

Northwestern New Mexico LiDAR Project Report



USGS Contract # G16PC00016
Task Order # 140G0219F0005

Submitted: January 16, 2020

Prepared by:



Quantum Spatial, Inc
523 Wellington Way, Suite 375
Lexington, KY 40503
859-277-8700



Contents

1. Summary / Scope	1
1.1. Summary.....	1
1.2. Scope.....	1
1.3. Coverage.....	1
1.4. Duration.....	1
1.5. Issues	1
1.6. Deliverables	2
2. Planning / Equipment	4
2.1. Flight Planning	4
2.2. LiDAR Sensor	4
2.3. Aircraft.....	7
2.4. Time Period.....	8
3. Processing Summary	9
3.1. LiDAR Processing.....	9
3.2. LAS Classification Scheme	10
3.3. Classified LAS Processing.....	10
3.4. Hydro-Flattened Breakline Processing.....	11
3.5. Hydro-Flattened Raster DEM Processing.....	11
3.6. Intensity Image Processing	11
4. Project Coverage Verification	13
5. Ground Control and Check Point Collection	15
5.1. Calibration Control Point Testing.....	15
5.2. Point Cloud Testing	15
5.3. Digital Elevation Model (DEM) Testing.....	16

List of Figures

Figure 1. Project Boundary	3
Figure 2. Planned Flight Lines	5
Figure 3. Riegl VQ1560i LiDAR Sensor	6
Figure 4. Some of Quantum Spatial's Planes	7
Figure 5. LiDAR Tile Layout	12
Figure 6. LiDAR Flightline Coverage	14
Figure 7. Calibration Control Point Locations	17
Figure 8. QC Checkpoint Locations - NVA	18
Figure 9. QC Checkpoint Locations - VVA	19

List of Tables

Table 1. Originally Planned LiDAR Specifications	1
Table 2. LiDAR System Specifications	6

List of Appendices

Appendix A: Survey Report

1. Summary / Scope

1.1. Summary

This report contains a summary of the Northwestern New Mexico LiDAR acquisition task order, issued by the USGS under their Contract G16PC00016 on 8 November 2018. The task order yielded a project area covering 12,737 square miles over New Mexico. The intent of this document is only to provide specific validation information for the data acquisition/collection, processing, and production of deliverables completed as specified in the task order.

1.2. Scope

Aerial topographic LiDAR was acquired using state of the art technology along with the necessary surveyed ground control points (GCPs) and airborne GPS and inertial navigation systems. The aerial data collection was designed with the following specifications listed in Table 1 below.

Table 1. Originally Planned LiDAR Specifications

Average Point Density	Flight Altitude (AGL)	Field of View	Minimum Side Overlap	RMSEz
1.99 pts / m ²	2100 m	60°	20%	≤ 10 cm

1.3. Coverage

The project boundary covers 12,737 square miles over New Mexico. A buffer of 100 meters was created to meet task order specifications. Project extents are shown in Figure 1.

1.4. Duration

LiDAR data was acquired from 14 November 2018 to 28 November 2018 in 26 total lifts. See “Section: 2.4. Time Period” for more details.

1.5. Issues

There were no major issues to report for this project.

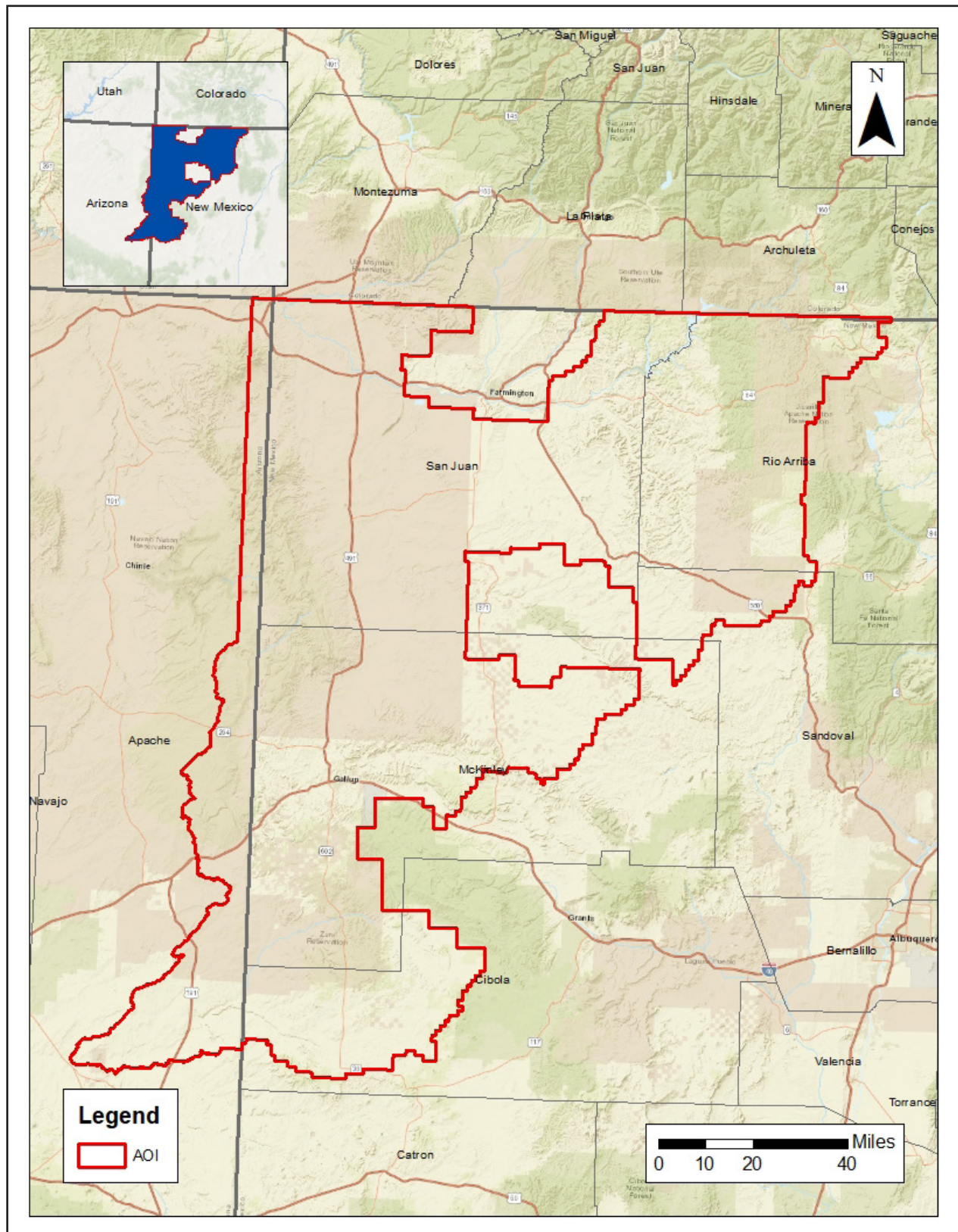
1.6. Deliverables

The following products were produced and delivered:

- Classified LiDAR point cloud data tiles in .LAS 1.4 format
- Continuous hydro-flattened breaklines in Esri file geodatabase format
- 1-meter hydro-flattened bare earth digital elevation model (DEM) tiles in ERDAS .IMG format
- 1-meter intensity imagery tiles in GeoTIFF format
- Tile index in Esri shapefile format
- Calibration and QC checkpoints (NVA/VVA) in Esri shapefile format
- FOCUS report in .PDF format
- FOCUS on Deliverables report in .PDF format
- FOCUS on Accuracy report in .PDF format
- Project-, deliverable-, and lift-level metadata in .XML format

All geospatial deliverables were produced with a horizontal datum/projection of NAD 1983(2011) UTM Zone 12N/13N as appropriate and a vertical datum/projection of NAVD88 GEOID 12B. All tiled deliverables have a tile size of 1500 m x 1500 m (Figure 5). Tile names are derived from the US National Grid.

Figure 1. Project Boundary



2. Planning / Equipment

2.1. Flight Planning

Flight planning was based on the unique project requirements and characteristics of the project site. The basis of planning included: required accuracies, type of development, amount / type of vegetation within project area, required data posting, and potential altitude restrictions for flights in project vicinity.

Detailed project flight planning calculations were performed for the project using RiPARAMETER planning software. The entire target area was comprised of 444 planned flight lines (Figure 2).

2.2. LiDAR Sensor

Quantum Spatial utilized a Riegl VQ1560i LiDAR sensor (Figure 3), serial numbers 546, 061, and 3543, during the project. The Riegl 1560i system has a laser pulse repetition rate of up to 2 MHz resulting in more than 1.3 million measurements per second. The system utilizes a Multi-Pulse in the Air option (MPIA). The sensor is also equipped with the ability to measure up to an unlimited number of targets per pulse from the laser.

A brief summary of the aerial acquisition parameters for the project are shown in the LiDAR System Specifications in Table 2.

Figure 2. Planned Flight Lines

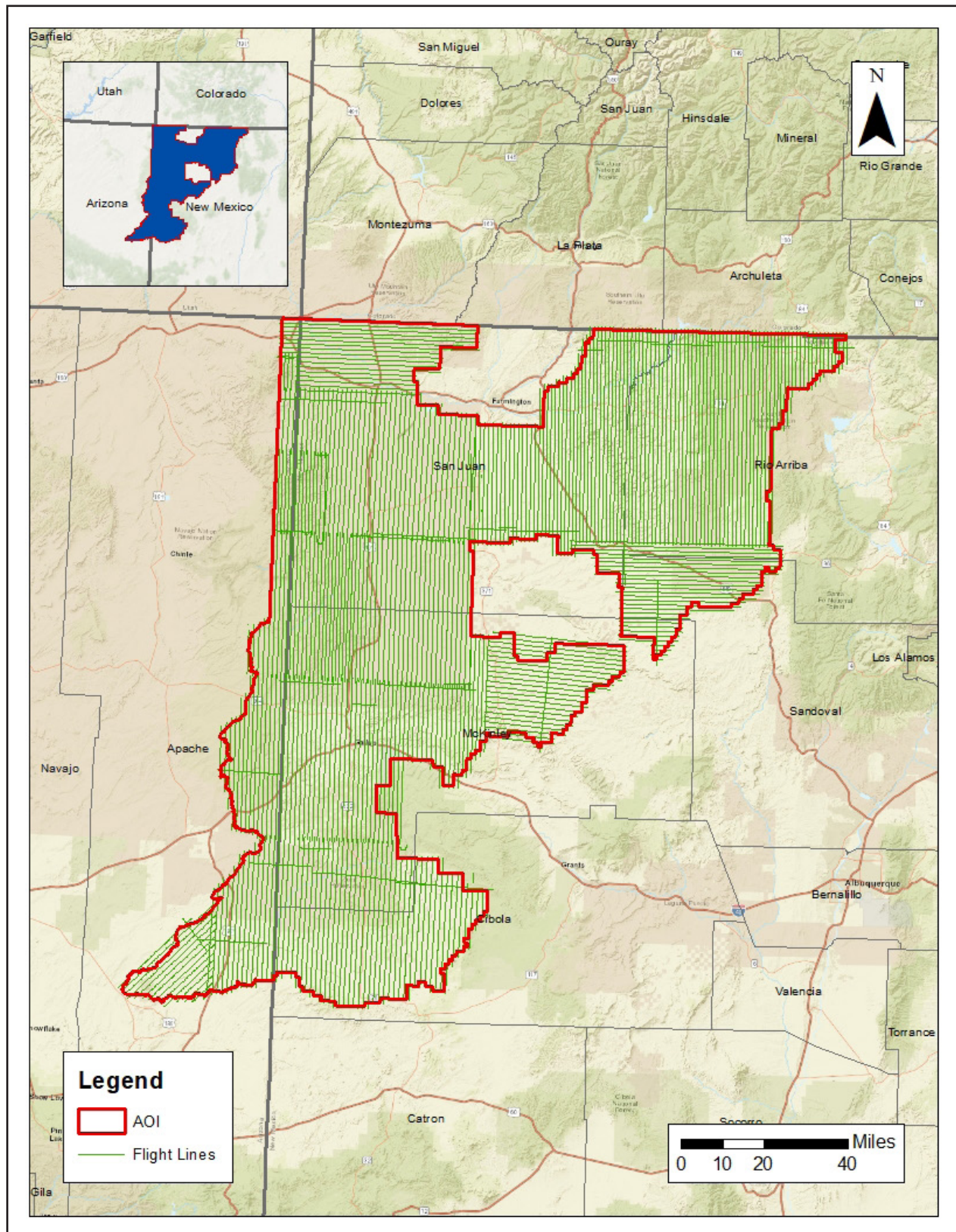


Table 2. LiDAR System Specifications

		Riegl VQ1560i
Terrain and Aircraft Scanner	Flying Height	2100 m
	Recommended Ground Speed	160 kts
Scanner	Field of View	60°
	Scan Rate Setting Used	169 Hz
Laser	Laser Pulse Rate Used	467 kHz
	Multi Pulse in Air Mode	yes
Coverage	Full Swath Width	2425 m
	Line Spacing	1940 m
Point Spacing and Density	Average Point Spacing	0.71 m
	Average Point Density	1.99 pts / m ²

Figure 3. Riegl VQ1560i LiDAR Sensor


2.3. Aircraft

All flights for the project were accomplished through the use of customized planes. Plane type and tail numbers are listed below.

LiDAR Collection Planes

- 1969 PIPER-PA31, Tail Number: C-FFRY
- 2004 CESSNA 208B, Tail Number: N704MD
- 1985 CESSNA 208, Tail Number: N840JA

These aircraft provided an ideal, stable aerial base for LiDAR acquisition. These aerial platforms have relatively fast cruise speeds, which are beneficial for project mobilization / demobilization while maintaining relatively slow stall speeds, proving ideal for collection of high-density, consistent data posting using a state-of-the-art Riegl VQ1560i LiDAR system. Some of Quantum Spatial's operating aircraft can be seen in Figure 4 below.

Figure 4. Some of Quantum Spatial's Planes



2.4. Time Period

Project specific flights were conducted between 14 November 2018 and 28 November 2018. 26 aircraft lifts were completed. Accomplished lifts are listed below.

- 20181114A (SN546, N840JA)
- 20181115A (SN3543-AI, C-FFRY)
- 20181115A (SN546, N840JA)
- 20181116A (SN546, N840JA)
- 20181117A (SN3543, C-FFRY)
- 20181117A (SN546, N840JA)
- 20181118A (SN3543-AI, C-FFRY)
- 20181118A (SN546, N840JA)
- 20181119A (SN546, N840JA)
- 20181120A (SN061, N704MD)
- 20181120A (SN3543-AI, C-FFRY)
- 20181120A (SN546, N840JA)
- 20181121A (SN061, N704MD)
- 20181121A (SN3543-AI, C-FFRY)
- 20181121A (SN546, N840JA)
- 20181122A (SN061, N704MD)
- 20181122A (SN546, N840JA)
- 20181123A (SN061, N704MD)
- 20181123A (SN546, N840JA)
- 20181124A (SN061, N704MD)
- 20181124A (SN546, N840JA)
- 20181125A (SN061, N704MD)
- 20181125A (SN3543-AI, C-FFRY)
- 20181126A (SN3543-AI, C-FFRY)
- 20181127A (SN3543-AI, C-FFRY)
- 20181128A (SN3543-AI, C-FFRY)

3. Processing Summary

3.1. LiDAR Processing

Applanix + POSPac Mobile Mapping Suite software was used for post-processing of airborne GPS and inertial data (IMU), which is critical to the positioning and orientation of the LiDAR sensor during all flights. POSPac combines aircraft raw trajectory data with stationary GPS base station data yielding a “Smoothed Best Estimate Trajectory (SBET)” necessary for additional post processing software to develop the resulting geo-referenced point cloud from the LiDAR missions.

During the sensor trajectory processing (combining GPS & IMU datasets) certain statistical graphs and tables are generated within the Applanix POSPac processing environment which are commonly used as indicators of processing stability and accuracy. This data for analysis include: Max horizontal / vertical GPS variance, separation plot, altitude plot, PDOP plot, base station baseline length, processing mode, number of satellite vehicles, and mission trajectory.

The generated point cloud is the mathematical three dimensional composite of all returns from all laser pulses as determined from the aerial mission. Laser point data are imported into TerraScan and a manual calibration is performed to assess the system offsets for pitch, roll, heading and scale. At this point this data is ready for analysis, classification, and filtering to generate a bare earth surface model in which the above-ground features are removed from the data set. Point clouds were created using the RiPROCESS software. GeoCue distributive processing software was used in the creation of some files needed in downstream processing, as well as in the tiling of the dataset into more manageable file sizes. TerraScan and TerraModeler software packages were then used for the automated data classification, manual cleanup, and bare earth generation. Project specific macros were developed to classify the ground and remove side overlap between parallel flight lines.

All data was manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper was used as a final check of the bare earth dataset. GeoCue was used to create the deliverable industry-standard LAS files for both the All Point Cloud Data and the Bare Earth. In-house software was then used to perform a final statistical analysis of the classes in the LAS files.

3.2. LAS Classification Scheme

The classification classes are determined by the USGS Version 1.3 specifications and are an industry standard for the classification of LIDAR point clouds. All data starts the process as Class 1 (Unclassified), and then through automated classification routines, the classifications are determined using TerraScan macro processing.

The classes used in the dataset are as follows and have the following descriptions:

- Class 1 – Processed, but Unclassified – These points would be the catch all for points that do not fit any of the other deliverable classes. This would cover features such as vegetation, cars, etc.
- Class 2 – Bare-Earth Ground – This is the bare earth surface
- Class 7 – Low Noise – Low points, manually identified below the surface that could be noise points in point cloud.
- Class 9 – Water – Points found inside of inland lake/ponds
- Class 17 – Bridge Decks – Points falling on bridge decks.
- Class 18 – High Noise – High points, manually identified above the surface that could be noise points in point cloud.
- Class 20 – Ignored Ground – Points found to be close to breakline features. Points are moved to this class from the Class 2 dataset. This class is ignored during the DEM creation process in order to provide smooth transition between the ground surface and hydro flattened surface.
- Class 21 – Snow – If present and identifiable
- Class 22 – Temporal Exclusion – Typically non-favored data in intertidal zones

3.3. Classified LAS Processing

The bare earth surface is then manually reviewed to ensure correct classification on the Class 2 (Ground) points. After the bare- earth surface is finalized; it is then used to generate all hydro-breaklines through heads-up digitization.

All ground (ASPRS Class 2) LiDAR data inside of the Lake Pond and Double Line Drain hydro flattening breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature to classify these ground (ASPRS Class 2) points to Ignored ground (ASPRS Class 20). All Lake Pond Island and Double Line Drain Island features were checked to ensure that the ground (ASPRS Class 2) points were reclassified to the correct classification after the automated classification was completed.

All overlap data was processed through automated functionality provided by TerraScan to classify the overlapping flight line data to approved classes by USGS. The overlap data was identified using the Overlap Flag, per LAS 1.4 specifications.

All data was manually reviewed and any remaining artifacts removed using functionality provided by TerraScan and TerraModeler. Global Mapper is used as a final check of the bare earth dataset. GeoCue was then used to create the deliverable industry-standard LAS files for all point cloud

data. Quantum Spatial's proprietary software was used to perform final statistical analysis of the classes in the LAS files, on a per tile level to verify final classification metrics and full LAS header information.

3.4. Hydro-Flattened Breakline Processing

Class 2 LiDAR was used to create a bare earth surface model. The surface model was then used to heads-up digitize 2D breaklines of Inland Streams and Rivers with a 100 foot nominal width and Inland Ponds and Lakes of 2 acres or greater surface area.

Elevation values were assigned to all Inland Ponds and Lakes, Inland Pond and Lake Islands, Inland Streams and Rivers and Inland Stream and River Islands using TerraModeler functionality.

Elevation values were assigned to all Inland streams and rivers using Quantum Spatial's proprietary software.

All ground (ASPRS Class 2) LiDAR data inside of the collected inland breaklines were then classified to water (ASPRS Class 9) using TerraScan macro functionality. A buffer of 3 feet was also used around each hydro flattened feature. These points were moved from ground (ASPRS Class 2) to Ignored Ground (ASPRS Class 20).

The breakline files were then translated to Esri file geodatabase format using Esri conversion tools.

Breaklines are reviewed against lidar intensity imagery to verify completeness of capture. All breaklines are then compared to TINs (triangular irregular networks) created from ground only points prior to water classification. The horizontal placement of breaklines is compared to terrain features and the breakline elevations are compared to lidar elevations to ensure all breaklines match the lidar within acceptable tolerances. Some deviation is expected between breakline and lidar elevations due to monotonicity, connectivity, and flattening rules that are enforced on the breaklines. Once completeness, horizontal placement, and vertical variance is reviewed, all breaklines are reviewed for topological consistency and data integrity using a combination of Esri Data Reviewer tools and proprietary tools.

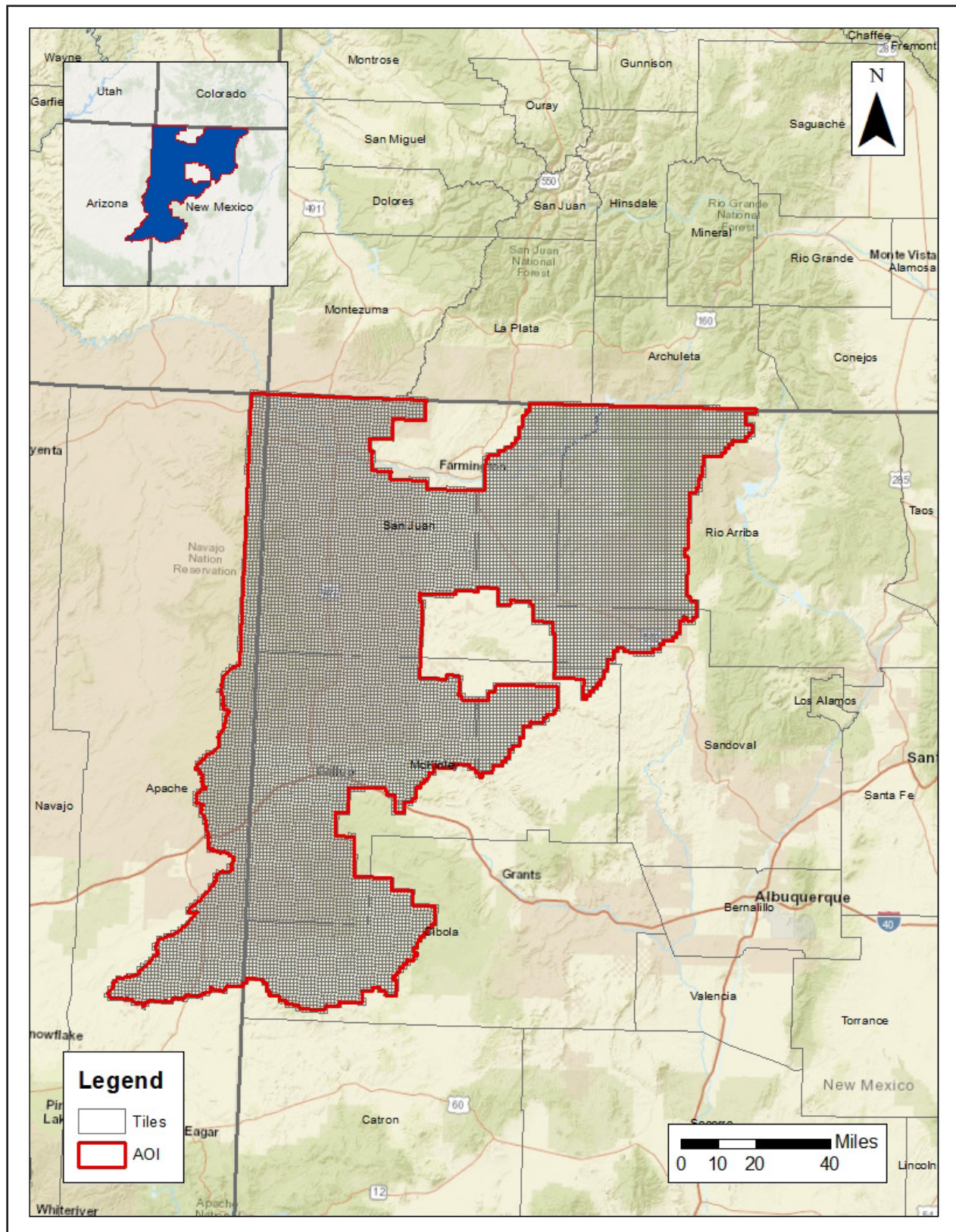
3.5. Hydro-Flattened Raster DEM Processing

Class 2 LiDAR in conjunction with the hydro breaklines were used to create a 1-meter Raster DEM. Using automated scripting routines within ArcMap, a GeoTIFF file was created for each tile. Each surface is reviewed using Global Mapper to check for any surface anomalies or incorrect elevations found within the surface.

3.6. Intensity Image Processing

GeoCue software was used to create the deliverable intensity images. All overlap classes were ignored during this process. This helps to ensure a more aesthetically pleasing image. The GeoCue software was then used to verify full project coverage as well. GeoTIFF files with a cell size of 1 meter were then provided as the deliverable for this dataset requirement.

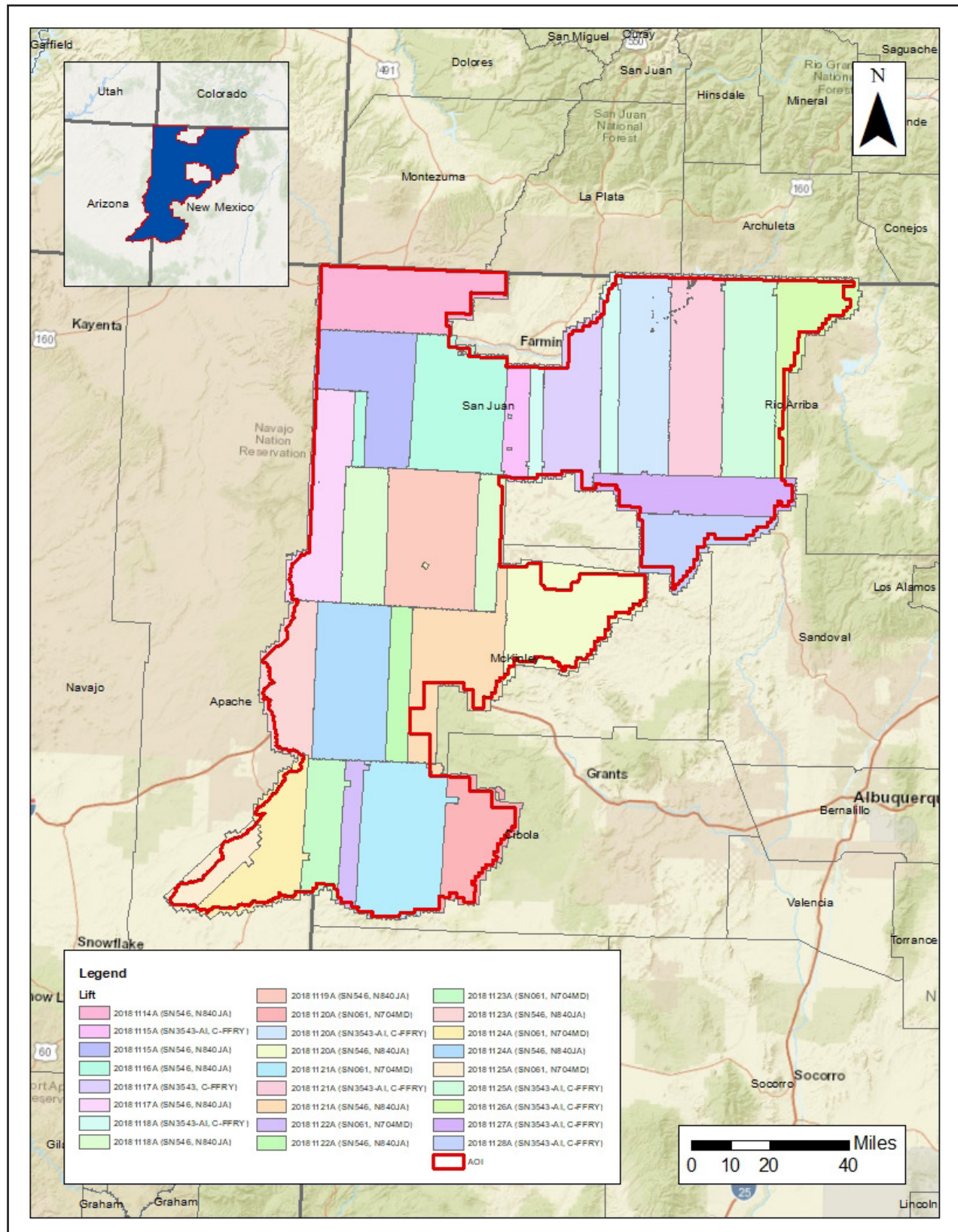
Figure 5. LiDAR Tile Layout



4. Project Coverage Verification

Coverage verification was performed by comparing coverage of processed .LAS files captured during project collection to generate project shape files depicting boundaries of specified project areas. Please refer to Figure 6.

Figure 6. LiDAR Flightline Coverage



5. Ground Control and Check Point Collection

As an independent test of the accuracy of this project, Quantum Spatial completed a field survey of 200 (UTM Zone 12N) and 102 (UTM Zone 13N) ground control (calibration) points along with 305 (UTM Zone 12N) and 127 (UTM Zone 13N) blind QA points in Non-Vegetated and Vegetated land cover classifications, for a total of 505 (UTM Zone 12N) and 229 (UTM Zone 13N) points.

A combination of precise GPS surveying methods, including static and RTK observations were used to establish the 3D position of ground calibration points and QA points for the point classes above. GPS was not an appropriate methodology for surveying in the forested areas during the leaf-on conditions for the actual field survey (which was accomplished after the LiDAR acquisition). Therefore the 3D positions for the forested points were acquired using a GPS-derived offset point located out in the open near the forested area, and using precise offset surveying techniques to derive the 3D position of the forested point from the open control point. The explicit goal for these surveys was to develop 3D positions that were three times greater than the accuracy requirement for the elevation surface. In this case of the blind QA points the goal was a positional accuracy of 5 cm in terms of the RMSE.

For more information, see the Survey Report in Appendix A.

The required accuracy testing was performed on the LiDAR dataset (both the LiDAR point cloud and derived DEM's) according to the USGS LiDAR Base Specification Version 1.3 (2014).

5.1. Calibration Control Point Testing

Figure 7 shows the location of each bare earth calibration point for the project area. TerraScan was used to perform a quality assurance check using the LiDAR bare earth calibration points. The results of the surface calibration are not an independent assessment of the accuracy of these project deliverables, but the statistical results do provide additional feedback as to the overall quality of the elevation surface.

5.2. Point Cloud Testing

The project specifications require that only Non-Vegetated Vertical Accuracy (NVA) be computed for raw lidar point cloud swath files. The required accuracy (ACCz) is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. The NVA was tested with 173 checkpoints (UTM Zone12N) and 79 checkpoints (UTM Zone13N) located in bare earth and urban (non-vegetated) areas. These check points were not used in the calibration or post processing of the lidar point cloud data. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See survey report for additional survey methodologies.

Elevations from the unclassified lidar surface were measured for the x,y location of each check point. Elevations interpolated from the lidar surface were then compared to the elevation values

of the surveyed control points. AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASRPS Guidelines.

5.3. Digital Elevation Model (DEM) Testing

The project specifications require the accuracy (ACCz) of the derived DEM be calculated and reported in two ways:

1. The required NVA is: 19.6 cm at a 95% confidence level, derived according to NSSDA, i.e., based on RMSE of 10 cm in the “bare earth” and “urban” land cover classes. This is a required accuracy. The NVA was tested with #NVAPTS# checkpoints located in bare earth and urban (non-vegetated) areas. See Figure 8.
2. Vegetated Vertical Accuracy (VVA): VVA shall be reported for “brushlands/low trees” and “tall weeds/crops” land cover classes. The target VVA is: 29.4 cm at the 95th percentile, derived according to ASPRS Guidelines, Vertical Accuracy Reporting for Lidar Data, i.e., based on the 95th percentile error in all vegetated land cover classes combined. This is a target accuracy. The VVA was tested with 132 checkpoints (UTM Zone12N) and 48 checkpoints (UTM Zone13N) located in tall weeds/crops and brushlands/low trees (vegetated) areas. The checkpoints were distributed throughout the project area and were surveyed using GPS techniques. See Figure 9.

AccuracyZ has been tested to meet 19.6 cm or better Non-Vegetated Vertical Accuracy at 95% confidence level using $RMSE(z) \times 1.9600$ as defined by the National Standards for Spatial Data Accuracy (NSSDA); assessed and reported using National Digital Elevation Program (NDEP)/ASRPS Guidelines.

A brief summary of results are listed below.

		Target	Measured	Point Count
UTM Zone12N	Calibration	N/A	N/A	200
	Raw NVA	0.196	0.062	173
	NVA	0.196	0.061	173
	VVA	0.294	0.177	132

		Target	Measured	Point Count
UTM Zone13N	Calibration	N/A	N/A	102
	Raw NVA	0.196	0.060	69
	NVA	0.196	0.063	79
	VVA	0.294	0.229	48

Figure 7. Calibration Control Point Locations

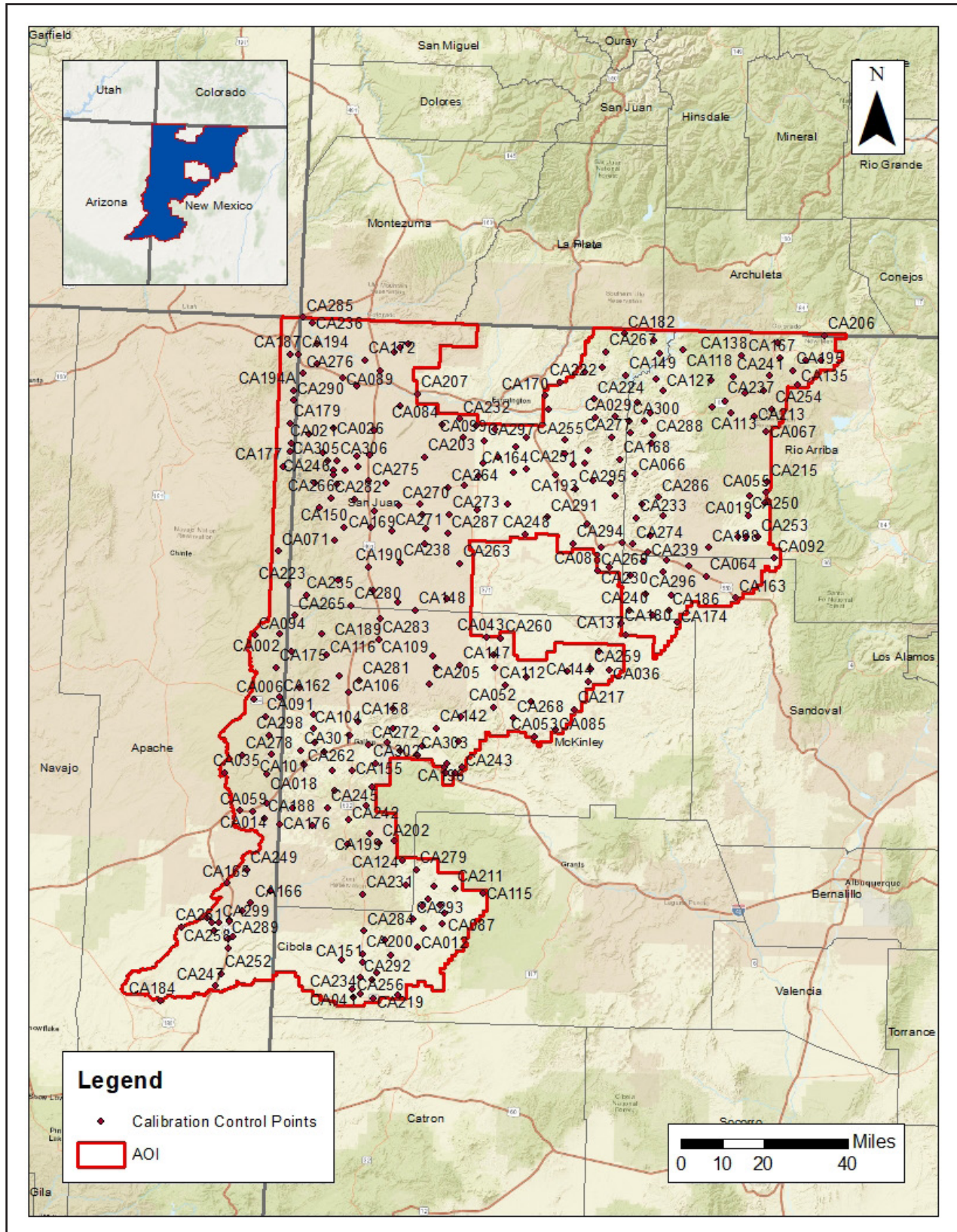


Figure 8. QC Checkpoint Locations - NVA

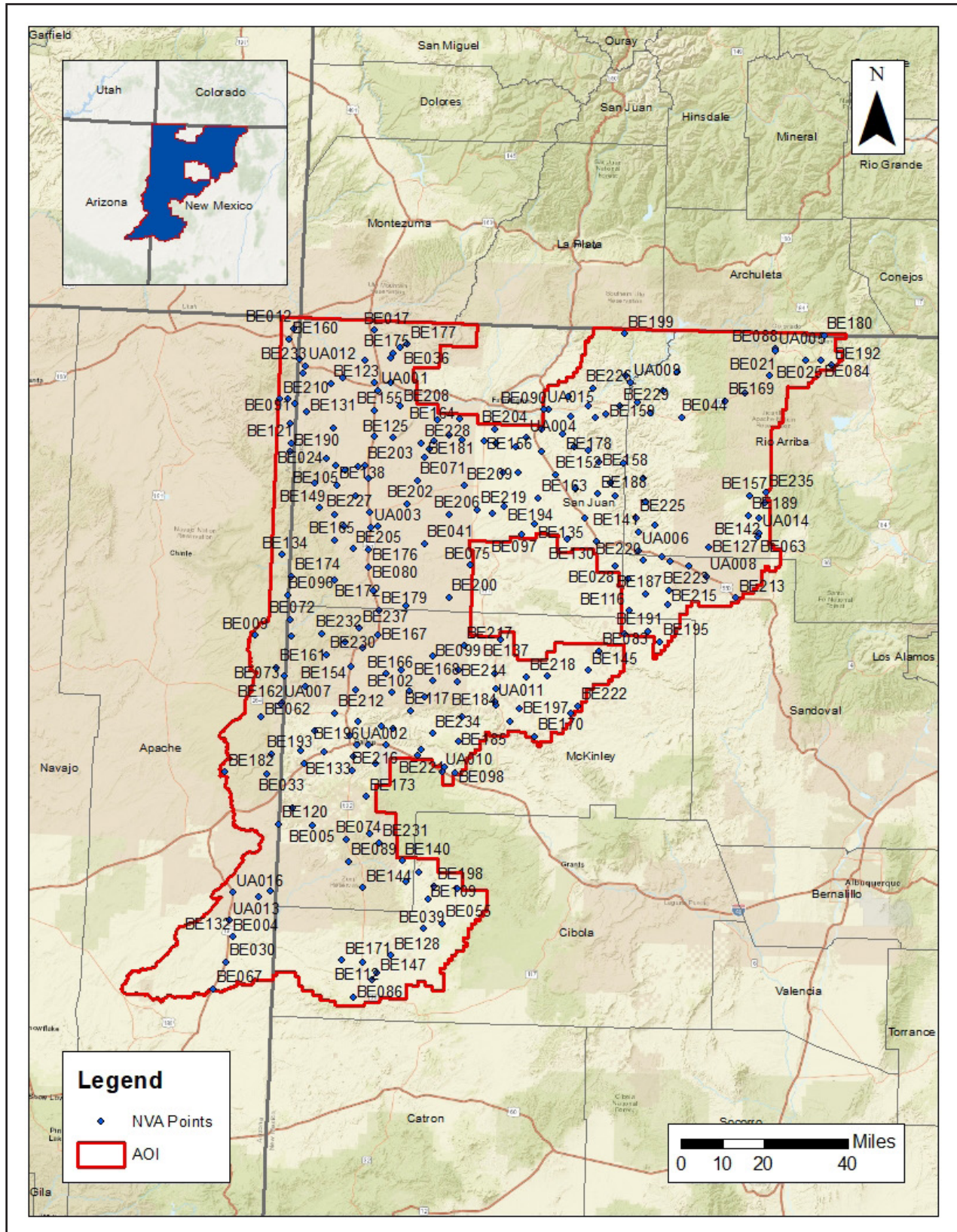
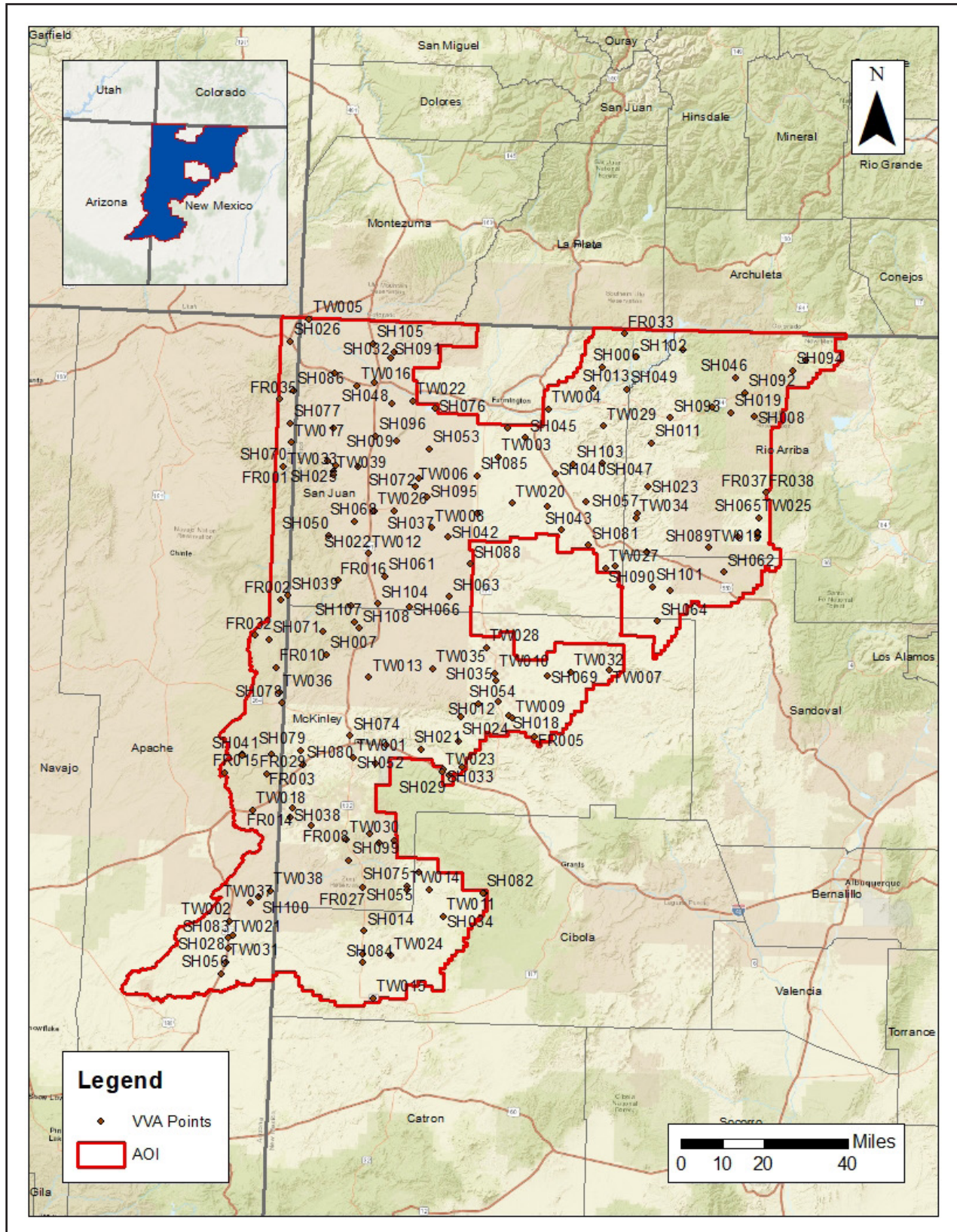


Figure 9. QC Checkpoint Locations - VVA



Project Report Appendix

The following section contains Appendix A as listed in the Northwestern New Mexico LiDAR Project Report.

