4467814.773 | 488598.764 | 133.268 |
| UA16 | 4475550.119 | 485161.822 | 120.718 |
| UA17 | 4477300.860 | 492446.412 | 133.086 |
| UA18 | 4469115.376 | 496042.754 | 115.389 |
| UA19 | 4465221.968 | 498778.987 | 73.352 |
| UA20 | 4460654.382 | 493806.692 | 92.756 |
| UA21 | 4453438.559 | 488266.593 | 76.154 |
| UA22 | 4448792.662 | 480563.805 | 97.973 |
| UA23 | 4443988.473 | 472236.874 | 66.375 |
| UA24 | 4438894.829 | 468636.543 | 54.157 |
| UA25 | 4411248.365 | 459802.504 | 68.170 |
| UA26 | 4417480.712 | 464377.081 | 85.307 |
| UA27 | 4414154.270 | 470429.007 | 23.589 |
| UA28 | 4417195.188 | 479491.135 | 1.977 |
| UA29 | 4422043.968 | 473787.559 | 71.443 |
| UA30 | 4426364.285 | 468198.199 | 104.134 |
| UA31 | 4433016.458 | 477219.171 | 105.158 |
| UA32 | 4428546.166 | 482724.549 | 32.220 |
| UA33 | 4425270.856 | 487266.892 | 19.017 |



| | | | |
|------|-------------|------------|---------|
| UA34 | 4432828.341 | 494441.779 | 33.287 |
| UA35 | 4437163.405 | 486177.186 | 109.915 |
| UA36 | 4440774.580 | 493287.031 | 35.898 |
| UA37 | 4446198.762 | 499552.741 | 31.245 |
| UA38 | 4440093.360 | 502310.668 | 34.782 |
| UA39 | 4450838.039 | 504131.849 | 46.515 |
| UA40 | 4463539.006 | 506214.730 | 24.258 |
| UA41 | 4455551.738 | 512549.154 | 25.012 |
| UA42 | 4459633.232 | 518008.585 | 55.454 |
| UA43 | 4468127.612 | 522524.958 | 74.600 |
| UA47 | 4452456.872 | 519400.142 | 19.107 |
| UA49 | 4435957.282 | 511380.153 | 1.935 |
| UA50 | 4431398.036 | 502459.931 | 4.815 |
| UA51 | 4425064.161 | 497037.822 | 15.155 |
| UA52 | 4419009.209 | 492040.067 | 4.054 |
| UA59 | 4406889.702 | 498446.357 | 17.213 |
| UA60 | 4413038.487 | 504591.126 | 32.952 |
| UA61 | 4419064.015 | 509164.841 | 19.978 |
| UA62 | 4423022.814 | 516285.815 | 13.671 |
| UA63 | 4427859.884 | 521484.938 | 21.148 |
| UA64 | 4431932.939 | 526069.751 | 22.324 |
| UA65 | 4439978.937 | 532561.490 | 29.570 |
| UA66 | 4426927.489 | 538769.439 | 29.896 |
| UA67 | 4381108.524 | 546829.511 | 1.410 |
| UA68 | 4420493.569 | 521688.917 | 11.961 |
| UA70 | 4407262.358 | 520357.107 | 30.842 |
| UA71 | 4402824.865 | 514904.447 | 31.038 |
| UA72 | 4395840.403 | 507463.520 | 42.946 |
| UA73 | 4400289.607 | 501725.586 | 44.133 |
| UA75 | 4389511.492 | 501077.997 | 39.864 |
| UA79 | 4400228.025 | 535540.196 | 17.273 |



| | | | |
|--------|-------------|------------|--------|
| UA83 | 4407721.364 | 549285.477 | 58.861 |
| UA86 | 4392831.873 | 540007.719 | 12.712 |
| UA88 | 4382792.680 | 538696.855 | 1.422 |
| UA91 | 4382885.539 | 550166.416 | 3.886 |
| UA101 | 4378326.224 | 499994.459 | 34.748 |
| UA102 | 4392173.353 | 512389.211 | 35.446 |
| UA103 | 4402489.139 | 508447.099 | 49.814 |
| UA104 | 4424752.638 | 508922.168 | 13.176 |
| UA105 | 4436293.876 | 524367.991 | 22.641 |
| UA106 | 4436293.876 | 524367.991 | 22.641 |
| UA107 | 4386195.281 | 533177.792 | 1.160 |
| UA109 | 4404577.477 | 521121.356 | 24.970 |
| UA110 | 4404332.578 | 529105.668 | 16.945 |
| UA111 | 4454810.216 | 536238.904 | 30.810 |
| NVA56 | 4396881.766 | 477852.955 | 32.082 |
| NVA69 | 4413143.124 | 529610.287 | 29.705 |
| NVA74 | 4395708.842 | 494333.292 | 44.820 |
| NVA76 | 4388352.625 | 488420.567 | 39.986 |
| NVA77 | 4381620.817 | 495377.489 | 31.774 |
| NVA100 | 4401513.802 | 486031.316 | 42.815 |



FORESTED POINT COORDINATES

Horizontal Datum - NAD83(2011)

SPCS UTM-Zone 18N

Vertical Datum - NAVD 88

Geoid - GEOID12A

Units – Meters

| Point ID | Northing | Easting | Elevation |
|----------|-------------|------------|-----------|
| FO01A | 4392850.431 | 539950.795 | 11.805 |
| FO02A | 4432990.871 | 477194.935 | 104.332 |
| FO03A | 4448835.607 | 480563.636 | 99.761 |
| FO04A | 4402999.811 | 514886.765 | 29.680 |
| FO05A | 4378351.748 | 500007.060 | 34.347 |
| FO06A | 4411244.473 | 459837.455 | 69.465 |
| FO07A | 4459006.563 | 465093.687 | 56.823 |
| FO08A | 4467819.289 | 488671.030 | 136.899 |
| FO09A | 4452726.003 | 503227.353 | 33.728 |
| FO10A | 4428542.428 | 482767.100 | 33.187 |
| FO11A | 4451151.130 | 461691.499 | 34.248 |
| FO12A | 4454451.159 | 448333.516 | 44.416 |
| FO13A | 4467092.705 | 459083.273 | 97.661 |
| FO14A | 4483076.108 | 484510.426 | 159.470 |
| FO15A | 4477266.087 | 492415.797 | 133.415 |
| FO16 | 4468118.537 | 522564.781 | 74.651 |
| FO17 | 4454780.149 | 536197.369 | 29.670 |
| FO18 | 4449401.214 | 524011.950 | 18.523 |
| FO19 | 4435696.499 | 510133.636 | 3.503 |
| FO20 | 4425013.081 | 497090.994 | 13.071 |
| FO21 | 4411405.804 | 485086.466 | 2.244 |
| FO22 | 4402115.168 | 469201.798 | 1.690 |
| FO23 | 4398113.571 | 487270.762 | 39.004 |
| FO24 | 4412607.699 | 504547.197 | 42.684 |
| FO25 | 4423109.111 | 516190.703 | 12.667 |
| FO26 | 4439967.031 | 532507.290 | 29.084 |
| FO27 | 4426898.038 | 538727.570 | 29.510 |
| FO28 | 4407511.249 | 519874.688 | 31.721 |
| FO29 | 4396234.932 | 506624.298 | 46.255 |
| FO30 | 4380808.456 | 496039.040 | 35.891 |