Appendix A

Survey Report



August 11, 2019

Survey Report of
LiDAR Calibration & Quality Control Points

USGS Contract: G16PC00016

Project: 140G0219F0005-
NM_NorthWest_2018_D19

USGS Task Order: 140G0219F0005-
NM_NorthWest_2018_D19

Presented to:



Presented By:





CONTENTS OF REPORT

PROJECT PROCEDURE SUMMARY.....	1
AREA OF INTEREST & POINT LOCATION MAPS.....	5
• CALIBRATION POINTS.....	6
• NVA - BARE EARTH POINTS.....	7
• NVA - URBAN AREA POINTS.....	8
• VVA - TALL WEED POINTS.....	9
• VVA - SHRUB POINTS.....	10
• VVA - FOREST POINTS.....	11
FINAL POINT COORDINATES.....	12
• CALIBRATION POINTS.....	13
• NVA - BARE EARTH POINTS.....	21
• NVA - URBAN AREA POINTS.....	28
• VVA - TALL WEED POINTS.....	29
• VVA - SHRUB POINTS.....	31
• VVA - FOREST POINTS.....	34
POINT LOCATION & ACCURACY DATA SHEETS.....	36
• CALIBRATION POINTS.....	37
• NVA - BARE EARTH POINTS.....	347



- **NVA - URBAN AREA POINTS.....586**
- **VVA - TALL WEED POINTS.....603**
- **VVA - SHRUB POINTS.....643**
- **VVA - FOREST POINTS.....752**

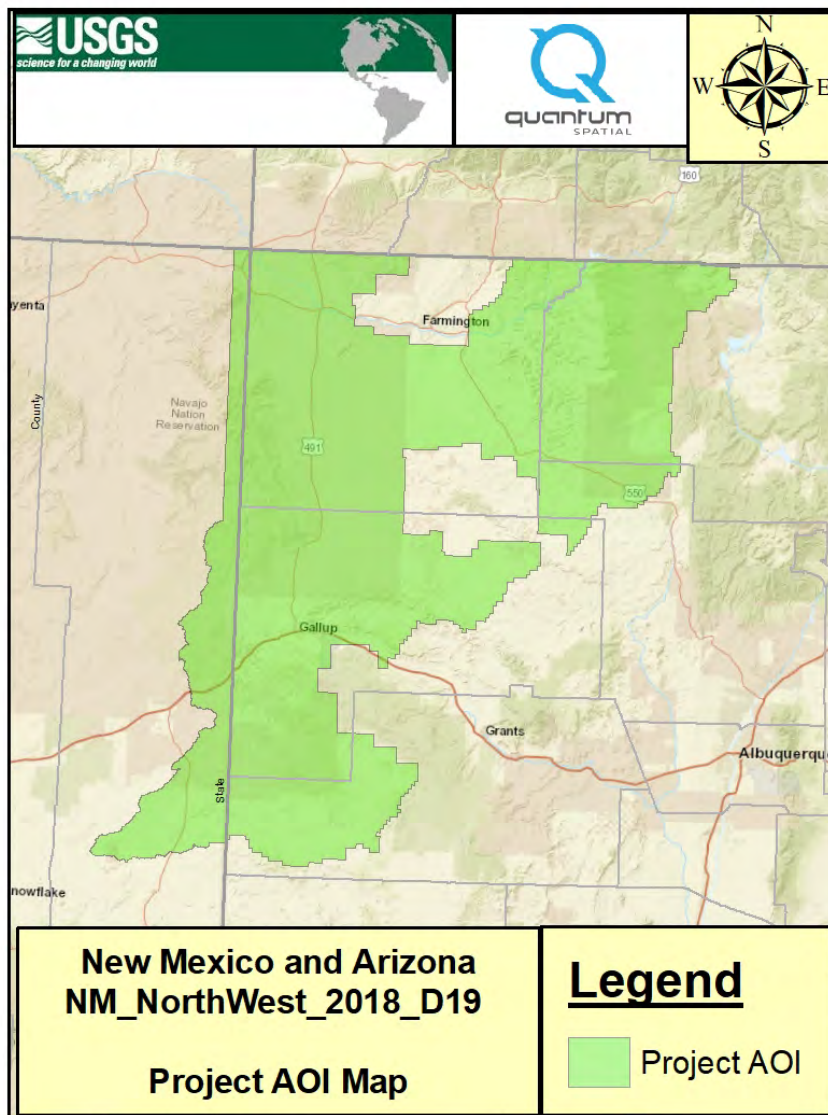


Introduction

Quantum Spatial, Inc. was contracted by USGS under task order 140G0219F0005 to survey LiDAR calibration and quality control points in support of NM_NorthWest_2018_D19 which encompassed the counties of San Juan, Rio Arriba, Sandoval, McKinley, Cibola, and Apache counties in the project area. 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, consist of approximately 12,655 square miles.





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 the total number of checkpoints required for the entire north and south project areas. It was determined that 254 Non-Vegetated Vertical Assessment (NVA) and 183 Vegetated Vertical Assessment (VVA) points are required for this southern 5 county 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:

<u>NVA Class</u>	<u># of Points</u>	<u>VVA Class</u>	<u># of Points</u>
Bare Earth	238	Forested	36
Urban Area	16	Tall Weed	39
		Shrub	108

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.

This project is located within Tribal Nations therefore permission was obtained to acquire LiDAR collection and perform ground survey in these areas of the project.

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 are better than 3 centimeters RMSE, both horizontally and vertically, and that VVA points be better than 5 centimeters RMSE, 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.



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: November 21, 2018 – April 26, 2019

Equipment Used:

Field crews used Trimble R6, R7, and R8 dual frequency GNSS receivers as base stations and rovers, as well as Trimble M3 and Nikon NPL series Total Stations.

GNSS Methodology:

A combination of fast static and RTK GPS surveying methods were used during this project. Temporary marks were established and used as base stations for RTK and airborne surveys. The fast static GPS method consisted of collecting a minimum 15 minutes of static data. The data was downloaded and baselines processed to NGS CORS and virtual Trimble VRSNow base stations. The network was adjusted holding the CORS as control.

A total station was used to determine the positions of VVA-Forest points under the tree canopy. After backsight and instrument station positions were established with GNSS observations in open areas, a total station was used to observe the foresighted Forest point.

All the GNSS and conventional information was downloaded, processed and analyzed using Trimble Business Center processing software. A network was formed and adjusted.

Overall Project Accuracy Statement

All point coordinates have been reported in the North American Datum of 1983 (NAD83 2011). Universal Transverse Mercator Zone 13 (UTM13) coordinates in meters horizontally. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 12B model and are reported in meters.



Calibration Points

Average Horizontal RMSE is 0.013 meter.

Average Elevation RMSE is 0.018 meter.

Average 3 dimensional RMSE is 0.022 meter.

NVA Points

Average Horizontal RMSE is 0.013 meter.

Average Elevation RMSE is 0.018 meter.

Average 3 dimensional RMSE is 0.022 meter.

VVA Points

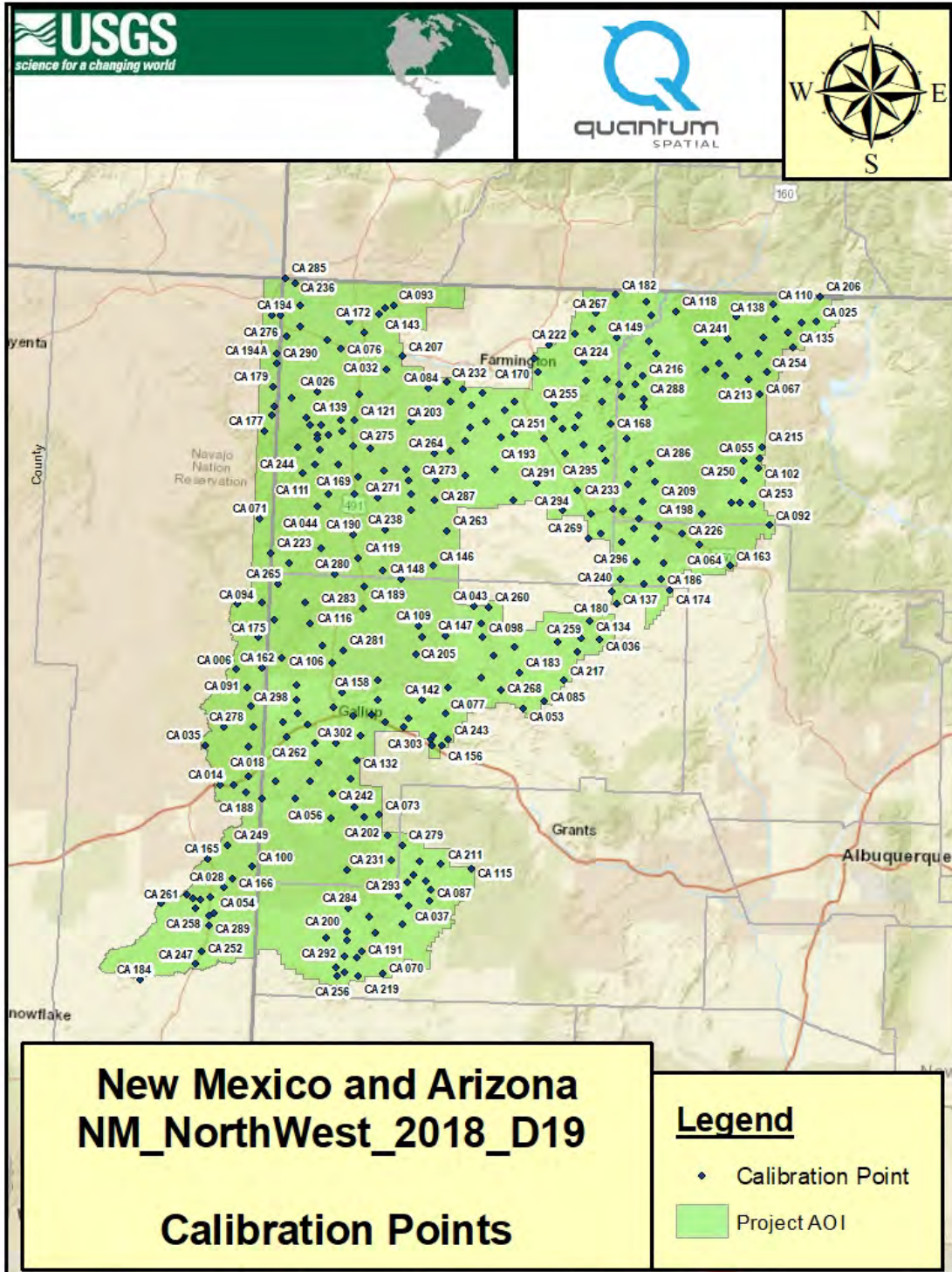
Average Horizontal RMSE is 0.015 meter.

Average Elevation RMSE is 0.019 meter.

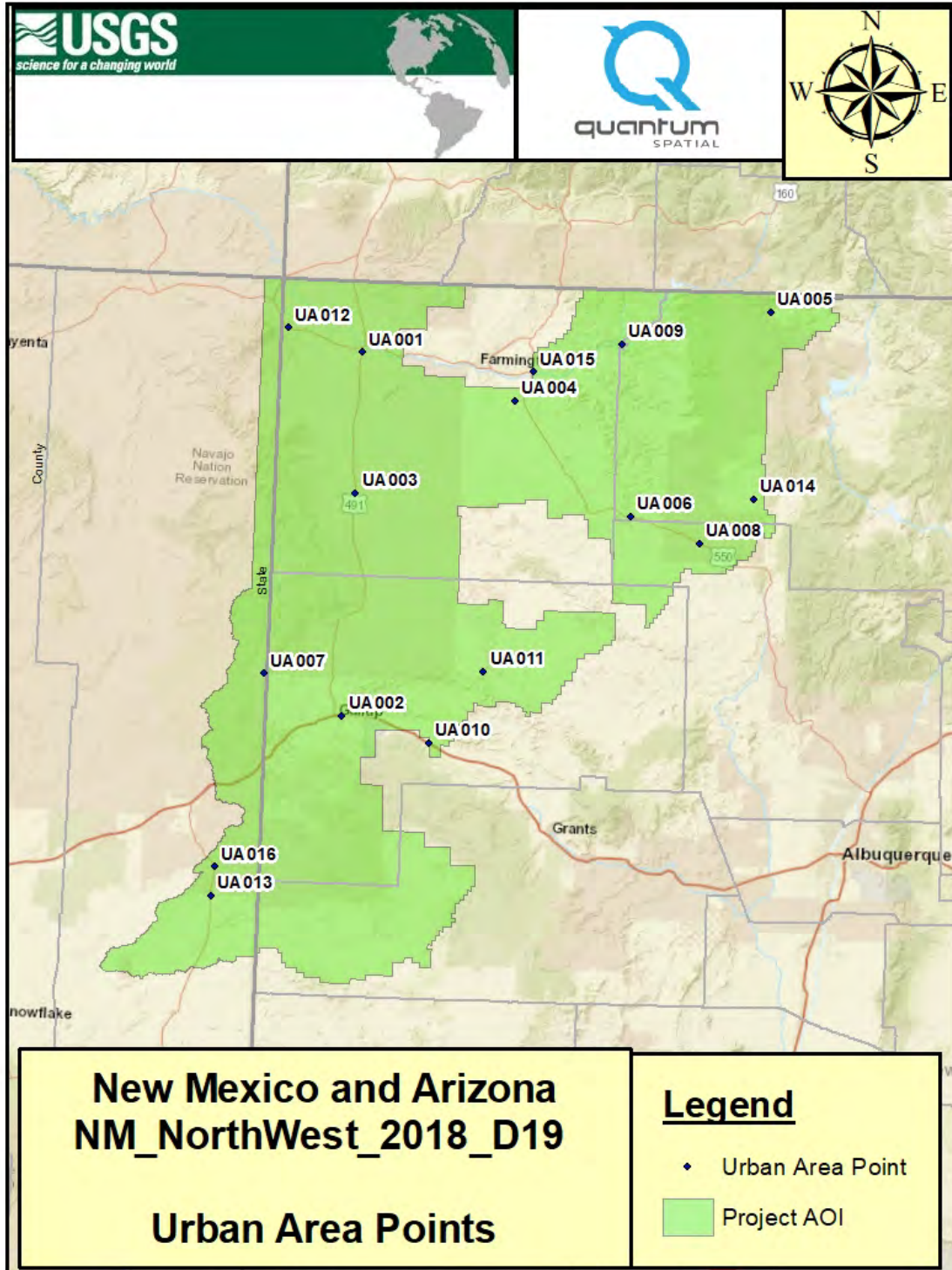
Average 3 dimensional RMSE is 0.024 meter.

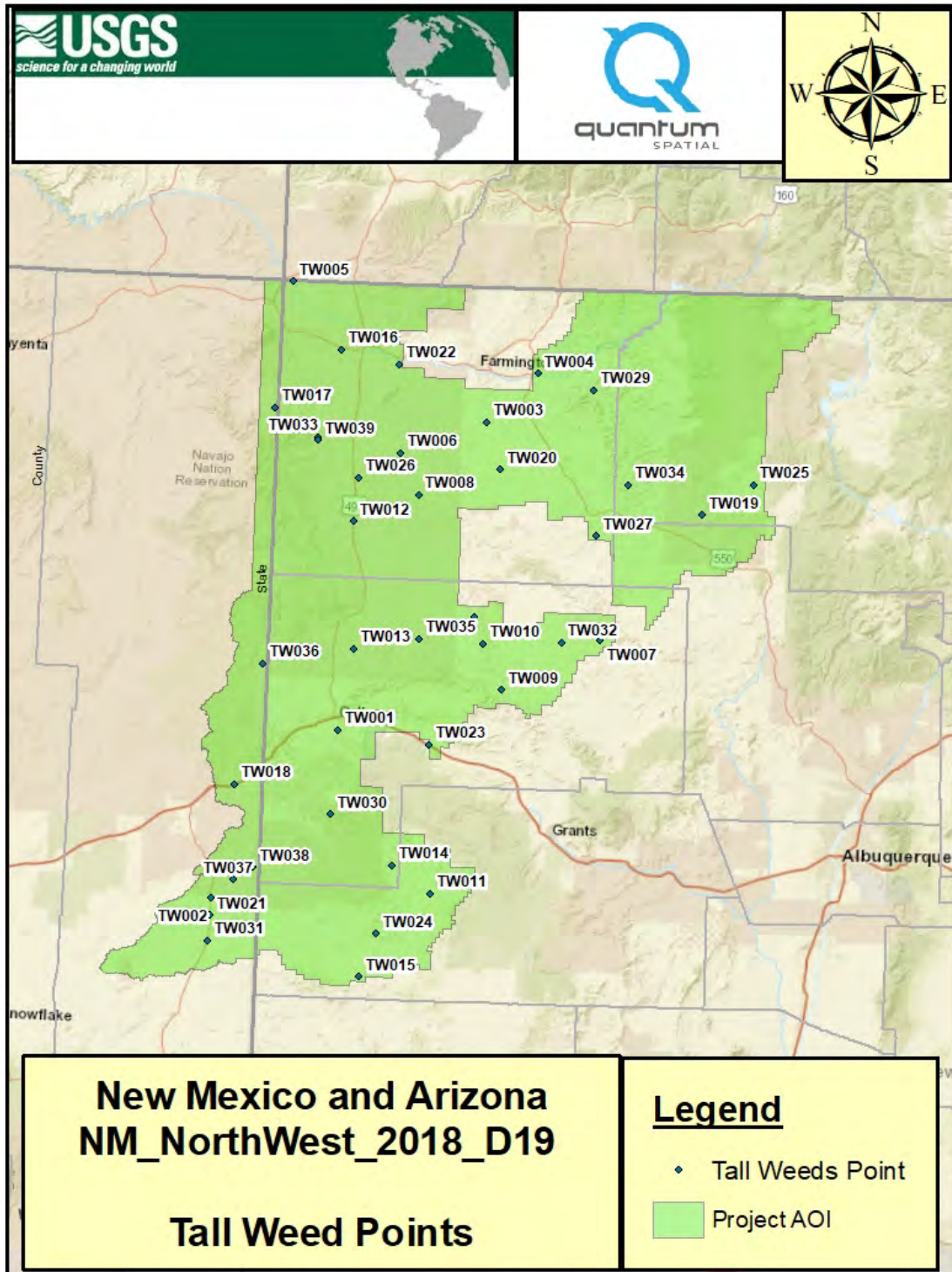


PROJECT AOI & POINT LOCATION MAPS

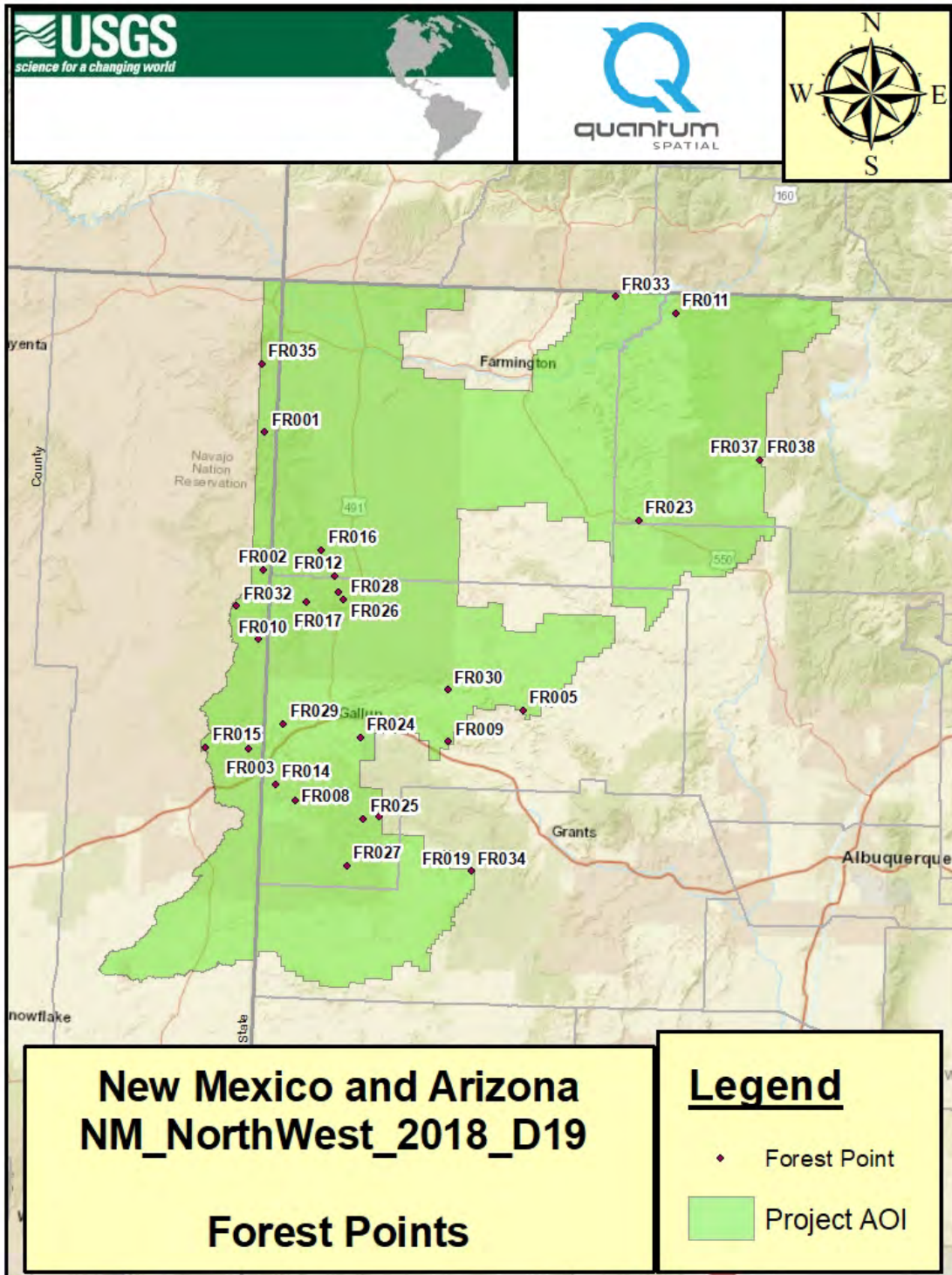














FINAL POINT COORDINATES



CALIBRATION POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA001	4057449.918	143535.506	1854.353
CA002	3980719.404	132312.110	2248.771
CA003	3974158.213	136826.317	2138.759
CA004	3915541.131	127027.665	1869.475
CA005	4032345.509	160946.237	1763.048
CA006	3955627.487	122367.679	2305.822
CA007	4069578.938	269580.263	1866.667
CA008	3855183.578	156092.987	2057.744
CA009	3899956.487	158118.136	2080.657
CA010	4046299.603	249715.870	1989.900
CA011	4064331.172	261425.404	1957.122
CA012	3860232.907	185087.474	2256.689
CA013	4058773.575	168678.607	1622.314
CA014	3912619.605	116750.444	1827.250
CA015	4018497.998	274877.585	2029.142
CA016	3960138.421	139835.314	2219.715
CA017	3967641.842	192504.701	1917.754
CA018	3926795.204	127096.757	2027.470
CA019	4033743.685	312872.583	2237.628
CA020	4092098.562	146609.349	1510.096
CA021	4054214.978	136798.612	1834.408
CA022	4081806.556	170721.049	1516.858
CA023	4066969.405	235631.229	1668.431
CA024	3995375.038	282760.066	2146.358
CA024B	3869156.985	194855.374	2229.460
CA025	4085969.219	340289.075	2286.860
CA026	4059730.852	153006.509	1679.934
CA027	4088414.091	278134.292	1931.295
CA028	3874106.749	117815.836	1946.474
CA029	4063903.870	253608.361	1720.887



CA030	3964658.085	154913.993	1926.224
CA031	4060670.421	207605.281	1784.260
CA032	4068229.265	178702.492	1583.271
CA033	4073337.672	311151.487	2180.027
CA034	4030825.136	271628.720	2071.906
CA035	3927356.338	111206.583	2143.715
CA036	3966796.150	259010.893	2078.663
CA037	3867329.590	187329.054	2265.726
CA038	4054111.744	275275.393	1874.330
CA039	4030768.075	186086.604	1655.413
CA040	3939093.582	145736.820	1998.290
CA041	3844152.989	159853.484	2116.998
CA042	4030823.119	219778.215	1933.278
CA043	3979494.714	211641.204	1899.189
CA044	4016620.627	153223.059	1926.020
CA045	3951786.560	175754.930	2124.208
CA046	3964156.251	227176.237	1968.190
CA047	3966115.610	242902.901	2047.514
CA048	4048701.535	216374.651	1816.105
CA049	3972715.742	214475.737	1974.427
CA050	4078455.483	297906.756	2274.809
CA051	3935217.052	149273.611	1951.068
CA052	3952440.524	214454.922	2131.813
CA053	3941239.811	230143.794	2319.481
CA054	3864470.504	114096.285	1945.382
CA055	4034963.300	319078.354	2378.764
CA056	3907148.244	144606.829	2087.384
CA057	4038040.355	153989.996	1801.096
CA058	3883716.987	191496.673	2175.728
CA059	3912513.231	121746.285	1854.228
CA060	4067965.728	298380.662	2081.293
CA061	4008662.725	271832.588	2199.202
CA062	3948778.420	202056.021	2254.534
CA063	3980822.163	148518.016	2388.743
CA064	4002693.136	296240.557	2087.190
CA065	4003268.609	267041.351	2073.213
CA066	4042316.145	268934.048	1853.633
CA067	4058702.327	319043.611	2266.609
CA068	4090980.453	178484.501	1604.171
CA069	3938735.384	173527.429	2041.660
CA070	3841776.281	177408.472	2214.671



CA071	4012412.834	131514.966	2254.766
CA072	4001317.110	154589.619	2413.374
CA073	3901131.535	176073.451	2149.957
CA074	3856902.176	174902.282	2174.874
CA075	4070343.633	303451.262	2130.637
CA076	4076038.514	162029.374	1610.952
CA077	3939363.599	200867.766	2262.146
CA078	4042600.079	222015.731	1860.758
CA079	3949779.258	145071.054	2041.396
CA080	3914611.998	165461.592	2222.221
CA081	4083312.211	256140.638	1819.542
CA082	3928238.193	152190.160	2006.541
CA083	3929592.029	195585.191	2153.432
CA084	4061136.247	194690.798	1686.444
CA085	3943902.823	238235.804	2230.853
CA086	4093650.864	276202.465	1972.236
CA087	3873182.728	195433.605	2206.784
CA088	4014074.306	255674.779	2070.639
CA089	4079338.404	156558.056	1555.826
CA090	4028429.787	208238.180	1872.835
CA091	3948927.292	126705.941	2090.187
CA092	4009763.687	322485.931	2256.315
CA093	4092129.604	181458.221	1630.025
CA094	3980157.710	122838.309	2382.312
CA095	4046402.144	210402.877	1891.924
CA096	3927006.505	195885.172	2180.688
CA097	3878648.670	189130.655	2171.940
CA098	3967723.186	214972.234	2012.285
CA099	4056079.282	202716.568	1768.318
CA100	3881784.712	128642.690	1948.178
CA101	3934314.051	129019.969	2039.106
CA102	4031208.690	318578.936	2236.346
CA103	3847717.924	167654.445	2123.693
CA104	3944131.439	145351.052	1997.212
CA105	4015474.172	188047.897	1722.212
CA106	3958312.798	158514.269	1940.668
CA107	4057855.727	267221.182	1817.416
CA108	3987754.019	275541.550	2081.582
CA109	3972159.879	190869.781	1879.117
CA110	4092474.283	323865.904	2080.452
CA111	4029234.863	147640.952	2083.055



CA112	3960927.615	219149.236	2018.006
CA113	4065807.746	305878.786	2090.507
CA114	4078901.634	277102.488	1918.766
CA115	3880866.410	210590.381	2329.158
CA116	3972770.327	150221.339	2113.247
CA117	4084440.986	146545.086	1579.802
CA118	4089990.174	287346.180	1968.748
CA119	3997448.816	168281.759	1794.259
CA120	4021632.658	167061.998	1693.195
CA121	4049340.588	166771.982	1646.912
CA122	4051084.155	250825.495	1876.442
CA123	4009191.586	281193.983	2108.131
CA124	3893388.395	179248.252	2108.612
CA125	4085735.677	334553.064	2234.199
CA126	4021281.484	188334.138	1704.393
CA127	4074057.302	279854.765	1922.740
CA128	4018079.763	308270.895	2193.213
CA129	3992656.965	177421.184	1746.039
CA130	3941525.652	159034.296	2018.711
CA131	4004596.102	279583.673	2173.386
CA132	3921742.996	167680.313	2303.450
CA133	3935772.902	178459.535	2053.405
CA134	3973899.108	255107.108	2053.869
CA135	4076587.556	331533.934	2326.501
CA136	4038699.482	259565.951	1978.993
CA137	3980189.469	265411.686	2019.113
CA138	4087811.708	309997.899	2184.203
CA139	4050217.145	148910.526	1841.888
CA140	3875760.328	186944.264	2203.544
CA141	4015963.517	263777.582	2117.940
CA142	3944283.131	192298.218	2159.914
CA143	4088887.129	176041.892	1573.528
CA144	3962453.908	250693.188	2083.843
CA145	4038740.841	173056.816	1665.714
CA146	3994418.236	196581.961	1787.281
CA147	3968506.524	201253.385	1962.138
CA148	3989681.515	184517.401	1747.452
CA149	4080022.173	265220.129	1950.454
CA150	4021640.221	157033.022	1828.408
CA151	3854187.897	164062.726	2151.372
CA152	4056120.335	226838.648	1853.497



CA153	4050877.888	136101.085	1933.101
CA154	3913580.150	137298.204	2140.707
CA155	3928263.818	160009.091	2042.218
CA156	3927363.158	199827.013	2214.691
CA157	4043472.439	157217.830	1796.752
CA158	3946980.019	162425.608	2092.625
CA159	4062600.350	272242.234	2034.152
CA160	4033852.629	261266.565	2028.836
CA161	3863000.174	172573.456	2144.455
CA162	3956251.806	132289.384	2070.336
CA163	3994537.745	307632.148	2247.906
CA164	4052823.675	223097.472	1802.180
CA165	3884779.458	111858.67	1953.149
CA166	3877185.756	121152.861	1991.161
CA167	4086963.073	324789.155	2114.375
CA168	4047919.286	262857.308	1813.784
CA169	4028096.384	168466.278	1699.915
CA170	4072241.685	234141.512	1745.674
CA171	3871389.017	104128.343	1931.871
CA172	4085991.266	164909.262	1492.559
CA173	4059450.320	214843.384	1855.959
CA174	3985229.580	285248.936	2074.096
CA175	3967732.011	130937.983	2273.957
CA176	3907352.567	132338.203	2058.167
CA177	4045194.945	133351.458	2314.041
CA178	4018032.842	311469.830	2153.097
CA179	4061638.086	136202.843	1749.612
CA180	3984815.464	263384.014	2012.446
CA181	4041423.202	208410.396	1997.319
CA182	4096106.643	264794.728	2177.521
CA183	3954416.420	228877.621	2030.305
CA184	3839588.025	86316.022	1728.118
CA185	3920500.932	153358.830	2134.838
CA186	3989762.466	281909.582	2117.800
CA187	4088298.731	136021.784	1842.599
CA188	3909633.208	126202.872	1940.705
CA189	3986622.311	170702.015	1820.217
CA190	4006402.216	166349.482	1792.341
CA191	3850245.507	169665.344	2152.735
CA192	4037614.647	203103.214	1940.940
CA193	4042076.240	238115.909	2004.619



CA194	4088336.544	139402.548	1694.843
CA194A	4074306.720	137589.813	1865.521
CA195	4081825.560	329381.738	2257.518
CA196	3930788.490	196654.770	2175.535
CA197	4081256.631	249675.949	1914.299
CA198	4013826.576	297285.157	2196.179
CA199	3903984.924	166958.722	2095.613
CA200	3857473.792	163979.817	2093.920
CA201	3884227.930	180957.885	2146.514
CA202	3900376.402	170367.830	2110.760
CA203	4048557.363	188055.261	1637.166
CA204	4044927.778	162220.894	1772.761
CA205	3961225.055	189789.846	2049.644
CA206	4095361.246	341513.482	2387.633
CA207	4073075.853	185029.834	1532.379
CA208	3876457.059	193768.497	2179.404
CA209	4026026.315	279450.764	1947.266
CA210	4039713.984	252809.381	1962.395
CA211	3882874.525	199401.125	2223.974
CA212	3866431.885	107099.920	1841.278
CA213	4064470.682	314888.108	2154.949
CA214	4022784.548	250407.874	2063.150
CA215	4038995.232	319690.190	2271.099
CA216	4065783.917	274920.819	1900.421
CA217	3951517.234	245384.057	2158.296
CA218	4074297.672	318335.049	2284.199
CA219	3840621.555	168228.272	2158.563
CA220	4026586.127	187240.853	1682.637
CA221	4049246.943	161711.940	1709.356
CA222	4077498.604	240093.355	1948.321
CA223	3999439.135	135531.461	2225.759
CA224	4070950.106	252985.492	1717.575
CA225	3870432.512	112740.997	1895.145
CA226	4006607.122	289673.236	2053.167
CA226A	3870292.042	112670.154	1894.920
CA227	3937519.991	187138.138	2131.602
CA228	4049830.062	241681.444	1868.906
CA228A	4045991.774	244854.654	2006.340
CA229	3869695.736	106299.028	1879.332
CA230	4006558.858	259092.511	2097.559
CA231	3880574.362	164279.900	2186.623



CA232	4063360.056	201354.513	1705.368
CA233	4025282.973	269395.476	2151.217
CA234	3842366.302	162989.354	2135.127
CA235	3995557.922	142406.048	2307.265
CA236	4100374.054	144552.374	1427.441
CA237	4079947.100	320464.332	2187.733
CA238	4008093.636	178290.972	1726.299
CA239	4012004.062	273636.944	2110.810
CA240	3989724.710	266744.685	2088.127
CA241	4079579.446	306676.542	2231.927
CA242	3909043.728	158532.201	2171.362
CA243	3929327.579	202196.663	2313.764
CA244	4038784.637	145495.529	1933.376
CA245	3913876.948	150463.400	2159.810
CA246	4043501.534	152811.599	1857.641
CA247	3845299.852	107238.845	1742.882
CA248	4019035.544	226386.054	1881.381
CA249	3889994.194	119408.025	1976.798
CA250	4026286.912	312636.598	2156.933
CA251	4044070.533	226982.122	1852.019
CA252	3850044.919	109687.607	1742.347
CA253	4017806.987	315951.326	2205.787
CA254	4067020.310	321437.213	2217.818
CA255	4055186.142	241798.562	1850.989
CA256	3840886.812	160635.072	2178.495
CA257	3944267.915	175841.071	2075.815
CA258	3859728.756	112266.977	1821.939
CA259	3967161.511	251832.223	2031.571
CA260	3978955.778	217359.420	1893.496
CA261	3867898.756	94306.809	1972.426
CA262	3930550.287	141634.001	1918.870
CA263	4007773.593	201453.528	1807.549
CA264	4036840.382	196817.616	1801.246
CA265	3987730.528	138040.007	2225.471
CA266	4041987.268	153012.353	1882.817
CA267	4089131.272	257619.590	1868.938
CA268	3948120.207	221915.577	2151.080
CA269	4004886.985	254588.652	2066.154
CA270	4030240.052	178082.884	1653.404
CA271	4020199.686	175473.128	1699.860
CA272	3938045.926	166545.372	2002.001



CA273	4026652.379	197388.988	1800.725
CA274	4015153.701	267793.410	2205.358
CA275	4039396.723	166450.085	1694.289
CA276	4080780.089	141361.561	1717.445
CA277	4056180.981	259868.314	1771.298
CA278	3934149.630	117974.457	2178.033
CA279	3889989.790	184903.633	2162.106
CA280	3991519.790	159459.568	2344.464
CA281	3962825.146	162656.099	1895.388
CA282	4032670.438	152156.375	1852.512
CA283	3978432.445	170321.197	1829.652
CA284	3866290.344	164415.828	2164.079
CA285	4102385.911	141012.395	1420.972
CA286	4033132.868	277970.163	1909.504
CA287	4019261.873	196897.783	1735.519
CA288	4056921.081	275394.962	2013.431
CA289	3863434.017	112422.805	1917.896
CA290	4070483.667	137676.359	1749.217
CA291	4025558.823	235120.985	2046.587
CA292	3848409.198	163109.536	2115.537
CA293	3870815.263	183393.426	2232.665
CA294	4015319.332	245104.875	2083.077
CA295	4036446.438	245840.880	2037.516
CA296	3996185.222	272808.254	2107.881
CA297	4054813.054	210741.914	1809.313
CA298	3941804.271	128299.647	2029.071
CA299	3869565.695	108925.826	1873.859
CA300	4062478.905	266424.962	2028.232
CA301	3935959.160	140224.979	2005.631
CA302	3930982.247	169112.130	2142.342
CA303	3933948.857	185285.042	2089.380
CA305	4047394.142	150494.305	1848.522
CA306	4047212.071	154194.312	1787.026



BARE EARTH POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE001	3944171.929	175742.202	2076.484
BE002	3979782.932	136545.034	2209.123
BE003	4068470.705	250675.267	1750.893
BE004	3870484.544	112790.660	1897.871
BE005	3907166.083	144569.237	2086.770
BE006	3953156.447	215229.803	2153.245
BE007	3847725.749	167664.790	2123.883
BE008	4026784.111	153137.527	1848.009
BE009	3980124.656	122775.619	2383.969
BE010	4010221.743	279096.497	2136.339
BE011	4074061.462	279853.270	1922.743
BE012	4098061.501	137772.586	1531.236
BE013	3964355.908	235087.339	1994.768
BE014	3959138.707	161468.839	1902.398
BE015	4053884.992	215188.459	1790.738
BE016	3958724.765	182162.774	2061.044
BE017	4097471.922	168821.290	1618.426
BE018	4042648.383	223826.860	1890.227
BE019	4086854.942	175002.097	1551.768
BE020	3956358.225	187988.283	2191.588
BE021	4079952.821	320431.818	2188.557
BE022	4027111.451	213942.839	1920.893
BE023	3937822.500	173234.838	2028.976
BE024	4048002.413	150255.713	1841.599
BE025	4085730.927	334549.869	2234.359
BE026	4063196.541	192963.522	1654.328
BE027	3943407.667	145469.407	2020.388
BE028	4006858.082	261136.563	2098.330
BE029	4055107.640	191652.551	1705.048
BE030	3854369.777	111562.479	1790.189
BE031	3927825.174	194642.016	2166.816



BE032	4086003.972	164921.199	1492.530
BE033	3926808.828	127124.749	2029.774
BE034	4040454.482	166319.314	1699.876
BE035	3966730.584	179001.454	1867.318
BE036	4090999.184	178518.907	1603.364
BE037	3903999.312	166971.377	2095.571
BE038	3913579.239	137335.261	2140.157
BE039	3867319.838	187325.876	2265.500
BE040	3960365.851	141959.888	2242.890
BE041	4015496.474	187832.424	1721.526
BE042	4061638.355	136181.375	1748.967
BE043	4042729.498	217954.970	1831.296
BE044	4064085.650	287004.506	2022.576
BE045	3935304.809	149217.362	1951.705
BE046	4057034.294	197307.616	1737.495
BE047	4040550.375	272225.581	1866.365
BE048	4071271.286	135475.236	1792.078
BE049	4042073.435	238116.224	2004.588
BE050	4043474.596	157220.367	1796.622
BE051	3980579.243	264939.767	2016.336
BE052	4038704.337	259563.413	1979.065
BE053	3947165.503	220676.072	2179.680
BE054	4073330.368	311127.992	2180.238
BE055	3869151.392	194845.407	2229.683
BE056	4033844.429	261272.259	2028.748
BE057	4065782.672	274916.162	1900.420
BE058	4038778.460	145487.366	1933.058
BE059	4055394.889	202304.616	1775.543
BE060	3991556.011	180782.211	1734.636
BE061	3997473.062	168274.953	1793.679
BE062	3948757.308	125069.325	2192.341
BE063	4017804.798	315949.178	2205.886
BE064	4031701.077	272985.451	2087.705
BE065	4052555.492	245603.589	1867.566
BE066	4077229.382	168450.209	1490.158
BE067	3844096.450	106595.064	1765.895
BE068	3977455.633	157549.113	2138.410
BE069	3938062.736	166541.135	2002.098
BE070	3975531.191	164011.926	1927.898
BE071	4039690.620	185339.554	1654.845
BE072	3986161.420	136428.747	2178.968



BE073	3964584.758	134050.998	2088.568
BE074	3901759.141	157825.117	2099.497
BE075	4007059.876	205321.608	1756.995
BE076	4056623.954	168705.081	1650.273
BE077	3929592.982	195578.296	2153.092
BE078	3936412.751	186545.673	2119.770
BE079	4022218.662	170006.243	1678.667
BE080	4006408.423	166368.315	1791.901
BE081	4051804.204	189508.175	1721.228
BE082	3945209.581	171195.303	2052.021
BE083	3973901.846	255085.808	2053.270
BE084	4085978.800	340270.216	2286.625
BE085	4033553.619	161487.768	1743.831
BE086	3840890.364	160638.930	2178.858
BE087	4050695.079	232892.950	1939.957
BE088	4090395.627	323020.341	2104.648
BE089	3892964.015	158572.276	2150.745
BE090	4066956.217	235614.961	1667.926
BE091	4069430.562	137891.875	1715.187
BE092	4059703.045	153009.961	1679.897
BE093	3930736.789	141814.879	1918.239
BE094	3935931.731	140204.567	2003.809
BE094	4031213.412	318578.673	2236.306
BE096	3995480.699	135541.676	2233.263
BE097	4018807.893	225378.848	1870.949
BE098	3927358.562	199826.963	2214.478
BE099	3972181.166	190892.200	1879.433
BE100	4069571.847	269569.421	1866.451
BE101	4022086.101	157069.235	1825.110
BE102	3958114.428	175316.908	2067.916
BE103	4017096.693	242632.936	2083.822
BE104	4077313.907	174991.124	1504.256
BE105	4045390.254	153891.884	1803.389
BE106	4001699.900	266101.942	2080.366
BE107	3882542.269	200542.179	2236.283
BE108	3881785.118	128642.729	1948.154
BE109	3878647.799	189140.142	2171.952
BE110	4022559.381	276656.351	1979.145
BE111	3966875.668	201036.999	1977.093
BE112	3854187.697	164067.255	2151.318
BE113	4036444.613	245836.259	2037.637



BE114	4046436.130	264590.385	1825.723
BE115	3997497.342	282122.813	2191.555
BE116	3989703.386	266728.892	2088.065
BE117	3950964.110	182697.758	2127.243
BE118	4044926.220	162219.643	1772.774
BE119	3950153.799	244123.430	2134.759
BE120	3907400.012	131849.485	2051.662
BE121	4054196.199	136852.211	1834.296
BE122	4063926.830	253642.260	1720.303
BE123	4076958.642	152151.436	1605.422
BE124	4086481.219	139978.013	1753.956
BE125	4056033.634	175741.856	1595.588
BE126	3930947.320	169076.299	2144.217
BE127	4013829.111	297290.017	2196.149
BE128	3856902.451	174897.503	2174.946
BE129	4025065.579	249637.516	2013.651
BE130	4016251.675	253875.646	2119.804
BE131	4066249.496	142639.901	1795.166
BE132	3864470.291	114103.969	1945.316
BE133	3933286.783	160493.992	2103.590
BE134	4011129.776	133026.934	2263.156
BE135	4022759.993	230411.857	1971.092
BE136	3885410.957	180739.159	2142.468
BE137	3978511.499	217365.029	1893.631
BE138	4037986.529	154107.338	1800.773
BE139	3965477.501	215111.679	2021.228
BE140	3893398.141	179264.700	2108.617
BE141	4019764.176	270135.276	2061.437
BE142	4025267.887	316387.269	2212.816
BE143	3889128.471	185811.772	2161.254
BE144	3882999.463	164170.039	2147.669
BE145	3966626.126	251089.042	2047.523
BE146	4052851.824	223117.091	1800.551
BE147	3850247.311	169670.451	2152.649
BE148	3941480.460	158988.068	2018.918
BE149	4029094.041	147247.502	2112.539
BE150	4072088.230	243389.110	1794.105
BE151	3948827.480	202126.365	2252.338
BE152	4051086.838	250828.391	1876.331
BE153	4079323.307	156542.075	1556.112
BE154	3968236.409	159530.153	1920.378



BE155	4066696.243	168615.723	1612.691
BE156	4054806.952	210742.053	1809.001
BE157	4033744.177	312871.900	2237.617
BE158	4046934.647	254908.411	1882.225
BE159	4065049.552	257621.872	1976.671
BE160	4093872.249	135989.302	1592.452
BE161	3967749.574	130889.345	2272.678
BE162	3954056.950	132951.285	2059.363
BE163	4033075.346	231539.595	1949.589
BE164	4063615.627	201356.539	1705.321
BE165	4016618.024	153248.564	1925.452
BE166	3965295.507	172914.738	1863.987
BE167	3980073.706	170148.995	1836.008
BE168	3962558.392	191267.815	2022.799
BE169	4070360.979	303440.591	2131.584
BE170	3941283.750	230146.727	2318.012
BE171	3855182.180	156089.714	2057.737
BE172	4001539.962	153510.163	2506.933
BE173	3918002.782	165409.610	2246.369
BE174	4002712.081	136713.588	2255.688
BE175	4088840.306	175976.469	1573.390
BE176	4013130.582	166473.525	1733.630
BE177	4092057.507	181310.567	1620.850
BE178	4057755.582	240922.714	1867.320
BE179	3989810.483	170308.569	1809.270
BE180	4095362.893	341521.585	2387.360
BE181	4048539.535	188036.464	1635.621
BE182	3927448.237	111216.258	2142.397
BE183	4064240.134	244133.893	1693.577
BE184	3959798.413	215399.568	2059.324
BE185	3939319.942	200877.990	2262.429
BE186	4080022.746	265196.405	1951.324
BE187	3996175.376	272898.312	2106.950
BE188	4034542.551	254480.251	1970.701
BE189	4026287.026	312639.779	2157.076
BE190	4050694.318	136385.931	1926.772
BE191	3981625.942	273718.026	2019.978
BE192	4083928.415	344391.047	2322.378
BE193	3934348.496	129011.151	2038.498
BE194	4029690.796	218637.652	1944.213
BE195	3977550.095	278272.330	2028.524



BE196	3946978.183	162414.311	2092.267
BE197	3952036.639	224319.156	2070.825
BE198	3883708.043	191526.885	2175.665
BE199	4096118.018	264855.336	2179.268
BE200	3994764.904	197180.536	1784.264
BE201	4080798.011	141343.768	1717.322
BE202	4030660.937	181379.669	1645.425
BE203	4045542.397	164919.139	1714.760
BE204	4059424.876	214844.463	1855.325
BE205	4013339.667	160294.575	1769.451
BE206	4026637.913	197393.792	1800.744
BE207	4002694.831	296225.202	2087.066
BE208	4068238.013	178701.579	1583.150
BE209	4037631.592	203106.988	1941.042
BE210	4070867.782	132141.635	1913.682
BE211	4008774.429	282346.158	2085.907
BE212	3950206.149	153276.740	2024.463
BE213	3994541.057	307634.801	2247.778
BE214	3962073.597	200645.052	2041.901
BE215	3991748.284	281592.666	2140.070
BE216	3928263.365	160026.933	2042.176
BE217	3976160.524	202995.597	1905.202
BE218	3964123.656	227175.991	1968.226
BE219	4028428.575	208181.344	1874.519
BE220	4008914.832	272057.322	2205.843
BE221	3933920.726	185318.265	2088.988
BE222	3952764.467	246817.784	2167.482
BE223	4006603.483	289677.685	2052.979
BE224	4059410.784	233055.560	1708.998
BE225	4025304.369	269382.704	2151.206
BE226	4075229.442	252555.180	1781.949
BE227	4027358.058	166597.108	1708.164
BE228	4054013.480	186711.469	1700.833
BE229	4068291.303	263222.726	1931.365
BE230	3972784.833	150201.856	2114.253
BE231	3900295.287	170397.445	2113.234
BE232	3980777.341	148526.426	2388.297
BE233	4083666.836	141941.499	1714.873
BE234	3942367.449	190932.570	2194.965
BE235	4034963.866	319125.707	2377.059
BE236	3879452.747	124234.935	2006.983



BE237	3982807.060	162849.820	2325.120
BE238	4081542.973	285087.801	1999.237



URBAN AREA POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA001	4074332.728	169739.925	1547.375
UA002	3937777.947	162004.674	2001.191
UA003	4021618.558	167077.453	1693.109
UA004	4056119.561	226858.821	1853.783
UA005	4089501.189	322965.799	2071.788
UA006	4012703.139	270265.435	2187.511
UA007	3953859.464	132626.926	2056.381
UA008	4002690.062	296239.721	2087.142
UA009	4077416.670	266942.493	1899.033
UA010	3927812.017	194658.381	2167.276
UA011	3954476.576	214972.379	2117.720
UA012	4083674.596	141931.443	1715.555
UA013	3870478.254	112772.543	1896.948
UA014	4019303.576	316362.292	2194.760
UA015	4067024.513	233777.250	1666.183



TALL WEED POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TW001	3933200.175	160490.589	2106.799
TW002	3870267.385	112668.599	1894.951
TW003	4048711.593	216356.454	1815.820
TW004	4066991.731	235650.954	1668.564
TW005	4101614.379	143579.546	1426.418
TW006	4037332.382	184177.047	1663.803
TW007	3966807.672	259017.671	2077.948
TW008	4021504.057	190685.926	1704.399
TW009	3948231.216	221792.748	2147.243
TW010	3965488.299	215102.948	2021.435
TW011	3871880.772	195206.867	2219.341
TW012	4011551.477	166314.471	1752.399
TW013	3963905.513	166564.695	1865.786
TW014	3882420.640	180981.362	2152.795
TW015	3840603.304	168216.432	2158.172
TW016	4076017.142	162029.541	1611.301
TW017	4054233.651	136796.499	1833.688
TW018	3913027.005	121726.553	1865.336
TW019	4013869.918	297290.330	2196.523
TW020	4030983.284	221629.877	1932.632
TW021	3863681.111	112437.315	1920.563
TW022	4070321.095	183517.485	1599.019
TW023	3927825.962	194623.922	2167.119
TW024	3856892.908	174900.634	2174.123
TW025	4025256.309	316380.203	2213.050
TW026	4028119.406	168501.698	1698.810
TW027	4006084.856	257638.422	2090.955
TW028	3975481.935	211685.798	1936.377
TW029	4060655.236	256701.179	1765.536
TW030	3901648.593	157802.861	2098.777
TW031	3854393.747	111545.053	1789.296
TW032	3966078.753	244269.267	2042.300



TW033	4043171.130	152971.676	1862.708
TW034	4025259.174	269382.599	2152.378
TW035	3967359.492	191097.112	1901.422
TW036	3958107.667	132206.236	2084.266
TW037	3877189.663	121140.692	1991.145
TW038	3881775.237	128634.945	1948.550
TW039	4042006.313	153016.963	1882.230



SHRUB POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH001	3882406.949	189511.249	2163.675
SH002	3903998.639	167008.096	2094.887
SH003	4080793.516	153533.058	1609.669
SH004	3997515.494	282170.403	2190.457
SH005	4012325.419	273403.902	2132.426
SH006	4083341.351	256126.830	1819.138
SH007	3972766.140	150177.597	2115.549
SH008	4064527.391	314905.899	2157.594
SH009	4054888.359	177277.557	1584.488
SH010	3927830.822	194643.928	2166.829
SH011	4054084.607	275267.531	1874.210
SH012	3954838.191	216329.945	2075.981
SH013	4075247.747	252539.120	1781.586
SH014	3866332.537	164412.772	2163.748
SH015	4017807.111	315957.006	2205.492
SH016	3864000.551	112469.550	1918.391
SH017	4077237.176	168392.790	1490.369
SH018	3949368.670	220280.236	2109.550
SH019	4065806.157	305884.945	2090.410
SH020	4029572.318	235202.422	2019.856
SH021	3936406.430	186531.325	2119.787
SH022	4011576.750	166308.539	1752.246
SH023	4037316.777	273833.435	1976.700
SH024	3939351.189	200850.614	2262.288
SH025	4045511.915	153915.627	1800.262
SH026	4093221.223	136222.055	1605.023
SH027	4067964.624	298372.648	2080.897
SH028	3859775.799	112272.293	1823.027
SH029	3926209.851	197406.960	2184.907
SH030	4059732.351	220073.284	1683.226
SH031	4031379.784	249860.614	2028.042
SH032	4088887.119	176023.497	1573.490



SH033	3928731.798	195205.227	2157.340
SH034	3871797.699	195163.855	2219.288
SH035	3962571.941	215224.605	2009.137
SH036	4044921.607	162233.627	1773.394
SH037	4027789.314	176117.563	1642.993
SH038	3910052.707	136268.969	2088.525
SH039	3995358.586	135387.169	2224.701
SH040	4042085.522	238100.566	2003.296
SH041	3934110.031	118010.201	2176.265
SH042	4018097.304	196963.077	1716.241
SH043	4020641.720	240409.729	2064.732
SH044	4059713.694	153035.411	1679.384
SH045	4056166.031	226817.107	1851.414
SH046	4079275.703	307743.042	2168.102
SH047	4046301.872	256452.146	1855.363
SH048	4069331.033	175399.508	1540.655
SH049	4074844.344	265792.699	1915.837
SH050	4018661.593	150925.797	1987.086
SH051	4047404.903	150479.243	1849.130
SH052	3933251.835	160488.980	2103.933
SH053	4051909.909	189822.299	1722.866
SH054	3953910.238	208651.719	2095.842
SH055	3882951.234	164174.138	2147.655
SH056	3850073.012	109694.726	1742.263
SH057	4027135.553	269978.997	2149.816
SH058	3857501.820	163985.044	2093.081
SH059	3901095.523	176091.364	2152.208
SH060	4019983.068	316262.783	2216.616
SH061	4002698.557	172433.317	1731.452
SH062	4004388.740	302976.547	2167.915
SH063	3994972.552	197343.554	1781.371
SH064	3985526.107	277248.785	2084.132
SH065	4025263.486	316379.392	2212.779
SH066	3991092.907	182035.085	1736.530
SH067	4018097.186	308281.788	2193.601
SH068	4023927.184	161008.068	1764.467
SH069	3964322.152	235093.027	1994.794
SH070	4045217.876	133343.908	2314.524
SH071	3978564.161	128289.040	2326.957
SH072	4040706.323	185624.313	1641.044
SH073	4085697.004	334592.219	2232.320



SH074	3941501.073	158968.869	2019.035
SH075	3883762.242	181024.133	2147.702
SH076	4067521.087	191872.959	1625.708
SH077	4061618.789	136209.032	1749.280
SH078	3954028.811	132947.098	2059.349
SH079	3935943.762	140203.199	2003.673
SH080	3930515.620	141228.412	1917.220
SH081	4014760.581	251057.074	2102.244
SH082	3880876.566	210511.188	2326.696
SH083	3864485.420	114093.202	1945.515
SH084	3854220.554	164063.660	2151.425
SH085	4041365.510	208352.382	1996.266
SH086	4074304.172	137603.736	1864.868
SH087	4026885.325	208172.586	1871.101
SH088	4007480.248	205461.347	1753.456
SH089	4013828.924	297296.533	2196.601
SH090	4006958.365	261426.237	2110.174
SH091	4086721.149	174869.647	1552.512
SH092	4073315.371	311157.176	2180.150
SH093	4063731.803	282206.922	1932.858
SH094	4081836.443	329381.250	2256.589
SH095	4033278.788	188636.019	1697.374
SH096	4056628.634	168934.773	1645.887
SH097	3937848.550	173236.995	2028.507
SH098	3889018.286	185756.568	2159.043
SH099	3893600.505	158641.431	2128.068
SH100	3879445.241	124224.500	2006.924
SH101	3998631.628	275391.523	2133.012
SH102	4087138.448	269442.131	1999.230
SH103	4046002.432	244842.798	2006.013
SH104	3992177.436	169775.839	1819.608
SH105	4092435.559	168328.704	1577.167
SH106	3991471.766	159443.845	2347.357
SH107	3985336.379	160838.200	2415.412
SH108	3982798.992	162827.480	2325.786



FOREST POINT COORDINATES

Horizontal Datum - NAD83(2011)
UTM ZONE 13
Vertical Datum - NAVD 88
Geoid - GEOID12B
Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FR001	4045225.835	133346.540	2314.573
FR002	3993902.866	132614.412	2232.176
FR003	3926831.812	127134.597	2032.111
FR004	3934181.833	117954.398	2178.837
FR005	3941230.644	230123.633	2321.123
FR006	3991543.766	159459.508	2345.515
FR007	3934306.415	129009.398	2039.834
FR008	3907170.574	144542.654	2087.808
FR009	3929301.173	202161.762	2315.731
FR010	3967742.170	130868.913	2272.547
FR011	4090000.405	287379.387	1969.627
FR012	3991541.371	159467.503	2345.086
FR013	3901147.022	176052.384	2148.999
FR014	3913562.078	137281.590	2139.268
FR015	3927338.084	111189.188	2143.660
FR016	4001250.611	154576.848	2418.187
FR017	3981619.508	148710.476	2413.686
FR018	3985376.283	160826.005	2415.251
FR019	3880884.377	210648.580	2329.951
FR020	3985376.458	160838.699	2415.250
FR021	3985391.031	160856.263	2415.733
FR022	3982820.181	162860.522	2324.635
FR023	4012315.042	273430.927	2133.465
FR024	3931016.250	169108.432	2140.260
FR025	3900387.040	170344.986	2109.810
FR026	3982809.197	162859.135	2324.936
FR027	3883026.508	164188.623	2146.902
FR028	3982800.171	162863.782	2325.080
FR029	3935931.845	140187.868	2003.396
FR030	3948781.951	202033.498	2256.873
FR032	3980125.002	122749.344	2383.687
FR033	4096100.581	264760.562	2179.594



FR034	3880851.095	210622.831	2328.887
FR035	4070869.557	132127.511	1914.376
FR037	4034956.861	319050.044	2378.437
FR038	4034966.328	319055.199	2379.117



POINT DATA AND ACCURACY LOG SHEETS



CALIBRATION POINT LOG SHEETS



Point ID	CA001
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4057449.918	143535.506	1854.353

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.002
RMSE Z	0.004
GPS Method	Fast Static





Point ID	CA002
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Buell Park

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3980719.404	132312.110	2248.771

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.003
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



CA002 USGS_NM 2019-03-19 22:01:50Z



CA002 USGS_NM 2019-03-19 22:02:02Z



CA002 USGS_NM 2019-03-19 22:02:14Z



CA002 USGS_NM 2019-03-19 22:02:24Z



Point ID	CA003
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Fort Defiance

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3974158.213	136826.317	2138.759

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA004
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Lupton

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3915541.131	127027.665	1869.475

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:



CA004 USGS_NM 2019-03-11 23:20:35Z



CA004 USGS_NM 2019-03-11 23:20:44Z



CA004 USGS_NM 2019-03-11 23:20:55Z



CA004 USGS_NM 2019-03-11 23:21:04Z



Point ID	CA005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4032345.509	160946.237	1763.048

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA006
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	West of Window Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3955627.487	122367.679	2305.822

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



CA006 USGS_NM 2019-03-19 17:45:10Z



CA006 USGS_NM 2019-03-19 17:45:20Z



CA006 USGS_NM 2019-03-19 17:45:31Z



CA006 USGS_NM 2019-03-19 17:45:41Z



Point ID	CA007
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4069578.938	269580.263	1866.667

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Atarque Lake

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3855183.578	156092.987	2057.744

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA009
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen Draw

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3899956.487	158118.136	2080.657

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



CA009 USGS_NM 2019-03-18 21:22:02Z



CA009 USGS_NM 2019-03-18 21:22:23Z



CA009 USGS_NM 2019-03-18 21:22:36Z



CA009 USGS_NM 2019-03-18 21:22:51Z



Point ID	CA010
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfanito Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4046299.603	249715.870	1989.900

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Cutter Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4064331.172	261425.404	1957.122

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Red Lake Mission

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3860232.907	185087.474	2256.689

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



Note: CA012

Note: CA012



Note: CA012

Note: CA012



Point ID	CA013
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Table Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4058773.575	168678.607	1622.314

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/08/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	FS

PHOTOS:

DIRECTION 268 deg(T)	36.61694°N 108.70446°W	ACCURACY 5 m DATUM WGS84	DIRECTION 358 deg(T)	36.61691°N 108.70447°W	ACCURACY 5 m DATUM WGS84
CA013	2019-04-08 12:07:52-06:00		CA013	2019-04-08 12:08:01-06:00	
DIRECTION 89 deg(T)	36.61694°N 108.70450°W	ACCURACY 5 m DATUM WGS84	DIRECTION 179 deg(T)	36.61697°N 108.70445°W	ACCURACY 5 m DATUM WGS84
CA013	2019-04-08 12:08:13-06:00		CA013	2019-04-08 12:08:22-06:00	



Point ID	CA014
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Houck

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3912619.605	116750.444	1827.250

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



CA014 USGS_NM 2019-03-12 01:19:22Z



CA014 USGS_NM 2019-03-12 01:19:31Z



CA014 USGS_NM 2019-03-12 01:19:45Z



CA014 USGS_NM 2019-03-12 01:19:55Z



Point ID	CA015
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4018497.998	274877.585	2029.142

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 90 deg(T) 36.28522°N 107.50671°W ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 359 deg(T) 36.28518°N 107.50667°W ACCURACY 5 m DATUM WGS84</p>
<p>CA015 2019-04-11 15:04:10-06:00</p> <p>DIRECTION 270 deg(T) 36.28521°N 107.50662°W ACCURACY 5 m DATUM WGS84</p>	<p>CA015 2019-04-11 15:04:27-06:00</p> <p>DIRECTION 178 deg(T) 36.28524°N 107.50667°W ACCURACY 5 m DATUM WGS84</p>
<p>CA015 2019-04-11 15:04:41-06:00</p>	<p>CA015 2019-04-11 15:04:52-06:00</p>



Point ID	CA016
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tse Bonita School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3960138.421	139835.314	2219.715

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



CA016 USGS_NM 2019-03-20 20:21:34Z



CA016 USGS_NM 2019-03-20 20:21:44Z



CA016 USGS_NM 2019-03-20 20:22:03Z



CA016 USGS_NM 2019-03-20 20:22:13Z



Point ID	CA017
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Toyee

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3967641.842	192504.701	1917.754

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Time: 03-21-2019 16:11
Note: CA017

Time: 03-21-2019 16:11
Note: CA017



Time: 03-21-2019 16:12
Note: CA017

Time: 03-21-2019 16:12
Note: CA017



Point ID	CA018
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3926795.204	127096.757	2027.470

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.004
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



CA018 USGS_NM 2019-03-11 20:32:51Z



CA018 USGS_NM 2019-03-11 20:33:01Z



CA018 USGS_NM 2019-03-11 20:33:12Z



CA018 USGS_NM 2019-03-11 20:33:26Z



Point ID	CA019
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4033743.685	312872.583	2237.628

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA020
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sallies Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4092098.562	146609.349	1510.096

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA021
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Red Valley

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4054214.978	136798.612	1834.408

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.56429°N 109.05797°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.56433°N 109.05803°W	ACCURACY 5 m DATUM WGS84
CA021	PVD	2018-12-17 18:49:51Z	CA021	PVD	2018-12-17 18:50:04Z
DIRECTION 180 deg(T)	36.56439°N 109.05799°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.56434°N 109.05791°W	ACCURACY 5 m DATUM WGS84
CA021	PVD	2018-12-17 18:50:20Z	CA021	PVD	2018-12-17 18:50:32Z



Point ID	CA022
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4081806.556	170721.049	1516.858

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	CA023
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bloomfield

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4066969.405	235631.229	1668.431

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	FastStatic

PHOTOS:





Point ID	CA024
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3995375.038	282760.066	2146.358

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:

<p>DIRECTION 274 deg(T) 36.07870°N 107.41249°W ACCURACY 5 m DATUM WGS84</p> <p>CA024 2019-04-13 11:05:55-06:00</p>	<p>DIRECTION 359 deg(T) 36.07863°N 107.41255°W ACCURACY 5 m DATUM WGS84</p> <p>CA024 2019-04-13 11:05:34-06:00</p>
<p>DIRECTION 91 deg(T) 36.07872°N 107.41261°W ACCURACY 5 m DATUM WGS84</p> <p>CA024 2019-04-13 11:05:06-06:00</p>	<p>DIRECTION 178 deg(T) 36.07874°N 107.41265°W ACCURACY 5 m DATUM WGS84</p> <p>CA024 2019-04-13 11:04:39-06:00</p>



Point ID	CA024B
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3869156.985	194855.374	2229.460

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA025
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

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

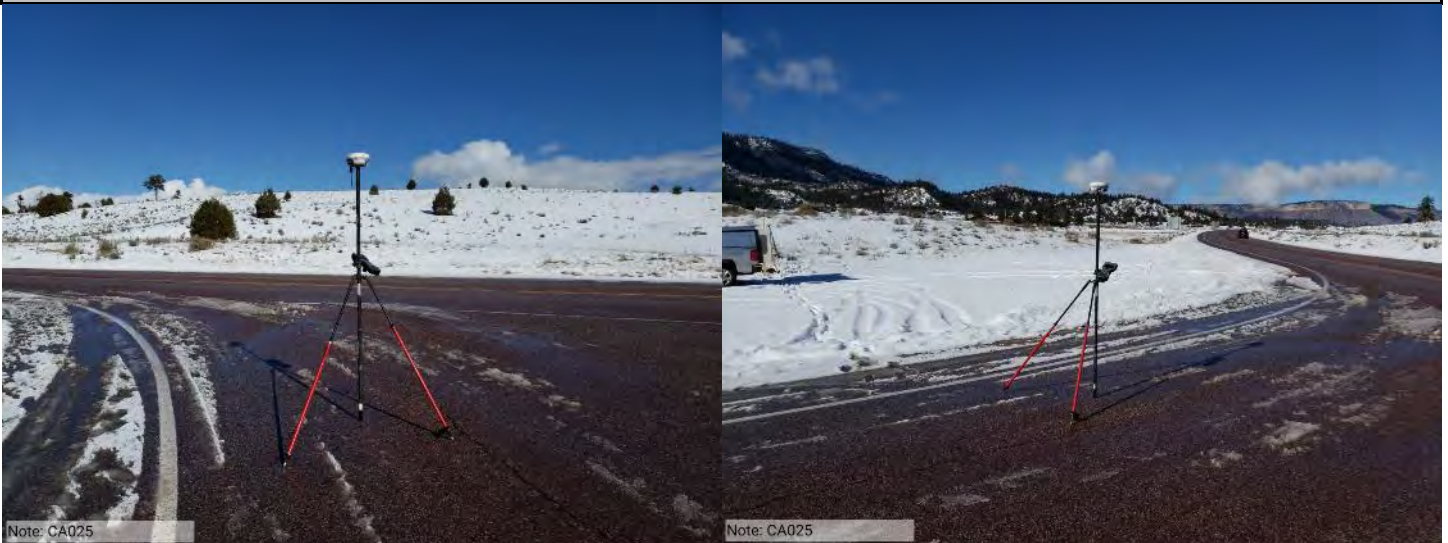
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4085969.219	340289.075	2286.860

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:





Point ID	CA026
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4059730.852	153006.509	1679.934

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.61995°N 108.87977°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.62000°N 108.87983°W	ACCURACY 5 m DATUM WGS84
CA026	PVD	2018-12-17 21:46:29Z	CA026	PVD	2018-12-17 21:46:42Z
DIRECTION 180 deg(T)	36.62003°N 108.87978°W	ACCURACY 5 m DATUM WGS84	DIRECTION 290 deg(T)	36.62001°N 108.87968°W	ACCURACY 5 m DATUM WGS84
CA026	PVD	2018-12-17 21:46:57Z	CA026	PVD	2018-12-17 21:47:16Z



Point ID	CA027
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bancos Mesa NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4088414.091	278134.292	1931.295

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA028
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3874106.749	117815.836	1946.474

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



Note: CA028

Note: CA028



Note: CA028

Note: CA028



Point ID	CA029
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4063903.870	253608.361	1720.887

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA030
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tohatchi

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

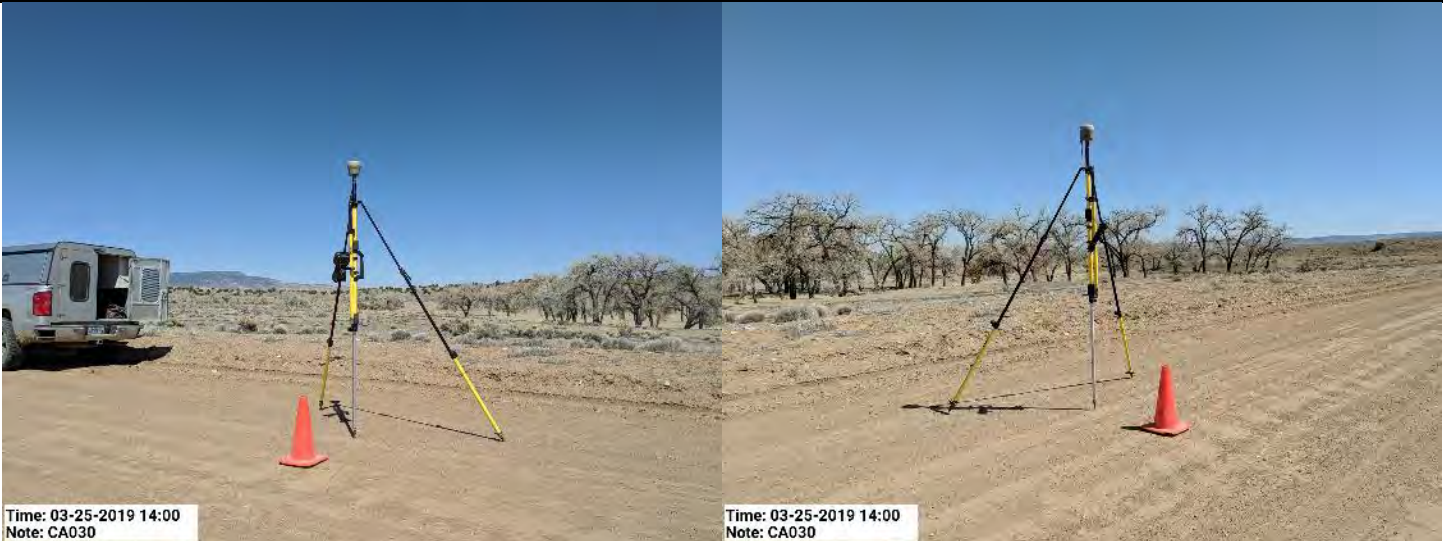
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3964658.085	154913.993	1926.224

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Time: 03-25-2019 14:00
Note: CA030

Time: 03-25-2019 14:00
Note: CA030



Time: 03-25-2019 14:00
Note: CA030

Time: 03-25-2019 14:00
Note: CA030



Point ID	CA031
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4060670.421	207605.281	1784.260

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.64673°N 108.27064°W ACCURACY 5 m DATUM WGS84</p> <p>CA031 PVD 2018-12-14 20:02:38Z</p>	<p>DIRECTION 90 deg(T) 36.64675°N 108.27070°W ACCURACY 5 m DATUM WGS84</p> <p>CA031 PVD 2018-12-14 20:02:52Z</p>
<p>DIRECTION 180 deg(T) 36.64681°N 108.27065°W ACCURACY 5 m DATUM WGS84</p> <p>CA031 PVD 2018-12-14 20:03:07Z</p>	<p>DIRECTION 270 deg(T) 36.64674°N 108.27057°W ACCURACY 5 m DATUM WGS84</p> <p>CA031 PVD 2018-12-14 20:03:23Z</p>



Point ID	CA032
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback North

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4068229.265	178702.492	1583.271

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 270 deg(T)</p> <p>36.70547°N 108.59650°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA032</p> <p>2019-04-06 12:10:18-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>36.70550°N 108.59654°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA032</p> <p>2019-04-06 12:10:28-06:00</p>
<p>DIRECTION 90 deg(T)</p> <p>36.70544°N 108.59661°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA032</p> <p>2019-04-06 12:10:41-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.70541°N 108.59655°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA032</p> <p>2019-04-06 12:10:57-06:00</p>



Point ID	CA033
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	John Mills Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4073337.672	311151.487	2180.027

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:





Point ID	CA034
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Smouse Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4030825.136	271628.720	2071.906

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 90 deg(T)</p> <p>36.39544°N 107.54639°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA034</p> <p>2019-04-11 10:51:07-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>36.39549°N 107.54637°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA034</p> <p>2019-04-11 10:51:18-06:00</p>
<p>DIRECTION 268 deg(T)</p> <p>36.39546°N 107.54633°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA034</p> <p>2019-04-11 10:51:29-06:00</p>	<p>DIRECTION 357 deg(T)</p> <p>36.39542°N 107.54640°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA034</p> <p>2019-04-11 10:51:44-06:00</p>



Point ID	CA035
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Pine Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3927356.338	111206.583	2143.715

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



CA035 USGS_NM 2019-03-16 23:36:56Z



CA035 USGS_NM 2019-03-16 23:37:06Z



CA035 USGS_NM 2019-03-16 23:37:17Z



CA035 USGS_NM 2019-03-16 23:37:27Z



Point ID	CA036
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Whitehorse

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3966796.150	259010.893	2078.663

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)		35.81570°N 107.66738°W		ACCURACY 5 m DATUM WGS84		DIRECTION 90 deg(T)		35.81575°N 107.66745°W		ACCURACY 5 m DATUM WGS84	
CA036		HARDPACK DRT		2018-12-21 19:46:07Z		CA036		HARDPACK DRT		2018-12-21 19:46:21Z	
DIRECTION 180 deg(T)		35.81579°N 107.66740°W		ACCURACY 5 m DATUM WGS84		DIRECTION 270 deg(T)		35.81575°N 107.66737°W		ACCURACY 5 m DATUM WGS84	
CA036		HARDPACK DRT		2018-12-21 19:46:33Z		CA036		HARDPACK DRT		2018-12-21 19:46:41Z	



Point ID	CA037
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Nicoll Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3867329.590	187329.054	2265.726

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: CA037

Note: CA037



Note: CA037

Note: CA037



Point ID	CA038
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gould Pass

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4054111.744	275275.393	1874.330

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 359 deg(T) 36.60600°N 107.51260°W ACCURACY 5 m DATUM WGS84</p> <p>CA038 2019-04-10 15:14:25-06:00</p>	<p>DIRECTION 269 deg(T) 36.60605°N 107.51253°W ACCURACY 5 m DATUM WGS84</p> <p>CA038 2019-04-10 15:14:36-06:00</p>
<p>DIRECTION 182 deg(T) 36.60610°N 107.51255°W ACCURACY 5 m DATUM WGS84</p> <p>CA038 2019-04-10 15:14:51-06:00</p>	<p>DIRECTION 94 deg(T) 36.60605°N 107.51262°W ACCURACY 5 m DATUM WGS84</p> <p>CA038 2019-04-10 15:15:06-06:00</p>



Point ID	CA039
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnham Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4030768.075	186086.604	1655.413

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



Time: 04-01-2019 14:57
Note: CA039

Time: 04-01-2019 14:57
Note: CA039



Time: 04-01-2019 14:57
Note: CA039

Time: 04-01-2019 14:57
Note: CA039



Point ID	CA040
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3939093.582	145736.820	1998.290

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 15 deg(T)	35.53219°N 108.90679°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.53223°N 108.90680°W	ACCURACY 5 m DATUM WGS84
CA040	PVD	2018-12-20 21:10:30Z	CA040	PVD	2018-12-20 21:10:39Z
DIRECTION 180 deg(T)	35.53228°N 108.90675°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.53223°N 108.90669°W	ACCURACY 5 m DATUM WGS84
CA040	PVD	2018-12-20 21:10:51Z	CA040	PVD	2018-12-20 21:11:06Z



Point ID	CA041
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Fence Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3844152.989	159853.484	2116.998

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico

CA041

2019-02-14
12:15:16-07:00

USGS NW New Mexico

CA041

2019-02-14
12:15:11-07:00



USGS NW New Mexico

CA041

2019-02-14
12:15:07-07:00

USGS NW New Mexico

CA041

2019-02-14
12:15:02-07:00



Point ID	CA042
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Carson Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4030823.119	219778.215	1933.278

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:





Point ID	CA043
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Milk Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3979494.714	211641.204	1899.189

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



CA043 USGS_NM 2019-03-14 21:29:27Z



CA043 USGS_NM 2019-03-14 21:29:36Z



CA043 USGS_NM 2019-03-14 21:29:45Z



CA043 USGS_NM 2019-03-14 21:29:54Z



Point ID	CA044
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Two Grey Hills

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4016620.627	153223.059	1926.020

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA045
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Hard Ground Flats

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3951786.560	175754.930	2124.208

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA046
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Becenti Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3964156.251	227176.237	1968.190

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/22/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.78362°N 108.01842°W ACCURACY 5 m DATUM WGS84</p> <p>CA046 PVD 2018-12-22 18:23:51Z</p>	<p>DIRECTION 60 deg(T) 35.78365°N 108.01844°W ACCURACY 5 m DATUM WGS84</p> <p>CA046 PVD 2018-12-22 18:24:05Z</p>
<p>DIRECTION 180 deg(T) 35.78371°N 108.01844°W ACCURACY 5 m DATUM WGS84</p> <p>CA046 PVD 2018-12-22 18:24:22Z</p>	<p>DIRECTION 270 deg(T) 35.78368°N 108.01838°W ACCURACY 5 m DATUM WGS84</p> <p>CA046 PVD 2018-12-22 18:24:38Z</p>



Point ID	CA047
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Seven Lakes SE

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3966115.610	242902.901	2047.514

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.80550°N 107.84525°W ACCURACY 5 m DATUM WGS84</p> <p>CA047 PVD 2018-12-21 17:45:38Z</p>	<p>DIRECTION 90 deg(T) 35.80554°N 107.84528°W ACCURACY 5 m DATUM WGS84</p> <p>CA047 PVD 2018-12-21 17:45:47Z</p>
<p>DIRECTION 150 deg(T) 35.80557°N 107.84526°W ACCURACY 5 m DATUM WGS84</p> <p>CA047 PVD 2018-12-21 17:45:55Z</p>	<p>DIRECTION 270 deg(T) 35.80554°N 107.84521°W ACCURACY 5 m DATUM WGS84</p> <p>CA047 PVD 2018-12-21 17:46:10Z</p>



Point ID	CA048
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4048701.535	216374.651	1816.105

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Note: CA048

Note: CA048



Note: CA048

Note: CA048



Point ID	CA049
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Antelope Lookout Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3972715.742	214475.737	1974.427

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.013
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



CA049 USGS_NM 2019-03-14 19:40:37Z



CA049 USGS_NM 2019-03-14 19:40:46Z



CA049 USGS_NM 2019-03-14 19:40:52Z



CA049 USGS_NM 2019-03-14 19:41:04Z



Point ID	CA050
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bixler Ranch

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4078455.483	297906.756	2274.809

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA051
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Twin Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3935217.052	149273.611	1951.068

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.009
RMSE Z	0.015
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 10 deg(T) 35.49858°N 108.86620°W ACCURACY 5 m DATUM WGS84</p> <p>CA051 PVD 2018-12-20 20:45:45Z</p>	<p>DIRECTION 90 deg(T) 35.49862°N 108.86623°W ACCURACY 5 m DATUM WGS84</p> <p>CA051 PVD 2018-12-20 20:45:57Z</p>
<p>DIRECTION 175 deg(T) 35.49866°N 108.86617°W ACCURACY 5 m DATUM WGS84</p> <p>CA051 PVD 2018-12-20 20:46:13Z</p>	<p>DIRECTION 310 deg(T) 35.49858°N 108.86611°W ACCURACY 5 m DATUM WGS84</p> <p>CA051 PVD 2018-12-20 20:46:50Z</p>



Point ID	CA052
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3952440.524	214454.922	2131.813

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



CA052 USGS_NM 2019-03-14 17:53:26Z



CA052 USGS_NM 2019-03-14 17:53:35Z



CA052 USGS_NM 2019-03-14 17:53:44Z



CA052 USGS_NM 2019-03-14 17:53:54Z



Point ID	CA053
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Borrego Pass

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3941239.811	230143.794	2319.481

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



CA053 USGS_NM 2019-03-15 19:17:29Z



CA053 USGS_NM 2019-03-15 19:17:40Z



CA053 USGS_NM 2019-03-15 19:17:54Z



CA053 USGS_NM 2019-03-15 19:18:09Z



Point ID	CA054
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Ceadro Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3864470.504	114096.285	1945.382

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA055
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

Aerial Target
x LiDAR Ground Control
LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4034963.300	319078.354	2378.764

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	CA056
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chi Chil Tah

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3907148.244	144606.829	2087.384

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



CA056 USGS_NM 2019-03-16 21:15:10Z



CA056 USGS_NM 2019-03-16 21:15:24Z



CA056 USGS_NM 2019-03-16 21:15:35Z



CA056 USGS_NM 2019-03-16 21:15:49Z



Point ID	CA057
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

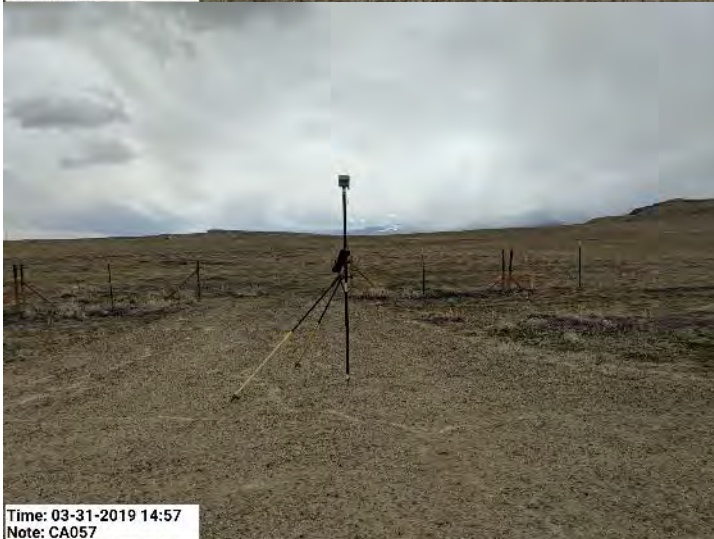
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4038040.355	153989.996	1801.096

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA058
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togey Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3883716.987	191496.673	2175.728

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

<p>DIRECTION 272 deg(T)</p> <p>35.04908°N 108.38212°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA058 2019-04-15 15:05:56-06:00</p>	<p>DIRECTION 184 deg(T)</p> <p>35.04912°N 108.38216°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA058 2019-04-15 15:06:09-06:00</p>
<p>DIRECTION 90 deg(T)</p> <p>35.04909°N 108.38222°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA058 2019-04-15 15:06:25-06:00</p>	<p>DIRECTION 358 deg(T)</p> <p>35.04905°N 108.38218°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA058 2019-04-15 15:06:34-06:00</p>



Point ID	CA059
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Houck

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3912513.231	121746.285	1854.228

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA060
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Gobernador

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4067965.728	298380.662	2081.293

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA061
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4008662.725	271832.588	2199.202

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 269 deg(T) 36.19591°N 107.53764°W ACCURACY 5 m DATUM WGS84</p> <p>CA061 2019-04-12 13:04:12-06:00</p>	<p>DIRECTION 180 deg(T) 36.19595°N 107.53767°W ACCURACY 5 m DATUM WGS84</p> <p>CA061 2019-04-12 13:04:25-06:00</p>
<p>DIRECTION 91 deg(T) 36.19592°N 107.53773°W ACCURACY 5 m DATUM WGS84</p> <p>CA061 2019-04-12 13:03:48-06:00</p>	<p>DIRECTION 358 deg(T) 36.19587°N 107.53769°W ACCURACY 5 m DATUM WGS84</p> <p>CA061 2019-04-12 13:04:01-06:00</p>



Point ID	CA062
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Dalton Pass

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3948778.420	202056.021	2254.534

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



CA062 USGS_NM 2019-03-15 22:09:58Z



CA062 USGS_NM 2019-03-15 22:10:09Z



CA062 USGS_NM 2019-03-15 22:10:23Z



CA062 USGS_NM 2019-03-15 22:10:34Z



Point ID	CA063
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Todilto Peak

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

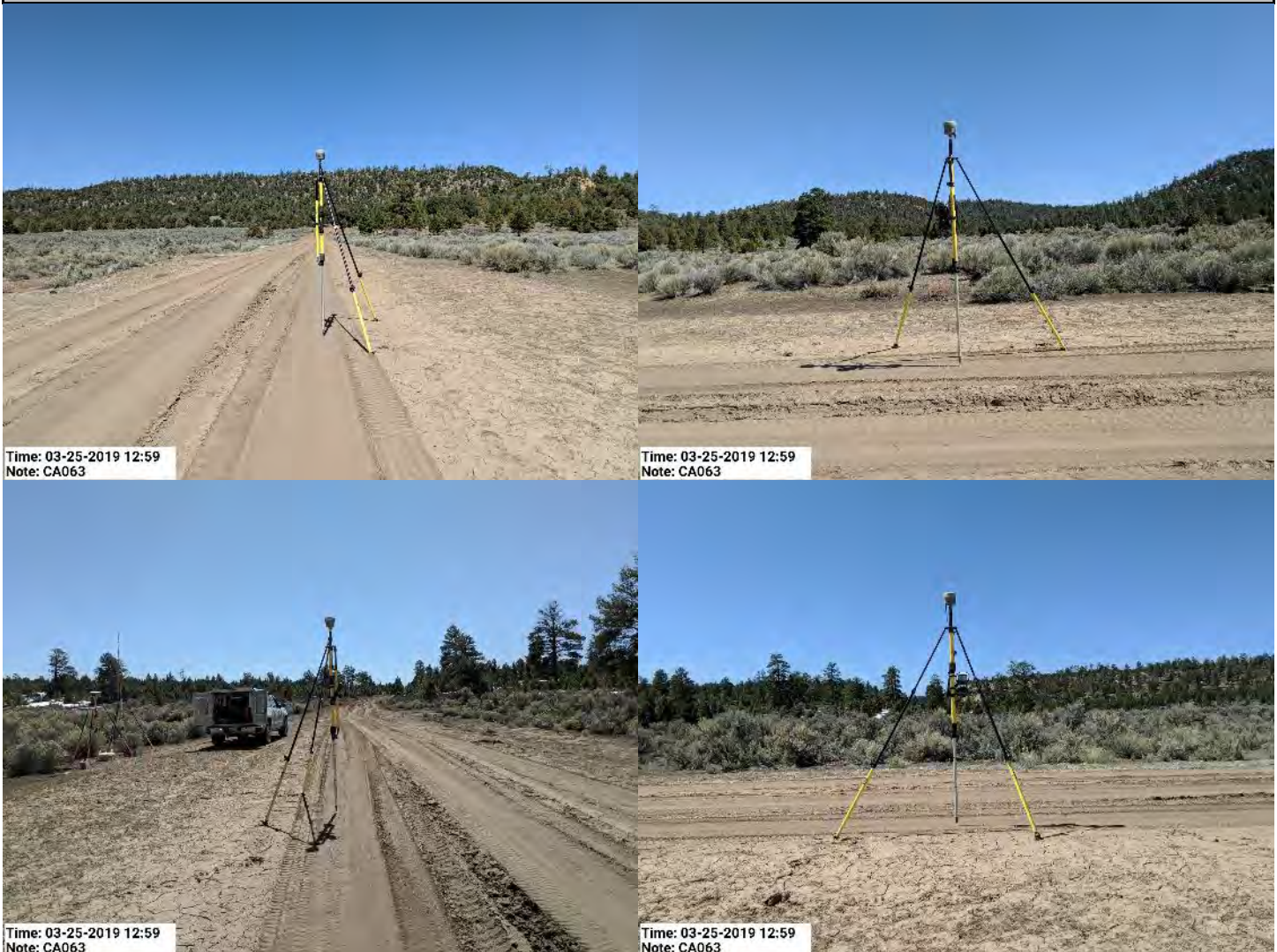
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3980822.163	148518.016	2388.743

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.003
RMSE Z	0.003
GPS Method	RTK

PHOTOS:





Point ID	CA064
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4002693.136	296240.557	2087.190

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Note: CA064



Note: CA064



Note: CA064



Note: CA064



Point ID	CA065
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook

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





Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4003268.609	267041.351	2073.213

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	FS

PHOTOS:

<p>DIRECTION 0 deg(T) 36.14611°N 107.58932°W ACCURACY 5 m DATUM WGS84</p>  <p>CA065 2019-04-14 12:14:14-06:00</p>	<p>DIRECTION 270 deg(T) 36.14616°N 107.58925°W ACCURACY 5 m DATUM WGS84</p>  <p>CA065 2019-04-14 12:14:24-06:00</p>
<p>DIRECTION 183 deg(T) 36.14620°N 107.58932°W ACCURACY 5 m DATUM WGS84</p>  <p>CA065 2019-04-14 12:14:37-06:00</p>	<p>DIRECTION 90 deg(T) 36.14618°N 107.58936°W ACCURACY 5 m DATUM WGS84</p>  <p>CA065 2019-04-14 12:14:46-06:00</p>



Point ID	CA066
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Smouse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4042316.145	268934.048	1853.633

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	FS

PHOTOS:

<p>DIRECTION 268 deg(T)</p> <p>36.49828°N 107.57981°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA066</p> <p>2019-04-10 11:19:28-06:00</p>	<p>DIRECTION 1 deg(T)</p> <p>36.49826°N 107.57986°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA066</p> <p>2019-04-10 11:19:41-06:00</p>
<p>DIRECTION 94 deg(T)</p> <p>36.49832°N 107.57989°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA066</p> <p>2019-04-10 11:19:52-06:00</p>	<p>DIRECTION 177 deg(T)</p> <p>36.49836°N 107.57985°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA066</p> <p>2019-04-10 11:20:12-06:00</p>



Point ID	CA067
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cement Lake

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4058702.327	319043.611	2266.609

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA068
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Palmer Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4090980.453	178484.501	1604.171

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.91000°N 108.60867°W ACCURACY 5 m DATUM WGS84</p>  <p>CA068 HARDPACK DIRT 2018-12-15 20:15:17Z</p>	<p>DIRECTION 90 deg(T) 36.91009°N 108.60869°W ACCURACY 5 m DATUM WGS84</p>  <p>CA068 HARDPACK DIRT 2018-12-15 20:15:31Z</p>
<p>DIRECTION 180 deg(T) 36.91012°N 108.60864°W ACCURACY 5 m DATUM WGS84</p>  <p>CA068 HARDPACK DIRT 2018-12-15 20:15:44Z</p>	<p>DIRECTION 270 deg(T) 36.91008°N 108.60855°W ACCURACY 5 m DATUM WGS84</p>  <p>CA068 HARDPACK DIRT 2018-12-15 20:16:12Z</p>