| | | | |
|------|-------------|------------|--------|
| FO31 | 4408037.076 | 535359.109 | 33.671 |
| FO32 | 4407678.700 | 549315.591 | 58.132 |
| FO33 | 4398930.007 | 540127.971 | 17.468 |
| FO34 | 4385254.867 | 536160.096 | 7.442 |
| FO35 | 4386214.005 | 545688.299 | 9.793 |

**TALL WEEDS POINT COORDINATES**

Horizontal Datum - NAD83(2011)
SPCS UTM-Zone 18N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

| Point ID | Northing | Easting | Elevation |
|----------|-------------|------------|-----------|
| TW2 | 4467114.015 | 459051.233 | 96.337 |
| TW3 | 4454423.676 | 448316.382 | 43.964 |
| TW4 | 4451183.356 | 461655.024 | 36.899 |
| TW6 | 4464853.427 | 481345.363 | 194.172 |
| TW7 | 4477270.588 | 492492.453 | 131.936 |
| TW9 | 4453127.795 | 488418.449 | 70.437 |
| TW11 | 4411283.694 | 459813.053 | 69.895 |
| TW13 | 4428557.836 | 482748.175 | 31.882 |
| TW14 | 4436519.713 | 486276.940 | 99.431 |
| TW15 | 4452704.230 | 503222.820 | 35.045 |
| TW17 | 4454892.531 | 536237.071 | 31.448 |
| TW18 | 4449381.488 | 523923.983 | 19.343 |
| TW19 | 4435674.051 | 510144.652 | 3.202 |
| TW21 | 4411403.422 | 485100.305 | 2.406 |
| TW22 | 4401995.831 | 468814.531 | 4.853 |
| TW23 | 4398038.663 | 487152.110 | 40.738 |
| TW24 | 4412367.271 | 504626.680 | 46.431 |
| TW25 | 4423056.246 | 516234.229 | 12.769 |
| TW26 | 4439972.584 | 532528.321 | 29.415 |
| TW28 | 4407530.252 | 519883.755 | 31.676 |
| TW29 | 4402992.902 | 514932.663 | 29.248 |
| TW31 | 4407997.518 | 535312.527 | 34.212 |
| TW32 | 4407709.793 | 549328.226 | 58.349 |
| TW33 | 4399651.701 | 540309.144 | 17.219 |
| TW35 | 4386258.156 | 545712.700 | 9.451 |
| TW36 | 4386258.150 | 545712.700 | 9.439 |
| TW51 | 4385432.086 | 492920.672 | 32.314 |
| TW52 | 4388750.495 | 488297.344 | 41.194 |
| TW53 | 4389522.024 | 501052.507 | 39.693 |
| TW55 | 4400337.781 | 501462.857 | 44.409 |



| | | | |
|-------|-------------|------------|--------|
| TW57 | 4424874.739 | 508912.191 | 12.570 |
| TW58 | 4428125.849 | 521367.142 | 22.435 |
| TW101 | 4400169.252 | 535578.534 | 18.634 |
| TW102 | 4401575.919 | 551191.053 | 28.844 |
| TW103 | 4404580.143 | 521043.513 | 25.054 |



PHOTO POINT COORDINATES

Horizontal Datum - NAD83(2011)
SPCS UTM-Zone 18N
Vertical Datum - NAVD 88
Geoid - GEOID12A
Units – Meters

| Point ID | Northing | Easting | Elevation | Feature Code |
|----------|-------------|------------|-----------|-------------------|
| PP1 | 4398178.150 | 487277.559 | Hz Only | CL END STOPBAR |
| PP2 | 4396873.911 | 477855.223 | Hz Only | COR CONC |
| PP3 | 4402008.453 | 468821.339 | Hz Only | CL STOP BAR |
| PP4 | 4408338.955 | 475052.910 | Hz Only | TIP ARROW |
| PP5 | 4410968.922 | 484706.676 | Hz Only | CRNR STOP BAR |
| PP6 | 4405968.887 | 489378.535 | Hz Only | COR SDWK |
| PP7 | 4401357.385 | 486275.508 | Hz Only | COR CONC@ASPHALT |
| PP8 | 4395660.291 | 493910.114 | Hz Only | TIP OF ARROW |
| PP9 | 4385380.533 | 493061.128 | Hz Only | CORN CONC@ASPHALT |
| PP10 | 4388744.505 | 488318.966 | Hz Only | CRNR SDWK |
| PP11 | 4380979.961 | 495848.125 | Hz Only | CRNR SDWK |
| PP12 | 4392010.572 | 482601.648 | Hz Only | CRNR SDWK |
| PP13 | 4378279.957 | 500162.888 | Hz Only | CLEND STOPBAR |
| PP14 | 4389799.358 | 501030.179 | Hz Only | EP@PVMTCHANGE |
| PP15 | 4395979.422 | 506757.865 | Hz Only | CL STOPBAR |
| PP16 | 4393482.261 | 513225.082 | Hz Only | CRNR SDWK |
| PP17 | 4402738.099 | 514442.960 | Hz Only | ASPHALT CHANGE |
| PP18 | 4419033.829 | 491989.664 | Hz Only | CLEND STOPBAR |
| PP19 | 4406837.553 | 498644.005 | Hz Only | CLEND STOPBAR |
| PP20 | 4400302.722 | 501712.640 | Hz Only | CRNR CONC@EP |
| PP21 | 4402427.645 | 508497.297 | Hz Only | CRNR SDWK |
| PP22 | 4413077.760 | 504481.794 | Hz Only | CORN CONC |
| PP23 | 4419233.186 | 509483.429 | Hz Only | CLEND STOPBAR |
| PP24 | 4424886.642 | 508876.565 | Hz Only | CL END STOPBAR |
| PP25 | 4425063.658 | 497015.152 | Hz Only | PVMT CHANGE |
| PP26 | 4431419.982 | 502529.886 | Hz Only | CRNR CONC |
| PP27 | 4435802.656 | 510714.841 | Hz Only | CRNR PKIG LOT |
| PP28 | 4435822.956 | 524796.948 | Hz Only | CL END STOPBAR |
| PP29 | 4431932.173 | 526065.079 | Hz Only | CRNR CONC |
| PP30 | 4428033.125 | 521657.284 | Hz Only | CRNR SIDEWALK |