Point ID	CA069
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3938735.384	173527.429	2041.660

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 35.53852°N 10 deg(T) 108.60077°W</p> <p>ACCURACY 10 m DATUM WGS84</p> <p>CA069 PVD 2018-12-19 22:05:01Z</p>	<p>DIRECTION 35.54002°N 90 deg(T) 108.59952°W</p> <p>ACCURACY 131 m DATUM WGS84</p> <p>CA069 PVD 2018-12-19 22:05:33Z</p>
<p>DIRECTION 35.54002°N 180 deg(T) 108.59952°W</p> <p>ACCURACY 131 m DATUM WGS84</p> <p>CA069 PVD 2018-12-19 22:05:44Z</p>	<p>DIRECTION 35.53942°N 270 deg(T) 108.60096°W</p> <p>ACCURACY 65 m DATUM WGS84</p> <p>CA069 PVD 2018-12-19 22:06:15Z</p>



Point ID	CA070
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	The Dyke

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3841776.281	177408.472	2214.671

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA071
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Upper Wheatfields

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4012412.834	131514.966	2254.766

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/27/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA072
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Washington Pass

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4001317.110	154589.619	2413.374

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA073
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3901131.535	176073.451	2149.957

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.003
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA074
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Shoemaker Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3856902.176	174902.282	2174.874

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	CA075
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bixler Ranch

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4070343.633	303451.262	2130.637

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:





Point ID	CA076
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

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

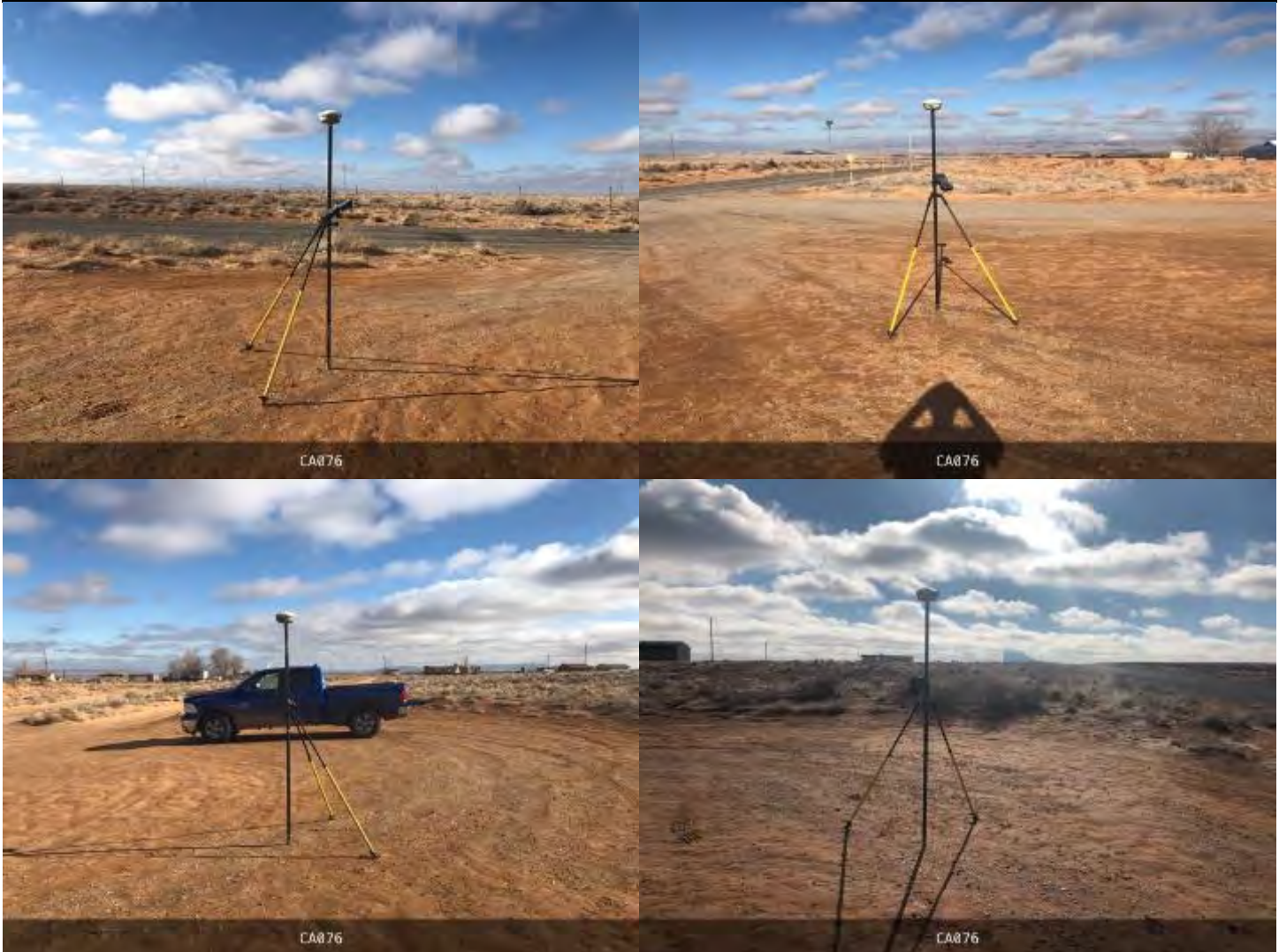
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4076038.514	162029.374	1610.952

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA077
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Mariano Lake

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

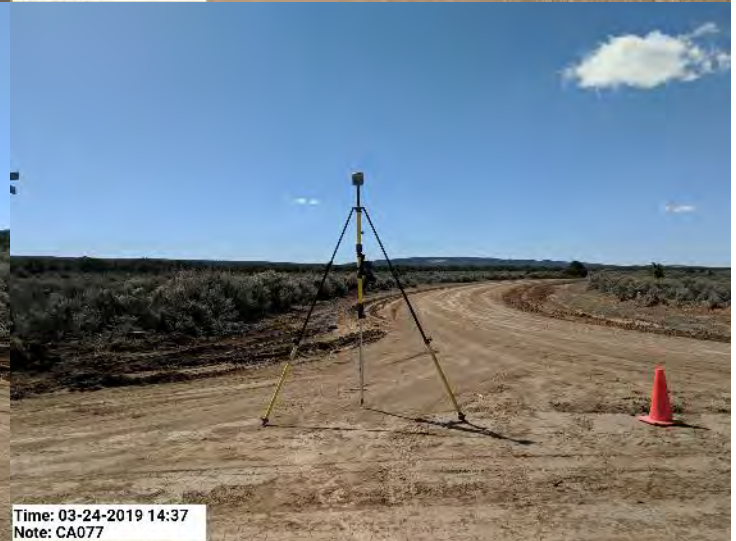
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3939363.599	200867.766	2262.146

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA078
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Carson Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4042600.079	222015.731	1860.758

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.48835°N 108.10317°W ACCURACY 5 m DATUM WGS84</p> <p>CA078 PVD 2018-12-14 16:42:34Z</p>	<p>DIRECTION 90 deg(T) 36.48839°N 108.10320°W ACCURACY 5 m DATUM WGS84</p> <p>CA078 PVD 2018-12-14 16:42:48Z</p>
<p>DIRECTION 180 deg(T) 36.48842°N 108.10315°W ACCURACY 5 m DATUM WGS84</p> <p>CA078 PVD 2018-12-14 16:43:07Z</p>	<p>DIRECTION 270 deg(T) 36.48838°N 108.10306°W ACCURACY 5 m DATUM WGS84</p> <p>CA078 PVD 2018-12-14 16:43:31Z</p>



Point ID	CA079
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tse Bonita School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3949779.258	145071.054	2041.396

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.62808°N 108.91877°W ACCURACY 5 m DATUM WGS84</p> <p>CA079 PVD 2018-12-19 18:51:22Z</p>	<p>DIRECTION 90 deg(T) 35.62812°N 108.91885°W ACCURACY 5 m DATUM WGS84</p> <p>CA079 PVD 2018-12-19 18:51:41Z</p>
<p>DIRECTION Unavailable LOCATION Unavailable ACCURACY/DATUM Unavailable</p> <p>CA079 PVD 2018-12-19 18:52:30Z</p>	<p>DIRECTION 270 deg(T) 35.62812°N 108.91875°W ACCURACY 5 m DATUM WGS84</p> <p>CA079 PVD 2018-12-19 18:53:05Z</p>



Point ID	CA080
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinehaven

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3914611.998	165461.592	2222.221

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



CA080 USGS_NM 2019-03-13 22:46:57Z



CA080 USGS_NM 2019-03-13 22:47:06Z



CA080 USGS_NM 2019-03-13 22:47:16Z



CA080 USGS_NM 2019-03-13 22:47:26Z



Point ID	CA081
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Archuleta

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4083312.211	256140.638	1819.542

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA082
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Twin Buttes

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3928238.193	152190.160	2006.541

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA083
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

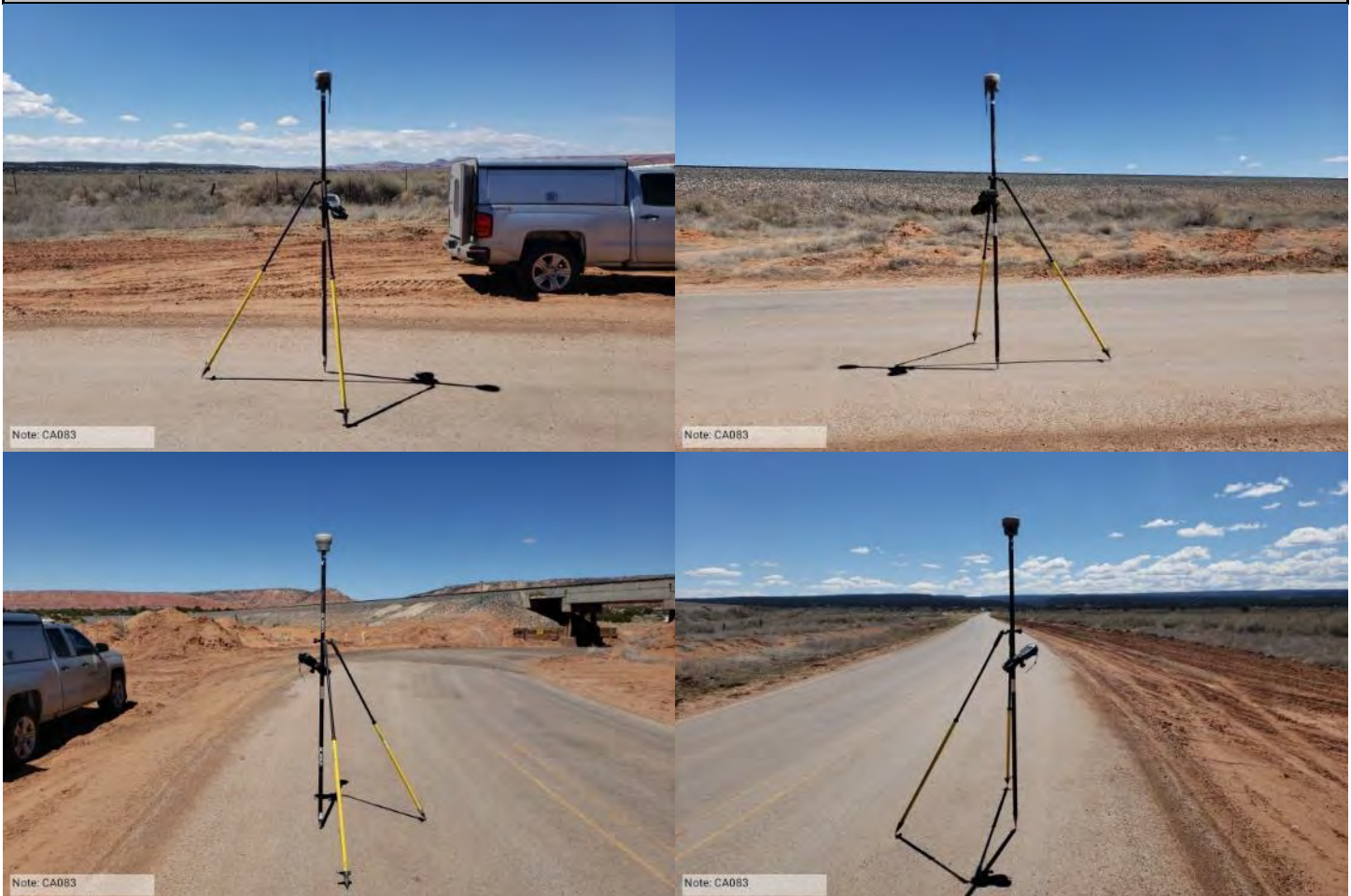
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3929592.029	195585.191	2153.432

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA084
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4061136.247	194690.798	1686.444

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	FS

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.64688°N 108.41499°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA084</p> <p>2019-04-06 10:15:20-06:00</p>	<p>DIRECTION 357 deg(T)</p> <p>36.64684°N 108.41584°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA084</p> <p>2019-04-06 10:15:30-06:00</p>
<p>DIRECTION 90 deg(T)</p> <p>36.64686°N 108.41509°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA084</p> <p>2019-04-06 10:15:44-06:00</p>	<p>DIRECTION 182 deg(T)</p> <p>36.64692°N 108.41506°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA084</p> <p>2019-04-06 10:16:01-06:00</p>



Point ID	CA085
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Borrego Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3943902.823	238235.804	2230.853

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



CA085 USGS_NM 2019-03-15 18:22:38Z



CA085 USGS_NM 2019-03-15 18:22:49Z



CA085 USGS_NM 2019-03-15 18:23:03Z



CA085 USGS_NM 2019-03-15 18:23:13Z



Point ID	CA086
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnt Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4093650.864	276202.465	1972.236

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA087
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3873182.728	195433.605	2206.784

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 359 deg(T) 34.95539°N 108.33519°W ACCURACY 5 m DATUM WGS84</p> <p>CA087 2019-04-15 13:16:35-06:00</p>	<p>DIRECTION 274 deg(T) 34.95541°N 108.33514°W ACCURACY 5 m DATUM WGS84</p> <p>CA087 2019-04-15 13:16:48-06:00</p>
<p>DIRECTION 182 deg(T) 34.95548°N 108.33519°W ACCURACY 5 m DATUM WGS84</p> <p>CA087 2019-04-15 13:17:01-06:00</p>	<p>DIRECTION 90 deg(T) 34.95544°N 108.33528°W ACCURACY 5 m DATUM WGS84</p> <p>CA087 2019-04-15 13:17:12-06:00</p>



Point ID	CA088
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Lybrook NW

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

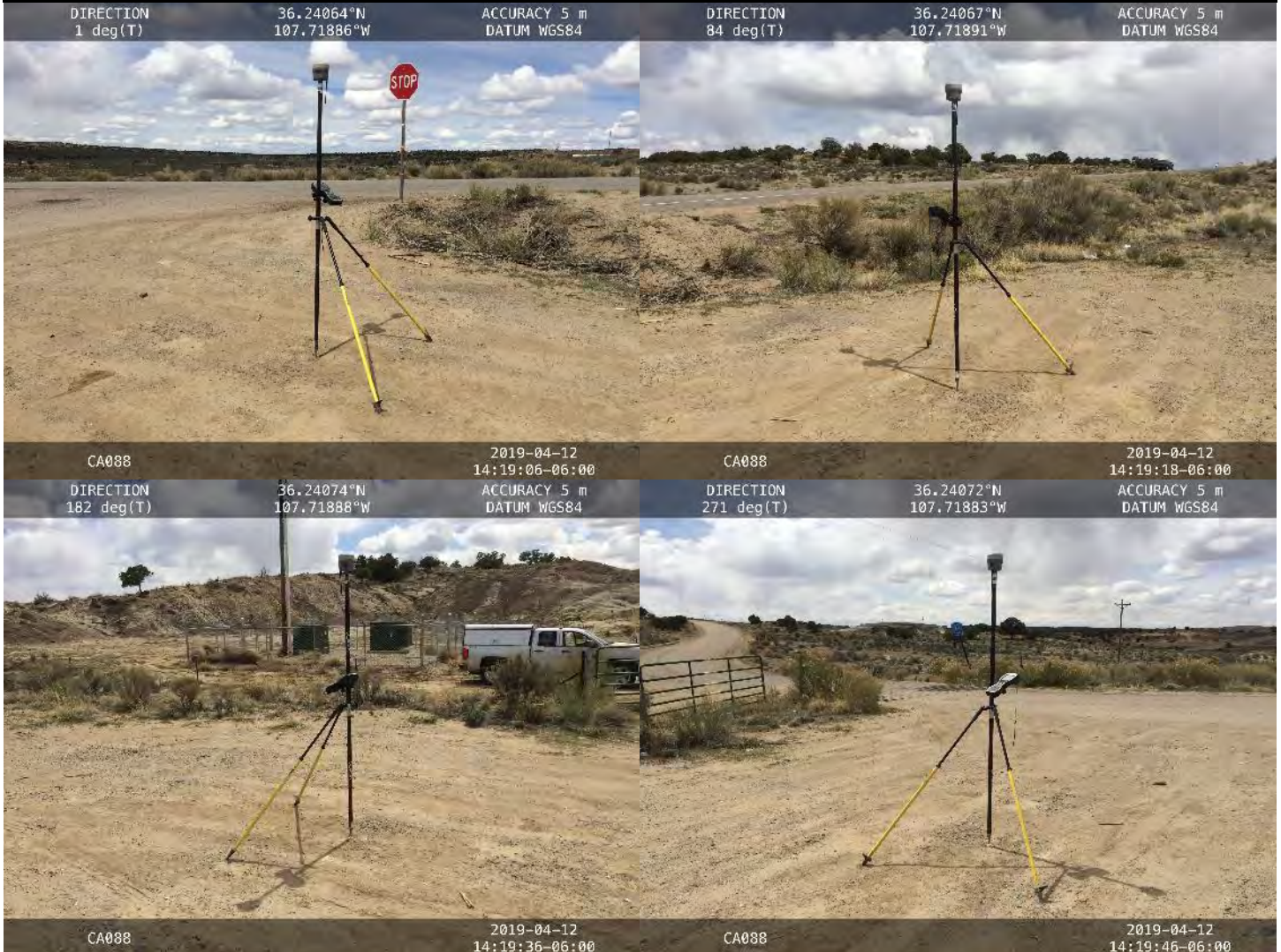
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4014074.306	255674.779	2070.639

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	CA089
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4079338.404	156558.056	1555.826

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA090
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4028429.787	208238.180	1872.835

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/13/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 15 deg(T) 36.35674°N 108.25143°W ACCURACY 5 m DATUM WGS84</p> <p>CA090 PVD 2018-12-13 21:32:24Z</p>	<p>DIRECTION 90 deg(T) 36.35677°N 108.25148°W ACCURACY 5 m DATUM WGS84</p> <p>CA090 PVD 2018-12-13 21:32:39Z</p>
<p>DIRECTION 180 deg(T) 36.35680°N 108.25143°W ACCURACY 5 m DATUM WGS84</p> <p>CA090 PVD 2018-12-13 21:32:52Z</p>	<p>DIRECTION 270 deg(T) 36.35678°N 108.25142°W ACCURACY 5 m DATUM WGS84</p> <p>CA090 PVD 2018-12-13 21:33:03Z</p>



Point ID	CA091
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Hunters Point

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3948927.292	126705.941	2090.187

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



CA091 USGS_NM 2019-03-20 19:09:16Z



CA091 USGS_NM 2019-03-20 19:09:26Z



CA091 USGS_NM 2019-03-20 19:09:37Z



CA091 USGS_NM 2019-03-20 19:09:49Z



Point ID	CA092
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4009763.687	322485.931	2256.315

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA093
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Palmer Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4092129.604	181458.221	1630.025

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 36.92136°N ACCURACY 5 m 0 deg(T) 108.57579°W DATUM WGS84</p> <p>CA093 GVL 2018-12-15 21:07:41Z</p>	<p>DIRECTION 36.92142°N ACCURACY 5 m 90 deg(T) 108.57582°W DATUM WGS84</p> <p>CA093 GVL 2018-12-15 21:07:53Z</p>
<p>DIRECTION 36.92146°N ACCURACY 5 m 180 deg(T) 108.57574°W DATUM WGS84</p> <p>CA093 GVL 2018-12-15 21:08:16Z</p>	<p>DIRECTION 36.92143°N ACCURACY 5 m 270 deg(T) 108.57569°W DATUM WGS84</p> <p>CA093 GVL 2018-12-15 21:08:42Z</p>



Point ID	CA094
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sawmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3980157.710	122838.309	2382.312

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



CA094 USGS_NM 2019-03-19 20:22:28Z



CA094 USGS_NM 2019-03-19 20:22:41Z



CA094 USGS_NM 2019-03-19 20:22:55Z



CA094 USGS_NM 2019-03-19 20:23:09Z



Point ID	CA095
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4046402.144	210402.877	1891.924

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.003
RMSE Z	0.003
GPS Method	RTK

PHOTOS:





Point ID	CA096
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3927006.505	195885.172	2180.688

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/12/2019
RMSE Hz	0.007
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA097
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Togeye Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3878648.670	189130.655	2171.940

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA098
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Antelope Lookout Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3967723.186	214972.234	2012.285

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:



CA098 USGS_NM 2019-03-14 19:22:21Z



CA098 USGS_NM 2019-03-14 19:22:30Z



CA098 USGS_NM 2019-03-14 19:22:40Z



CA098 USGS_NM 2019-03-14 19:22:52Z



Point ID	CA099
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SE

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4056079.282	202716.568	1768.318

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.60387°N 108.32350°W ACCURACY 5 m DATUM WGS84</p> <p>CA099 PVD 2018-12-14 18:24:07Z</p>	<p>DIRECTION 90 deg(T) 36.60391°N 108.32354°W ACCURACY 5 m DATUM WGS84</p> <p>CA099 PVD 2018-12-14 18:24:26Z</p>
<p>DIRECTION 230 deg(T) 36.60394°N 108.32345°W ACCURACY 5 m DATUM WGS84</p> <p>CA099 PVD 2018-12-14 18:24:45Z</p>	<p>DIRECTION 270 deg(T) 36.60392°N 108.32342°W ACCURACY 5 m DATUM WGS84</p> <p>CA099 PVD 2018-12-14 18:25:00Z</p>



Point ID	CA100
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	High Lonesome Well

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3881784.712	128642.690	1948.178

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:



Note: CA100



Note: CA100



Note: CA100



Note: CA100



Point ID	CA101
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3934314.051	129019.969	2039.106

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA102
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4031208.690	318578.936	2236.346

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA103
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Fence Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3847717.924	167654.445	2123.693

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.004
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA104
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3944131.439	145351.052	1997.212

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA105
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	East of Great Bend

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4015474.172	188047.897	1722.212

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Time: 04-01-2019 14:02
Note: CA105

Time: 04-01-2019 14:02
Note: CA105



Time: 04-01-2019 14:02
Note: CA105

Time: 04-01-2019 14:03
Note: CA105



Point ID	CA106
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Twin Lakes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3958312.798	158514.269	1940.668

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Time: 03-22-2019 16:06
Note: CA106

Time: 03-22-2019 16:07
Note: CA106



Time: 03-22-2019 16:07
Note: CA106

Time: 03-22-2019 16:07
Note: CA106



Point ID	CA107
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Delgadita Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4057855.727	267221.182	1817.416

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 36.63785°N ACCURACY 5 m 1 deg(T) 107.60357°W DATUM WGS84</p>  <p>CA107 2019-04-10 14:06:43-06:00</p>	<p>DIRECTION 36.63790°N ACCURACY 5 m 183 deg(T) 107.60362°W DATUM WGS84</p>  <p>CA107 2019-04-10 14:06:56-06:00</p>
<p>DIRECTION 36.63787°N ACCURACY 5 m 94 deg(T) 107.60370°W DATUM WGS84</p>  <p>CA107 2019-04-10 14:07:08-06:00</p>	<p>DIRECTION 36.63790°N ACCURACY 5 m 268 deg(T) 107.60361°W DATUM WGS84</p>  <p>CA107 2019-04-10 14:08:00-06:00</p>



Point ID	CA108
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3987754.019	275541.550	2081.582

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTK

PHOTOS:

<p>DIRECTION 183 deg(T)</p> <p>36.00851°N 107.49046°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA108</p> <p>2019-04-13 12:26:10-06:00</p>	<p>DIRECTION 91 deg(T)</p> <p>36.00845°N 107.49052°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA108</p> <p>2019-04-13 12:25:56-06:00</p>
<p>DIRECTION 359 deg(T)</p> <p>36.00839°N 107.49050°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA108</p> <p>2019-04-13 12:25:44-06:00</p>	<p>DIRECTION 271 deg(T)</p> <p>36.00843°N 107.49044°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA108</p> <p>2019-04-13 12:25:28-06:00</p>



Point ID	CA109
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Toyee

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3972159.879	190869.781	1879.117

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA110
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Dulce

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4092474.283	323865.904	2080.452

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA111
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Old Pine Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4029234.863	147640.952	2083.055

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.015
RMSE Z	0.018
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 14:07
Note: CA111

Time: 03-31-2019 14:07
Note: CA111



Time: 03-31-2019 14:07
Note: CA111

Time: 03-31-2019 14:07
Note: CA111



Point ID	CA112
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Becenti Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3960927.615	219149.236	2018.006

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



CA112 USGS_NM 2019-03-14 18:45:37Z



CA112 USGS_NM 2019-03-14 18:45:46Z



CA112 USGS_NM 2019-03-14 18:45:56Z



CA112 USGS_NM 2019-03-14 18:46:10Z



Point ID	CA113
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Leandro Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4065807.746	305878.786	2090.507

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	CA114
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Navajo Dam

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4078901.634	277102.488	1918.766

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA115
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Valle Largo

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3880866.410	210590.381	2329.158

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:





Point ID	CA116
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tohatchi

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

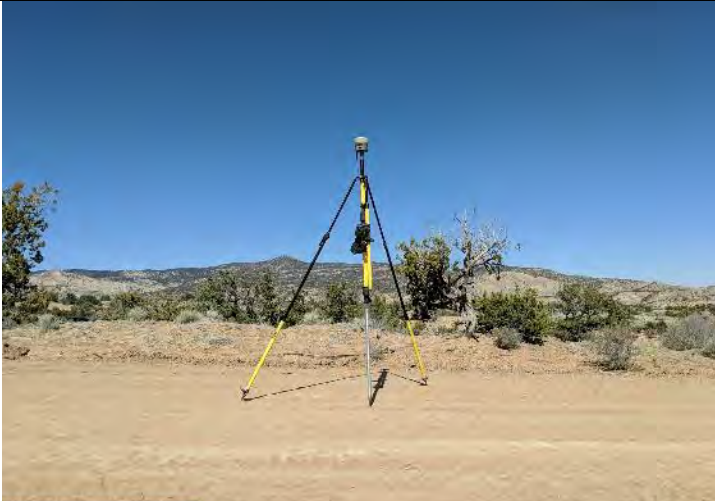
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3972770.327	150221.339	2113.247

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 03-25-2019 15:13
Note: CA116



Time: 03-25-2019 15:14
Note: CA116



Time: 03-25-2019 15:14
Note: CA116



Time: 03-25-2019 15:14
Note: CA116



Point ID	CA117
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rocky Point

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4084440.986	146545.086	1579.802

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA118
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bancos Mesa NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4089990.174	287346.18	1968.748

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA119
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Naschitti

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3997448.816	168281.759	1794.259

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Time: 03-29-2019 14:00
Note: CA119

Time: 03-29-2019 14:00
Note: CA119



Time: 03-29-2019 14:00
Note: CA119

Time: 03-29-2019 14:01
Note: CA119



Point ID	CA120
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4021632.658	167061.998	1693.195

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 10:26
Note: CA120

Time: 03-31-2019 10:26
Note: CA120



Time: 03-31-2019 10:26
Note: CA120

Time: 03-31-2019 10:27
Note: CA120



Point ID	CA121
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Table Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4049340.588	166771.982	1646.912

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 272 deg(T)</p> <p>36.53142°N 108.72164°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 182 deg(T)</p> <p>36.53147°N 108.72166°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA121</p> <p>2019-04-07 14:08:51-06:00</p> <p>DIRECTION 92 deg(T)</p> <p>36.53143°N 108.72172°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA121</p> <p>2019-04-07 14:09:02-06:00</p> <p>DIRECTION 1 deg(T)</p> <p>36.53139°N 108.72169°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA121</p> <p>2019-04-07 14:09:14-06:00</p>	<p>CA121</p> <p>2019-04-07 14:09:25-06:00</p>



Point ID	CA122
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Peak

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4051084.155	250825.495	1876.442

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA123
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Counselor

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4009191.586	281193.983	2108.131

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:

<p>DIRECTION 353 deg(T)</p> <p>36.20281°N 107.43376°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 89 deg(T)</p> <p>36.20285°N 107.43384°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA123</p> <p>2019-04-12 11:08:59-06:00</p> <p>DIRECTION 274 deg(T)</p> <p>36.20286°N 107.43372°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA123</p> <p>2019-04-12 11:09:16-06:00</p> <p>DIRECTION 182 deg(T)</p> <p>36.20290°N 107.43378°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA123</p> <p>2019-04-12 11:08:44-06:00</p>	<p>CA123</p> <p>2019-04-12 11:08:32-06:00</p>



Point ID	CA124
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3893388.395	179248.252	2108.612

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 266 deg(T)</p> <p>35.13230°N 108.51992°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA124</p> <p>2019-04-16 15:57:46-06:00</p>	<p>DIRECTION 358 deg(T)</p> <p>35.13225°N 108.51996°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA124</p> <p>2019-04-16 15:57:33-06:00</p>
<p>DIRECTION 90 deg(T)</p> <p>35.13231°N 108.52003°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA124</p> <p>2019-04-16 15:57:20-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>35.13231°N 108.52000°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA124</p> <p>2019-04-16 15:57:08-06:00</p>



Point ID	CA125
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4085735.677	334553.064	2234.199

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA126
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnham Trading Post

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

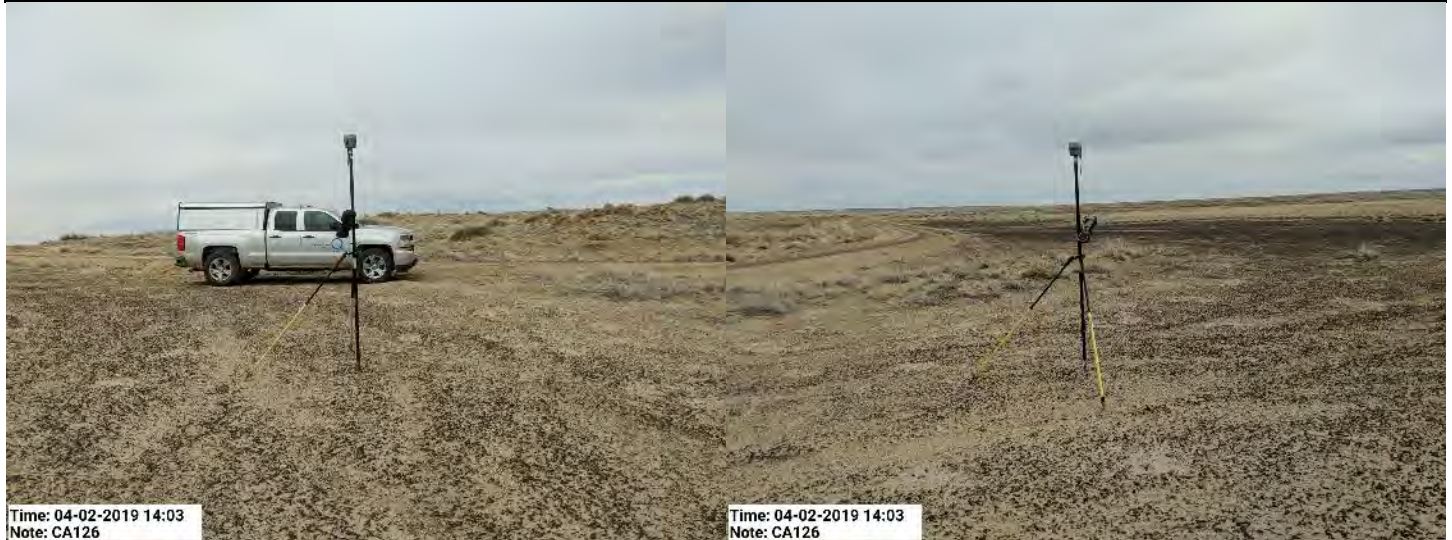
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4021281.484	188334.138	1704.393

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA127
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Gomez Ranch

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4074057.302	279854.765	1922.740

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA128
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Billy Rice Canyon

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4018079.763	308270.895	2193.213

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA129
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Grey Hill Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3992656.965	177421.184	1746.039

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA130
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup West

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3941525.652	159034.296	2018.711

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.55878°N 108.76144°W	ACCURACY 5 m DATUM WGS84	DIRECTION 85 deg(T)	35.55878°N 108.76144°W	ACCURACY 5 m DATUM WGS84
CA130	PVD	2018-12-19 18:22:17Z	CA130	PVD	2018-12-19 18:22:45Z
DIRECTION 180 deg(T)	35.55880°N 108.76146°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.55880°N 108.76136°W	ACCURACY 5 m DATUM WGS84
CA130	PVD	2018-12-19 18:25:21Z	CA130	PVD	2018-12-19 18:25:33Z



Point ID	CA131
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Counselor

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4004596.102	279583.673	2173.386

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 270 deg(T)</p> <p>36.16106°N 107.45032°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 180 deg(T)</p> <p>36.16111°N 107.45036°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA131</p> <p>2019-04-12 11:54:30-06:00</p> <p>DIRECTION 82 deg(T)</p> <p>36.16107°N 107.45044°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA131</p> <p>2019-04-12 11:54:41-06:00</p> <p>DIRECTION 1 deg(T)</p> <p>36.16102°N 107.45040°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA131</p> <p>2019-04-12 11:54:04-06:00</p>	<p>CA131</p> <p>2019-04-12 11:54:15-06:00</p>



Point ID	CA132
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3921742.996	167680.313	2303.450

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA133
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

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

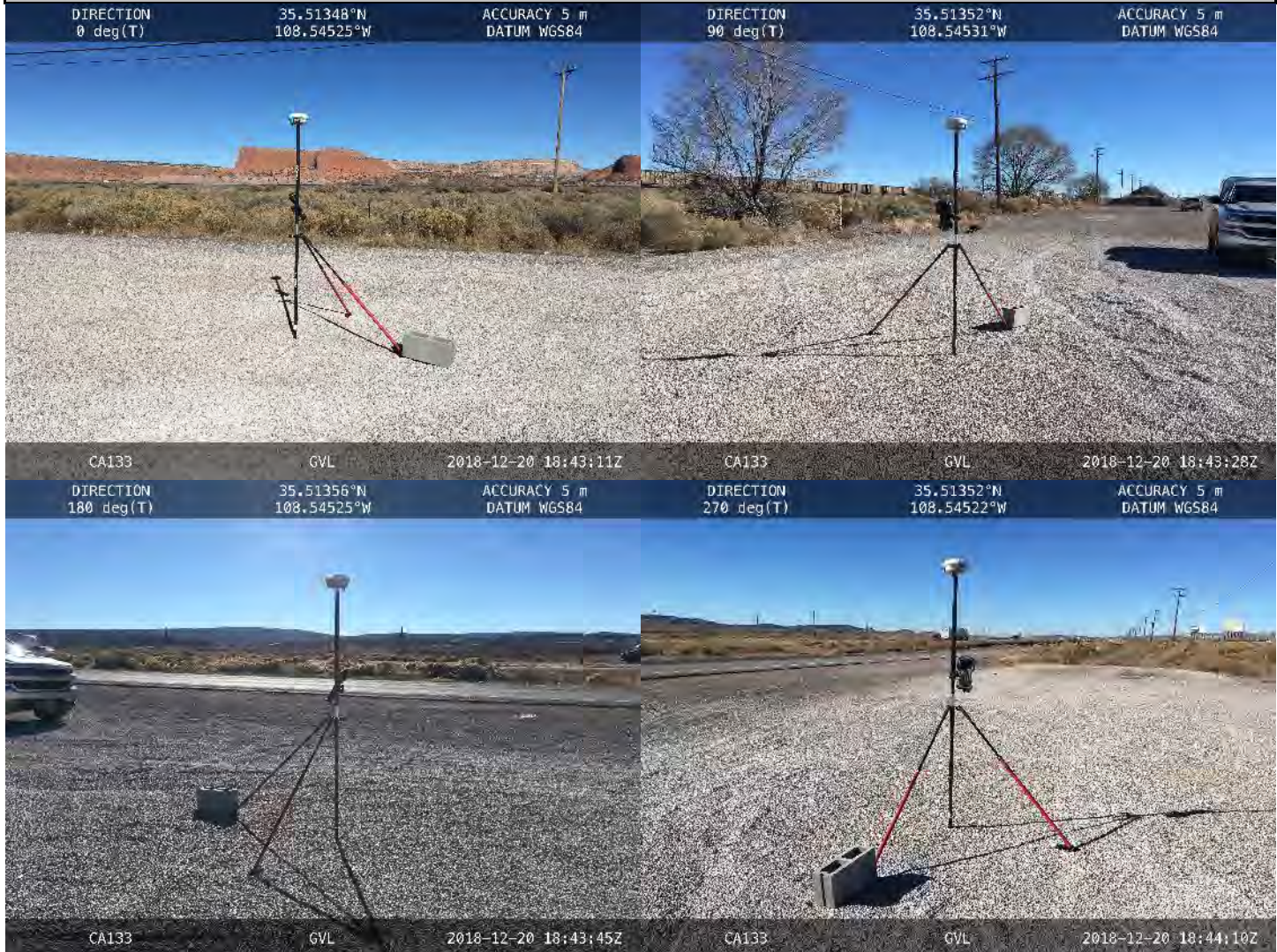
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3935772.902	178459.535	2053.405

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA134
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Pintado

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3973899.108	255107.108	2053.869

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.87871°N 107.71271°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.87875°N 107.71275°W	ACCURACY 5 m DATUM WGS84
CA134	PVD	2018-12-21 18:35:47Z	CA134	PVD	2018-12-21 18:36:06Z
DIRECTION 180 deg(T)	35.87881°N 107.71270°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.87876°N 107.71266°W	ACCURACY 5 m DATUM WGS84
CA134	PVD	2018-12-21 18:36:20Z	CA134	PVD	2018-12-21 18:36:37Z



Point ID	CA135
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cordova Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4076587.556	331533.934	2326.501

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA136
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Thompson Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4038699.482	259565.951	1978.993

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	CA137
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Alto Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3980189.469	265411.686	2019.113

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:

<p>DIRECTION 186 deg(T) 35.93799°N 107.60056°W ACCURACY 5 m DATUM WGS84</p> <p>CA137 2019-04-13 14:21:17-06:00</p>	<p>DIRECTION 281 deg(T) 35.93796°N 107.60052°W ACCURACY 5 m DATUM WGS84</p> <p>CA137 2019-04-13 14:21:09-06:00</p>
<p>DIRECTION 1 deg(T) 35.93792°N 107.60061°W ACCURACY 5 m DATUM WGS84</p> <p>CA137 2019-04-13 14:20:54-06:00</p>	<p>DIRECTION 90 deg(T) 35.93797°N 107.60061°W ACCURACY 5 m DATUM WGS84</p> <p>CA137 2019-04-13 14:20:39-06:00</p>



Point ID	CA138
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Carracas Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4087811.708	309997.899	2184.203

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA139
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4050217.145	148910.526	1841.888

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:

<p>DIRECTION 269 deg(T)</p> <p>36.53290°N 108.92105°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA139</p> <p>2019-04-07 10:32:44-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>36.53295°N 108.92112°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA139</p> <p>2019-04-07 10:33:01-06:00</p>
<p>DIRECTION 93 deg(T)</p> <p>36.53291°N 108.92121°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA139</p> <p>2019-04-07 10:33:16-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.53286°N 108.92114°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA139</p> <p>2019-04-07 10:33:37-06:00</p>



Point ID	CA140
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Nicoll Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3875760.328	186944.264	2203.544

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 182 deg(T)</p> <p>34.97609°N 108.42900°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA140</p> <p>2019-04-15 13:45:39-06:00</p>	<p>DIRECTION 92 deg(T)</p> <p>34.97607°N 108.42902°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA140</p> <p>2019-04-15 13:45:55-06:00</p>
<p>DIRECTION 4 deg(T)</p> <p>34.97601°N 108.42898°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA140</p> <p>2019-04-15 13:46:03-06:00</p>	<p>DIRECTION 271 deg(T)</p> <p>34.97604°N 108.42897°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA140</p> <p>2019-04-15 13:46:12-06:00</p>



Point ID	CA141
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Crow Mesa West

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4015963.517	263777.582	2117.940

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

DIRECTION 181 deg(T)	36.25978°N 107.62937°W	ACCURACY 5 m DATUM WGS84	DIRECTION 268 deg(T)	36.25975°N 107.62932°W	ACCURACY 5 m DATUM WGS84
CA141	2019-04-12 13:55:58-06:00	CA141	2019-04-12 13:56:11-06:00		
DIRECTION 359 deg(T)	36.25970°N 107.62938°W	ACCURACY 5 m DATUM WGS84	DIRECTION 88 deg(T)	36.25973°N 107.62943°W	ACCURACY 5 m DATUM WGS84
CA141	2019-04-12 13:56:25-06:00	CA141	2019-04-12 13:56:39-06:00		



Point ID	CA142
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinedale

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3944283.131	192298.218	2159.914

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.014
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Time: 03-24-2019 16:08
Note: CA142

Time: 03-24-2019 16:08
Note: CA142



Time: 03-24-2019 16:08
Note: CA142

Time: 03-24-2019 16:09
Note: CA142



Point ID	CA143
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Skinney Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4088887.129	176041.892	1573.528

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.89048°N 108.63505°W ACCURACY 5 m DATUM WGS84</p> <p>CA143 HARDPACK DIRT 2018-12-15 19:01:44Z</p>	<p>DIRECTION 90 deg(T) 36.89048°N 108.63505°W ACCURACY 5 m DATUM WGS84</p> <p>CA143 HARDPACK DIRT 2018-12-15 19:01:59Z</p>
<p>DIRECTION 180 deg(T) 36.89048°N 108.63505°W ACCURACY 5 m DATUM WGS84</p> <p>CA143 HARDPACK DIRT 2018-12-15 19:02:13Z</p>	<p>DIRECTION 270 deg(T) 36.89048°N 108.63505°W ACCURACY 5 m DATUM WGS84</p> <p>CA143 HARDPACK DIRT 2018-12-15 19:02:36Z</p>



Point ID	CA144
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Kin Nahzin Ruins

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3962453.908	250693.188	2083.843

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.77453°N 107.75797°W ACCURACY 5 m DATUM WGS84</p> <p>CA144 PVD 2018-12-21 19:05:09Z</p>	<p>DIRECTION 90 deg(T) 35.77453°N 107.75809°W ACCURACY 5 m DATUM WGS84</p> <p>CA144 PVD 2018-12-21 19:05:38Z</p>
<p>DIRECTION 205 deg(T) 35.77459°N 107.75799°W ACCURACY 5 m DATUM WGS84</p> <p>CA144 PVD 2018-12-21 19:05:51Z</p>	<p>DIRECTION 270 deg(T) 35.77458°N 107.75794°W ACCURACY 5 m DATUM WGS84</p> <p>CA144 PVD 2018-12-21 19:06:14Z</p>



Point ID	CA145
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Little Water

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





Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4038740.841	173056.816	1665.714

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/09/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 89 deg(T) 36.43823°N 108.64720°W ACCURACY 5 m DATUM WGS84</p>  <p>CA145 2019-04-09 11:12:55-06:00</p>	<p>DIRECTION 179 deg(T) 36.43827°N 108.64714°W ACCURACY 5 m DATUM WGS84</p>  <p>CA145 2019-04-09 11:13:07-06:00</p>
<p>DIRECTION 271 deg(T) 36.43822°N 108.64709°W ACCURACY 5 m DATUM WGS84</p>  <p>CA145 2019-04-09 11:13:17-06:00</p>	<p>DIRECTION 2 deg(T) 36.43818°N 108.64716°W ACCURACY 5 m DATUM WGS84</p>  <p>CA145 2019-04-09 11:13:28-06:00</p>



Point ID	CA146
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	West of La Vida Mission

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3994418.236	196581.961	1787.281

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.010
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 13:40
Note: CA146

Time: 03-28-2019 13:40
Note: CA146



Time: 03-28-2019 13:40
Note: CA146

Time: 03-28-2019 13:40
Note: CA146



Point ID	CA147
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Standing Rock

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

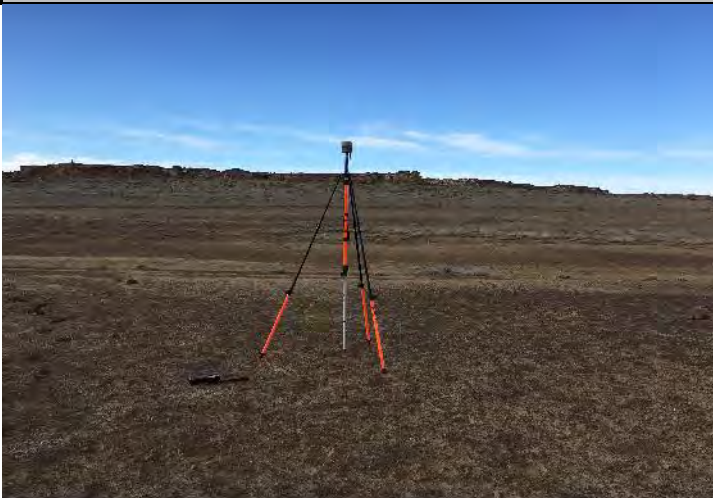
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3968506.524	201253.385	1962.138

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

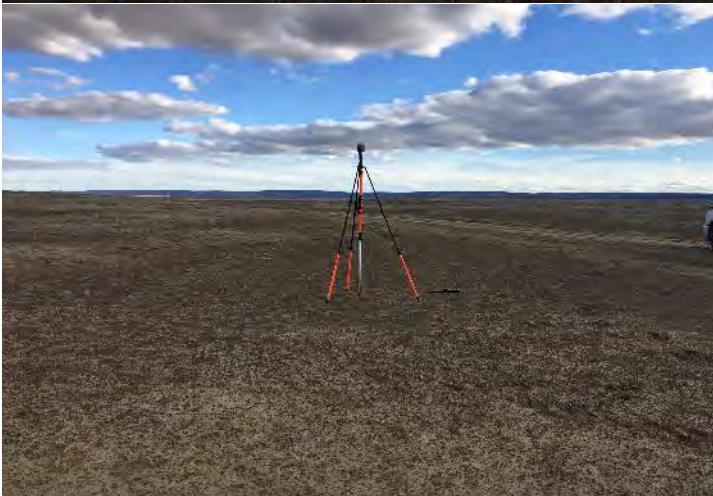
PHOTOS:



CA147 USGS_NM 2019-03-15 23:57:08Z



CA147 USGS_NM 2019-03-15 23:57:19Z



CA147 USGS_NM 2019-03-15 23:57:33Z



CA147 USGS_NM 2019-03-15 23:57:47Z



Point ID	CA148
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	East of Grey Hill Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3989681.515	184517.401	1747.452

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA149
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Archuleta

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4080022.173	265220.129	1950.454

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.010
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA150
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Tsin-nas-kid

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4021640.221	157033.022	1828.408

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA151
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Mesita De Yeso

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3854187.897	164062.726	2151.372

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	Fast Static

PHOTOS:





Point ID	CA152
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4056120.335	226838.648	1853.497

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	CA153
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Red Valley

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4050877.888	136101.085	1933.101

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.53403°N 109.06418°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.53407°N 109.06419°W	ACCURACY 5 m DATUM WGS84
-----------------------	---------------------------	-----------------------------	------------------------	---------------------------	-----------------------------



CA153	PVD	2018-12-17 21:14:17Z	CA153	PVD	2018-12-17 21:15:00Z
DIRECTION 180 deg(T)	36.53411°N 109.06419°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.53406°N 109.06413°W	ACCURACY 5 m DATUM WGS84



CA153	PVD	2018-12-17 21:15:11Z	CA153	PVD	2018-12-17 21:15:28Z
-------	-----	----------------------	-------	-----	----------------------



Point ID	CA154
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Jones Ranch School

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3913580.150	137298.204	2140.707

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



CA154 USGS_NM 2019-03-16 19:14:12Z



CA154 USGS_NM 2019-03-16 19:14:26Z



CA154 USGS_NM 2019-03-16 19:14:37Z



CA154 USGS_NM 2019-03-16 19:14:48Z



Point ID	CA155
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3928263.818	160009.091	2042.218

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.43977°N 108.74512°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.43980°N 108.74515°W	ACCURACY 5 m DATUM WGS84
CA155	PVD	2018-12-20 18:00:44Z	CA155	PVD	2018-12-20 18:00:55Z
DIRECTION 180 deg(T)	35.43986°N 108.74506°W	ACCURACY 5 m DATUM WGS84	DIRECTION 315 deg(T)	35.43981°N 108.74510°W	ACCURACY 5 m DATUM WGS84
CA155	PVD	2018-12-20 18:01:14Z	CA155	PVD	2018-12-20 18:01:56Z



Point ID	CA156
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3927363.158	199827.013	2214.691

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA157
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4043472.439	157217.830	1796.752

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA158
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3946980.019	162425.608	2092.625

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.60904°N 108.72637°W ACCURACY 5 m DATUM WGS84</p> <p>CA158 PVD 2018-12-19 19:49:37Z</p>	<p>DIRECTION 90 deg(T) 35.60904°N 108.72637°W ACCURACY 5 m DATUM WGS84</p> <p>CA158 PVD 2018-12-19 19:49:50Z</p>
<p>DIRECTION 220 deg(T) 35.60904°N 108.72637°W ACCURACY 5 m DATUM WGS84</p> <p>CA158 PVD 2018-12-19 19:50:01Z</p>	<p>DIRECTION 270 deg(T) 35.60904°N 108.72637°W ACCURACY 5 m DATUM WGS84</p> <p>CA158 PVD 2018-12-19 19:50:08Z</p>



Point ID	CA159
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4062600.35	272242.234	2034.152

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



NWNM CA159 2018-11-24 13:30:55-07:00



NWNM CA159 2018-11-24 13:30:49-07:00



NWNM CA159 2018-11-24 13:30:42-07:00



NWNM CA159 2018-11-24 13:30:37-07:00



Point ID	CA160
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Thompson Mesa

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4033852.629	261266.565	2028.836

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA161
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Shoemaker Canyon SE

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3863000.174	172573.456	2144.455

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA162
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Window Rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3956251.806	132289.384	2070.336

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.007
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



CA162 USGS_NM 2019-03-19 23:33:06Z



CA162 USGS_NM 2019-03-19 23:33:13Z



CA162 USGS_NM 2019-03-19 23:33:24Z



CA162 USGS_NM 2019-03-19 23:33:33Z



Point ID	CA163
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Taylor Ranch

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3994537.745	307632.148	2247.906

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA164
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4052823.675	223097.472	1802.180

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA165
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Beacon Well

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3884779.458	111858.670	1953.149

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA166
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3877185.756	121152.861	1991.161

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA167
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Dulce

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4086963.073	324789.155	2114.375

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA168
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fresno Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4047919.286	262857.308	1813.784

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 1 deg(T)</p> <p>36.54723°N 107.64930°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 96 deg(T)</p> <p>36.54725°N 107.64939°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA168</p> <p>2019-04-10 12:06:49-06:00</p> <p>DIRECTION 178 deg(T)</p> <p>36.54732°N 107.64935°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA168</p> <p>2019-04-10 12:07:05-06:00</p> <p>DIRECTION 271 deg(T)</p> <p>36.54729°N 107.64927°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA168</p> <p>2019-04-10 12:07:20-06:00</p>	<p>CA168</p> <p>2019-04-10 12:07:38-06:00</p>



Point ID	CA169
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4028096.384	168466.278	1699.915

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Time: 04-01-2019 16:19
Note: CA169

Time: 04-01-2019 16:19
Note: CA169



Time: 04-01-2019 16:19
Note: CA169

Time: 04-01-2019 16:19
Note: CA169



Point ID	CA170
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Aztec

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4072241.685	234141.512	1745.674

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA171
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fairchild Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3871389.017	104128.343	1931.871

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/02/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA172
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4085991.266	164909.262	1492.559

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA173
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Farmington South

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4059450.320	214843.384	1855.959

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA174
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Star Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3985229.58	285248.936	2074.096

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.014
RMSE Z	0.018
GPS Method	RTK

PHOTOS:

DIRECTION 267 deg(T)	35.98791°N 107.38212°W	ACCURACY 5 m DATUM WGS84	DIRECTION 0 deg(T)	35.98785°N 107.38217°W	ACCURACY 5 m DATUM WGS84
CA174	2019-04-13 11:36:26-06:00	CA174	2019-04-13 11:36:14-06:00		
DIRECTION 93 deg(T)	35.98790°N 107.38222°W	ACCURACY 5 m DATUM WGS84	DIRECTION 180 deg(T)	35.98790°N 107.38219°W	ACCURACY 5 m DATUM WGS84
CA174	2019-04-13 11:36:06-06:00	CA174	2019-04-13 11:35:54-06:00		



Point ID	CA175
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fort Defiance

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3967732.011	130937.983	2273.957

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



CA175 USGS_NM 2019-03-19 18:42:03Z



CA175 USGS_NM 2019-03-19 18:42:15Z



CA175 USGS_NM 2019-03-19 18:42:30Z



CA175 USGS_NM 2019-03-19 18:42:42Z



Point ID	CA176
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chafin Well

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3907352.567	132338.203	2058.167

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA177
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Roof Butte

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4045194.945	133351.458	2314.041

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.48185°N 109.09214°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.48185°N 109.09214°W	ACCURACY 5 m DATUM WGS84
CA177	PVD	2018-12-17 19:24:16Z	CA177	PVD	2018-12-17 19:24:28Z
DIRECTION 180 deg(T)	36.48185°N 109.09214°W	ACCURACY 5 m DATUM WGS84	DIRECTION 280 deg(T)	36.48185°N 109.09214°W	ACCURACY 5 m DATUM WGS84
CA177	PVD	2018-12-17 19:24:43Z	CA177	PVD	2018-12-17 19:24:57Z



Point ID	CA178
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4018032.842	311469.830	2153.097

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA179
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4061638.086	136202.843	1749.612

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.63087°N 109.06807°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.63087°N 109.06807°W	ACCURACY 5 m DATUM WGS84
CA179	PVD	2018-12-16 17:07:17Z	CA179	PVD	2018-12-16 17:07:32Z
DIRECTION 180 deg(T)	36.63087°N 109.06807°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.63087°N 109.06807°W	ACCURACY 5 m DATUM WGS84
CA179	PVD	2018-12-16 17:07:48Z	CA179	PVD	2018-12-16 17:08:01Z



Point ID	CA180
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Alto Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3984815.464	263384.014	2012.446

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 175 deg(T)</p> <p>35.97913°N 107.62441°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA180</p> <p>2019-04-13 13:53:10-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>35.97911°N 107.62446°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA180</p> <p>2019-04-13 13:52:57-06:00</p>
<p>DIRECTION 358 deg(T)</p> <p>35.97908°N 107.62440°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA180</p> <p>2019-04-13 13:52:48-06:00</p>	<p>DIRECTION 272 deg(T)</p> <p>35.97910°N 107.62436°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA180</p> <p>2019-04-13 13:52:39-06:00</p>



Point ID	CA181
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4041423.202	208410.396	1997.319

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA182
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Anastacio Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4096106.643	264794.728	2177.521

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.632 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



NWNM CA182 2018-11-23 11:14:50-07:00

NWNM CA182 2018-11-23 11:14:45-07:00



NWNM CA182 2018-11-23 11:14:39-07:00



NWNM CA182 2018-11-23 11:14:34-07:00



Point ID	CA183
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Laguna Castillo

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3954416.420	228877.621	2030.305

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



CA183 USGS_NM 2019-03-14 22:59:38Z



CA183 USGS_NM 2019-03-14 22:59:51Z



CA183 USGS_NM 2019-03-14 23:00:04Z



CA183 USGS_NM 2019-03-14 23:00:16Z



Point ID	CA184
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Stinking Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3839588.025	86316.022	1728.118

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/03/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	Fast Static

PHOTOS:





Point ID	CA185
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3920500.932	153358.830	2134.838

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA186
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3989762.466	281909.582	2117.800

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.011
RMSE Z	0.015
GPS Method	RTK

PHOTOS:

<p>DIRECTION 85 deg(T) 36.02798°N 107.42047°W ACCURACY 5 m DATUM WGS84</p> <p>CA186 2019-04-13 11:59:11-06:00</p>	<p>DIRECTION 356 deg(T) 36.02794°N 107.42044°W ACCURACY 5 m DATUM WGS84</p> <p>CA186 2019-04-13 11:59:02-06:00</p>
<p>DIRECTION 268 deg(T) 36.02798°N 107.42043°W ACCURACY 5 m DATUM WGS84</p> <p>CA186 2019-04-13 11:58:48-06:00</p>	<p>DIRECTION 181 deg(T) 36.02802°N 107.42047°W ACCURACY 5 m DATUM WGS84</p> <p>CA186 2019-04-13 11:58:36-06:00</p>



Point ID	CA187
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4088298.731	136021.784	1842.599

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA188
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Lupton

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3909633.208	126202.872	1940.705

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



CA188 USGS_NM 2019-03-12 01:01:26Z



CA188 USGS_NM 2019-03-12 01:01:37Z



CA188 USGS_NM 2019-03-12 01:01:48Z



CA188 USGS_NM 2019-03-12 01:01:56Z



Point ID	CA189
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3986622.311	170702.015	1820.217

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 12:16
Note: CA189

Time: 03-28-2019 12:16
Note: CA189



Time: 03-28-2019 12:16
Note: CA189

Time: 03-28-2019 12:17
Note: CA189



Point ID	CA190
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sheep Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4006402.216	166349.482	1792.341

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-29-2019 11:22
Note: CA190

Time: 03-29-2019 11:22
Note: CA190



Time: 03-29-2019 11:22
Note: CA190

Time: 03-29-2019 11:22
Note: CA190



Point ID	CA191
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	The Dyke

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3850245.507	169665.344	2152.735

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA192
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4037614.647	203103.214	1940.94

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	CA193
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4042076.240	238115.909	2004.619

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



NWNM CA193 2018-11-26 14:26:08-07:00

NWNM CA193 2018-11-26 14:26:13-07:00



NWNM CA193 2018-11-26 14:26:19-07:00

NWNM CA193 2018-11-26 14:26:23-07:00



Point ID	CA194
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4088336.544	139402.548	1694.843

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA194A
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4074306.720	137589.813	1865.521

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.74531°N 109.05868°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.74531°N 109.05868°W	ACCURACY 5 m DATUM WGS84
CA194	PVD	2018-12-16 18:35:20Z	CA194	PVD	2018-12-16 18:35:36Z
DIRECTION 135 deg(T)	36.74536°N 109.05868°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.74532°N 109.05862°W	ACCURACY 5 m DATUM WGS84
CA194	PVD	2018-12-16 18:37:39Z	CA194	PVD	2018-12-16 18:39:47Z



Point ID	CA195
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cordova Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4081825.560	329381.738	2257.518

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA196
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3930788.490	196654.770	2175.535

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/12/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



CA196 USGS_NM 2019-03-12 22:49:22Z



CA196 USGS_NM 2019-03-12 22:49:33Z



CA196 USGS_NM 2019-03-12 22:49:43Z



CA196 USGS_NM 2019-03-12 22:49:54Z



Point ID	CA197
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Turley

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4081256.631	249675.949	1914.299

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA198
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4013826.576	297285.157	2196.179

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.015
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA199
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3903984.924	166958.722	2095.613

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



CA199 USGS_NM 2019-03-17 18:53:53Z



CA199 USGS_NM 2019-03-17 18:54:07Z



CA199 USGS_NM 2019-03-17 18:54:20Z



CA199 USGS_NM 2019-03-17 18:54:36Z



Point ID	CA200
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Mesita de Yeso

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3857473.792	163979.817	2093.920

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Note: CA200



Note: CA200



Note: CA200



Note: CA200



Point ID	CA201
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togety Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3884227.930	180957.885	2146.514

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

<p>DIRECTION 271 deg(T) 35.05031°N 108.49768°W ACCURACY 5 m DATUM WGS84</p> <p>CA201 2019-04-16 14:37:21-06:00</p>	<p>DIRECTION 3 deg(T) 35.05032°N 108.49773°W ACCURACY 5 m DATUM WGS84</p> <p>CA201 2019-04-16 14:37:38-06:00</p>
<p>DIRECTION 91 deg(T) 35.05037°N 108.49776°W ACCURACY 5 m DATUM WGS84</p> <p>CA201 2019-04-16 14:37:48-06:00</p>	<p>DIRECTION 181 deg(T) 35.05044°N 108.49770°W ACCURACY 5 m DATUM WGS84</p> <p>CA201 2019-04-16 14:37:57-06:00</p>



Point ID	CA202
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3900376.402	170367.830	2110.760

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	CA203
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4048557.363	188055.261	1637.166

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA204
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

Aerial Target	
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4044927.778	162220.894	1772.761

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA205
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Oak Spring

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3961225.055	189789.846	2049.644

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Time: 03-21-2019 17:49
Note: CA205

Time: 03-21-2019 17:49
Note: CA205



Time: 03-21-2019 17:50
Note: CA205

Time: 03-21-2019 17:50
Note: CA205



Point ID	CA206
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4095361.246	341513.482	2387.633

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: CA206



Note: CA206



Note: CA206



Note: CA206



Point ID	CA207
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Chimney Rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4073075.853	185029.834	1532.379

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA208
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3876457.059	193768.497	2179.404

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:

<p>DIRECTION 359 deg(T)</p> <p>34.98430°N 108.35458°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA208</p> <p>2019-04-15 12:20:09-06:00</p>	<p>DIRECTION 270 deg(T)</p> <p>34.98439°N 108.35455°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA208</p> <p>2019-04-15 12:20:22-06:00</p>
<p>DIRECTION 182 deg(T)</p> <p>34.98445°N 108.35459°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA208</p> <p>2019-04-15 12:20:31-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>34.98441°N 108.35464°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA208</p> <p>2019-04-15 12:20:48-06:00</p>



Point ID	CA209
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Tafoya Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4026026.315	279450.764	1947.266

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 90 deg(T)</p> <p>36.35407°N 107.45795°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 0 deg(T)</p> <p>36.35405°N 107.45792°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA209</p> <p>2019-04-11 15:47:56-06:00</p> <p>DIRECTION 265 deg(T)</p> <p>36.35408°N 107.45785°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA209</p> <p>2019-04-11 15:48:07-06:00</p> <p>DIRECTION 178 deg(T)</p> <p>36.35412°N 107.45791°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA209</p> <p>2019-04-11 15:48:23-06:00</p>	<p>CA209</p> <p>2019-04-11 15:48:34-06:00</p>



Point ID	CA210
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4039713.984	252809.381	1962.395

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA211
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	EI Morr0

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3882874.525	199401.125	2223.974

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK





Point ID	CA212
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Prospect Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3866431.885	107099.920	1841.278

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/02/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	CA213
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cement Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4064470.682	314888.108	2154.949

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA214
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4022784.548	250407.874	2063.150

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/04/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 174 deg(T)</p> <p>CA214</p>	<p>36.31782°N 107.78020°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>2019-04-04 16:09:30-06:00</p>	<p>DIRECTION 83 deg(T)</p> <p>CA214</p>	<p>36.31780°N 107.78024°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>2019-04-04 16:09:43-06:00</p>
<p>DIRECTION 3 deg(T)</p> <p>CA214</p>	<p>36.31778°N 107.78021°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>2019-04-04 16:09:57-06:00</p>	<p>DIRECTION 275 deg(T)</p> <p>CA214</p>	<p>36.31779°N 107.78018°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>2019-04-04 16:10:12-06:00</p>



Point ID	CA215
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

	Aerial Target
x	LiDAR Ground Control
	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4038995.232	319690.190	2271.099

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA216
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4065783.917	274920.819	1900.421

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA217
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Orphan Annie Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3951517.234	245384.057	2158.296

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)			35.67467°N 107.81320°W			ACCURACY 5 m DATUM WGS84			DIRECTION 90 deg(T)			35.67470°N 107.81323°W			ACCURACY 5 m DATUM WGS84		
CA217			PVD			2018-12-21 21:33:06Z			CA217			PVD			2018-12-21 21:33:21Z		
DIRECTION 190 deg(T)			35.67474°N 107.81321°W			ACCURACY 5 m DATUM WGS84			DIRECTION 260 deg(T)			35.67472°N 107.81316°W			ACCURACY 5 m DATUM WGS84		
CA217			PVD			2018-12-21 21:33:35Z			CA217			PVD			2018-12-21 21:33:49Z		



Point ID	CA218
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	John Mills Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4074297.672	318335.049	2284.199

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA219
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	The Dyke

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3840621.555	168228.272	2158.563

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA220
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnham Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4026586.127	187240.853	1682.637

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.010
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Time: 04-01-2019 13:12
Note: CA220

Time: 04-01-2019 13:12
Note: CA220



Time: 04-01-2019 13:12
Note: CA220

Time: 04-01-2019 13:12
Note: CA220



Point ID	CA221
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Yellow Hill

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4049246.943	161711.940	1709.356

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:

<p>DIRECTION 90 deg(T) 36.52881°N 108.77811°W ACCURACY 5 m DATUM WGS84</p> <p>CA221 2019-04-07 14:39:06-06:00</p>	<p>DIRECTION 354 deg(T) 36.52876°N 108.77803°W ACCURACY 5 m DATUM WGS84</p> <p>CA221 2019-04-07 14:39:18-06:00</p>
<p>DIRECTION 270 deg(T) 36.52881°N 108.77799°W ACCURACY 5 m DATUM WGS84</p> <p>CA221 2019-04-07 14:39:31-06:00</p>	<p>DIRECTION 183 deg(T) 36.52886°N 108.77805°W ACCURACY 5 m DATUM WGS84</p> <p>CA221 2019-04-07 14:39:39-06:00</p>



Point ID	CA222
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Aztec

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4077498.604	240093.355	1948.321

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA223
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sonsela Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3999439.135	135531.461	2225.759

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/27/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA224
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Turley

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4070950.106	252985.492	1717.575

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA225
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3870432.512	112740.997	1895.145

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA226
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Wild Cow Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4006607.122	289673.236	2053.167

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico CA226 2019-02-15 12:17:07-07:00

USGS NW New Mexico CA226 2019-02-15 12:17:02-07:00



USGS NW New Mexico CA226 2019-02-15 12:16:57-07:00

USGS NW New Mexico CA226 2019-02-15 12:16:51-07:00



Point ID	CA226A
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3870292.042	112670.154	1894.920

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	CA227
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinedale

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3937519.991	187138.138	2131.602

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.012
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Time: 03-24-2019 13:18
Note: CA227

Time: 03-24-2019 13:18
Note: CA227



Time: 03-24-2019 13:18
Note: CA227

Time: 03-24-2019 13:18
Note: CA227



Point ID	CA228A
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfanito Peak

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4045991.774	244854.654	2006.34

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA228
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	East Kutz Canyon

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4049830.062	241681.444	1868.906

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	CA229
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Fairchild Well

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3869695.736	106299.028	1879.332

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA230
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4006558.858	259092.511	2097.559

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 182 deg(T)</p> <p>36.17390°N 107.67860°W</p> <p>ACCURACY 5 m DATUM WGS84</p> 	<p>DIRECTION 268 deg(T)</p> <p>36.17392°N 107.67857°W</p> <p>ACCURACY 5 m DATUM WGS84</p> 
<p>CA230</p> <p>2019-04-14 13:32:28-06:00</p> <p>DIRECTION 91 deg(T)</p> <p>36.17383°N 107.67866°W</p> <p>ACCURACY 5 m DATUM WGS84</p> 	<p>CA230</p> <p>2019-04-14 13:32:45-06:00</p> <p>DIRECTION 359 deg(T)</p> <p>36.17384°N 107.67858°W</p> <p>ACCURACY 5 m DATUM WGS84</p> 
<p>CA230</p> <p>2019-04-14 13:34:07-06:00</p>	<p>CA230</p> <p>2019-04-14 13:34:26-06:00</p>



Point ID	CA231
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3880574.362	164279.900	2186.623

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



CA231 USGS_NM 2019-03-18 23:48:31Z



CA231 USGS_NM 2019-03-18 23:48:49Z



CA231 USGS_NM 2019-03-18 23:49:43Z



CA231 USGS_NM 2019-03-18 23:49:50Z



Point ID	CA232
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4063360.056	201354.513	1705.368

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.66898°N 108.34150°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.66904°N 108.34155°W	ACCURACY 5 m DATUM WGS84
CA232	PVD	2018-12-14 19:32:39Z	CA232	PVD	2018-12-14 19:32:59Z
DIRECTION 180 deg(T)	36.66907°N 108.34149°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.66906°N 108.34148°W	ACCURACY 5 m DATUM WGS84
CA232	PVD	2018-12-14 19:33:14Z	CA232	PVD	2018-12-14 19:33:28Z



Point ID	CA233
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4025282.973	269395.476	2151.217

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 92 deg(T)</p> <p>36.34502°N 107.56969°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA233 2019-04-11 11:30:20-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.34497°N 107.56966°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA233 2019-04-11 11:30:33-06:00</p>
<p>DIRECTION 268 deg(T)</p> <p>36.34499°N 107.56961°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA233 2019-04-11 11:30:43-06:00</p>	<p>DIRECTION 184 deg(T)</p> <p>36.34506°N 107.56965°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA233 2019-04-11 11:30:57-06:00</p>



Point ID	CA234
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Fence Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3842366.302	162989.354	2135.127

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico

CA234

2019-02-14
16:31:00-07:00

USGS NW New Mexico

CA234

2019-02-14
16:30:56-07:00



USGS NW New Mexico

CA234

2019-02-14
16:30:51-07:00

USGS NW New Mexico

CA234

2019-02-14
16:30:47-07:00



Point ID	CA235
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Crystal

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3995557.922	142406.048	2307.265

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	CA236
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sallies Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4100374.054	144552.374	1427.441

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA237	Aerial Target	Coordinate System
Project No.	R034271	X LiDAR Ground Control	NAD83(2011)
Project Name	NW New Mexico	LiDAR QC Point	UTM 13
State	New Mexico	New Control	NAVD88
County	Rio Arriba	Photo ID	GEOID12B
Quad	Cordova Canyon	Published Control	METERS

Northing	Easting	Elevation
4079947.100	320464.332	2187.733

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA238
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Great Bend

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4008093.636	178290.972	1726.299

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Time: 03-30-2019 17:24
Note: CA238

Time: 03-30-2019 17:25
Note: CA238



Time: 03-30-2019 17:25
Note: CA238

Time: 03-30-2019 17:25
Note: CA238



Point ID	CA239
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lybrook

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4012004.062	273636.944	2110.810

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:

<p>DIRECTION 88 deg(T)</p> <p>36.22640°N 107.51861°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA239</p> <p>2019-04-12 10:39:00-06:00</p> <p>DIRECTION 269 deg(T)</p> <p>36.22641°N 107.51851°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 182 deg(T)</p> <p>36.22647°N 107.51854°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA239</p> <p>2019-04-12 10:39:14-06:00</p> <p>DIRECTION 359 deg(T)</p> <p>36.22638°N 107.51856°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA239</p> <p>2019-04-12 10:38:41-06:00</p>	<p>CA239</p> <p>2019-04-12 10:38:51-06:00</p>



Point ID	CA240
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3989724.710	266744.685	2088.127

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:

<p>DIRECTION 178 deg(T)</p> <p>CA240A</p>	<p>36.02419°N 107.58862°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 92 deg(T)</p> <p>CA240A</p>	<p>36.02412°N 107.58868°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 357 deg(T)</p> <p>CA240A</p>	<p>36.02411°N 107.58860°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 266 deg(T)</p> <p>CA240A</p>	<p>36.02415°N 107.58857°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION</p> <p>CA240A</p>	<p>36.02411°N 107.58860°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION</p> <p>CA240A</p>	<p>36.02415°N 107.58857°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION</p> <p>CA240A</p>	<p>36.02411°N 107.58860°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION</p> <p>CA240A</p>	<p>36.02415°N 107.58857°W</p> <p>ACCURACY 5 m DATUM WGS84</p>



Point ID	CA241
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bixler Ranch

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4079579.446	306676.542	2231.927

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: CA241

Note: CA241



Note: CA241

Note: CA241



Point ID	CA242
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3909043.728	158532.201	2171.362

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	CA243
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3929327.579	202196.663	2313.764

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/12/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



CA243 USGS_NM 2019-03-12 21:31:13Z



CA243 USGS_NM 2019-03-12 21:31:22Z



CA243 USGS_NM 2019-03-12 21:31:33Z



CA243 USGS_NM 2019-03-12 21:31:41Z



Point ID	CA244
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee West

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





Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4038784.637	145495.529	1933.376

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:

<p>DIRECTION 359 deg(T)</p> <p>36.42878°N 108.95396°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA244</p> <p>2019-04-07 13:01:48-06:00</p>	<p>DIRECTION 270 deg(T)</p> <p>36.42881°N 108.95393°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA244</p> <p>2019-04-07 13:01:59-06:00</p>
<p>DIRECTION 180 deg(T)</p> <p>36.42886°N 108.95395°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA244</p> <p>2019-04-07 13:02:09-06:00</p>	<p>DIRECTION 94 deg(T)</p> <p>36.42883°N 108.95400°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA244</p> <p>2019-04-07 13:02:20-06:00</p>



Point ID	CA245
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3913876.948	150463.400	2159.810

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA246
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4043501.534	152811.599	1857.641

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:

<p>DIRECTION 196 deg(T)</p> <p>36.47397°N 108.87462°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA246</p> <p>2019-04-07 11:08:03-06:00</p>	<p>DIRECTION 267 deg(T)</p> <p>36.47395°N 108.87461°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA246</p> <p>2019-04-07 11:08:22-06:00</p>
<p>DIRECTION 356 deg(T)</p> <p>36.47392°N 108.87465°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA246</p> <p>2019-04-07 11:08:36-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>36.47396°N 108.87468°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA246</p> <p>2019-04-07 11:08:49-06:00</p>



Point ID	CA247
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Schnebly Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3845299.852	107238.845	1742.882

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA248
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Alamo Mesa East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4019035.544	226386.054	1881.381

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 2 deg(T)</p> <p>36.27747°N 108.04616°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA248</p> <p>2019-04-05 10:16:55-06:00</p>	<p>DIRECTION 274 deg(T)</p> <p>36.27750°N 108.04610°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA248</p> <p>2019-04-05 10:17:05-06:00</p>
<p>DIRECTION 188 deg(T)</p> <p>36.27754°N 108.04614°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA248</p> <p>2019-04-05 10:17:21-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>36.27751°N 108.04617°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA248</p> <p>2019-04-05 10:17:28-06:00</p>



Point ID	CA249
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Deep Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3889994.194	119408.025	1976.798

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA250
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindreth

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4026286.912	312636.598	2156.933

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA251
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4044070.533	226982.122	1852.019

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA252
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Schnebly Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3850044.919	109687.607	1742.347

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.008
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	CA253
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4017806.987	315951.326	2205.787

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA254
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cement Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4067020.310	321437.213	2217.818

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA255
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	East Kutz Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4055186.142	241798.562	1850.989

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA256
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Fence Lake

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3840886.812	160635.072	2178.495

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.016
RMSE Z	0.019
GPS Method	RTK

PHOTOS:





Point ID	CA257
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3944267.915	175841.071	2075.815

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.58907°N 108.57747°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.58911°N 108.57750°W	ACCURACY 5 m DATUM WGS84
CA257	PVD	2018-12-20 19:16:46Z	CA257	PVD	2018-12-20 19:16:57Z
DIRECTION 180 deg(T)	35.58914°N 108.57748°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.58911°N 108.57746°W	ACCURACY 5 m DATUM WGS84
CA257	PVD	2018-12-20 19:17:15Z	CA257	PVD	2018-12-20 19:17:35Z



Point ID	CA258
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3859728.756	112266.977	1821.939

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/02/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Time: 02-02-2019 16:29
Note: CA258



Time: 02-02-2019 16:29
Note: CA258



Time: 02-02-2019 16:29
Note: CA258



Time: 02-02-2019 16:29
Note: CA258



Point ID	CA259
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Whitehorse

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3967161.511	251832.223	2031.571

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.81722°N 107.74687°W ACCURACY 5 m DATUM WGS84</p> <p>CA259 PVD 2018-12-21 18:02:12Z</p>	<p>DIRECTION 90 deg(T) 35.81726°N 107.74690°W ACCURACY 5 m DATUM WGS84</p> <p>CA259 PVD 2018-12-21 18:02:28Z</p>
<p>DIRECTION 180 deg(T) 35.81729°N 107.74686°W ACCURACY 5 m DATUM WGS84</p> <p>CA259 PVD 2018-12-21 18:02:44Z</p>	<p>DIRECTION 270 deg(T) 35.81726°N 107.74680°W ACCURACY 5 m DATUM WGS84</p> <p>CA259 PVD 2018-12-21 18:02:57Z</p>



Point ID	CA260
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Milk Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3978955.778	217359.420	1893.496

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.008
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



CA260 USGS_NM 2019-03-14 20:14:08Z



CA260 USGS_NM 2019-03-14 20:14:19Z



CA260 USGS_NM 2019-03-14 20:14:32Z



CA260 USGS_NM 2019-03-14 20:14:45Z



Point ID	CA261
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Long H Ranch

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3867898.756	94306.809	1972.426

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/02/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	CA262
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Manuelito

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3930550.287	141634.001	1918.87

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



CA262 USGS_NM 2019-03-10 19:10:45Z



CA262 USGS_NM 2019-03-10 19:10:53Z



CA262 USGS_NM 2019-03-10 19:11:05Z



CA262 USGS_NM 2019-03-10 19:11:22Z



Point ID	CA263
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hunter Wash

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4007773.593	201453.528	1807.549

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 04-02-2019 15:59
Note: CA263

Time: 04-02-2019 16:00
Note: CA263



Time: 04-02-2019 16:00
Note: CA263

Time: 04-02-2019 16:00
Note: CA263



Point ID	CA264
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4036840.382	196817.616	1801.246

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.42890°N 108.38176°W ACCURACY 5 m DATUM WGS84</p> <p>CA264 PVD 2018-12-14 15:52:14Z</p>	<p>DIRECTION 90 deg(T) 36.42891°N 108.38185°W ACCURACY 5 m DATUM WGS84</p> <p>CA264 PVD 2018-12-14 15:52:41Z</p>
<p>DIRECTION 180 deg(T) 36.42897°N 108.38179°W ACCURACY 5 m DATUM WGS84</p> <p>CA264 PVD 2018-12-14 15:52:59Z</p>	<p>DIRECTION 270 deg(T) 36.42893°N 108.38172°W ACCURACY 5 m DATUM WGS84</p> <p>CA264 PVD 2018-12-14 15:53:25Z</p>



Point ID	CA265
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Buell Park

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3987730.528	138040.007	2225.471

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-26-2019 13:45
Note: CA265

Time: 03-26-2019 13:46
Note: CA265



Time: 03-26-2019 13:46
Note: CA265

Time: 03-26-2019 13:46
Note: CA265



Point ID	CA266
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4041987.268	153012.353	1882.817

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	Fast Static

PHOTOS:





Point ID	CA267
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Anastacio Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4089131.272	257619.590	1868.938

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA268
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Heart Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3948120.207	221915.577	2151.08

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA269
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4004886.985	254588.652	2066.154

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 2 deg(T)</p> <p>36.15764°N 107.72808°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 271 deg(T)</p> <p>36.15766°N 107.72803°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA269</p> <p>2019-04-14 14:19:20-06:00</p> <p>DIRECTION 180 deg(T)</p> <p>36.15771°N 107.72808°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA269</p> <p>2019-04-14 14:19:31-06:00</p> <p>DIRECTION 89 deg(T)</p> <p>36.15768°N 107.72812°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA269</p> <p>2019-04-14 14:19:49-06:00</p>	<p>CA269</p> <p>2019-04-14 14:19:57-06:00</p>



Point ID	CA270
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb SE

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

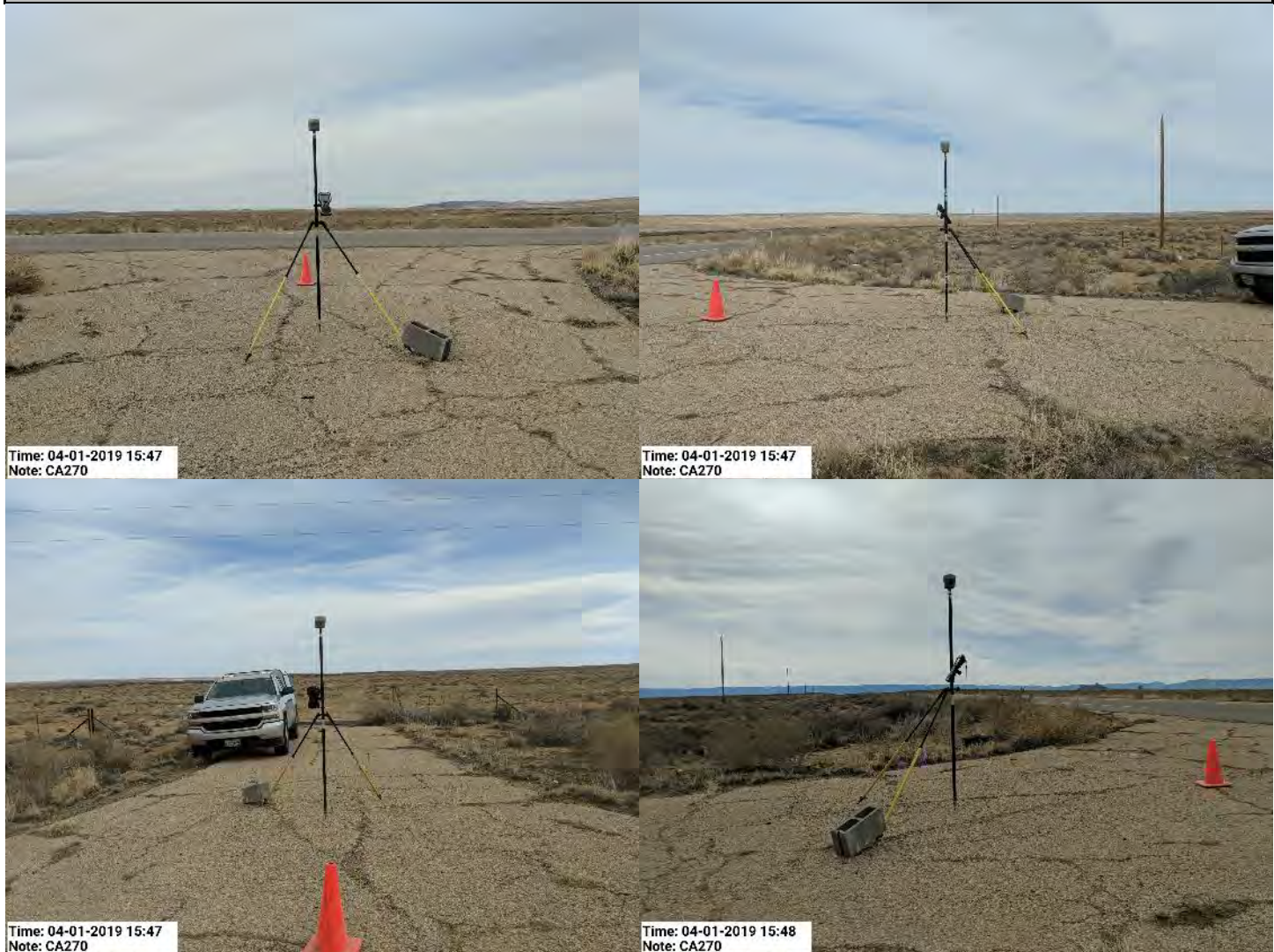
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4030240.052	178082.884	1653.404

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA271
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4020199.686	175473.128	1699.860

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/09/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 274 deg(T)</p> <p>36.27221°N 108.61243°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA271</p> <p>2019-04-09 13:03:32-06:00</p> <p>DIRECTION 91 deg(T)</p> <p>36.27224°N 108.61253°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA271</p> <p>2019-04-09 13:03:59-06:00</p>	<p>DIRECTION 2 deg(T)</p> <p>36.27220°N 108.61248°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA271</p> <p>2019-04-09 13:03:47-06:00</p> <p>DIRECTION 176 deg(T)</p> <p>36.27229°N 108.61250°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA271</p> <p>2019-04-09 13:04:11-06:00</p>
---	--



Point ID	CA272
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3938045.926	166545.372	2002.001

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)		35.52998°N 108.67730°W		ACCURACY 5 m DATUM WGS84		DIRECTION 90 deg(T)		35.52998°N 108.67730°W		ACCURACY 5 m DATUM WGS84	
CA272		PVD		2018-12-19 20:51:21Z		CA272		PVD		2018-12-19 20:51:31Z	
DIRECTION 145 deg(T)		35.52998°N 108.67730°W		ACCURACY 5 m DATUM WGS84		DIRECTION 270 deg(T)		35.52998°N 108.67730°W		ACCURACY 5 m DATUM WGS84	
CA272		PVD		2018-12-19 20:51:48Z		CA272		PVD		2018-12-19 20:52:00Z	



Point ID	CA273
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4026652.379	197388.988	1800.725

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	CA274
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4015153.701	267793.410	2205.358

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:

DIRECTION 359 deg(T)	36.25341°N 107.58449°W	ACCURACY 5 m DATUM WGS84	DIRECTION 92 deg(T)	36.25342°N 107.58450°W	ACCURACY 5 m DATUM WGS84
CA274		2019-04-12 16:08:00-06:00	CA274		2019-04-12 16:08:14-06:00
DIRECTION 181 deg(T)	36.25345°N 107.58445°W	ACCURACY 5 m DATUM WGS84	DIRECTION 271 deg(T)	36.25341°N 107.58441°W	ACCURACY 5 m DATUM WGS84
CA274		2019-04-12 16:08:29-06:00	CA274		2019-04-12 16:08:40-06:00



Point ID	CA275
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Little Water

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4039396.723	166450.085	1694.289

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.012
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	CA276
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4080780.089	141361.561	1717.445

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA277
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fresno Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4056180.981	259868.314	1771.298

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 274 deg(T)</p> <p>36.62096°N 107.68527°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA277</p> <p>2019-04-10 12:44:28-06:00</p>	<p>DIRECTION 184 deg(T)</p> <p>36.62098°N 107.68529°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA277</p> <p>2019-04-10 12:44:45-06:00</p>
<p>DIRECTION 91 deg(T)</p> <p>36.62095°N 107.68532°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA277</p> <p>2019-04-10 12:44:56-06:00</p>	<p>DIRECTION 1 deg(T)</p> <p>36.62088°N 107.68526°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>CA277</p> <p>2019-04-10 12:45:16-06:00</p>



Point ID	CA278
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Uranium Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3934149.63	117974.457	2178.033

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



CA278 USGS_NM 2019-03-20 16:28:53Z



CA278 USGS_NM 2019-03-20 16:29:07Z



CA278 USGS_NM 2019-03-20 16:29:20Z



CA278 USGS_NM 2019-03-20 16:29:32Z



Point ID	CA279
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Togey Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3889989.790	184903.633	2162.106

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:

<p>DIRECTION 270 deg(T)</p> <p>35.10348°N 108.45666°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 178 deg(T)</p> <p>35.10355°N 108.45669°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA279</p> <p>2019-04-16 12:24:06-06:00</p> <p>DIRECTION 359 deg(T)</p> <p>35.10345°N 108.45671°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>CA279</p> <p>2019-04-16 12:23:33-06:00</p> <p>DIRECTION 92 deg(T)</p> <p>35.10349°N 108.45676°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>CA279</p> <p>2019-04-16 12:23:56-06:00</p>	<p>CA279</p> <p>2019-04-16 12:23:46-06:00</p>



Point ID	CA280
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Narbona Pass

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3991519.790	159459.568	2344.464

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Note: CA280



Note: CA280



Note: CA280



Note: CA280



Point ID	CA281
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chuska Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3962825.146	162656.099	1895.388

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	CA282
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee West

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4032670.438	152156.375	1852.512

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/08/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 181 deg(T)</p> <p>36.37634°N 108.87709°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA282</p> <p>2019-04-08 10:25:55-06:00</p>	<p>DIRECTION 270 deg(T)</p> <p>36.37630°N 108.87706°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA282</p> <p>2019-04-08 10:26:09-06:00</p>
<p>DIRECTION 359 deg(T)</p> <p>36.37626°N 108.87710°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA282</p> <p>2019-04-08 10:26:20-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>36.37628°N 108.87714°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA282</p> <p>2019-04-08 10:26:33-06:00</p>



Point ID	CA283
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3978432.445	170321.197	1829.652

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 03-23-2019 17:04
Note: CA283

Time: 03-23-2019 17:04
Note: CA283



Time: 03-23-2019 17:05
Note: CA283

Time: 03-23-2019 17:05
Note: CA283



Point ID	CA284
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Upper Galestina Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3866290.344	164415.828	2164.079

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	CA285
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Teec Nos Pos

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4102385.911	141012.395	1420.972

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA286
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gonzales Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4033132.868	277970.163	1909.504

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	FS

PHOTOS:

<p>DIRECTION 178 deg(T)</p> <p>36.41774°N 107.47641°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA286</p> <p>2019-04-10 16:56:45-06:00</p>	<p>DIRECTION 91 deg(T)</p> <p>36.41775°N 107.47650°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA286</p> <p>2019-04-10 16:56:57-06:00</p>
<p>DIRECTION 1 deg(T)</p> <p>36.41771°N 107.47647°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA286</p> <p>2019-04-10 16:57:06-06:00</p>	<p>DIRECTION 269 deg(T)</p> <p>36.41772°N 107.47641°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA286</p> <p>2019-04-10 16:57:17-06:00</p>