| | | | | |
|-------|-------------|------------|---------|----------------------------|
| PP31 | 4422373.713 | 516074.974 | Hz Only | CRNR SIDEWALK |
| PP32 | 4420514.781 | 521654.763 | Hz Only | TIP ARROW |
| PP33 | 4380950.574 | 547130.742 | Hz Only | CL END FOGLINE |
| PP34 | 4382850.496 | 550074.422 | Hz Only | CONCRETE CORN |
| PP35 | 4386232.414 | 545747.687 | Hz Only | CRNR STOP BAR |
| PP36 | 4382802.979 | 538699.364 | Hz Only | CORN CONC |
| PP37 | 4385219.074 | 536174.202 | Hz Only | CORN FOG LINE |
| PP38 | 4386249.160 | 533210.512 | Hz Only | CORN ASPHALT |
| PP39 | 4392881.064 | 540011.099 | Hz Only | CRNR HASH@FL |
| PP40 | 4399692.881 | 540320.818 | Hz Only | TIP ARROW |
| PP41 | 4407411.835 | 539623.735 | Hz Only | CORNER TENIS COURT |
| PP42 | 4404649.557 | 521126.691 | Hz Only | COR CONC |
| PP43 | 4407625.902 | 520150.225 | Hz Only | CL END STOPBAR |
| PP44 | 4413156.894 | 529461.940 | Hz Only | FL@PVMT CHANGE |
| PP45 | 4407977.848 | 535353.131 | Hz Only | CL END FOGLINE |
| PP46 | 4449208.851 | 523985.748 | Hz Only | CRNR CONC |
| PP47 | 4454789.165 | 536143.546 | Hz Only | CRNR CON DR |
| PP100 | 4422282.966 | 543749.424 | Hz Only | TARGET |
| PP101 | 4409659.788 | 545783.659 | Hz Only | TIP OF CHEVRON |
| PP102 | 4439942.569 | 532726.226 | Hz Only | TARGET |
| PP103 | 4422410.105 | 535120.395 | Hz Only | CRNR SIDEWALK |
| PP104 | 4467425.138 | 522820.489 | Hz Only | CL CRNR STOPBAR |
| PP105 | 4459656.141 | 518009.289 | Hz Only | TIP OF ARROW |
| PP106 | 4452470.121 | 519385.595 | Hz Only | TIP OF ARROW |
| UA4 | 4474313.503 | 470887.945 | Hz Only | END OF STOPBAR |
| UA7 | 4460116.815 | 452354.114 | Hz Only | END OF STOPBAR |
| UA11 | 4460575.453 | 465279.032 | Hz Only | TIP OF ARROW |
| UA12 | 4460575.453 | 465279.032 | Hz Only | PAINT STRIPE INTERSECTION |
| UA15 | 4467814.773 | 488598.764 | Hz Only | END OF PAINT STRIPE |
| UA18 | 4469115.376 | 496042.754 | Hz Only | END OF FOGLINE |
| UA21 | 4453438.559 | 488266.593 | Hz Only | TIP OF CHEVRON |
| UA23 | 4443988.473 | 472236.874 | Hz Only | CENTER OF CUL-DE-SAC |
| UA24 | 4438894.829 | 468636.543 | Hz Only | TIP OF ARROW |
| UA30 | 4426364.285 | 468198.199 | Hz Only | CENTER OF BASKETBALL COURT |
| UA35 | 4437163.405 | 486177.186 | Hz Only | CORNER OF PARKING LINES |
| UA38 | 4440093.360 | 502310.668 | Hz Only | CORNER OF CONCRETE APRON |
| UA39 | 4450838.039 | 504131.849 | Hz Only | TIP OF ARROW |
| UA40 | 4463539.006 | 506214.730 | Hz Only | CORNER OF PARKING LINES |



POINT DATA & ACCURACY LOG SHEETS



CALIBRATION POINT DATA SHEETS



| | |
|--------------|-----------------------|
| Point ID | C1 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Riegelsville |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4491359.725 | 481038.524 | 79.112 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C3 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Milford Square |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4482528.392 | 467694.603 | 182.372 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | C4 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | East Greenville |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4482528.392 | 467694.603 | 182.372 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C5 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Sassamansville |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4465722.252 | 451577.950 | 111.008 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C6 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Boyertown |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4456080.620 | 443701.254 | 44.089 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C7 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Phoenixville |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4451794.690 | 453614.676 | 71.352 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C8 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Perkiomenville |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4451794.690 | 453614.676 | 71.352 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C9 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Perkiomenville |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4466793.715 | 467473.999 | 170.161 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/06/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.012 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C10 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Quakertown |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4472624.504 | 478424.426 | 111.772 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C11 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Bedminster |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4479529.283 | 486508.645 | 99.194 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C12 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Frenchtown |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4486141.795 | 493490.421 | 114.605 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C13 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Buckingham |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4466241.908 | 497298.860 | 89.726 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C14 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Telford |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4461772.152 | 477628.902 | 162.461 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C15 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Lansdale |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4450278.078 | 470332.839 | 72.744 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | C16 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Collegeville |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4442680.416 | 461616.052 | 28.426 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP17 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Wilmington North |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413135.054 | 453340.498 | 117.800 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.009 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP18 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Media |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4421846.578 | 460055.026 | 128.586 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/08/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C19 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Norristown |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4432094.751 | 469970.839 | 119.865 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/06/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | CP20 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Frankford |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4439610.343 | 489850.101 | 51.795 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP21 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Pennington |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4461326.146 | 510943.784 | 13.987 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP21 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Pennington |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4461326.146 | 510943.784 | 13.987 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP22 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Hopewell |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4470732.766 | 520437.688 | 47.914 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | CP23 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Marcus Hook |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4408028.765 | 464189.997 | 8.719 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.009 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C30 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | New Egypt |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4433696.916 | 536981.134 | 25.016 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | CP31 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Whiting |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422271.669 | 543710.144 | 27.948 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C32 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Browns Mills |