Point ID	CA287
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4019261.873	196897.783	1735.519

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	CA288
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4056921.081	275394.962	2013.431

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA289
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3863434.017	112422.805	1917.896

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/03/2019
RMSE Hz	0.005
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:





Point ID	CA290
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4070483.667	137676.359	1749.217

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.71091°N 109.05589°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.71096°N 109.05596°W	ACCURACY 5 m DATUM WGS84
CA290	PVD	2018-12-16 18:11:44Z	CA290	PVD	2018-12-16 18:12:04Z
DIRECTION 180 deg(T)	36.71101°N 109.05589°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.71095°N 109.05583°W	ACCURACY 5 m DATUM WGS84
CA290	PVD	2018-12-16 18:13:50Z	CA290	PVD	2018-12-16 18:14:21Z



Point ID	CA291
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post SW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4025558.823	235120.985	2046.587

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/04/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	FS

PHOTOS:

<p>DIRECTION 280 deg(T)</p> <p>36.33863°N 107.95118°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA291</p> <p>2019-04-04 13:31:11-06:00</p>	<p>DIRECTION 185 deg(T)</p> <p>36.33869°N 107.95120°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA291</p> <p>2019-04-04 13:31:21-06:00</p>
<p>DIRECTION 100 deg(T)</p> <p>36.33869°N 107.95124°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA291</p> <p>2019-04-04 13:31:32-06:00</p>	<p>DIRECTION 18 deg(T)</p> <p>36.33864°N 107.95120°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>CA291</p> <p>2019-04-04 13:31:46-06:00</p>



Point ID	CA292
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Fence Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3848409.198	163109.536	2115.537

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA293
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Nicoll Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3870815.263	183393.426	2232.665

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 0 deg(T) 34.93038°N 108.46596°W ACCURACY 5 m DATUM WGS84</p> 	<p>DIRECTION 270 deg(T) 34.93043°N 108.46592°W ACCURACY 5 m DATUM WGS84</p> 
<p>CA293 2019-04-15 14:12:15-06:00 DIRECTION 179 deg(T) 34.93047°N 108.46596°W ACCURACY 5 m DATUM WGS84</p> 	<p>CA293 2019-04-15 14:12:25-06:00 DIRECTION 91 deg(T) 34.93045°N 108.46601°W ACCURACY 5 m DATUM WGS84</p> 
<p>CA293 2019-04-15 14:12:35-06:00</p> 	<p>CA293 2019-04-15 14:12:46-06:00</p> 



Point ID	CA294
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4015319.332	245104.875	2083.077

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



CA294

2019-04-05
16:04:58-06:00



CA294

2019-04-05
16:05:06-06:00



CA294

2019-04-05
16:05:16-06:00



CA294

2019-04-05
16:05:24-06:00



Point ID	CA295
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4036446.438	245840.880	2037.516

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



NWNM CA295 2018-11-27 12:49:29-07:00

NWNM CA295 2018-11-27 12:49:24-07:00



NWNM CA295 2018-11-27 12:49:18-07:00

NWNM CA295 2018-11-27 12:49:12-07:00



Point ID	CA296
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook SE

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3996185.222	272808.254	2107.881

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:

<p>DIRECTION 271 deg(T)</p> <p>CA296</p>	<p>36.08377°N 107.52315°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 0 deg(T)</p> <p>CA296</p>	<p>36.08371°N 107.52321°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>2019-04-13 10:03:51-06:00</p>	<p>2019-04-13 10:03:39-06:00</p>	<p>DIRECTION 92 deg(T)</p> <p>CA296</p>	<p>36.08377°N 107.52327°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>2019-04-13 10:03:24-06:00</p>	<p>2019-04-13 10:03:09-06:00</p>	<p>DIRECTION 193 deg(T)</p> <p>CA296</p>	<p>36.08382°N 107.52314°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>2019-04-13 10:03:24-06:00</p>	<p>2019-04-13 10:03:09-06:00</p>		



Point ID	CA297
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4054813.054	210741.914	1809.313

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA298
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Hunters Point

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3941804.271	128299.647	2029.071

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.017
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



CA298 USGS_NM 2019-03-20 18:16:01Z



CA298 USGS_NM 2019-03-20 18:16:14Z



CA298 USGS_NM 2019-03-20 18:16:24Z



CA298 USGS_NM 2019-03-20 18:16:39Z



Point ID	CA299
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fairchild Well

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3869565.695	108925.826	1873.859

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	CA300
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4062478.905	266424.962	2028.232

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	CA301
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3935959.160	140224.979	2005.631

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	CA302
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

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

Coordinate System	
	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3930982.247	169112.130	2142.342

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



CA302 USGS_NM 2019-03-18 18:06:48Z



CA302 USGS_NM 2019-03-18 18:06:58Z



CA302 USGS_NM 2019-03-18 18:07:11Z



CA302 USGS_NM 2019-03-18 18:07:22Z



Point ID	CA303
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Ciniza

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3933948.857	185285.042	2089.380

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	CA305
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4047394.142	150494.305	1848.522

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	CA306
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Yellow Hill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4047212.071	154194.312	1787.026

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





BARE EARTH POINT LOG SHEETS



Point ID	BE001
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3944171.929	175742.202	2076.484

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.58816°N 108.57851°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.58820°N 108.57858°W	ACCURACY 5 m DATUM WGS84
BE001	GVL	2018-12-20 19:39:27Z	BE001	GVL	2018-12-20 19:39:41Z
DIRECTION 190 deg(T)	35.58825°N 108.57850°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.58821°N 108.57845°W	ACCURACY 5 m DATUM WGS84
BE001	GVL	2018-12-20 19:39:52Z	BE001	GVL	2018-12-20 19:40:05Z



Point ID	BE002
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Buell Park

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3979782.932	136545.034	2209.123

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.011
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Time: 03-26-2019 13:01
Note: BE002

Time: 03-26-2019 13:01
Note: BE002



Time: 03-26-2019 13:01
Note: BE002

Time: 03-26-2019 13:02
Note: BE002



Point ID	BE003
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4068470.705	250675.267	1750.893

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE004
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3870484.544	112790.660	1897.871

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chi Chil Tah

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3907166.083	144569.237	2086.770

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



BE005 USGS_NM 2019-03-16 20:52:49Z



BE005 USGS_NM 2019-03-16 20:53:16Z



BE005 USGS_NM 2019-03-16 20:53:28Z



BE005 USGS_NM 2019-03-16 20:53:41Z



Point ID	BE006
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3953156.447	215229.803	2153.245

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



BE006 USGS_NM 2019-03-14 17:19:47Z



BE006 USGS_NM 2019-03-14 17:19:59Z



BE006 USGS_NM 2019-03-14 17:20:11Z



BE006 USGS_NM 2019-03-14 17:20:23Z



Point ID	BE007
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Fence Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3847725.749	167664.790	2123.883

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.003
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Tsin-nas-kid

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4026784.111	153137.527	1848.009

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE009
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sawmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3980124.656	122775.619	2383.969

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.004
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE010
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Counselor

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4010221.743	279096.497	2136.339

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:

<p>DIRECTION 184 deg(T)</p> <p>36.21163°N 107.45740°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE010</p> <p>2019-04-12 10:53:07-06:00</p> <p>DIRECTION 358 deg(T)</p> <p>36.21159°N 107.45739°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 90 deg(T)</p> <p>36.21162°N 107.45744°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE010</p> <p>2019-04-12 10:53:22-06:00</p> <p>DIRECTION 273 deg(T)</p> <p>36.21164°N 107.45735°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE010</p> <p>2019-04-12 10:53:36-06:00</p>	<p>BE010</p> <p>2019-04-12 10:53:48-06:00</p>



Point ID	BE011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Gomez Ranch

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4074061.462	279853.270	1922.743

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Teec Nos Pos

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4098061.501	137772.586	1531.236

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE013
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Seven Lakes

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3964355.908	235087.339	1994.768

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/22/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.78759°N 107.93105°W ACCURACY 5 m DATUM WGS84</p> <p>BE013 GVL 2018-12-22 17:57:00Z</p>	<p>DIRECTION 90 deg(T) 35.78763°N 107.93110°W ACCURACY 5 m DATUM WGS84</p> <p>BE013 GVL 2018-12-22 17:57:15Z</p>
<p>DIRECTION 180 deg(T) 35.78766°N 107.93106°W ACCURACY 5 m DATUM WGS84</p> <p>BE013 GVL 2018-12-22 17:57:28Z</p>	<p>DIRECTION 270 deg(T) 35.78762°N 107.93096°W ACCURACY 5 m DATUM WGS84</p> <p>BE013 GVL 2018-12-22 17:57:43Z</p>



Point ID	BE014
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Big Rock Hill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3959138.707	161468.839	1902.398

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE015
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4053884.992	215188.459	1790.738

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: BE015

Note: BE015



Note: BE015

Note: BE015



Point ID	BE016
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Hard Ground Flats

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3958724.765	182162.774	2061.044

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE017
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Skinney Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4097471.922	168821.290	1618.426

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE018
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Carson Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4042648.383	223826.860	1890.227

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.48932°N 108.08299°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.48936°N 108.08304°W	ACCURACY 5 m DATUM WGS84
BE018	GVL	2018-12-14 17:30:33Z	BE018	GVL	2018-12-14 17:30:47Z
DIRECTION 180 deg(T)	36.48940°N 108.08298°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.48936°N 108.08290°W	ACCURACY 5 m DATUM WGS84
BE018	GVL	2018-12-14 17:31:04Z	BE018	GVL	2018-12-14 17:31:19Z



Point ID	BE019
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4086854.942	175002.097	1551.768

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.87172°N 108.64587°W ACCURACY 5 m DATUM WGS84</p> <p>BE019 HARDPACK DRT 2018-12-15 18:29:32Z</p>	<p>DIRECTION 90 deg(T) 36.87176°N 108.64590°W ACCURACY 5 m DATUM WGS84</p> <p>BE019 HARDPACK DRT 2018-12-15 18:29:55Z</p>
<p>DIRECTION 180 deg(T) 36.87181°N 108.64585°W ACCURACY 5 m DATUM WGS84</p> <p>BE019 HARDPACK DRT 2018-12-15 18:30:10Z</p>	<p>DIRECTION 270 deg(T) 36.87177°N 108.64580°W ACCURACY 5 m DATUM WGS84</p> <p>BE019 HARDPACK DRT 2018-12-15 18:30:22Z</p>



Point ID	BE020
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Oak Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3956358.225	187988.283	2191.588

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTK

PHOTOS:





Point ID	BE021
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	John Mills Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4079952.821	320431.818	2188.557

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE022
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Alamo Mesa West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4027111.451	213942.839	1920.893

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	FS

PHOTOS:





Point ID	BE023
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3937822.500	173234.838	2028.976

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE024
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4048002.413	150255.713	1841.599

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.110
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

<p>DIRECTION 83 deg(T) 36.51347°N 108.90517°W ACCURACY 5 m DATUM WGS84</p> <p>BE024 2019-04-07 10:47:33-06:00</p>	<p>DIRECTION 6 deg(T) 36.51341°N 108.90514°W ACCURACY 5 m DATUM WGS84</p> <p>BE024 2019-04-07 10:47:56-06:00</p>
<p>DIRECTION 267 deg(T) 36.51348°N 108.90507°W ACCURACY 5 m DATUM WGS84</p> <p>BE024 2019-04-07 10:48:09-06:00</p>	<p>DIRECTION 186 deg(T) 36.51353°N 108.90511°W ACCURACY 5 m DATUM WGS84</p> <p>BE024 2019-04-07 10:48:23-06:00</p>



Point ID	BE025
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4085730.927	334549.869	2234.359

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE026
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fruitland

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4063196.541	192963.522	1654.328

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.014
RMSE Z	0.015
GPS Method	FS

PHOTOS:

<p>DIRECTION 267 deg(T)</p> <p>36.66487°N 108.43512°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE026</p> <p>2019-04-06 10:29:19-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.66483°N 108.43517°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE026</p> <p>2019-04-06 10:29:32-06:00</p>
<p>DIRECTION 91 deg(T)</p> <p>36.66487°N 108.43523°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE026</p> <p>2019-04-06 10:29:42-06:00</p>	<p>DIRECTION 177 deg(T)</p> <p>36.66493°N 108.43519°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE026</p> <p>2019-04-06 10:29:53-06:00</p>



Point ID	BE027
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3943407.667	145469.407	2020.388

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE028
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4006858.082	261136.563	2098.330

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

DIRECTION 171 deg(T)	36.17708°N 107.65599°W	ACCURACY 5 m DATUM WGS84	DIRECTION 265 deg(T)	36.17706°N 107.65591°W	ACCURACY 5 m DATUM WGS84
BE028	2019-04-14 13:57:39-06:00	BE028	2019-04-14 13:57:55-06:00		
DIRECTION 356 deg(T)	36.17702°N 107.65594°W	ACCURACY 5 m DATUM WGS84	DIRECTION 88 deg(T)	36.17704°N 107.65600°W	ACCURACY 5 m DATUM WGS84
BE028	2019-04-14 13:58:03-06:00	BE028	2019-04-14 13:58:23-06:00		



Point ID	BE029
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4055107.64	191652.551	1705.048

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	FS

PHOTOS:

<p>DIRECTION 92 deg(T)</p> <p>36.59169°N 108.44658°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE029</p> <p>2019-04-06 09:55:08-06:00</p>	<p>DIRECTION 280 deg(T)</p> <p>36.59162°N 108.44652°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE029</p> <p>2019-04-06 09:55:46-06:00</p>
<p>DIRECTION 2 deg(T)</p> <p>36.59160°N 108.44658°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE029</p> <p>2019-04-06 09:55:55-06:00</p>	<p>DIRECTION 184 deg(T)</p> <p>36.59164°N 108.44657°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE029</p> <p>2019-04-06 09:56:49-06:00</p>



Point ID	BE030
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3854369.777	111562.479	1790.189

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.003
RMSE Z	0.003
GPS Method	RTK

PHOTOS:





Point ID	BE031
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3927825.174	194642.016	2166.816

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE032
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4086003.972	164921.199	1492.530

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE033
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3926808.828	127124.749	2029.774

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE034
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Little Water

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4040454.482	166319.314	1699.876

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 15:25
Note: BE034



Time: 03-31-2019 15:25
Note: BE034



Time: 03-31-2019 15:25
Note: BE034



Time: 03-31-2019 15:25
Note: BE034



Point ID	BE035
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3966730.584	179001.454	1867.318

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE036
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Palmer Mesa

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4090999.184	178518.907	1603.364

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.91024°N 108.60821°W ACCURACY 5 m DATUM WGS84</p> <p>BE036 HARDPACK DIRT 2018-12-15 19:58:11Z</p>	<p>DIRECTION 90 deg(T) 36.91027°N 108.60826°W ACCURACY 5 m DATUM WGS84</p> <p>BE036 HARDPACK DIRT 2018-12-15 19:58:27Z</p>
<p>DIRECTION 180 deg(T) 36.91032°N 108.60824°W ACCURACY 5 m DATUM WGS84</p> <p>BE036 HARDPACK DIRT 2018-12-15 19:58:47Z</p>	<p>DIRECTION 270 deg(T) 36.91026°N 108.60817°W ACCURACY 5 m DATUM WGS84</p> <p>BE036 HARDPACK DIRT 2018-12-15 19:59:01Z</p>



Point ID	BE037
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon NW

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3903999.312	166971.377	2095.571

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



BE037 USGS_NM 2019-03-17 18:47:40Z



BE037 USGS_NM 2019-03-17 18:48:42Z



BE037 USGS_NM 2019-03-17 18:48:51Z



BE037 USGS_NM 2019-03-17 18:49:00Z



Point ID	BE038
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Jones Ranch School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3913579.239	137335.261	2140.157

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	RTK

PHOTOS:



BE038 USGS_NM 2019-03-16 19:19:45Z



BE038 USGS_NM 2019-03-16 19:19:56Z



BE038 USGS_NM 2019-03-16 19:20:07Z



BE038 USGS_NM 2019-03-16 19:20:20Z



Point ID	BE039
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Nicoll Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3867319.838	187325.876	2265.500

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.011
RMSE Z	0.020
GPS Method	Fast Static

PHOTOS:





Point ID	BE040
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tse Bonita School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3960365.851	141959.888	2242.89

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



BE040 USGS_NM 2019-03-20 21:19:12Z



BE040 USGS_NM 2019-03-20 21:19:22Z



BE040 USGS_NM 2019-03-20 21:19:33Z



BE040 USGS_NM 2019-03-20 21:19:43Z



Point ID	BE041
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	East of Great Bend

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4015496.474	187832.424	1721.526

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE042
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4061638.355	136181.375	1748.967

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.63085°N 109.06835°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.63087°N 109.06842°W	ACCURACY 5 m DATUM WGS84
BE042	HARDPACK DIRT	2018-12-16 17:17:11Z	BE042	HARDPACK DIRT	2018-12-16 17:17:24Z
DIRECTION 180 deg(T)	36.63091°N 109.06836°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.63088°N 109.06831°W	ACCURACY 5 m DATUM WGS84
BE042	HARDPACK DIRT	2018-12-16 17:17:39Z	BE042	HARDPACK DIRT	2018-12-16 17:17:54Z



Point ID	BE043
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Moncisco Wash

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4042729.498	217954.970	1831.296

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/13/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE044
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Fourmile Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4064085.650	287004.506	2022.576

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE045
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Twin Buttes

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3935304.809	149217.362	1951.705

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.49933°N 108.86682°W ACCURACY 5 m DATUM WGS84</p> <p>BE045 GVL 2018-12-20 20:28:12Z</p>	<p>DIRECTION 90 deg(T) 35.49939°N 108.86687°W ACCURACY 5 m DATUM WGS84</p> <p>BE045 GVL 2018-12-20 20:28:27Z</p>
<p>DIRECTION 180 deg(T) 35.49942°N 108.86682°W ACCURACY 5 m DATUM WGS84</p> <p>BE045 GVL 2018-12-20 20:28:47Z</p>	<p>DIRECTION 270 deg(T) 35.49935°N 108.86672°W ACCURACY 5 m DATUM WGS84</p> <p>BE045 GVL 2018-12-20 20:29:01Z</p>



Point ID	BE046
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4057034.294	197307.616	1737.495

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE047
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Smouse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4040550.375	272225.581	1866.365

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.48320°N 107.54256°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE047</p> <p>2019-04-10 10:53:41-06:00</p>	<p>DIRECTION 179 deg(T)</p> <p>36.48322°N 107.54260°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE047</p> <p>2019-04-10 10:53:57-06:00</p>
<p>DIRECTION 93 deg(T)</p> <p>36.48321°N 107.54266°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE047</p> <p>2019-04-10 10:54:13-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.48317°N 107.54263°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE047</p> <p>2019-04-10 10:54:25-06:00</p>



Point ID	BE048
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	





Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4071271.286	135475.236	1792.078

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.71720°N 109.08082°W ACCURACY 5 m DATUM WGS84</p>  <p>BE048 HARDPACK DIRT 2018-12-16 19:33:48Z</p>	<p>DIRECTION 90 deg(T) 36.71724°N 109.08089°W ACCURACY 5 m DATUM WGS84</p>  <p>BE048 HARDPACK DIRT 2018-12-16 19:33:58Z</p>
<p>DIRECTION 150 deg(T) 36.71729°N 109.08088°W ACCURACY 5 m DATUM WGS84</p>  <p>BE048 HARDPACK DIRT 2018-12-16 19:34:14Z</p>	<p>DIRECTION 295 deg(T) 36.71723°N 109.08080°W ACCURACY 5 m DATUM WGS84</p>  <p>BE048 HARDPACK DIRT 2018-12-16 19:34:28Z</p>



Point ID	BE049
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post NW

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4042073.435	238116.224	2004.588

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE050
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Chimney Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4043474.596	157220.367	1796.622

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE051
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Alto Trading Post

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3980579.243	264939.767	2016.336

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:

<p>DIRECTION 86 deg(T)</p> <p>BE051</p>	<p>35.94134°N 107.60596°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 356 deg(T)</p> <p>BE051</p>	<p>35.94129°N 107.60589°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 266 deg(T)</p> <p>BE051</p>	<p>2019-04-13 14:46:53-06:00</p> <p>35.94134°N 107.60587°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 178 deg(T)</p> <p>BE051</p>	<p>2019-04-13 14:46:42-06:00</p> <p>35.94136°N 107.60592°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION</p> <p>BE051</p>	<p>2019-04-13 14:46:29-06:00</p>	<p>DIRECTION</p> <p>BE051</p>	<p>2019-04-13 14:46:20-06:00</p>



Point ID	BE052
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Thompson Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4038704.337	259563.413	1979.065

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE053
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Heart Rock

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3947165.503	220676.072	2179.680

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



BE053 USGS_NM 2019-03-15 20:57:25Z



BE053 USGS_NM 2019-03-15 20:57:35Z



BE053 USGS_NM 2019-03-15 20:57:48Z



BE053 USGS_NM 2019-03-15 20:58:02Z



Point ID	BE054
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	John Mills Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4073330.368	311127.992	2180.238

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:



Note: BE054

Note: BE054



Note: BE054

Note: BE054



Point ID	BE055
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3869151.392	194845.407	2229.683

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE056
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Thompson Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4033844.429	261272.259	2028.748

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: BE056

Note: BE056



Note: BE056

Note: BE056



Point ID	BE057
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4065782.672	274916.162	1900.420

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE058
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4038778.460	145487.366	1933.058

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:

DIRECTION 2 deg(T)		36.42880°N 108.95407°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)		36.42883°N 108.95404°W	ACCURACY 5 m DATUM WGS84
DIRECTION 271 deg(T)		36.42880°N 108.95396°W	ACCURACY 5 m DATUM WGS84	DIRECTION 1 deg(T)		36.42873°N 108.95405°W	ACCURACY 5 m DATUM WGS84
DIRECTION 271 deg(T)		36.42880°N 108.95396°W	ACCURACY 5 m DATUM WGS84	DIRECTION 1 deg(T)		36.42873°N 108.95405°W	ACCURACY 5 m DATUM WGS84



Point ID	BE059
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SE

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4055394.889	202304.616	1775.543

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.59758°N 108.32783°W ACCURACY 5 m DATUM WGS84</p> <p>BE059 HARDPACK DRT 2018-12-14 18:43:41Z</p>	<p>DIRECTION 60 deg(T) 36.59760°N 108.32786°W ACCURACY 5 m DATUM WGS84</p> <p>BE059 HARDPACK DRT 2018-12-14 18:43:56Z</p>
<p>DIRECTION 185 deg(T) 36.59764°N 108.32782°W ACCURACY 5 m DATUM WGS84</p> <p>BE059 HARDPACK DRT 2018-12-14 18:44:23Z</p>	<p>DIRECTION 270 deg(T) 36.59761°N 108.32775°W ACCURACY 5 m DATUM WGS84</p> <p>BE059 HARDPACK DRT 2018-12-14 18:45:03Z</p>



Point ID	BE060
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Grey Hill Spring

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3991556.011	180782.211	1734.636

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE061
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Naschitti

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3997473.062	168274.953	1793.679

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Time: 03-29-2019 14:06
Note: BE061

Time: 03-29-2019 14:06
Note: BE061



Time: 03-29-2019 14:06
Note: BE061

Time: 03-29-2019 14:06
Note: BE061



Point ID	BE062
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Joe Woody Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3948757.308	125069.325	2192.341

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



BE062 USGS_NM 2019-03-20 18:43:29Z



BE062 USGS_NM 2019-03-20 18:43:44Z



BE062 USGS_NM 2019-03-20 18:44:00Z



BE062 USGS_NM 2019-03-20 18:44:14Z



Point ID	BE063
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4017804.798	315949.178	2205.886

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE064
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Smouse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4031701.077	272985.451	2087.705

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 260 deg(T)</p> <p>36.40374°N 107.53150°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE064</p> <p>2019-04-11 10:26:26-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>36.40375°N 107.53156°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE064</p> <p>2019-04-11 10:26:40-06:00</p>
<p>DIRECTION 91 deg(T)</p> <p>36.40369°N 107.53159°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE064</p> <p>2019-04-11 10:26:52-06:00</p>	<p>DIRECTION 357 deg(T)</p> <p>36.40369°N 107.53151°W</p> <p>ACCURACY 10 m DATUM WGS84</p> <p>BE064</p> <p>2019-04-11 10:27:06-06:00</p>



Point ID	BE065
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfanito Peak

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4052555.492	245603.589	1867.566

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	FastStatic

PHOTOS:





Point ID	BE066
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4077229.382	168450.209	1490.158

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE067
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Schnebly Well

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3844096.450	106595.064	1765.895

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Time: 12-27-2018 11:19
Note: BE067



Time: 12-27-2018 11:20
Note: BE067



Time: 12-27-2018 11:20
Note: BE067



Time: 12-27-2018 11:20
Note: BE067



Point ID	BE068
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chuska Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3977455.633	157549.113	2138.410

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



Time: 03-25-2019 16:13
Note: BE068

Time: 03-25-2019 16:13
Note: BE068



Time: 03-25-2019 16:14
Note: BE068

Time: 03-25-2019 16:14
Note: BE068



Point ID	BE069
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3938062.736	166541.135	2002.098

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.53016°N 108.67734°W	ACCURACY 5 m DATUM WGS84	DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable
BE069	GVL	2018-12-19 21:01:12Z	BE069	GVL	2018-12-19 21:01:49Z
DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable	DIRECTION Unavailable	LOCATION Unavailable	ACCURACY/DATUM Unavailable
BE069	GVL	2018-12-19 21:01:59Z	BE069	GVL	2018-12-19 21:02:08Z



Point ID	BE070
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chuska Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3975531.191	164011.926	1927.898

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE071
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb NE

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4039690.620	185339.554	1654.845

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	FS

PHOTOS:

<p>DIRECTION 36.45083°N 3 deg(T) 108.51073°W</p> <p>BE071 2019-04-06 14:53:12-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 36.45088°N 271 deg(T) 108.51070°W</p> <p>BE071 2019-04-06 14:53:30-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 36.45093°N 177 deg(T) 108.51076°W</p> <p>BE071 2019-04-06 14:53:45-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 36.45089°N 92 deg(T) 108.51082°W</p> <p>BE071 2019-04-06 14:54:01-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>



Point ID	BE072
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Buell Park

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3986161.420	136428.747	2178.968

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE073
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fort Defiance

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3964584.758	134050.998	2088.568

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



BE073 USGS_NM 2019-03-19 22:58:49Z



BE073 USGS_NM 2019-03-19 22:58:58Z



BE073 USGS_NM 2019-03-19 22:59:07Z



BE073 USGS_NM 2019-03-19 22:59:17Z



Point ID	BE074
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen Draw

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3901759.141	157825.117	2099.497

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



CA074 USGS_NM 2019-03-18 21:31:53Z



CA074 USGS_NM 2019-03-18 21:32:06Z



CA074 USGS_NM 2019-03-18 21:32:18Z



CA074 USGS_NM 2019-03-18 21:32:30Z



Point ID	BE075
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hunter Wash

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4007059.876	205321.608	1756.995

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 04-02-2019 15:49
Note: BE075

Time: 04-02-2019 15:49
Note: BE075



Time: 04-02-2019 15:49
Note: BE075

Time: 04-02-2019 15:49
Note: BE075



Point ID	BE076
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Table Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4056623.954	168705.081	1650.273

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/08/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 266 deg(T)</p>  <p>BE076</p> <p>DIRECTION 92 deg(T)</p>  <p>BE076</p>	<p>36.59759°N 108.70321°W</p> <p>2019-04-08 11:08:39-06:00</p> <p>36.59763°N 108.70330°W</p> <p>2019-04-08 11:09:01-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 179 deg(T)</p>  <p>BE076</p> <p>DIRECTION 3 deg(T)</p>  <p>BE076</p>	<p>36.59762°N 108.70325°W</p> <p>2019-04-08 11:08:52-06:00</p> <p>36.59758°N 108.70324°W</p> <p>2019-04-08 11:09:12-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p> <p>ACCURACY 5 m DATUM WGS84</p>
---	---	---	--	---	---



Point ID	BE077
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3929592.982	195578.296	2153.092

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	BE078
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinedale

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3936412.751	186545.673	2119.770

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE079
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4022218.662	170006.243	1678.667

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/09/2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.28854°N 108.67402°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE079</p> <p>2019-04-09 12:03:20-06:00</p> <p>DIRECTION 90 deg(T)</p> <p>36.28854°N 108.67413°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE079</p> <p>2019-04-09 12:03:39-06:00</p>	<p>DIRECTION 359 deg(T)</p> <p>36.28850°N 108.67409°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE079</p> <p>2019-04-09 12:03:31-06:00</p> <p>DIRECTION 175 deg(T)</p> <p>36.28857°N 108.67410°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE079</p> <p>2019-04-09 12:03:50-06:00</p>
--	---



Point ID	BE080
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sheep Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4006408.423	166368.315	1791.901

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.019
RMSE Z	0.018
GPS Method	RTK

PHOTOS:





Point ID	BE081
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4051804.204	189508.175	1721.228

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.56125°N 108.46915°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE081</p> <p>2019-04-06 16:21:10-06:00</p>	<p>DIRECTION 183 deg(T)</p> <p>36.56128°N 108.46917°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE081</p> <p>2019-04-06 16:21:25-06:00</p>
<p>DIRECTION 93 deg(T)</p> <p>36.56126°N 108.46923°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE081</p> <p>2019-04-06 16:21:40-06:00</p>	<p>DIRECTION 2 deg(T)</p> <p>36.56120°N 108.46919°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE081</p> <p>2019-04-06 16:21:57-06:00</p>



Point ID	BE082
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3945209.581	171195.303	2052.021

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE083
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Pintado

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3973901.846	255085.808	2053.270

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.87876°N 107.71294°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.87879°N 107.71300°W	ACCURACY 5 m DATUM WGS84
BE083	HARDPACK DIRT	2018-12-21 18:19:52Z	BE083	HARDPACK DIRT	2018-12-21 18:20:02Z
DIRECTION 180 deg(T)	35.87884°N 107.71293°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.87882°N 107.71287°W	ACCURACY 5 m DATUM WGS84
BE083	HARDPACK DIRT	2018-12-21 18:20:22Z	BE083	HARDPACK DIRT	2018-12-21 18:20:43Z



Point ID	BE084
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4085978.800	340270.216	2286.625

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

*Photos mislabeled

PHOTOS:





Point ID	BE085
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4033553.619	161487.768	1743.831

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Time: 04-01-2019 12:04
Note: BE085

Time: 04-01-2019 12:04
Note: BE085



Time: 04-01-2019 12:04
Note: BE085

Time: 04-01-2019 12:04
Note: BE085



Point ID	BE086
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Fence Lake

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3840890.364	160638.930	2178.858

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	RTK

PHOTOS:





Point ID	BE087
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	East For Kuntz Canyon

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4050695.079	232892.950	1939.957

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE088
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Dulce

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4090395.627	323020.341	2104.648

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE089
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3892964.015	158572.276	2150.745

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:



BE089 USGS_NM 2019-03-18 20:51:47Z



BE089 USGS_NM 2019-03-18 20:51:57Z



BE089 USGS_NM 2019-03-18 20:52:13Z



BE089 USGS_NM 2019-03-18 20:52:25Z



Point ID	BE090
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bloomfield

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4066956.217	235614.961	1667.926

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	FastStatic

PHOTOS:





Point ID	BE091
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4069430.562	137891.875	1715.187

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T)</p> <p>BE091 HARDPACK DRT 2018-12-16 17:51:51Z</p>	<p>36.70155°N 109.05297°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 90 deg(T)</p> <p>BE091 HARDPACK DRT 2018-12-16 17:52:04Z</p>	<p>36.70155°N 109.05297°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 180 deg(T)</p> <p>BE091 HARDPACK DRT 2018-12-16 17:52:28Z</p>	<p>36.70162°N 109.05296°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 270 deg(T)</p> <p>BE091 HARDPACK DRT 2018-12-16 17:52:48Z</p>	<p>36.70160°N 109.05290°W</p> <p>ACCURACY 5 m DATUM WGS84</p>



Point ID	BE092
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4059703.045	153009.961	1679.897

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.61969°N 108.87973°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.61974°N 108.87978°W	ACCURACY 5 m DATUM WGS84
BE092	GVL	2018-12-17 22:10:23Z	BE092	GVL	2018-12-17 22:10:34Z
DIRECTION 180 deg(T)	36.61978°N 108.87972°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.61974°N 108.87967°W	ACCURACY 5 m DATUM WGS84
BE092	GVL	2018-12-17 22:10:47Z	BE092	GVL	2018-12-17 22:10:56Z



Point ID	BE093
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Manuelito

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3930736.789	141814.879	1918.239

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	RTK

PHOTOS:



BE093 USGS_NM 2019-03-10 19:30:33Z



BE093 USGS_NM 2019-03-10 19:30:45Z



BE093 USGS_NM 2019-03-10 19:30:59Z



BE093 USGS_NM 2019-03-10 19:31:11Z



Point ID	BE094
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4031213.412	318578.673	2236.306

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE094A
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3935931.731	140204.567	2003.809

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 36.45083°N 3 deg(T) 108.51073°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 36.45088°N 271 deg(T) 108.51070°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE071 2019-04-06 14:53:12-06:00</p>	<p>BE071 2019-04-06 14:53:30-06:00</p>
<p>DIRECTION 36.45093°N 177 deg(T) 108.51076°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 36.45089°N 92 deg(T) 108.51082°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE071 2019-04-06 14:53:45-06:00</p>	<p>BE071 2019-04-06 14:54:01-06:00</p>



Point ID	BE096
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sonsela Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3995480.699	135541.676	2233.263

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Time: 03-26-2019 14:57
Note: BE096

Time: 03-26-2019 14:57
Note: BE096



Time: 03-26-2019 14:57
Note: BE096

Time: 03-26-2019 14:57
Note: BE096



Point ID	BE097
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Alamo Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4018807.893	225378.848	1870.949

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	BE098
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3927358.562	199826.963	2214.478

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE099
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Toyee

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

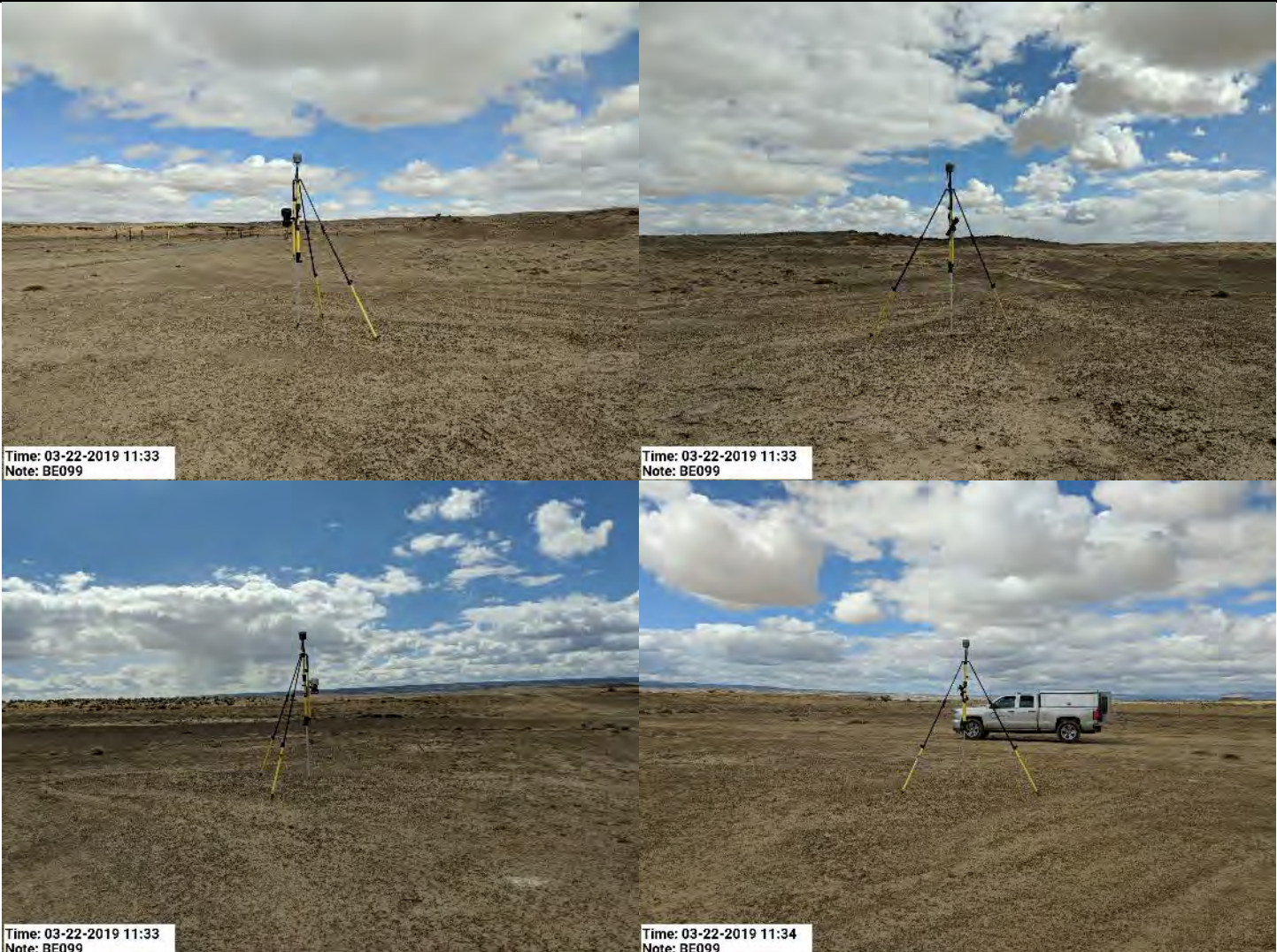
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3972181.166	190892.200	1879.433

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.016
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	BE100
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Delgadita Mesa

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4069571.847	269569.421	1866.451

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE101
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Tsin-nas-kid

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4022086.101	157069.235	1825.110

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.012
RMSE Z	0.015
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 12:13
Note: BE101

Time: 03-31-2019 12:13
Note: BE101



Time: 03-31-2019 12:13
Note: BE101

Time: 03-31-2019 12:13
Note: BE101



Point ID	BE102
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Hard Ground Flats

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3958114.428	175316.908	2067.916

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE103
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4017096.693	242632.936	2083.822

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	BE104
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4077313.907	174991.124	1504.256

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE105
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4045390.254	153891.884	1803.389

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:

<p>DIRECTION 90 deg(T) 36.49127°N 108.86350°W ACCURACY 5 m DATUM WGS84</p> <p>BE105 2019-04-07 11:30:03-06:00</p>	<p>DIRECTION 269 deg(T) 36.49130°N 108.86340°W ACCURACY 5 m DATUM WGS84</p> <p>BE105 2019-04-07 11:30:43-06:00</p>
<p>DIRECTION 181 deg(T) 36.49135°N 108.86344°W ACCURACY 5 m DATUM WGS84</p> <p>BE105 2019-04-07 11:30:52-06:00</p>	<p>DIRECTION 355 deg(T) 36.49239°N 108.86325°W ACCURACY 5 m DATUM WGS84</p> <p>SH025 2019-04-07 11:51:02-06:00</p>



Point ID	BE106
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4001699.900	266101.942	2080.366

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTK

PHOTOS:

DIRECTION 356 deg(T)		36.13179°N 107.59925°W	ACCURACY 5 m DATUM WGS84	DIRECTION 87 deg(T)		36.13182°N 107.59929°W	ACCURACY 5 m DATUM WGS84
DIRECTION 180 deg(T)		36.13187°N 107.59923°W	ACCURACY 5 m DATUM WGS84	DIRECTION 262 deg(T)		36.13185°N 107.59918°W	ACCURACY 5 m DATUM WGS84
BE106		2019-04-14 12:36:35-06:00		BE106		2019-04-14 12:36:44-06:00	
BE106		2019-04-14 12:36:58-06:00		BE106		2019-04-14 12:37:06-06:00	



Point ID	BE107
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	El Morr0

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3882542.269	200542.179	2236.283

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTK

PHOTOS:

<p>DIRECTION 0 deg(T) 35.04117°N 108.28277°W</p> <p>BE107 2019-04-16 10:07:06-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 302 deg(T) 35.04120°N 108.28268°W</p> <p>BE107 2019-04-16 10:06:26-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 96 deg(T) 35.04121°N 108.28279°W</p> <p>BE107 2019-04-16 10:06:57-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 186 deg(T) 35.04125°N 108.28272°W</p> <p>BE107 2019-04-16 10:06:45-06:00</p>	<p>ACCURACY 5 m DATUM WGS84</p>



Point ID	BE108
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	High Lonesome Well

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3881785.118	128642.729	1948.154

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE109
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Togeye Lake

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3878647.799	189140.142	2171.952

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE110
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Tafoya Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4022559.381	276656.351	1979.145

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	FS

PHOTOS:

<p>DIRECTION 272 deg(T)</p> <p>36.32221°N 107.48802°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE110</p> <p>2019-04-11 13:17:38-06:00</p>	<p>DIRECTION 191 deg(T)</p> <p>36.32225°N 107.48805°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE110</p> <p>2019-04-11 13:17:46-06:00</p>
<p>DIRECTION 85 deg(T)</p> <p>36.32222°N 107.48810°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE110</p> <p>2019-04-11 13:17:59-06:00</p>	<p>DIRECTION 2 deg(T)</p> <p>36.32217°N 107.48805°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE110</p> <p>2019-04-11 13:18:09-06:00</p>



Point ID	BE111
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Standing Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3966875.668	201036.999	1977.093

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	BE111

PHOTOS:





Point ID	BE112
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Mesita De Yeso

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3854187.697	164067.255	2151.318

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	Fast Static

PHOTOS:





Point ID	BE113
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4036444.613	245836.259	2037.637

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE114
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fresno Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4046436.130	264590.385	1825.723

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 1 deg(T)</p> <p>36.53438°N 107.62959°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 1 deg(T)</p> <p>36.53433°N 107.62955°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE114</p> <p>2019-04-10 11:44:20-06:00</p> <p>DIRECTION 271 deg(T)</p> <p>36.53435°N 107.62951°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>BE114</p> <p>2019-04-10 11:44:31-06:00</p> <p>DIRECTION 184 deg(T)</p> <p>36.53440°N 107.62954°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE114</p> <p>2019-04-10 11:44:41-06:00</p>	<p>BE114</p> <p>2019-04-10 11:44:53-06:00</p>



Point ID	BE115
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3997497.342	282122.813	2191.555

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.016
RMSE Z	0.016
GPS Method	RTK

PHOTOS:

<p>DIRECTION 180 deg(T)</p> <p>36.09777°N 107.42025°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 90 deg(T)</p> <p>36.09771°N 107.42028°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>2019-04-13 10:44:57-06:00</p> <p>BE115</p> <p>DIRECTION 359 deg(T)</p> <p>36.09767°N 107.42023°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>2019-04-13 10:44:44-06:00</p> <p>BE115</p> <p>DIRECTION 270 deg(T)</p> <p>36.09770°N 107.42020°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE115</p> <p>2019-04-13 10:44:33-06:00</p>	<p>BE115</p> <p>2019-04-13 10:44:25-06:00</p>



Point ID	BE116
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3989703.386	266728.892	2088.065

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

<p>DIRECTION 179 deg(T)</p> <p>36.02400°N 107.58879°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 280 deg(T)</p> <p>36.02395°N 107.58875°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE116</p> <p>2019-04-13 13:20:29-06:00</p> <p>DIRECTION 358 deg(T)</p> <p>36.02392°N 107.58879°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>BE116</p> <p>2019-04-13 13:20:13-06:00</p> <p>DIRECTION 90 deg(T)</p> <p>36.02396°N 107.58884°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE116</p> <p>2019-04-13 13:20:06-06:00</p>	<p>BE116</p> <p>2019-04-13 13:19:55-06:00</p>



Point ID	BE117
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Hard Ground Flats

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3950964.110	182697.758	2127.243

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE118
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4044926.220	162219.643	1772.774

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE119
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Orphan Annie Rock

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3950153.799	244123.430	2134.759

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.66209°N 107.82667°W ACCURACY 5 m DATUM WGS84</p> <p>BE119 GVL 2018-12-21 21:10:42Z</p>	<p>DIRECTION 90 deg(T) 35.66213°N 107.82672°W ACCURACY 5 m DATUM WGS84</p> <p>BE119 GVL 2018-12-21 21:10:58Z</p>
<p>DIRECTION 180 deg(T) 35.66218°N 107.82672°W ACCURACY 5 m DATUM WGS84</p> <p>BE119 GVL 2018-12-21 21:12:20Z</p>	<p>DIRECTION 270 deg(T) 35.66211°N 107.82665°W ACCURACY 5 m DATUM WGS84</p> <p>BE119 GVL 2018-12-21 21:12:37Z</p>



Point ID	BE120
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chafin Well

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3907400.012	131849.485	2051.662

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



BE120 USGS_NM 2019-03-16 22:25:54Z



BE120 USGS_NM 2019-03-16 22:26:06Z



BE120 USGS_NM 2019-03-16 22:26:25Z



BE120 USGS_NM 2019-03-16 22:26:53Z



Point ID	BE121
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Red Valley

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4054196.199	136852.211	1834.296

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T)</p> <p>BE121 HARDPACK DIRT 2018-12-17 18:41:28Z</p>	<p>36.56418°N 109.05738°W ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 90 deg(T)</p> <p>BE121 HARDPACK DIRT 2018-12-17 18:41:44Z</p>	<p>36.56418°N 109.05738°W ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 180 deg(T)</p> <p>BE121 HARDPACK DIRT 2018-12-17 18:41:57Z</p>	<p>36.56418°N 109.05738°W ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 270 deg(T)</p> <p>BE121 HARDPACK DIRT 2018-12-17 18:42:11Z</p>	<p>36.56418°N 109.05738°W ACCURACY 5 m DATUM WGS84</p>



Point ID	BE122
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Mesita De Yeso

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4063926.83	253642.260	1720.303

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:





Point ID	BE123
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rocky Point

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4076958.642	152151.436	1605.422

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE124
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4086481.219	139978.013	1753.956

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.002
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:





Point ID	BE125
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback South

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4056033.634	175741.856	1595.588

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	
RMSE Z	
GPS Method	FS

PHOTOS:

DIRECTION 180 deg(T)	36.59472°N 108.62443°W	ACCURACY 5 m DATUM WGS84	DIRECTION 182 deg(T)	36.59475°N 108.62447°W	ACCURACY 5 m DATUM WGS84
BE125	2019-04-06 13:04:31-06:00	BE125	2019-04-06 13:04:52-06:00		
DIRECTION 88 deg(T)	36.59473°N 108.62451°W	ACCURACY 5 m DATUM WGS84	DIRECTION 5 deg(T)	36.59467°N 108.62448°W	ACCURACY 5 m DATUM WGS84
BE125	2019-04-06 13:05:06-06:00	BE125	2019-04-06 13:05:22-06:00		



Point ID	BE126
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3930947.32	169076.299	2144.217

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.011
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



BE126 USGS_NM 2019-03-18 18:11:32Z



BE126 USGS_NM 2019-03-18 18:11:50Z



BE126 USGS_NM 2019-03-18 18:12:23Z



BE126 USGS_NM 2019-03-18 18:12:37Z



Point ID	BE127
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4013829.111	297290.017	2196.149

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE128
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Shoemaker Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3856902.451	174897.503	2174.946

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	BE129
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco Trading Post

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4025065.579	249637.516	2013.651

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/04/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	BE130
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Crow Mesa West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4016251.675	253875.646	2119.804

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 89 deg(T)</p> <p>36.25987°N 107.73963°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE130</p> <p>2019-04-12 14:46:56-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.25984°N 107.73960°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE130</p> <p>2019-04-12 14:47:05-06:00</p>
<p>DIRECTION 269 deg(T)</p> <p>36.25988°N 107.73951°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE130</p> <p>2019-04-12 14:47:19-06:00</p>	<p>DIRECTION 181 deg(T)</p> <p>36.25991°N 107.73955°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE130</p> <p>2019-04-12 14:47:28-06:00</p>



Point ID	BE131
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sand Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4066249.496	142639.901	1795.166

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.67467°N 108.99847°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.67475°N 108.99850°W	ACCURACY 5 m DATUM WGS84
BE131	HARDPACK DIRT	2018-12-17 18:01:51Z	BE131	HARDPACK DIRT	2018-12-17 18:02:06Z
DIRECTION 180 deg(T)	36.67480°N 108.99846°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.67476°N 108.99843°W	ACCURACY 5 m DATUM WGS84
BE131	HARDPACK DIRT	2018-12-17 18:02:22Z	BE131	HARDPACK DIRT	2018-12-17 18:02:36Z



Point ID	BE132
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Ceadro Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3864470.291	114103.969	1945.316

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico BE132 2019-02-15 16:00:53-07:00



USGS NW New Mexico BE132 2019-02-15 16:00:49-07:00



USGS NW New Mexico BE132 2019-02-15 16:00:43-07:00



USGS NW New Mexico BE132 2019-02-15 16:00:39-07:00



Point ID	BE133
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3933286.783	160493.992	2103.590

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.48519°N 108.74184°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.48519°N 108.74184°W	ACCURACY 5 m DATUM WGS84
BE133	GVL	2018-12-20 17:01:30Z	BE133	GVL	2018-12-20 17:01:44Z
DIRECTION 180 deg(T)	35.48519°N 108.74184°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.48519°N 108.74184°W	ACCURACY 5 m DATUM WGS84
BE133	GVL	2018-12-20 17:01:58Z	BE133	GVL	2018-12-20 17:02:12Z



Point ID	BE134
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Upper Wheatfields

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4011129.776	133026.934	2263.156

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/27/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-27-2019 15:03
Note: BE134

Time: 03-27-2019 15:03
Note: BE134



Time: 03-27-2019 15:03
Note: BE134

Time: 03-27-2019 15:04
Note: BE134



Point ID	BE135
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Alamo Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4022759.993	230411.857	1971.092

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 178 deg(T)</p> <p>36.31216°N 108.00266°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE135</p> <p>2019-04-05 09:51:26-06:00</p>	<p>DIRECTION 90 deg(T)</p> <p>36.31218°N 108.00268°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE135</p> <p>2019-04-05 09:51:38-06:00</p>
<p>DIRECTION 3 deg(T)</p> <p>36.31215°N 108.00265°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE135</p> <p>2019-04-05 09:51:48-06:00</p>	<p>DIRECTION 270 deg(T)</p> <p>36.31218°N 108.00261°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE135</p> <p>2019-04-05 09:51:57-06:00</p>



Point ID	BE136
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pescado

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3885410.957	180739.159	2142.468

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 358 deg(T) 35.06095°N 108.50058°W ACCURACY 5 m DATUM WGS84</p> <p>BE136 2019-04-16 14:52:15-06:00</p>	<p>DIRECTION 180 deg(T) 35.06105°N 108.50058°W ACCURACY 5 m DATUM WGS84</p> <p>BE136 2019-04-16 14:51:41-06:00</p>
<p>DIRECTION 265 deg(T) 35.06098°N 108.50049°W ACCURACY 5 m DATUM WGS84</p> <p>BE136 2019-04-16 14:51:32-06:00</p>	<p>DIRECTION 94 deg(T) 35.06097°N 108.50058°W ACCURACY 5 m DATUM WGS84</p> <p>BE136 2019-04-16 14:51:06-06:00</p>



Point ID	BE137
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Milk Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3978511.499	217365.029	1893.631

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.008
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



BE137 USGS_NM 2019-03-14 20:26:52Z



BE137 USGS_NM 2019-03-14 20:27:02Z



BE137 USGS_NM 2019-03-14 20:27:11Z



BE137 USGS_NM 2019-03-14 20:27:19Z



Point ID	BE138
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4037986.529	154107.338	1800.773

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 14:48
Note: BE138

Time: 03-31-2019 14:48
Note: BE138



Time: 03-31-2019 14:48
Note: BE138

Time: 03-31-2019 14:48
Note: BE138



Point ID	BE139
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Antelope Lookout Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3965477.501	215111.679	2021.228

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



BE139 USGS_NM 2019-03-14 19:04:16Z



BE139 USGS_NM 2019-03-14 19:04:27Z



BE139 USGS_NM 2019-03-14 19:04:37Z



BE139 USGS_NM 2019-03-14 19:04:48Z



Point ID	BE140
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3893398.141	179264.700	2108.617

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 91 deg(T) 35.13241°N 108.51981°W ACCURACY 5 m DATUM WGS84</p>  <p>BE140 2019-04-16 15:30:56-06:00</p>	<p>DIRECTION 180 deg(T) 35.13244°N 108.51978°W ACCURACY 5 m DATUM WGS84</p>  <p>BE140 2019-04-16 15:31:05-06:00</p>
<p>DIRECTION 268 deg(T) 35.13243°N 108.51974°W ACCURACY 5 m DATUM WGS84</p>  <p>BE140 2019-04-16 15:31:17-06:00</p>	<p>DIRECTION 0 deg(T) 35.13236°N 108.51982°W ACCURACY 5 m DATUM WGS84</p>  <p>BE140 2019-04-16 15:31:31-06:00</p>



Point ID	BE141
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4019764.176	270135.276	2061.437

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	FS

PHOTOS:

<p>DIRECTION 359 deg(T) 36.29546°N 107.55980°W ACCURACY 5 m DATUM WGS84</p> <p>BE141 2019-04-11 13:58:05-06:00</p>	<p>DIRECTION 276 deg(T) 36.29549°N 107.55976°W ACCURACY 5 m DATUM WGS84</p> <p>BE141 2019-04-11 13:58:17-06:00</p>
<p>DIRECTION 179 deg(T) 36.29554°N 107.55979°W ACCURACY 5 m DATUM WGS84</p> <p>BE141 2019-04-11 13:58:29-06:00</p>	<p>DIRECTION 85 deg(T) 36.29549°N 107.55982°W ACCURACY 5 m DATUM WGS84</p> <p>BE141 2019-04-11 13:58:46-06:00</p>



Point ID	BE142
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4025267.887	316387.269	2212.816

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE143
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Togey Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3889128.471	185811.772	2161.254

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 2 deg(T) 35.09598°N 108.44647°W ACCURACY 5 m DATUM WGS84</p> <p>BE143 2019-04-16 12:47:25-06:00</p>	<p>DIRECTION 0 deg(T) 35.09600°N 108.44641°W ACCURACY 5 m DATUM WGS84</p> <p>BE143 2019-04-16 12:46:52-06:00</p>
<p>DIRECTION 97 deg(T) 35.09605°N 108.44648°W ACCURACY 5 m DATUM WGS84</p> <p>BE143 2019-04-16 12:47:13-06:00</p>	<p>DIRECTION 176 deg(T) 35.09608°N 108.44644°W ACCURACY 5 m DATUM WGS84</p> <p>BE143 2019-04-16 12:47:05-06:00</p>



Point ID	BE144
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3882999.463	164170.039	2147.669

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:



BE144 USGS_NM 2019-03-18 22:31:45Z



BE144 USGS_NM 2019-03-18 22:31:58Z



BE144 USGS_NM 2019-03-18 22:32:10Z



BE144 USGS_NM 2019-03-18 22:32:26Z



Point ID	BE145
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Kin Nahzin Ruins

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3966626.126	251089.042	2047.523

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.81219°N 107.75491°W ACCURACY 5 m DATUM WGS84</p> <p>BE145 GVL 2018-12-21 19:22:28Z</p>	<p>DIRECTION 90 deg(T) 35.81224°N 107.75497°W ACCURACY 5 m DATUM WGS84</p> <p>BE145 GVL 2018-12-21 19:22:42Z</p>
<p>DIRECTION 180 deg(T) 35.81231°N 107.75490°W ACCURACY 5 m DATUM WGS84</p> <p>BE145 GVL 2018-12-21 19:23:01Z</p>	<p>DIRECTION 270 deg(T) 35.81227°N 107.75486°W ACCURACY 5 m DATUM WGS84</p> <p>BE145 GVL 2018-12-21 19:23:15Z</p>



Point ID	BE146
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4052851.824	223117.091	1800.551

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE147
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	The Dyke

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3850247.311	169670.451	2152.649

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE148
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3941480.46	158988.068	2018.918

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.55827°N 108.76192°W ACCURACY 5 m DATUM WGS84</p> <p>BE148 GVL 2018-12-19 18:08:41Z</p>	<p>DIRECTION 90 deg(T) 35.55833°N 108.76196°W ACCURACY 5 m DATUM WGS84</p> <p>BE148 GVL 2018-12-19 18:08:56Z</p>
<p>DIRECTION 180 deg(T) 35.55840°N 108.76192°W ACCURACY 5 m DATUM WGS84</p> <p>BE148 GVL 2018-12-19 18:09:14Z</p>	<p>DIRECTION 270 deg(T) 35.55832°N 108.76187°W ACCURACY 5 m DATUM WGS84</p> <p>BE148 GVL 2018-12-19 18:09:29Z</p>



Point ID	BE149
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Old Pine Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4029094.041	147247.502	2112.539

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE150
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Turley

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4072088.23	243389.110	1794.105

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	FastStatic

PHOTOS:





Point ID	BE151
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Dalton Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3948827.48	202126.365	2252.338

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE152
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfanito Peak

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4051086.838	250828.391	1876.331

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE153
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4079323.307	156542.075	1556.112

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE154
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tohatchi

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3968236.409	159530.153	1920.378

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	BE155
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sulphur Spring

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4066696.243	168615.723	1612.691

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE156
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

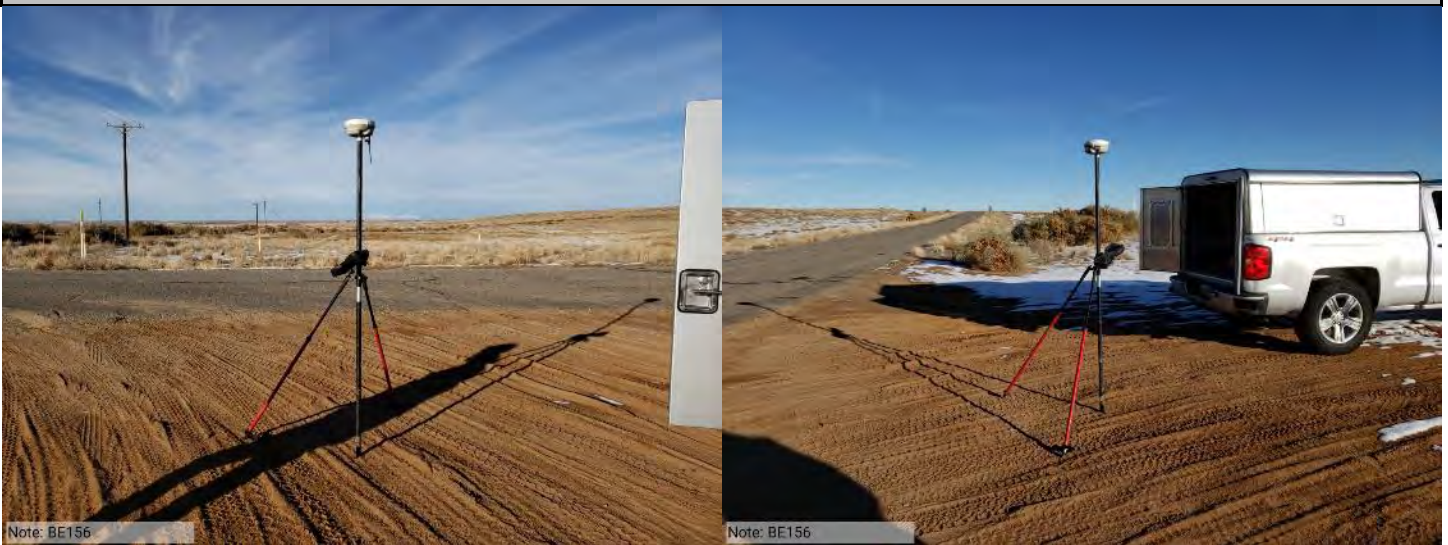
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4054806.952	210742.053	1809.001

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE157
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4033744.177	312871.900	2237.617

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE158
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fresno Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4046934.647	254908.411	1882.225

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE159
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Cutter Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4065049.552	257621.872	1976.671

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE160
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Teec Nos Pos

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

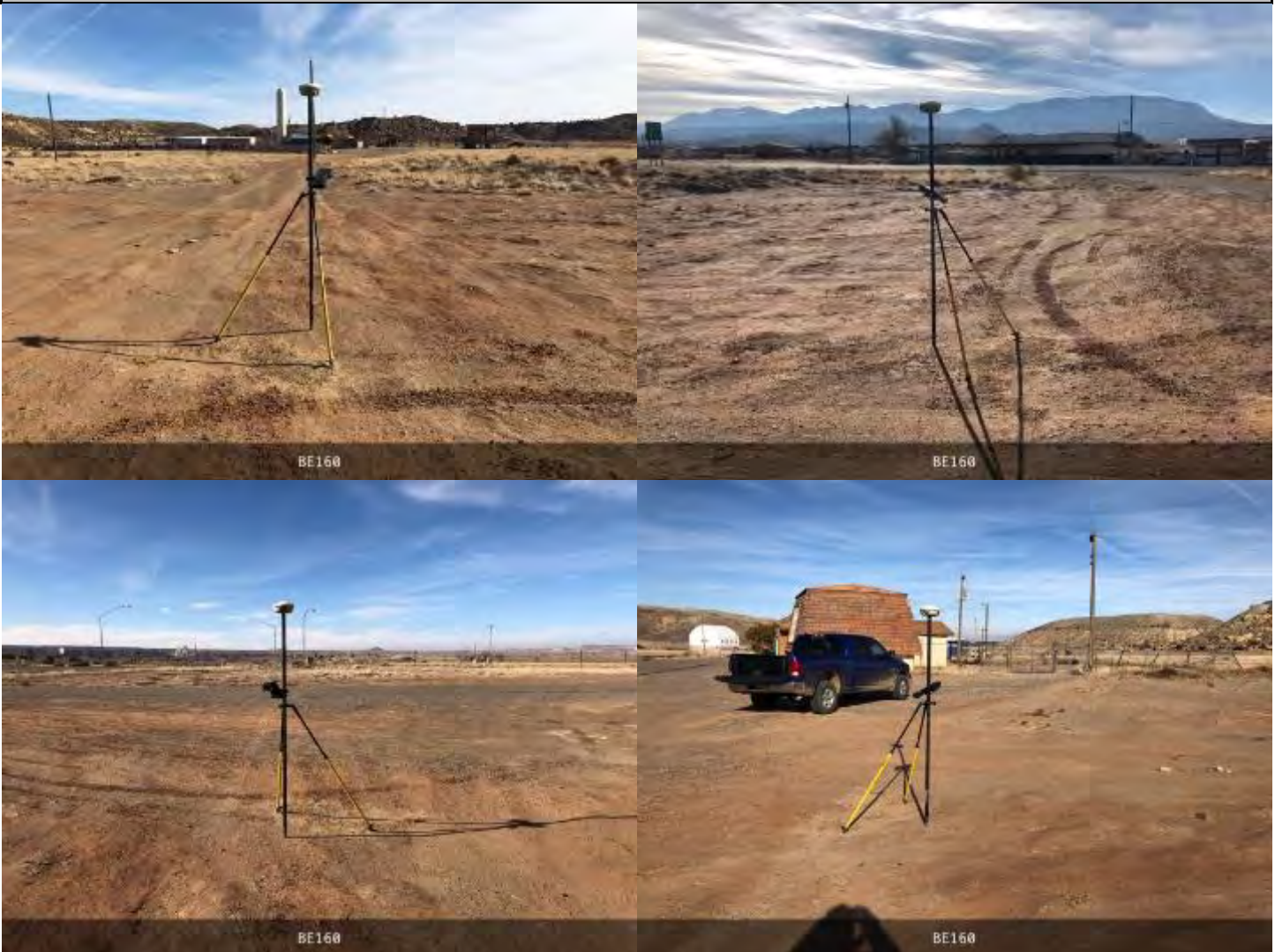
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4093872.249	135989.302	1592.452

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE161
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fort Defiance

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3967749.574	130889.345	2272.678

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE162
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Window Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3954056.950	132951.285	2059.363

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.005
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	BE163
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post NW

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
4033075.346	231539.595	1949.589

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/04/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 276 deg(T)</p> <p>36.40539°N 107.99362°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE163</p> <p>2019-04-04 11:41:38-06:00</p>	<p>DIRECTION 183 deg(T)</p> <p>36.40541°N 107.99367°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE163</p> <p>2019-04-04 11:41:51-06:00</p>
<p>DIRECTION 86 deg(T)</p> <p>36.40538°N 107.99372°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE163</p> <p>2019-04-04 11:42:07-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.40534°N 107.99370°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE163</p> <p>2019-04-04 11:42:21-06:00</p>



Point ID	BE164
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4063615.627	201356.539	1705.321

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/14/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.67126°N 108.34159°W ACCURACY 5 m DATUM WGS84</p> <p>BE164 HARDPACK DRT 2018-12-14 19:08:42Z</p>	<p>DIRECTION 90 deg(T) 36.67131°N 108.34163°W ACCURACY 5 m DATUM WGS84</p> <p>BE164 HARDPACK DRT 2018-12-14 19:09:11Z</p>
<p>DIRECTION 180 deg(T) 36.67136°N 108.34157°W ACCURACY 5 m DATUM WGS84</p> <p>BE164 HARDPACK DRT 2018-12-14 19:09:35Z</p>	<p>DIRECTION 270 deg(T) 36.67134°N 108.34153°W ACCURACY 5 m DATUM WGS84</p> <p>BE164 HARDPACK DRT 2018-12-14 19:09:51Z</p>



Point ID	BE165
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Two Grey Hills

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4016618.024	153248.564	1925.452

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE166
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3965295.507	172914.738	1863.987

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	BE167
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3980073.706	170148.995	1836.008

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.017
RMSE Z	0.017
GPS Method	RTK

PHOTOS:





Point ID	BE168
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Toyee

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3962558.392	191267.815	2022.799

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/21/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE169
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bixler Ranch

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4070360.979	303440.591	2131.584

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.060
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE170
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Borrogo Pass

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3941283.750	230146.727	2318.012

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



BE170 USGS_NM 2019-03-15 19:40:52Z



BE170 USGS_NM 2019-03-15 19:41:02Z



BE170 USGS_NM 2019-03-15 19:41:17Z



BE170 USGS_NM 2019-03-15 19:41:34Z



Point ID	BE171
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Atarque Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3855182.180	156089.714	2057.737

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Note: BE171

Note: BE171



Note: BE171

Note: BE171



Point ID	BE172
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Washington Pass

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4001539.962	153510.163	2506.933

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-29-2019 10:43
Note: BE172

Time: 03-29-2019 10:44
Note: BE172



Time: 03-29-2019 10:44
Note: BE172

Time: 03-29-2019 10:44
Note: BE172



Point ID	BE173
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinehaven

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3918002.782	165409.610	2246.369

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/13/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	BE174
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sonsela Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4002712.081	136713.588	2255.688

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150

Date (MM-DD-YYYY)	03/27/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 03-27-2019 15:40
Note: BE174

Time: 03-27-2019 15:41
Note: BE174



Time: 03-27-2019 15:41
Note: BE174

Time: 03-27-2019 15:41
Note: BE174



Point ID	BE175
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Skinney Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4088840.306	175976.469	1573.39

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.88992°N 108.63578°W ACCURACY 5 m DATUM WGS84</p> <p>BE175 GVL 2018-12-15 19:28:46Z</p>	<p>DIRECTION 90 deg(T) 36.88996°N 108.63586°W ACCURACY 5 m DATUM WGS84</p> <p>BE175 GVL 2018-12-15 19:29:27Z</p>
<p>DIRECTION 180 deg(T) 36.89003°N 108.63580°W ACCURACY 5 m DATUM WGS84</p> <p>BE175 GVL 2018-12-15 19:29:39Z</p>	<p>DIRECTION 270 deg(T) 36.88998°N 108.63574°W ACCURACY 5 m DATUM WGS84</p> <p>BE175 GVL 2018-12-15 19:29:57Z</p>



Point ID	BE176
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sheep Springs

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

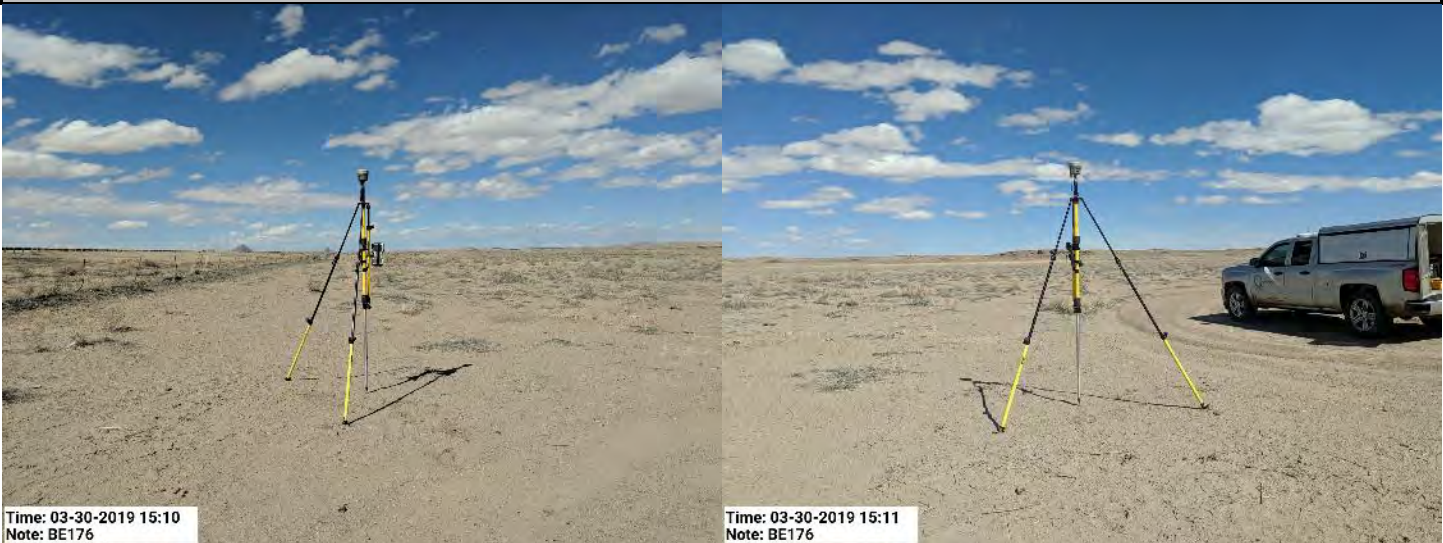
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4013130.582	166473.525	1733.63

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Time: 03-30-2019 15:10
Note: BE176

Time: 03-30-2019 15:11
Note: BE176



Time: 03-30-2019 15:11
Note: BE176

Time: 03-30-2019 15:11
Note: BE176



Point ID	BE177
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Palmer Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4092057.507	181310.567	1620.85

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.92069°N 108.57743°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.92069°N 108.57743°W	ACCURACY 5 m DATUM WGS84
BE177	HARDPACK DIRT	2018-12-15 20:46:00Z	BE177	HARDPACK DIRT	2018-12-15 20:46:20Z
DIRECTION 180 deg(T)	36.92069°N 108.57743°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.92069°N 108.57743°W	ACCURACY 5 m DATUM WGS84
BE177	HARDPACK DIRT	2018-12-15 20:46:35Z	BE177	HARDPACK DIRT	2018-12-15 20:46:56Z



Point ID	BE178
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bloomfield

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

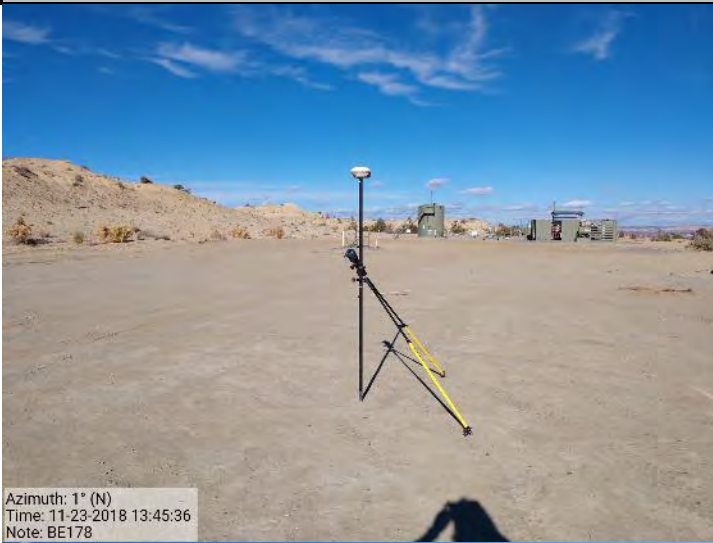
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4057755.582	240922.714	1867.32

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE179
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Coyote Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3989810.483	170308.569	1809.27

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 12:03
Note: BE179

Time: 03-28-2019 12:03
Note: BE179



Time: 03-28-2019 12:03
Note: BE179

Time: 03-28-2019 12:03
Note: BE179



Point ID	BE180
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4095362.893	341521.585	2387.360

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE181
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4048539.535	188036.464	1635.621

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE182
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Pine Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3927448.237	111216.258	2142.397

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE183
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4064240.134	244133.893	1693.577

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE184
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3959798.413	215399.568	2059.324

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



BE184 USGS_NM 2019-03-14 18:34:07Z



BE184 USGS_NM 2019-03-14 18:34:16Z



BE184 USGS_NM 2019-03-14 18:34:32Z



BE184 USGS_NM 2019-03-14 18:34:46Z



Point ID	BE185
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Mariano Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3939319.942	200877.990	2262.429

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Time: 03-24-2019 14:16
Note: BE185

Time: 03-24-2019 14:16
Note: BE185



Time: 03-24-2019 14:17
Note: BE185

Time: 03-24-2019 14:17
Note: BE185



Point ID	BE186
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Archuleta

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4080022.746	265196.405	1951.324

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	BE187
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3996175.376	272898.312	2106.950

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.08370°N 107.52217°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE187</p> <p>2019-04-13 09:58:29-06:00</p>	<p>DIRECTION 0 deg(T)</p> <p>36.08367°N 107.52221°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE187</p> <p>2019-04-13 09:58:17-06:00</p>
<p>DIRECTION 91 deg(T)</p> <p>36.08373°N 107.52225°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE187</p> <p>2019-04-13 09:58:03-06:00</p>	<p>DIRECTION 188 deg(T)</p> <p>36.08374°N 107.52219°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>BE187</p> <p>2019-04-13 09:57:50-06:00</p>



Point ID	BE188
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Thompson Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4034542.551	254480.251	1970.701

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2 meters

Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	BE189
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindreth

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4026287.026	312639.779	2157.076

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	BE190
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Red Valley

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4050694.318	136385.931	1926.772

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.53251°N 109.06094°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.53255°N 109.06099°W	ACCURACY 5 m DATUM WGS84
BE190	HARDPACK DIRT	2018-12-17 20:56:55Z	BE190	HARDPACK DIRT	2018-12-17 20:57:07Z
DIRECTION 180 deg(T)	36.53255°N 109.06099°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.53255°N 109.06099°W	ACCURACY 5 m DATUM WGS84
BE190	HARDPACK DIRT	2018-12-17 20:57:32Z	BE190	HARDPACK DIRT	2018-12-17 20:57:45Z



Point ID	BE191
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pueblo Alto Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3981625.942	273718.026	2019.978

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 274 deg(T)</p> <p>35.95280°N 107.50889°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 358 deg(T)</p> <p>35.95280°N 107.50894°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE191</p> <p>2019-04-13 15:31:19-06:00</p> <p>DIRECTION 93 deg(T)</p> <p>35.95283°N 107.50899°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>BE191</p> <p>2019-04-13 15:31:09-06:00</p> <p>DIRECTION 172 deg(T)</p> <p>35.95286°N 107.50894°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE191</p> <p>2019-04-13 15:30:58-06:00</p>	<p>BE191</p> <p>2019-04-13 15:30:44-06:00</p>



Point ID	BE192
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Chromo Mountain

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4083928.415	344391.047	2322.378

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE193
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3934348.496	129011.151	2038.498

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE194
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Alamo Mesa West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4029690.796	218637.652	1944.213

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:



BE194

2019-04-05
12:45:20-06:00

BE194

2019-04-05
12:45:29-06:00



BE194

2019-04-05
12:45:37-06:00

BE194

2019-04-05
12:45:47-06:00



Point ID	BE195
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Star Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3977550.095	278272.330	2028.524

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 263 deg(T) 35.91716°N 107.45730°W ACCURACY 5 m DATUM WGS84</p> <p>BE195 2019-04-13 15:57:53-06:00</p>	<p>DIRECTION 182 deg(T) 35.91718°N 107.45735°W ACCURACY 5 m DATUM WGS84</p> <p>BE195 2019-04-13 15:57:41-06:00</p>
<p>DIRECTION 89 deg(T) 35.91710°N 107.45740°W ACCURACY 5 m DATUM WGS84</p> <p>BE195 2019-04-13 15:57:24-06:00</p>	<p>DIRECTION 358 deg(T) 35.91707°N 107.45733°W ACCURACY 5 m DATUM WGS84</p> <p>BE195 2019-04-13 15:57:16-06:00</p>



Point ID	BE196
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	Meters

Northing	Easting	Elevation
3946978.183	162414.311	2092.267

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.60896°N 108.72647°W ACCURACY 5 m DATUM WGS84</p> <p>BE196 GVL 2018-12-19 19:57:00Z</p>	<p>DIRECTION 90 deg(T) 35.60896°N 108.72647°W ACCURACY 5 m DATUM WGS84</p> <p>BE196 GVL 2018-12-19 19:57:21Z</p>
<p>DIRECTION 180 deg(T) 35.60896°N 108.72647°W ACCURACY 5 m DATUM WGS84</p> <p>BE196 GVL 2018-12-19 19:57:38Z</p>	<p>DIRECTION 270 deg(T) 35.60896°N 108.72647°W ACCURACY 5 m DATUM WGS84</p> <p>BE196 GVL 2018-12-19 19:57:51Z</p>



Point ID	BE197
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Heart Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3952036.639	224319.156	2070.825

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.010
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



BE197 USGS_NM 2019-03-14 23:12:34Z



BE197 USGS_NM 2019-03-14 23:12:45Z



BE197 USGS_NM 2019-03-14 23:12:56Z



BE197 USGS_NM 2019-03-14 23:13:08Z



Point ID	BE198
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togey Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3883708.043	191526.885	2175.665

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:

<p>DIRECTION 272 deg(T)</p> <p>35.04893°N 108.38171°W</p> <p>ACCURACY 10 m DATUM WGS84</p> <p>BE198</p> <p>2019-04-15 15:09:58-06:00</p>	<p>DIRECTION 3 deg(T)</p> <p>35.04895°N 108.38182°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE198</p> <p>2019-04-15 15:10:05-06:00</p>
<p>DIRECTION 94 deg(T)</p> <p>35.04899°N 108.38188°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE198</p> <p>2019-04-15 15:10:17-06:00</p>	<p>DIRECTION 178 deg(T)</p> <p>35.04904°N 108.38181°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE198</p> <p>2019-04-15 15:10:33-06:00</p>



Point ID	BE199
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Anastacio Springs

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4096118.018	264855.336	2179.268

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



NWNM BE199 2018-11-23 11:33:15-07:00

NWNM BE199 2018-11-23 11:33:09-07:00



NWNM BE199 2018-11-23 11:33:03-07:00



NWNM BE199 2018-11-23 11:32:58-07:00



Point ID	BE200
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	West of La Vida Mission

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

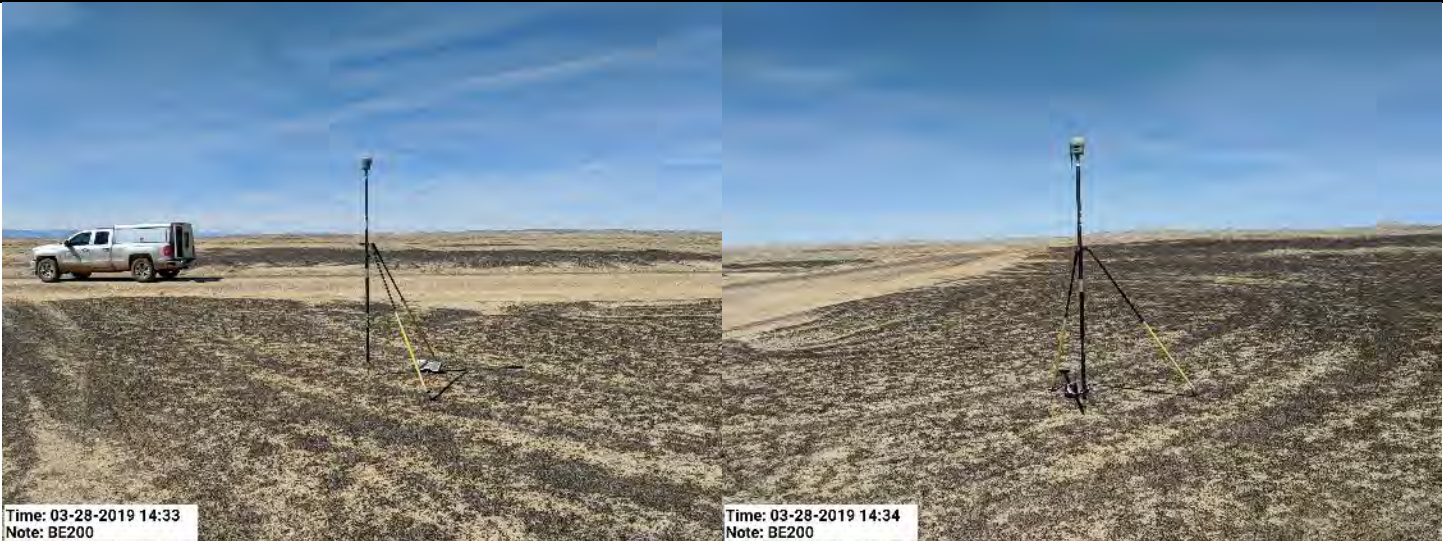
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3994764.904	197180.536	1784.264

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.013
RMSE Z	0.015
GPS Method	RTK

PHOTOS:





Point ID	BE201
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4080798.011	141343.768	1717.322

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE202
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4030660.937	181379.669	1645.425

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE203
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Little Water

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4045542.397	164919.139	1714.760

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:

<p>DIRECTION 277 deg(T)</p> <p>36.49662°N 108.74061°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE203</p> <p>2019-04-07 13:49:08-06:00</p>	<p>DIRECTION 180 deg(T)</p> <p>36.49666°N 108.74065°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE203</p> <p>2019-04-07 13:49:19-06:00</p>
<p>DIRECTION 92 deg(T)</p> <p>36.49664°N 108.74071°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE203</p> <p>2019-04-07 13:49:34-06:00</p>	<p>DIRECTION 2 deg(T)</p> <p>36.49658°N 108.74067°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE203</p> <p>2019-04-07 13:50:03-06:00</p>



Point ID	BE204
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Farmington South

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

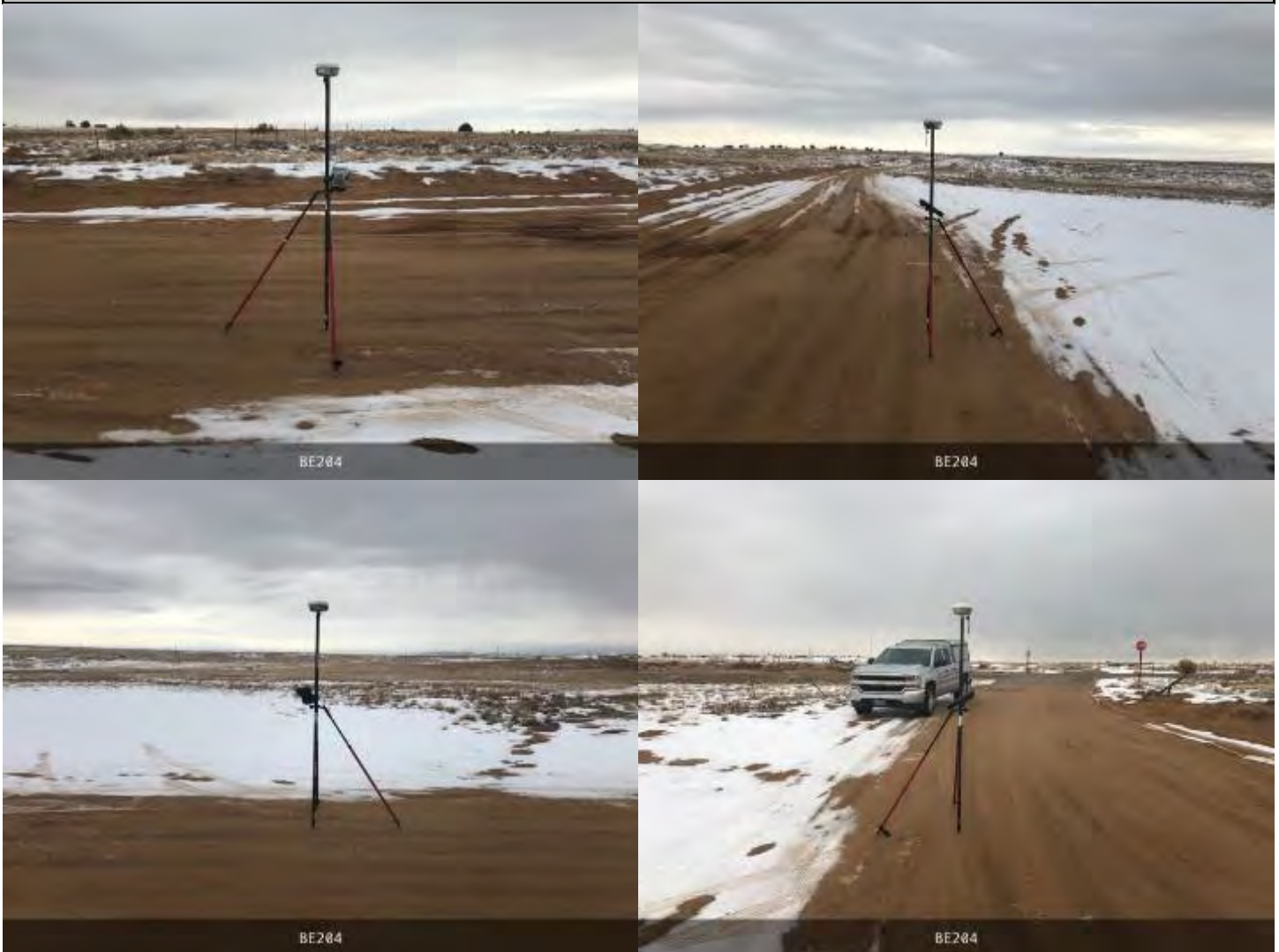
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4059424.876	214844.463	1855.325

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE205
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Two Grey Hills

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4013339.667	160294.575	1769.451

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE206
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4026637.913	197393.792	1800.744

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE207
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4002694.831	296225.202	2087.066

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	BE208
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback North

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

Coordinate System	
NAD83(2011)	
NAVD88	
GEOID12B	
US Survey Feet	

Northing	Easting	Elevation
4068238.013	178701.579	1583.150

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 276 deg(T)</p> <p>36.70555°N 108.59649°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 185 deg(T)</p> <p>36.70556°N 108.59653°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE208</p> <p>2019-04-06 12:06:53-06:00</p> <p>DIRECTION 92 deg(T)</p> <p>36.70552°N 108.59660°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>BE208</p> <p>2019-04-06 12:07:08-06:00</p> <p>DIRECTION 0 deg(T)</p> <p>36.70550°N 108.59658°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE208</p> <p>2019-04-06 12:07:19-06:00</p>	<p>BE208</p> <p>2019-04-06 12:07:32-06:00</p>



Point ID	BE209
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4037631.592	203106.988	1941.042

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE210
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

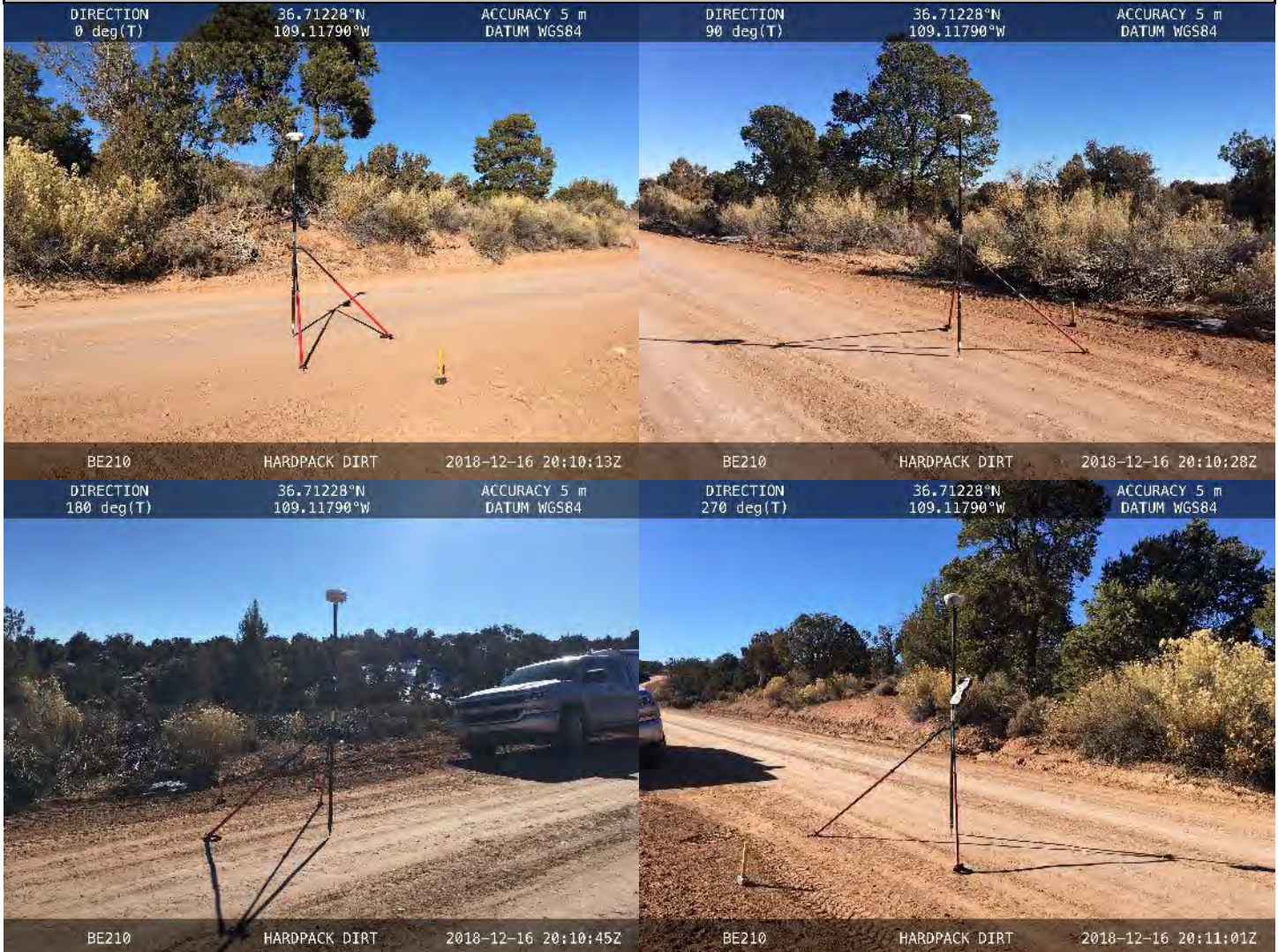
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4070867.782	132141.635	1913.682