| |
|------------------------|
| Aerial Target |
| X LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4415104.073 | 535503.242 | 28.164 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | C39 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Woodmansie |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4409673.574 | 545754.089 | 36.250 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP56 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402732.969 | 514450.992 | 30.399 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP24 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4380951.771 | 547150.025 | 0.853 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP25 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435951.596 | 524718.155 | 21.991 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP26 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4424856.061 | 508744.959 | 12.342 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP27 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401391.789 | 486309.408 | 46.251 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | STATIC/RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP28 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392160.513 | 482573.781 | 41.409 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 51084611884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP29 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402389.986 | 508557.423 | 50.649 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP33 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | INDIAN MILLS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4404320.072 | 529108.807 | 17.008 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP34 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4404633.120 | 521124.203 | 25.121 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP35 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | HAMMONTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4393488.954 | 513192.681 | 30.833 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP36 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385354.158 | 492983.935 | 32.668 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP37 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LiDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BUENA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378228.291 | 500184.559 | 36.395 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP38 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JCHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400182.275 | 535539.817 | 17.709 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | 0.012 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP40 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WOODMANSIE |

| | |
|---|----------------------|
| | Aerial Target |
| | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401690.393 | 550604.308 | 29.746 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP41 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WOODMANSIE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4394697.037 | 552295.838 | 40.830 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.009 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP42 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386164.427 | 533160.038 | 1.399 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.012 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP43 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385862.477 | 549516.693 | 7.245 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.012 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|-----------------|
| Point ID | CP46 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WOODSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4396862.739 | 477927.472 | 33.984 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP47 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401984.706 | 468823.341 | 4.596 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP48 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4408298.295 | 475044.910 | 3.553 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP50 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4405925.259 | 489382.523 | 22.361 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.007 |
| GPS Method | STATIC/RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP51 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4395705.132 | 493948.654 | 47.121 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP52 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4388571.676 | 488253.552 | 41.298 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 51084611884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP53 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4381123.053 | 495727.076 | 27.612 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP54 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4389490.677 | 501360.315 | 38.484 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP55 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4396120.773 | 506661.233 | 47.037 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP57 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419031.845 | 492292.670 | 3.785 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP58 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4406835.294 | 498659.825 | 20.525 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP59 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400255.068 | 501435.928 | 44.318 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP60 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4412491.384 | 504458.737 | 45.324 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP61 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419128.401 | 509447.896 | 21.062 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP62 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4425119.704 | 497012.581 | 15.108 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP63 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431445.394 | 502552.149 | 4.904 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP64 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435809.666 | 510714.719 | 1.871 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP65 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431921.989 | 526383.158 | 22.003 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP66 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428091.484 | 521472.954 | 22.246 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP67 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MT. HOLLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422816.044 | 516118.465 | 14.233 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP68 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4420677.102 | 521622.086 | 12.566 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP69 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4398233.644 | 487223.130 | 41.340 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.007 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP70 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4420677.102 | 521622.086 | 12.566 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP71 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4382791.887 | 538730.107 | 1.657 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.009 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP72 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385228.903 | 536167.920 | 8.176 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP73 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392906.551 | 540012.263 | 13.331 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.009 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP74 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4399345.399 | 540309.995 | 17.119 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP75 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407406.408 | 539636.263 | 29.698 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.009 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP76 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407646.191 | 519985.518 | 32.676 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP77 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | INDIAN MILLS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413139.146 | 529675.188 | 29.901 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | CP78 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | TRENTON EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4449264.183 | 523881.137 | 19.092 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.016 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | CP79 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | ALLENTEWON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454891.902 | 536200.682 | 31.376 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.009 |
| GPS Method | RTK/STATIC |

PHOTOS:





NON-VEGETATION POINT DATA SHEETS



BARE EARTH POINT DATA SHEETS



| | |
|--------------|-----------------------|
| Point ID | BE2 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Bedminster |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4483119.170 | 484489.501 | 159.320 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | 0.021 |
| RMSE Z | 0.024 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | BE9 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Phoenixville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4447078.997 | 456848.786 | 76.790 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE50 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401431.248 | 486090.221 | 43.534 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.021 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE55 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BUENA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378310.508 | 500114.285 | 36.013 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE58 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402955.310 | 514904.757 | 29.966 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE62 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4412577.851 | 504486.140 | 44.269 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE64 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435705.050 | 510200.853 | 3.366 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | BE67 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Browns Mills |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422418.173 | 533612.339 | 16.614 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | BE71 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392826.765 | 539990.878 | 12.581 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | BE82 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Whiting |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4415848.142 | 543288.429 | 38.017 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





URBAN AREA POINT DATA SHEETS



| | |
|--------------|-----------------------|
| Point ID | UA1 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Riegelsville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4488869.518 | 488312.933 | 184.228 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | UA3 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Quakertown |

| | |
|---|----------------------|
| | Aerial Target |
| | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4479760.044 | 476838.716 | 153.667 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA4 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Quakertown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4474313.503 | 470887.945 | 159.618 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA5 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Milford Square |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4470616.220 | 465192.747 | 164.770 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA6 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Perkiomenville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467121.945 | 459090.865 | 95.900 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | 0.019 |
| RMSE Z | 0.019 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA7 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Sassamansville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4460116.815 | 452354.114 | 85.964 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA8 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Phoenixville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454400.971 | 448348.459 | 46.114 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA11 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Perkiomenville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4460575.453 | 465279.032 | 79.962 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA12 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Lansdale |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4460575.453 | 465279.032 | 79.962 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA13 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Telford |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4463274.049 | 476097.162 | 189.288 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | UA14 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | DoylesTown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4468436.400 | 482299.129 | 174.635 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA15 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Doylestown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467814.773 | 488598.764 | 133.268 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA16 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Bedminster |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467814.773 | 488598.764 | 133.268 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA17 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Lumberville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467814.773 | 488598.764 | 133.268 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA18 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Buckingham |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4469115.376 | 496042.754 | 115.389 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA19 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Mercer |
| Quad | Buckingham |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4465221.968 | 498778.987 | 73.352 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/14/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA20 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Mercer |
| Quad | Buckingham |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4460654.382 | 493806.692 | 92.756 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/14/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA21 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Ambler |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4460654.382 | 493806.692 | 92.756 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA22 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Ambler |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4448792.662 | 480563.805 | 97.973 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA23 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Lansdale |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4443988.473 | 472236.874 | 66.375 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/15/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA24 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Norristown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4438894.829 | 468636.543 | 54.157 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA25 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Marcus Hook |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4411248.365 | 459802.504 | 68.170 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.009 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA26 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Media |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4417480.712 | 464377.081 | 85.307 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/08/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA27 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Lansdowne |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4414154.270 | 470429.007 | 23.589 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA28 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Philadelphia |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4414154.270 | 470429.007 | 23.589 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA29 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Lansdowne |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422043.968 | 473787.559 | 71.443 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA30 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Lansdowne |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4426364.285 | 468198.199 | 104.134 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/06/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA31 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Norristown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4433016.458 | 477219.171 | 105.158 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/06/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.011 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA32 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Germantown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428546.166 | 482724.549 | 32.220 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.009 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA33 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Philadelphia |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4425270.856 | 487266.892 | 19.017 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA34 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Frankford |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4432828.341 | 494441.779 | 33.287 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA35 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Germantown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4437163.405 | 486177.186 | 109.915 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA36 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Frankford |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4440774.580 | 493287.031 | 35.898 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA37 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Hatboro |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4446198.762 | 499552.741 | 31.245 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA38 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Beverly |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4440093.360 | 502310.668 | 34.782 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA39 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Langhorne |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4450838.039 | 504131.849 | 46.515 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA40 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Lambertville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4463539.006 | 506214.730 | 24.258 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA41 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Pennington |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4455551.738 | 512549.154 | 25.012 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA42 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Pennington |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4459633.232 | 518008.585 | 55.454 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA43 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Princeton |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOD12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4468127.612 | 522524.958 | 74.600 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA47 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Trenton West |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4452456.872 | 519400.142 | 19.107 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | UA49 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435957.282 | 511380.153 | 1.935 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA50 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431398.036 | 502459.931 | 4.815 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA51 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4425064.161 | 497037.822 | 15.155 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA52 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419009.209 | 492040.067 | 4.054 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA59 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4406889.702 | 498446.357 | 17.213 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA60 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413038.487 | 504591.126 | 32.952 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA61 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419064.015 | 509164.841 | 19.978 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA62 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MT. HOLLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4423022.814 | 516285.815 | 13.671 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA63 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4427859.884 | 521484.938 | 21.148 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.017 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA64 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431932.939 | 526069.751 | 22.324 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA65 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | New Egypt |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4439978.937 | 532561.490 | 29.570 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.012 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA66 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Browns Mills |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4426927.489 | 538769.439 | 29.896 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA67 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4381108.524 | 546829.511 | 1.410 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA68 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4420493.569 | 521688.917 | 11.961 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.018 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA70 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407262.358 | 520357.107 | 30.842 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA71 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402824.865 | 514904.447 | 31.038 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | UA72 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4395840.403 | 507463.520 | 42.946 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA73 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400289.607 | 501725.586 | 44.133 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA75 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4389511.492 | 501077.997 | 39.864 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | UA79 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JCHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400228.025 | 535540.196 | 17.273 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | UA83 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Woodmansie |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407721.364 | 549285.477 | 58.861 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA86 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392831.873 | 540007.719 | 12.712 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA88 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4382792.680 | 538696.855 | 1.422 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA91 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4382885.539 | 550166.416 | 3.886 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | UA101 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BUENA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378326.224 | 499994.459 | 34.748 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA102 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | HAMMONTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392173.353 | 512389.211 | 35.446 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.017 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA103 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402489.139 | 508447.099 | 49.814 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA104 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4424752.638 | 508922.168 | 13.176 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | 0.012 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA105 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4436293.876 | 524367.991 | 22.641 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA106 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4436293.876 | 524367.991 | 22.641 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA107 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386195.281 | 533177.792 | 1.160 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA109 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4404577.477 | 521121.356 | 24.970 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | UA110 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | INDIAN MILLS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454810.216 | 536238.904 | 30.810 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:

06/14/2015 13:43



06/14/2015 13:43



06/14/2015 13:43



06/14/2015 13:43



| | |
|--------------|----------------|
| Point ID | UA111 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | ALLENTEWON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454810.216 | 536238.904 | 30.810 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------|
| Point ID | NVA56 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WOODSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4396881.766 | 477852.955 | 32.082 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/02/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | NVA69 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | INDIAN MILLS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413143.124 | 529610.287 | 29.705 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | NVA74 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4395708.842 | 494333.292 | 44.820 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | NVA76 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4388352.625 | 488420.567 | 39.986 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | NVA77 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4381620.817 | 495377.489 | 31.774 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | NVA100 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401513.802 | 486031.316 | 42.815 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