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE211
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Counselor

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4008774.429	282346.158	2085.907

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 92 deg(T)</p>  <p>BE211</p>	<p>36.19931°N 107.42091°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 178 deg(T)</p>  <p>BE211</p>	<p>36.19935°N 107.42086°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>DIRECTION 268 deg(T)</p>  <p>BE211</p>	<p>36.19925°N 107.42075°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 357 deg(T)</p>  <p>BE211</p>	<p>36.19928°N 107.42085°W</p> <p>ACCURACY 5 m DATUM WGS84</p>



Point ID	BE212
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Twin Lakes

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3950206.149	153276.740	2024.463

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.63483°N 108.82852°W ACCURACY 5 m DATUM WGS84</p> <p>BE212 GVL 2018-12-19 19:22:14Z</p>	<p>DIRECTION 90 deg(T) 35.63487°N 108.82857°W ACCURACY 5 m DATUM WGS84</p> <p>BE212 GVL 2018-12-19 19:22:27Z</p>
<p>DIRECTION 180 deg(T) 35.63491°N 108.82852°W ACCURACY 5 m DATUM WGS84</p> <p>BE212 GVL 2018-12-19 19:22:44Z</p>	<p>DIRECTION 270 deg(T) 35.63489°N 108.82847°W ACCURACY 5 m DATUM WGS84</p> <p>BE212 GVL 2018-12-19 19:22:59Z</p>



Point ID	BE213
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Taylor Ranch

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3994541.057	307634.801	2247.778

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE214
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Standing Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3962073.597	200645.052	2041.901

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE215
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3991748.284	281592.666	2140.07

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.016
RMSE Z	0.018
GPS Method	RTK

PHOTOS:

<p>DIRECTION 179 deg(T) 36.04583°N 107.42451°W ACCURACY 5 m DATUM WGS84</p> <p>BE215 2019-04-13 11:19:01-06:00</p>	<p>DIRECTION 95 deg(T) 36.04581°N 107.42452°W ACCURACY 5 m DATUM WGS84</p> <p>BE215 2019-04-13 11:18:51-06:00</p>
<p>DIRECTION 1 deg(T) 36.04576°N 107.42446°W ACCURACY 5 m DATUM WGS84</p> <p>BE215 2019-04-13 11:18:37-06:00</p>	<p>DIRECTION 276 deg(T) 36.04578°N 107.42435°W ACCURACY 5 m DATUM WGS84</p> <p>BE215 2019-04-13 11:18:21-06:00</p>



Point ID	BE216
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3928263.365	160026.933	2042.176

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.43978°N 108.74494°W ACCURACY 5 m DATUM WGS84</p> <p>BE216 GVL 2018-12-20 17:42:07Z</p>	<p>DIRECTION 90 deg(T) 35.43980°N 108.74498°W ACCURACY 5 m DATUM WGS84</p> <p>BE216 GVL 2018-12-20 17:42:18Z</p>
<p>DIRECTION 180 deg(T) 35.43984°N 108.74494°W ACCURACY 5 m DATUM WGS84</p> <p>BE216 GVL 2018-12-20 17:42:31Z</p>	<p>DIRECTION 280 deg(T) 35.43980°N 108.74489°W ACCURACY 5 m DATUM WGS84</p> <p>BE216 GVL 2018-12-20 17:42:53Z</p>



Point ID	BE217
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Red Lake Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3976160.524	202995.597	1905.202

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/22/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	BE218
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Becenti Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3964123.656	227175.991	1968.226

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/22/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 35.78331°N ACCURACY 5 m 0 deg(T) 108.01841°W DATUM WGS84</p> <p>BE218 DRT 2018-12-22 18:43:10Z</p>	<p>DIRECTION 35.78336°N ACCURACY 5 m 90 deg(T) 108.01846°W DATUM WGS84</p> <p>BE218 DRT 2018-12-22 18:43:30Z</p>
<p>DIRECTION 35.78343°N ACCURACY 5 m 180 deg(T) 108.01847°W DATUM WGS84</p> <p>BE218 DRT 2018-12-22 18:43:56Z</p>	<p>DIRECTION 35.78338°N ACCURACY 5 m 270 deg(T) 108.01836°W DATUM WGS84</p> <p>BE218 DRT 2018-12-22 18:44:09Z</p>



Point ID	BE219
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4028428.575	208181.344	1874.519

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/13/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.35672°N 108.25206°W ACCURACY 5 m DATUM WGS84</p> <p>BE219 GVL 2018-12-13 21:54:08Z</p>	<p>DIRECTION 90 deg(T) 36.35675°N 108.25210°W ACCURACY 5 m DATUM WGS84</p> <p>BE219 GVL 2018-12-13 21:54:24Z</p>
<p>DIRECTION 180 deg(T) 36.35680°N 108.25205°W ACCURACY 5 m DATUM WGS84</p> <p>BE219 GVL 2018-12-13 21:54:41Z</p>	<p>DIRECTION 270 deg(T) 36.35674°N 108.25199°W ACCURACY 5 m DATUM WGS84</p> <p>BE219 GVL 2018-12-13 21:55:01Z</p>



Point ID	BE220
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4008914.832	272057.322	2205.843

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTK

PHOTOS:

<p>DIRECTION 186 deg(T)</p> <p>36.19827°N 107.53523°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>DIRECTION 270 deg(T)</p> <p>36.19824°N 107.53517°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE220</p> <p>2019-04-12 12:33:11-06:00</p> <p>DIRECTION 357 deg(T)</p> <p>36.19819°N 107.53523°W</p> <p>ACCURACY 5 m DATUM WGS84</p>	<p>BE220</p> <p>2019-04-12 12:33:31-06:00</p> <p>DIRECTION 87 deg(T)</p> <p>36.19821°N 107.53527°W</p> <p>ACCURACY 5 m DATUM WGS84</p>
<p>BE220</p> <p>2019-04-12 12:32:50-06:00</p>	<p>BE220</p> <p>2019-04-12 12:32:58-06:00</p>



Point ID	BE221
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Ciniza

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3933920.726	185318.265	2088.988

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	BE222
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Orphan Annie Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3952764.467	246817.784	2167.482

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.68629°N 107.79777°W ACCURACY 5 m DATUM WGS84</p> <p>BE222 GVL 2018-12-21 20:48:10Z</p>	<p>DIRECTION 90 deg(T) 35.68633°N 107.79782°W ACCURACY 5 m DATUM WGS84</p> <p>BE222 GVL 2018-12-21 20:48:22Z</p>
<p>DIRECTION 180 deg(T) 35.68637°N 107.79776°W ACCURACY 5 m DATUM WGS84</p> <p>BE222 GVL 2018-12-21 20:48:36Z</p>	<p>DIRECTION 270 deg(T) 35.68634°N 107.79770°W ACCURACY 5 m DATUM WGS84</p> <p>BE222 GVL 2018-12-21 20:48:49Z</p>



Point ID	BE223
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4006603.483	289677.685	2052.979

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE224
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Blanco

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4059410.784	233055.560	1708.998

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	FastStatic

PHOTOS:





Point ID	BE225
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4025304.369	269382.704	2151.206

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 273 deg(T)</p> <p>36.34519°N 107.56977°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE225 2019-04-11 12:08:53-06:00</p>	<p>DIRECTION 173 deg(T)</p> <p>36.34526°N 107.56979°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE225 2019-04-11 12:09:05-06:00</p>
<p>DIRECTION 94 deg(T)</p> <p>36.34521°N 107.56983°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE225 2019-04-11 12:09:19-06:00</p>	<p>DIRECTION 2 deg(T)</p> <p>36.34516°N 107.56978°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>BE225 2019-04-11 12:09:30-06:00</p>



Point ID	BE226
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Turley

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4075229.442	252555.180	1781.949

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	BE227
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4027358.058	166597.108	1708.164

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE228
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback South

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4054013.480	186711.469	1700.833

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:





Point ID	BE229
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Cutter Canyon

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4068291.303	263222.726	1931.365

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	BE230
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tohatchi

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3972784.833	150201.856	2114.253

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	BE231
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3900295.287	170397.445	2113.234

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.013
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



BE231 USGS_NM 2019-03-17 21:46:20Z

BE231 USGS_NM 2019-03-17 21:46:30Z



BE231 USGS_NM 2019-03-17 21:46:43Z



BE231 USGS_NM 2019-03-17 21:47:04Z



Point ID	BE232
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Todilto Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3980777.341	148526.426	2388.297

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	BE233
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4083666.836	141941.499	1714.873

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	BE234
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinedale

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3942367.449	190932.570	2194.965

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



Time: 03-24-2019 15:36
Note: BE234

Time: 03-24-2019 15:36
Note: BE234



Time: 03-24-2019 15:37
Note: BE234

Time: 03-24-2019 15:37
Note: BE234



Point ID	BE235
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4034963.866	319125.707	2377.059

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	BE236
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Barth Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3879452.747	124234.935	2006.983

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	BE237
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Coyote Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3982807.060	162849.820	2325.120

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	BE238
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Gomez Ranch

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4081542.973	285087.801	1999.237

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





URBAN AREA POINT LOG SHEETS



Point ID	UA001
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4074332.728	169739.925	1547.375

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	UA002
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup East

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3937777.947	162004.674	2001.191

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	UA003
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4021618.558	167077.453	1693.109

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	UA004
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4056119.561	226858.821	1853.783

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	UA005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Dulce

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4089501.189	322965.799	2071.788

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



Note: UA005



Note: UA005



Note: UA005



Note: UA005



Point ID	UA006
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lybrook

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4012703.139	270265.435	2187.511

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	RTK

PHOTOS:

<p>DIRECTION 180 deg(T) 36.23195°N 107.55626°W ACCURACY 5 m DATUM WGS84</p> <p>UA006 2019-04-12 16:24:34-06:00</p>	<p>DIRECTION 274 deg(T) 36.23189°N 107.55620°W ACCURACY 5 m DATUM WGS84</p> <p>UA006 2019-04-12 16:24:23-06:00</p>
<p>DIRECTION 4 deg(T) 36.23188°N 107.55626°W ACCURACY 5 m DATUM WGS84</p> <p>UA006 2019-04-12 16:24:14-06:00</p>	<p>DIRECTION 99 deg(T) 36.23191°N 107.55630°W ACCURACY 5 m DATUM WGS84</p> <p>UA006 2019-04-12 16:24:07-06:00</p>



Point ID	UA007
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Window Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3953859.464	132626.926	2056.381

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	UA008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4002690.062	296239.721	2087.142

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	UA009
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Navajo Dam

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4077416.670	266942.493	1899.033

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	UA010
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3927812.017	194658.381	2167.276

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	UA011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3954476.576	214972.379	2117.720

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



UA011 USGS_NM 2019-03-14 18:09:20Z



UA011 USGS_NM 2019-03-14 18:09:28Z



UA011 USGS_NM 2019-03-14 18:09:38Z



UA011 USGS_NM 2019-03-14 18:09:49Z



Point ID	UA012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Beclabito

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4083674.596	141931.443	1715.555

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	UA013
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3870478.254	112772.543	1896.948

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	UA014
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindreth

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4019303.576	316362.292	2194.760

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.014
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	UA015
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bloomfield

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4067024.513	233777.250	1666.183

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	UA016
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Deep Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3881234.595	114145.783	1929.909

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





TALL WEED POINT LOG SHEETS



Point ID	TW001
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3933200.175	160490.589	2106.799

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.48433°N 108.74189°W	ACCURACY 5 m DATUM WGS84	DIRECTION 50 deg(T)	35.48435°N 108.74193°W	ACCURACY 5 m DATUM WGS84
TG001	TALL GRASS	2018-12-20 17:24:21Z	TG001	TALL GRASS	2018-12-20 17:24:36Z
DIRECTION 180 deg(T)	35.48442°N 108.74189°W	ACCURACY 5 m DATUM WGS84	DIRECTION 275 deg(T)	35.48437°N 108.74183°W	ACCURACY 5 m DATUM WGS84
TG001	TALL GRASS	2018-12-20 17:25:04Z	TG001	TALL GRASS	2018-12-20 17:26:14Z



Point ID	TW002
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Wild Cow Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3870267.385	112668.599	1894.951

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	TW003
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hugh Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4048711.593	216356.454	1815.82

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/05/2018
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	TW004
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bloomfield

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4066991.731	235650.954	1668.564

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/21/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FastStatic

PHOTOS:





Point ID	TW005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Teec Nos Pos

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4101614.379	143579.546	1426.418

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	TW006
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb NE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4037332.382	184177.047	1663.803

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/09/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 92 deg(T) 36.42928°N 108.52278°W ACCURACY 5 m DATUM WGS84</p> <p>TG006 2019-04-09 10:20:29-06:00</p>	<p>DIRECTION 181 deg(T) 36.42931°N 108.52274°W ACCURACY 5 m DATUM WGS84</p> <p>TG006 2019-04-09 10:20:42-06:00</p>
<p>DIRECTION 269 deg(T) 36.42929°N 108.52269°W ACCURACY 5 m DATUM WGS84</p> <p>TG006 2019-04-09 10:20:54-06:00</p>	<p>DIRECTION 358 deg(T) 36.42924°N 108.52273°W ACCURACY 5 m DATUM WGS84</p> <p>TG006 2019-04-09 10:21:05-06:00</p>



Point ID	TW007
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Whitehorse

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3966807.672	259017.671	2077.948

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/21/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.81582°N 107.66733°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.81586°N 107.66739°W	ACCURACY 5 m DATUM WGS84
TG007	TALL GRASS	2018-12-21 20:03:42Z	TG007	TALL GRASS	2018-12-21 20:03:53Z
DIRECTION 180 deg(T)	35.81592°N 107.66729°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.81586°N 107.66726°W	ACCURACY 5 m DATUM WGS84
TG007	TALL GRASS	2018-12-21 20:04:05Z	TG007	TALL GRASS	2018-12-21 20:04:22Z



Point ID	TW008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnham Trading Post

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

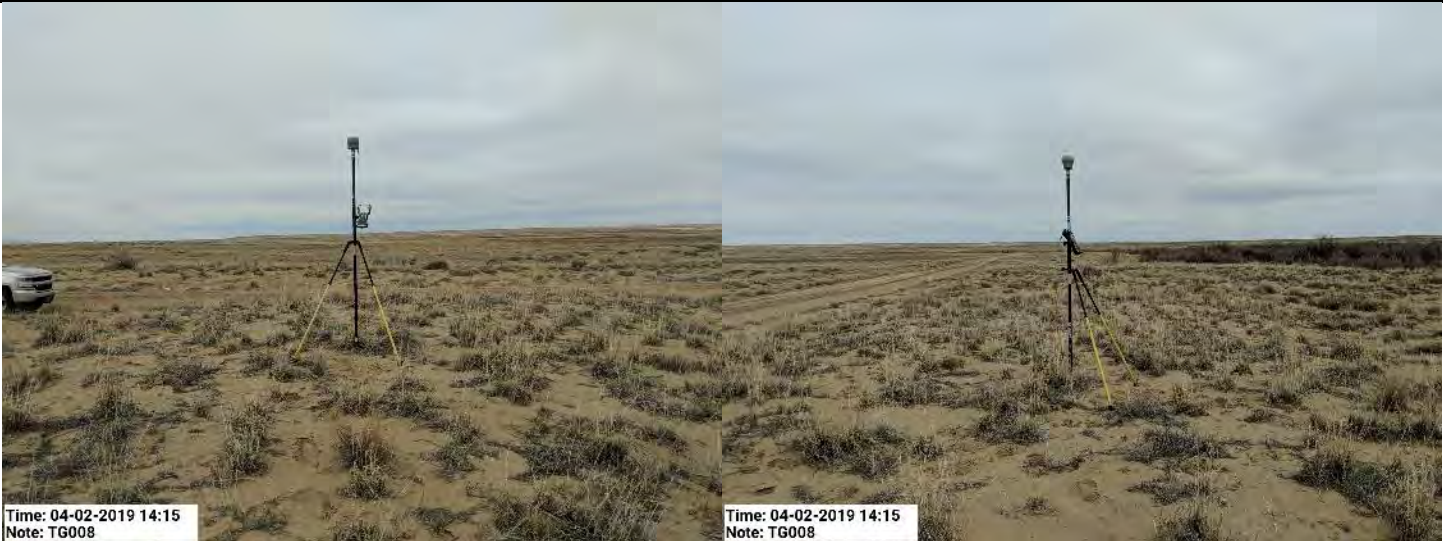
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4021504.057	190685.926	1704.399

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 04-02-2019 14:15
Note: TG008

Time: 04-02-2019 14:15
Note: TG008



Time: 04-02-2019 14:16
Note: TG008

Time: 04-02-2019 14:16
Note: TG008



Point ID	TW009
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Heart Rock

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3948231.216	221792.748	2147.243

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.009
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



TW009 USGS_NM 2019-03-15 20:40:36Z



TW009 USGS_NM 2019-03-15 20:40:47Z



TW009 USGS_NM 2019-03-15 20:40:57Z



TW009 USGS_NM 2019-03-15 20:41:13Z



Point ID	TW010
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Antelope Lookout Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3965488.299	215102.948	2021.435

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



TW010 USGS_NM 2019-03-14 19:09:15Z



TW010 USGS_NM 2019-03-14 19:09:29Z



TW010 USGS_NM 2019-03-14 19:09:39Z



TW010 USGS_NM 2019-03-14 19:09:50Z



Point ID	TW011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3871880.772	195206.867	2219.341

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.007
RMSE Z	0.010
GPS Method	RTK

PHOTOS:

DIRECTION 0 deg(T)	34.94361°N 108.33720°W	ACCURACY 10 m DATUM WGS84	DIRECTION 89 deg(T)	34.94363°N 108.33729°W	ACCURACY 5 m DATUM WGS84
TG011	2019-04-15 12:43:58-06:00	TG011	2019-04-15 12:44:10-06:00		
DIRECTION 179 deg(T)	34.94368°N 108.33723°W	ACCURACY 5 m DATUM WGS84	DIRECTION 264 deg(T)	34.94367°N 108.33717°W	ACCURACY 5 m DATUM WGS84
TG011	2019-04-15 12:44:27-06:00	TG011	2019-04-15 12:44:37-06:00		



Point ID	TW012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sheep Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4011551.477	166314.471	1752.399

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	TW013
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chuska Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3963905.513	166564.695	1865.786

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

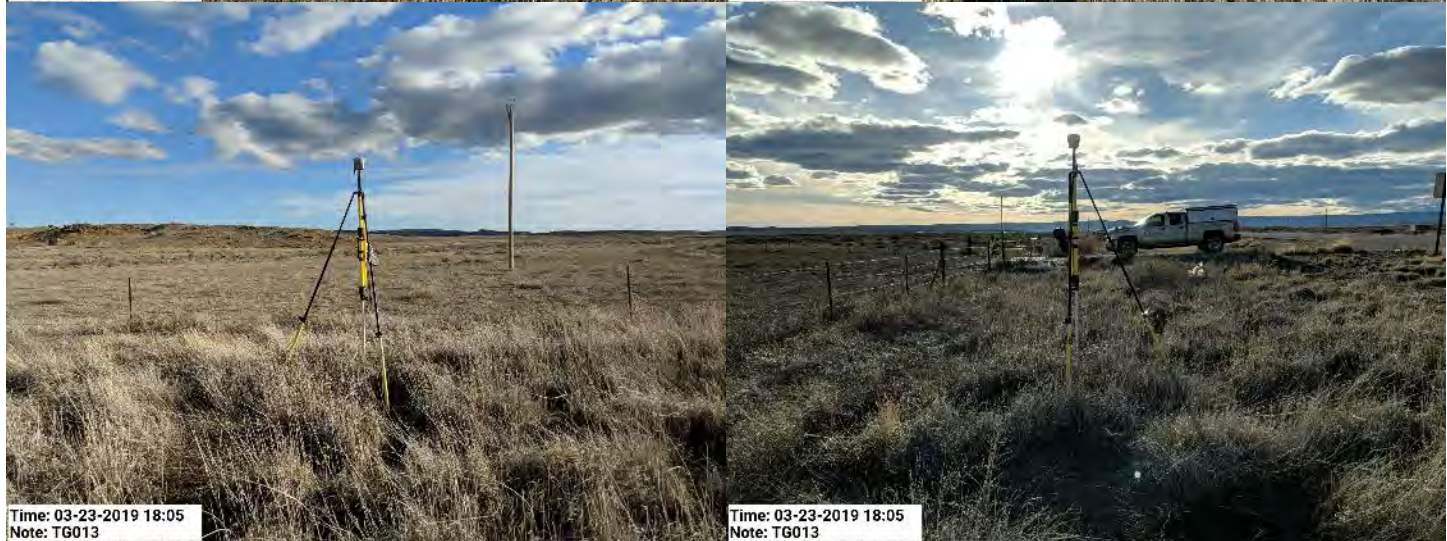
Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	RTK

PHOTOS:



Time: 03-23-2019 18:04
Note: TG013

Time: 03-23-2019 18:04
Note: TG013



Time: 03-23-2019 18:05
Note: TG013

Time: 03-23-2019 18:05
Note: TG013



Point ID	TW014
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togey Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3882420.640	180981.362	2152.795

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

DIRECTION 178 deg(T)		35.03421°N 108.49678°W		ACCURACY 5 m DATUM WGS84		DIRECTION 91 deg(T)		35.03416°N 108.49683°W		ACCURACY 5 m DATUM WGS84	
TG014 2019-04-16 14:13:04-06:00						TG014 2019-04-16 14:12:53-06:00					
DIRECTION 13 deg(T)		35.03410°N 108.49676°W		ACCURACY 5 m DATUM WGS84		DIRECTION 271 deg(T)		35.03413°N 108.49670°W		ACCURACY 5 m DATUM WGS84	
TG014 2019-04-16 14:12:40-06:00						TG014 2019-04-16 14:12:27-06:00					



Point ID	TW015
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	The Dyke

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3840603.304	168216.432	2158.172

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	TW016
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rattlesnake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4076017.142	162029.541	1611.301

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	TW017
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Red Valley

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4054233.651	136796.499	1833.688

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.56451°N 109.05803°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.56453°N 109.05809°W	ACCURACY 5 m DATUM WGS84
TG017	TALL GRASS	2018-12-17 18:59:08Z	TG017	TALL GRASS	2018-12-17 18:59:24Z
DIRECTION 180 deg(T)	36.56456°N 109.05802°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.56454°N 109.05795°W	ACCURACY 5 m DATUM WGS84
TG017	TALL GRASS	2018-12-17 18:59:37Z	TG017	TALL GRASS	2018-12-17 18:59:51Z



Point ID	TW018
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Houck

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3913027.005	121726.553	1865.336

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	TW019
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4013869.918	297290.330	2196.523

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	TW020
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Carson Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4030983.284	221629.877	1932.632

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:



TG020

2019-04-05
11:48:15-06:00

TG020

2019-04-05
11:48:26-06:00



TG020

2019-04-05
11:48:37-06:00

TG020

2019-04-05
11:48:46-06:00



Point ID	TW021
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Ceadro Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3863681.111	112437.315	1920.563

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	TW022
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback North

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4070321.095	183517.485	1599.019

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	TW023
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3927825.962	194623.922	2167.119

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Note: TG023

Note: TG023



Note: TG023

Note: TG023



Point ID	TW024
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Shoemaker Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3856892.908	174900.634	2174.123

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Note: TG024



Note: TG024



Note: TG024



Note: TG024



Point ID	TW025
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4025256.309	316380.203	2213.050

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.014
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	TW026
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4028119.406	168501.698	1698.810

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.011
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 04-01-2019 16:24
Note: TG026

Time: 04-01-2019 16:24
Note: TG026



Time: 04-01-2019 16:24
Note: TG026

Time: 04-01-2019 16:24
Note: TG026



Point ID	TW027
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

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

Coordinate System	
NAD83(2011)	
NAVD88	
GEOID12B	
US Survey Feet	

Northing	Easting	Elevation
4006084.856	257638.422	2090.955

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

<p>DIRECTION 277 deg(T)</p> <p>36.16926°N 107.69454°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>TG027</p> <p>2019-04-14 14:34:36-06:00</p>	<p>DIRECTION 179 deg(T)</p> <p>36.16929°N 107.69458°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>TG027</p> <p>2019-04-14 14:34:59-06:00</p>
<p>DIRECTION 87 deg(T)</p> <p>36.16926°N 107.69465°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>TG027</p> <p>2019-04-14 14:35:22-06:00</p>	<p>DIRECTION 356 deg(T)</p> <p>36.16920°N 107.69460°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>TG027</p> <p>2019-04-14 14:35:35-06:00</p>



Point ID	TW028
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Milk Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3975481.935	211685.798	1936.377

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	TW029
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Cutter Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4060655.236	256701.179	1765.536

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.011
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	TW030
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Vanderwagen Draw

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3901648.593	157802.861	2098.777

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	TW031
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3854393.747	111545.053	1789.296

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/03/2019
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:





Point ID	TW032
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Seven Lakes SE

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3966078.753	244269.267	2042.300

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/22/2018
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 35.80553°N 107.83014°W ACCURACY 5 m DATUM WGS84</p> <p>TW032 TALL_WEED 2018-12-22 19:16:00Z</p>	<p>DIRECTION 90 deg(T) 35.80557°N 107.83019°W ACCURACY 5 m DATUM WGS84</p> <p>TW032 TALL_WEED 2018-12-22 19:16:12Z</p>
<p>DIRECTION 180 deg(T) 35.80559°N 107.83014°W ACCURACY 5 m DATUM WGS84</p> <p>TW032 TALL_WEED 2018-12-22 19:16:28Z</p>	<p>DIRECTION 270 deg(T) 35.80555°N 107.83010°W ACCURACY 5 m DATUM WGS84</p> <p>TW032 TALL_WEED 2018-12-22 19:16:43Z</p>



Point ID	TW033
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4043171.130	152971.676	1862.708

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:

DIRECTION 0 deg(T)	36.47097°N 108.87271°W	ACCURACY 5 m DATUM WGS84	DIRECTION 88 deg(T)	36.47102°N 108.87276°W	ACCURACY 5 m DATUM WGS84
2019-04-07 12:08:52-06:00			2019-04-07 12:09:02-06:00		
DIRECTION 183 deg(T)	36.47106°N 108.87271°W	ACCURACY 5 m DATUM WGS84	DIRECTION 261 deg(T)	36.47101°N 108.87269°W	ACCURACY 5 m DATUM WGS84
2019-04-07 12:09:21-06:00			2019-04-07 12:09:37-06:00		



Point ID	TW034
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4025259.174	269382.599	2152.378

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	FS

PHOTOS:

<p>DIRECTION 271 deg(T) 36.34481°N 107.56972°W ACCURACY 5 m DATUM WGS84</p> <p>TG034 2019-04-11 11:48:20-06:00</p>	<p>DIRECTION 185 deg(T) 36.34484°N 107.56975°W ACCURACY 5 m DATUM WGS84</p> <p>TG034 2019-04-11 11:48:33-06:00</p>
<p>DIRECTION 104 deg(T) 36.34482°N 107.56983°W ACCURACY 5 m DATUM WGS84</p> <p>TG034 2019-04-11 11:48:48-06:00</p>	<p>DIRECTION 2 deg(T) 36.34478°N 107.56981°W ACCURACY 5 m DATUM WGS84</p> <p>TG034 2019-04-11 11:49:02-06:00</p>



Point ID	TW035
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Toyee

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3967359.492	191097.112	1901.422

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/23/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	TW036
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Window Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3958107.667	132206.236	2084.266

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.009
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	TW037
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Wild Cow Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3877189.663	121140.692	1991.145

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Note: TG037

Note: TG037



Note: TG037

Note: TG037



Point ID	TW038
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	High Lonesome Well

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3881775.237	128634.945	1948.55

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	TW039
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

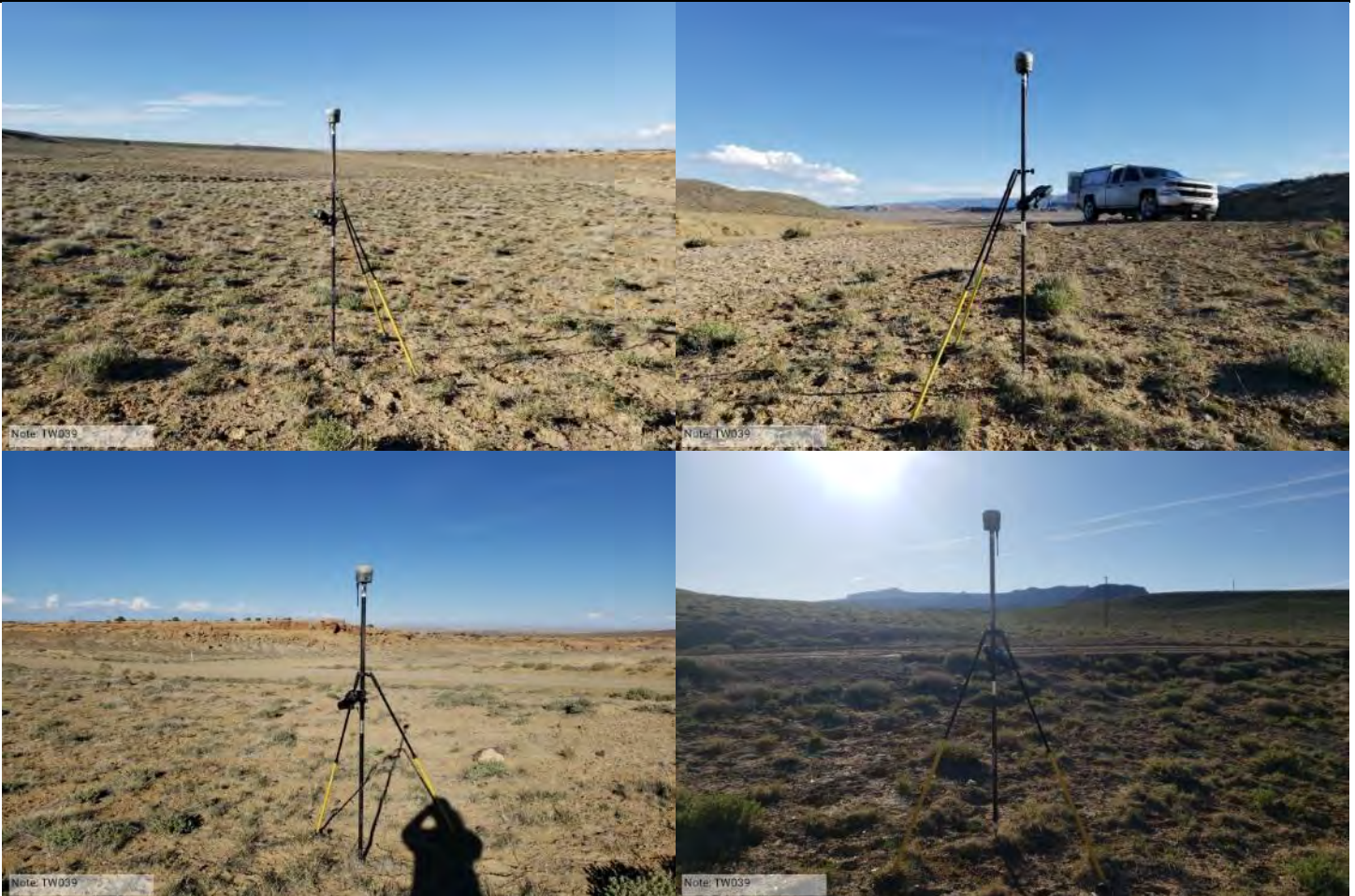
Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4042006.313	153016.963	1882.23

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.003
RMSE Z	0.005
GPS Method	Fast Static

PHOTOS:





SHRUB POINT LOG SHEETS



Point ID	SH001
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togey Lake

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3882406.949	189511.249	2163.675

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:

DIRECTION 90 deg(T)	35.03666°N 108.40345°W	ACCURACY 5 m DATUM WGS84	DIRECTION 177 deg(T)	35.03671°N 108.40339°W	ACCURACY 5 m DATUM WGS84
SH001	2019-04-15 14:42:57-06:00		SH001	2019-04-15 14:43:07-06:00	
DIRECTION 246 deg(T)	35.03669°N 108.40333°W	ACCURACY 5 m DATUM WGS84	DIRECTION 1 deg(T)	35.03662°N 108.40341°W	ACCURACY 5 m DATUM WGS84
SH001	2019-04-15 14:43:22-06:00		SH001	2019-04-15 14:43:35-06:00	



Point ID	SH002
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3903998.639	167008.096	2094.887

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	SH003
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Rocky Point

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4080793.516	153533.058	1609.669

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH004
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Mule Dam

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3997515.494	282170.403	2190.457

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/13/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	SH005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lybrook

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

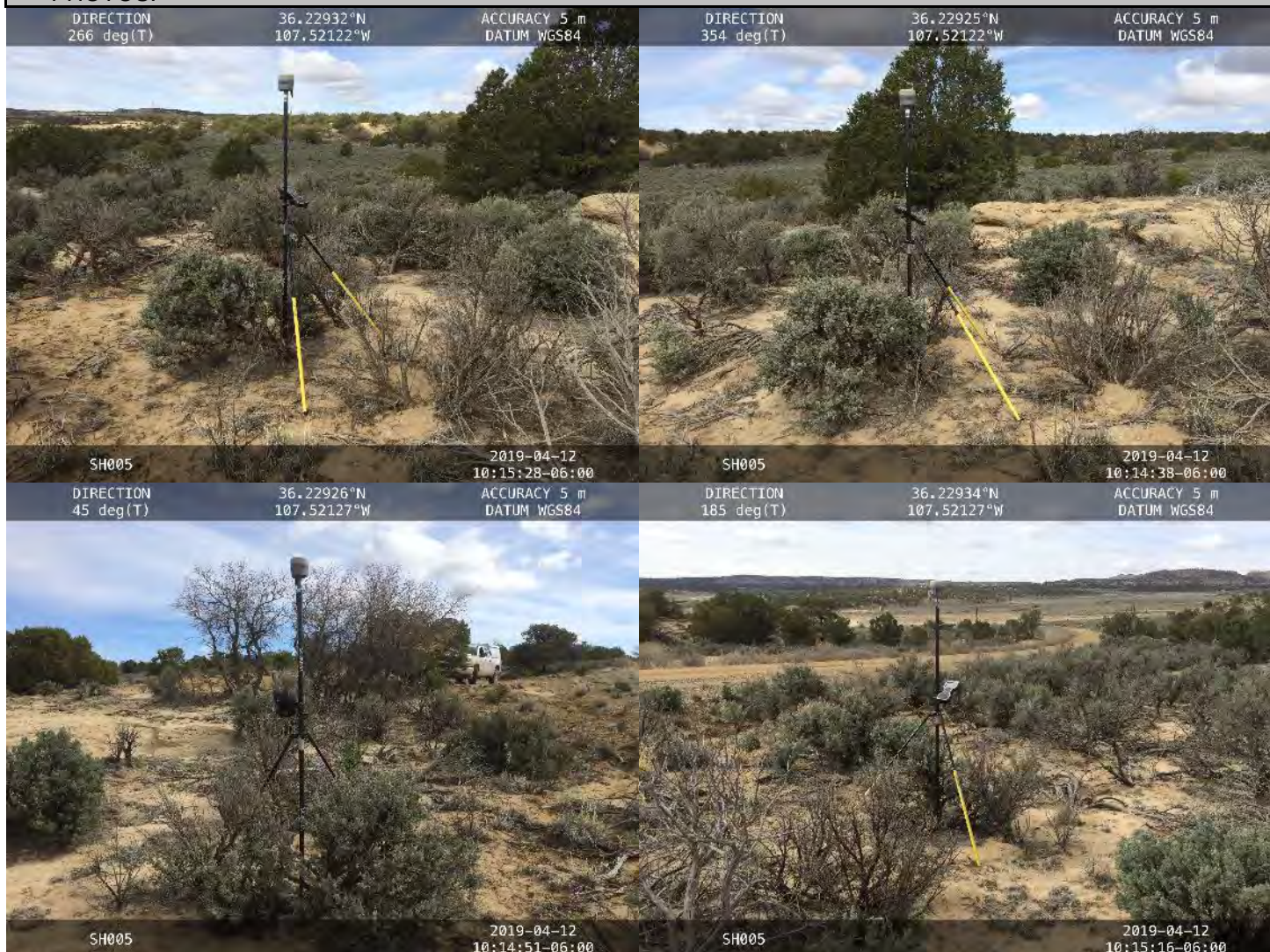
Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4012325.419	273403.902	2132.426

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH006
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Archuleta

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4083341.351	256126.830	1819.138

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	SH007
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Tohatchi

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3972766.140	150177.597	2115.549

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-25-2019 15:20
Note: SH007

Time: 03-25-2019 15:20
Note: SH007



Time: 03-25-2019 15:20
Note: SH007

Time: 03-25-2019 15:20
Note: SH007



Point ID	SH008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cement Lake

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4064527.391	314905.899	2157.594

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



Note: SH008

Note: SH008



Note: SH008

Note: SH008



Point ID	SH009
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Hogback South

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4054888.359	177277.557	1584.488

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	FS

PHOTOS:

<p>DIRECTION 182 deg(T) 36.58497°N 108.60689°W ACCURACY 5 m DATUM WGS84</p> <p>SH009 2019-04-06 13:37:28-06:00</p>	<p>DIRECTION 272 deg(T) 36.58494°N 108.60684°W ACCURACY 5 m DATUM WGS84</p> <p>SH009 2019-04-06 13:37:47-06:00</p>
<p>DIRECTION 1 deg(T) 36.58491°N 108.60691°W ACCURACY 5 m DATUM WGS84</p> <p>SH009 2019-04-06 13:38:01-06:00</p>	<p>DIRECTION 88 deg(T) 36.58495°N 108.60694°W ACCURACY 5 m DATUM WGS84</p> <p>SH009 2019-04-06 13:38:14-06:00</p>



Point ID	SH010
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3927830.822	194643.928	2166.829

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	SH011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gould Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4054084.607	275267.531	1874.210

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/10/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	SH012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3954838.191	216329.945	2075.981

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH013
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Turley

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4075247.747	252539.120	1781.586

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH014
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Upper Galestina Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3866332.537	164412.772	2163.748

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/14/2019
RMSE Hz	0.004
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico

SH014

2019-02-14
14:55:12-07:00

USGS NW New Mexico

SH014

2019-02-14
14:55:06-07:00



USGS NW New Mexico

SH014

2019-02-14
14:54:58-07:00

USGS NW New Mexico

SH014

2019-02-14
14:54:53-07:00



Point ID	SH015
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4017807.111	315957.006	2205.492

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH016
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3864000.551	112469.550	1918.391

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	SH017
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4077237.176	168392.790	1490.369

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH018
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Heart Rock

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3949368.670	220280.236	2109.550

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



SH018 USGS_NM 2019-03-15 21:14:23Z



SH018 USGS_NM 2019-03-15 21:14:36Z



SH018 USGS_NM 2019-03-15 21:14:47Z



SH018 USGS_NM 2019-03-15 21:15:02Z



Point ID	SH019
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Leandro Canyon

Aerial Target
LiDAR Ground Control
x LiDAR QC Point
New Control
Photo ID
Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4065806.157	305884.945	2090.410

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/09/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	SH020
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post NW

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4029572.318	235202.422	2019.856

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/04/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	FS

PHOTOS:

<p>DIRECTION 355 deg(T)</p> <p>36.37483°N 107.95171°W</p> <p>ACCURACY 10 m DATUM WGS84</p> <p>SH020</p> <p>2019-04-04 11:09:07-06:00</p>	<p>DIRECTION 271 deg(T)</p> <p>36.37483°N 107.95168°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH020</p> <p>2019-04-04 11:09:29-06:00</p>
<p>DIRECTION 185 deg(T)</p> <p>36.37487°N 107.95172°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH020</p> <p>2019-04-04 11:09:43-06:00</p>	<p>DIRECTION 96 deg(T)</p> <p>36.37487°N 107.95178°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH020</p> <p>2019-04-04 11:10:02-06:00</p>



Point ID	SH021
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Pinedale

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3936406.430	186531.325	2119.787

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	SH022
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sheep Springs

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4011576.750	166308.539	1752.246

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



Time: 03-30-2019 15:30
Note: SH022

Time: 03-30-2019 15:31
Note: SH022



Time: 03-30-2019 15:31
Note: SH022

Time: 03-30-2019 15:31
Note: SH022



Point ID	SH023
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Smouse Mesa

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4037316.777	273833.435	1976.700

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:

DIRECTION 272 deg(T)	36.45446°N 107.52369°W	ACCURACY 5 m DATUM WGS84	DIRECTION 177 deg(T)	36.45452°N 107.52374°W	ACCURACY 5 m DATUM WGS84
SH023	2019-04-11 16:28:29-06:00	SH023	2019-04-11 16:28:47-06:00	SH023	2019-04-11 16:29:01-06:00
DIRECTION 89 deg(T)	36.45447°N 107.52377°W	ACCURACY 5 m DATUM WGS84	DIRECTION 1 deg(T)	36.45443°N 107.52376°W	ACCURACY 5 m DATUM WGS84
SH023	2019-04-11 16:29:01-06:00	SH023	2019-04-11 16:29:15-06:00	SH023	2019-04-11 16:29:15-06:00



Point ID	SH024
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Mariano Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3939351.189	200850.614	2262.288

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.150m

Date (MM-DD-YYYY)	03/24/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:



Time: 03-24-2019 14:52
Note: SH024

Time: 03-24-2019 14:53
Note: SH024



Time: 03-24-2019 14:53
Note: SH024

Time: 03-24-2019 14:53
Note: SH024



Point ID	SH025
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4045511.915	153915.627	1800.262

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/07/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:

<p>DIRECTION 355 deg(T) 36.49239°N 108.86325°W ACCURACY 5 m DATUM WGS84</p> <p>SH025 2019-04-07 11:51:02-06:00</p>	<p>DIRECTION 271 deg(T) 36.49242°N 108.86321°W ACCURACY 5 m DATUM WGS84</p> <p>SH025 2019-04-07 11:51:15-06:00</p>
<p>DIRECTION 181 deg(T) 36.49247°N 108.86323°W ACCURACY 5 m DATUM WGS84</p> <p>SH025 2019-04-07 11:51:31-06:00</p>	<p>DIRECTION 91 deg(T) 36.49242°N 108.86329°W ACCURACY 5 m DATUM WGS84</p> <p>SH025 2019-04-07 11:51:44-06:00</p>



Point ID	SH026
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Teec Nos Pos

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4093221.223	136222.055	1605.023

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	SH027
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Gobernador

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4067964.624	298372.648	2080.897

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.008
RMSE Z	0.011
GPS Method	Fast Static

PHOTOS:



Note: SH027

Note: SH027



Note: SH027

Note: SH027



Point ID	SH028
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Ceadro Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3859775.799	112272.293	1823.027

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/03/2019
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	SH029
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3926209.851	197406.960	2184.907

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/25/2019
RMSE Hz	0.003
RMSE Z	0.004
GPS Method	RTK

PHOTOS:





Point ID	SH030
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Farmington South

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4059732.351	220073.284	1683.226

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH031
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4031379.784	249860.614	2028.042

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995 meters

Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.009
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	SH032
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Skinney Rock

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4088887.119	176023.497	1573.490

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.005
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	36.89032°N 108.63526°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	36.89039°N 108.63531°W	ACCURACY 5 m DATUM WGS84
SH032	SHRUB	2018-12-15 19:16:10Z	SH032	SHRUB	2018-12-15 19:16:36Z
DIRECTION 180 deg(T)	36.89045°N 108.63530°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	36.89041°N 108.63524°W	ACCURACY 5 m DATUM WGS84
SH032	SHRUB	2018-12-15 19:17:04Z	SH032	SHRUB	2018-12-15 19:17:19Z



Point ID	SH033
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3928731.798	195205.227	2157.340

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/12/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:





Point ID	SH034
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Goat Hill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3871797.699	195163.855	2219.288

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/15/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:