VEGETATION POINT DATA SHEETS



FORESTED POINT DATA SHEETS



| | |
|--------------|-----------------------|
| Point ID | FO01A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392850.431 | 539950.795 | 11.805 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-07-2015 |
| Occupy PT | BE71 |
| Back Sight PT | CP73 |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO02A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | NORRISTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4432990.871 | 477194.935 | 104.332 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-09-2015 |
| Occupy PT | UA31 |
| Back Sight PT | FO02ABS |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO03A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | AMBLER |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4448835.607 | 480563.636 | 99.761 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-09-2015 |
| Occupy PT | UA22 |
| Back Sight PT | FO03ABS |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO04A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392850.431 | 539950.795 | 11.805 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-07-2015 |
| Occupy PT | BE58 |
| Back Sight PT | UA71 |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO05A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BUENA |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378351.748 | 500007.060 | 34.347 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-07-2015 |
| Occupy PT | UA101 |
| Back Sight PT | BE55 |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO06A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | DELAWARE |
| Quad | MARCUS HOOK |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| | |
|--|-------------------|
| | Coordinate System |
| | NAD83(2011) |
| | UTM – Zone 18N |
| | NAVD88 |
| | GEOID12A |
| | Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4411244.473 | 459837.455 | 69.465 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-07-2015 |
| Occupy PT | UA25 |
| Back Sight PT | TW11 |
| RMSE Hz | 0.02 |
| RMSE Z | 0.02 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO07A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | PERKIOMENVILLE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4459006.563 | 465093.687 | 56.823 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-09-2015 |
| Occupy PT | TW5 |
| Back Sight PT | FO07ABS |
| RMSE Hz | 0.03 |
| RMSE Z | 0.03 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO08A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | BUCKS |
| Quad | DOYLESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467819.289 | 488671.030 | 136.899 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-09-2015 |
| Occupy PT | UA15 |
| Back Sight PT | FO08ABS |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO09A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | BUCKS |
| Quad | LANGHORNE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467819.289 | 488671.030 | 136.899 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-09-2015 |
| Occupy PT | TW15 |
| Back Sight PT | FO09ABS |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO10A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | PHILADEPHIA |
| Quad | GERMANTOWN |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| | |
|--|-------------------|
| | Coordinate System |
| | NAD83(2011) |
| | UTM – Zone 18N |
| | NAVD88 |
| | GEOID12A |
| | Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428542.428 | 482767.100 | 33.187 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | UA32 |
| Back Sight PT | TW13 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO11A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | COLLEGEVILLE |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| | |
|--|-------------------|
| | Coordinate System |
| | NAD83(2011) |
| | UTM – Zone 18N |
| | NAVD88 |
| | GEOID12A |
| | Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4451151.130 | 461691.499 | 34.248 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | BE10 |
| Back Sight PT | TW4 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO12A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | PHOENIXVILLE |

| | |
|---|----------------------|
| | Aerial Target |
| X | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| | |
|--|-------------------|
| | Coordinate System |
| | NAD83(2011) |
| | UTM – Zone 18N |
| | NAVD88 |
| | GEOID12A |
| | Meters |

| Northing | Easting | Elevation |
|-------------|-------------|-----------|
| 4454451.159 | 4483335.516 | 44.416 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | TW3 |
| Back Sight PT | UA8 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





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|--------------|-----------------------|
| Point ID | FO13A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | MONTGOMERY |
| Quad | PERKIOMENVILLE |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467092.705 | 459083.273 | 97.661 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | UA6 |
| Back Sight PT | TW2 |
| RMSE Hz | 0.030 |
| RMSE Z | 0.030 |

PHOTOS:



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|--------------|-----------------------|
| Point ID | FO14A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | BUCKS |
| Quad | BEDMINSTER |

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| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4483076.108 | 484510.426 | 159.470 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | BE2 |
| Back Sight PT | TW1 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



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|--------------|-----------------------|
| Point ID | FO15A |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | PENNSYLVANIA |
| County | BUCKS |
| Quad | LUMBERVILLE |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4477266.087 | 492415.797 | 133.415 |

| | |
|-------------------|---------------|
| Operator | ZEKE INGRAM |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 07-08-2015 |
| Occupy PT | UA17 |
| Back Sight PT | TW7 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





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|--------------|-----------------------|
| Point ID | FO16 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | MERCER |
| Quad | PRINCETON |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4468118.537 | 522564.781 | 74.651 |

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|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | UA43 |
| Back Sight PT | TW16 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



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|--------------|-----------------------|
| Point ID | FO17 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | MERCER |
| Quad | ALLENTEWN |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454780.149 | 536197.369 | 29.670 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | UA111 |
| Back Sight PT | CP79 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO18 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | MERCER |
| Quad | TRENTON EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4449401.214 | 524011.950 | 18.523 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | NVA46 |
| Back Sight PT | TW18 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO19 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

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|---|----------------------|
| | Aerial Target |
| | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435696.499 | 510133.636 | 3.503 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | TW19 |
| Back Sight PT | BE63 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO20 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4425013.081 | 497090.994 | 13.071 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | UA51 |
| Back Sight PT | CP62 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO21 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WOODBURY |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4411405.804 | 485086.466 | 2.244 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | TW21 |
| Back Sight PT | NVA53 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO22 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402115.168 | 469201.798 | 1.690 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | NVA55 |
| Back Sight PT | BSFO22 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO23 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4398113.571 | 487270.762 | 39.004 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | TPFO23 |
| Back Sight PT | CP45 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



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|--------------|-----------------------|
| Point ID | FO24 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4412607.699 | 504547.197 | 42.684 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | BE62 |
| Back Sight PT | CP60 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO25 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MT. HOLLY |

| | |
|---|----------------------|
| | Aerial Target |
| | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407511.249 | 519874.688 | 31.721 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | NVA67 |
| Back Sight PT | UA62 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO26 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CAMP DIX |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4439967.031 | 532507.290 | 29.084 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | TW26 |
| Back Sight PT | NVA65 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO27 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BROWNS MILL |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4426898.197 | 538727.367 | 29.510 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | TW27 |
| Back Sight PT | NVA66 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO28 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407511.249 | 519874.688 | 31.721 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | TW28 |
| Back Sight PT | CP76 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





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|--------------|-----------------------|
| Point ID | FO29 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4396234.932 | 506624.298 | 46.255 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | CP55 |
| Back Sight PT | BE56 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO30 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4380808.456 | 496039.040 | 35.891 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | TPFO30 |
| Back Sight PT | BE54 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO31 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CHATSWORTH |

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|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4408037.076 | 535359.109 | 33.671 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | NVA81 |
| Back Sight PT | TW31 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO32 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WHITING |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407678.700 | 549315.591 | 58.132 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-15-2015 |
| Occupy PT | TW32 |
| Back Sight PT | NVA83 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO33 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| | |
|---|----------------------|
| | Aerial Target |
| | LiDAR Ground Control |
| X | LiDAR QC Point |
| | New Control |
| | Photo ID |
| | Published Control |

| | |
|--|-------------------|
| | Coordinate System |
| | NAD83(2011) |
| | UTM – Zone 18N |
| | NAVD88 |
| | GEOID12A |
| | Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4398930.007 | 540127.971 | 17.468 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | TPFO33 |
| Back Sight PT | CP74 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | FO34 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385254.867 | 536160.096 | 7.442 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | CP72 |
| Back Sight PT | NVA87 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | FO35 |
| Project No. | 26236 |
| Project Name | DELEWARE VALLEY LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386214.005 | 545688.299 | 9.793 |

| | |
|-------------------|---------------|
| Operator | STEVE MILLER |
| Instrument Model | Trimble M3 2" |
| Date (MM-DD-YYYY) | 06-07-2015 |
| Occupy PT | BE69 |
| Back Sight PT | CP70 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.020 |

PHOTOS:



TALL WEED POINT DATA SHEETS



| | |
|--------------|-----------------------|
| Point ID | TW2 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Perkiomenville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467114.015 | 459051.233 | 96.337 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/18/2015 |
| RMSE Hz | 0.018 |
| RMSE Z | 0.019 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW3 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Phoenixville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454423.676 | 448316.382 | 43.964 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/17/2015 |
| RMSE Hz | 0.020 |
| RMSE Z | 0.021 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW4 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Collegeville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454423.676 | 448316.382 | 43.964 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/06/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.011 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW6 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Doylestown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4464853.427 | 481345.363 | 194.172 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW7 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Lumberville |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4477270.588 | 492492.453 | 131.936 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/24/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.017 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW9 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Ambler |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4453127.795 | 488418.449 | 70.437 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW11 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Delaware |
| Quad | Marcus Hook |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4411283.694 | 459813.053 | 69.895 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW13 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Philadelphia |
| Quad | Germantown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428557.836 | 482748.175 | 31.882 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 05/07/2015 |
| RMSE Hz | 0.008 |
| RMSE Z | 0.010 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW14 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Montgomery |
| Quad | Germantown |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4436519.713 | 486276.940 | 99.431 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/23/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW15 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | Pennsylvania |
| County | Bucks |
| Quad | Langhorne |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4452704.230 | 503222.820 | 35.045 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 04/26/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.013 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW17 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | ALLENTEOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454892.531 | 536237.071 | 31.448 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW18 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | TREBTON EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4449381.488 | 523923.983 | 19.343 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | 0.011 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW19 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435674.051 | 510144.652 | 3.202 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW21 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WOODBURY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4411403.422 | 485100.305 | 2.406 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | TW22 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401995.831 | 468814.531 | 4.853 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.007 |
| RMSE Z | 0.008 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------|
| Point ID | TW23 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4398038.663 | 487152.110 | 40.738 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5133470976 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.006 |
| RMSE Z | 0.008 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | TW24 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4412367.271 | 504626.680 | 46.431 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW25 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MT. HOLLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4423056.246 | 516234.229 | 12.769 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW26 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | New Egypt |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4439972.584 | 532528.321 | 29.415 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.01 |
| RMSE Z | 0.011 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW28 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407530.252 | 519883.755 | 31.676 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW29 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402992.902 | 514932.663 | 29.248 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW31 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407997.518 | 535312.527 | 34.212 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 513572526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | TW32 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Woodmansie |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407709.793 | 549328.226 | 58.349 |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.015 |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW33 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4399651.701 | 540309.144 | 17.219 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW35 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386258.156 | 545712.700 | 9.451 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.019 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | TW35 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386258.150 | 545712.700 | 9.439 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | N/A |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | TW51 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385432.086 | 492920.672 | 32.314 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW52 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4388750.495 | 488297.344 | 41.194 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW53 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4389522.024 | 501052.507 | 39.693 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | TW55 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400337.781 | 501462.857 | 44.409 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.014 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW57 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

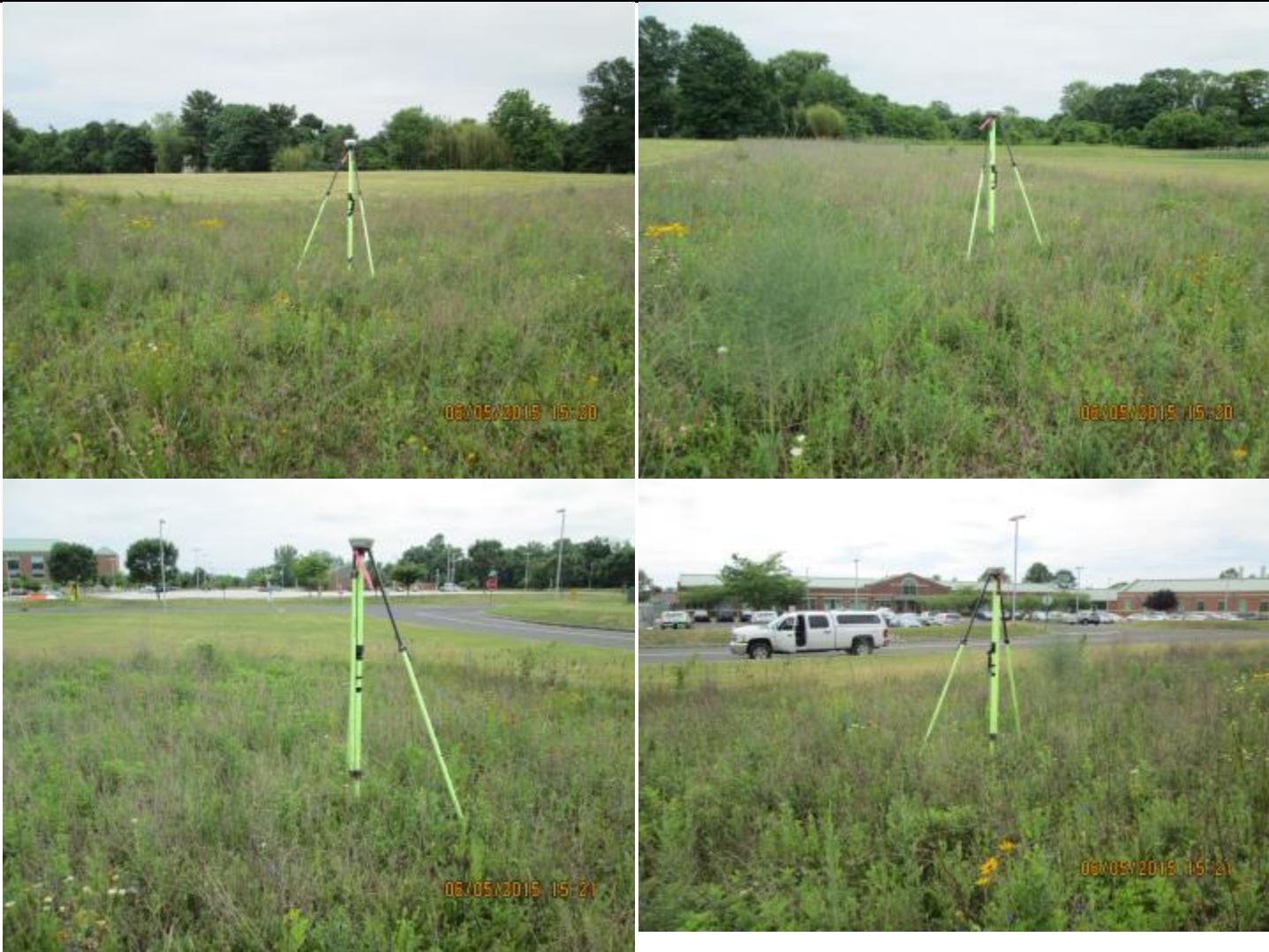
| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4424874.739 | 508912.191 | 12.570 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW58 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428125.849 | 521367.142 | 22.435 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.018 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW101 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JCHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400169.252 | 535578.534 | 18.634 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.016 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW102 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | WOODMANSIE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401575.919 | 551191.053 | 28.844 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | 0.016 |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | TW103 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X |
| LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4404580.143 | 521043.513 | 25.054 |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | 0.013 |
| GPS Method | RTK |

PHOTOS:





HORIZONTAL CHECK POINT DATA SHEETS



| | |
|--------------|----------------|
| Point ID | PP1 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4398178.150 | 487277.559 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/02/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP2 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WOODSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4396873.911 | 477855.223 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/02/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



06/02/2015 00:43



06/02/2015 00:43



06/02/2015 00:43



06/02/2015 00:44



| | |
|--------------|----------------|
| Point ID | PP3 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402008.453 | 468821.339 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP4 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BRIDGEPORT |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4408338.955 | 475052.910 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP5 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WOODBURY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4410968.922 | 484706.676 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP6 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4405968.887 | 489378.535 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP7 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4401357.385 | 486275.508 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | STATIC/RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP8 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4395660.291 | 493910.114 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP9 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385380.533 | 493061.128 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP10 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4388744.505 | 488318.966 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP11 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | NEWFIELD |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4380979.961 | 495848.125 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP12 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | PITTMAN WEST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392010.572 | 482601.648 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/03/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK/STATIC |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP13 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | BUENA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378279.957 | 500162.888 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP14 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4378279.957 | 500162.888 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP15 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | WILLIAMSTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4395979.422 | 506757.865 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.012 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP16 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | HAMMONTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4393482.261 | 513225.082 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5108461884 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP17 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | GLOUCESTER |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402738.099 | 514442.960 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/04/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP18 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419033.829 | 491989.664 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP19 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4406837.553 | 498644.005 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP20 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | RUNNEMEDE |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4400302.722 | 501712.640 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP21 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CLEMENTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4402427.645 | 508497.297 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP22 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413077.760 | 504481.794 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP23 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4419233.186 | 509483.429 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP24 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MOORESTOWN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4424886.642 | 508876.565 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP25 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | CAMDEN |
| Quad | CAMDEN |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4425063.658 | 497015.152 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP26 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431419.982 | 502529.886 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP27 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | BEVERLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435802.656 | 510714.841 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP28 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4435822.956 | 524796.948 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/05/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP29 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | COLUMBUS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4431932.173 | 526065.079 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK/STATIC |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP30 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4428033.125 | 521657.284 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP31 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MT. HOLLY |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422373.713 | 516074.974 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP32 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | PEMBERTON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4420514.781 | 521654.763 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/06/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP33 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4380950.574 | 547130.742 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP34 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4382850.496 | 550074.422 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP35 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | NEW GRETNA |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386232.414 | 545747.687 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.016 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP36 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4382802.979 | 538699.364 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP37 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | GREEN BANK |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4385219.074 | 536174.202 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP38 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4386249.160 | 533210.512 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP39 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4392881.064 | 540011.099 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP40 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | JENKINS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4399692.881 | 540320.818 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP41 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407411.835 | 539623.735 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP42 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4404649.557 | 521126.691 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP43 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | MEDFORD LAKES |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407625.902 | 520150.225 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP44 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | INDIAN MILLS |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4413156.894 | 529461.940 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.010 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP45 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | CHATSWORTH |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4407977.848 | 535353.131 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 513572526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:



| | |
|--------------|----------------|
| Point ID | PP46 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | TRENTON EAST |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4449208.851 | 523985.748 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|----------------|
| Point ID | PP47 |
| Project No. | 26236 |
| Project Name | DVRPC/NJ LIDAR |
| State | NEW JERSEY |
| County | BURLINGTON |
| Quad | ALLENTEWON |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4454789.165 | 536143.546 | Hz Only |

| | |
|----------------|----------------------|
| Operator | STEVE MILLER |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5135472526 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/15/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | RTK |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP100 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Whiting |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4422282.966 | 543749.424 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.013 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP101 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Woodmansie |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4409659.788 | 545783.659 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/12/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP102 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | New Egypt |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| LiDAR QC Point |
| New Control |
| X Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4439942.569 | 532726.226 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.011 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP103 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Burlington |
| Quad | Browns Mills |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4452470.121 | 519385.595 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/13/2015 |
| RMSE Hz | 0.015 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:



| | |
|--------------|-----------------------|
| Point ID | PP104 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Princeton |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4467425.138 | 522820.489 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP105 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Pennington |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4459656.141 | 518009.289 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:





| | |
|--------------|-----------------------|
| Point ID | PP106 |
| Project No. | 26236 |
| Project Name | DELAWARE VALLEY LiDAR |
| State | New Jersey |
| County | Mercer |
| Quad | Trenton West |

| |
|----------------------|
| Aerial Target |
| LiDAR Ground Control |
| X LiDAR QC Point |
| New Control |
| Photo ID |
| Published Control |

| |
|-------------------|
| Coordinate System |
| NAD83(2011) |
| UTM – Zone 18N |
| NAVD88 |
| GEOID12A |
| Meters |

| Northing | Easting | Elevation |
|-------------|------------|-----------|
| 4452470.121 | 519385.595 | Hz Only |

| | |
|----------------|----------------------|
| Operator | Kevin Chapman |
| Receiver Model | Trimble R-8, Model 3 |
| Receiver S/N | 5106461067 |
| Antenna Height | 2.000 Meters |

| | |
|-------------------|------------|
| Date (MM-DD-YYYY) | 06/14/2015 |
| RMSE Hz | 0.014 |
| RMSE Z | N/A |
| GPS Method | Keynet VRS |

PHOTOS:

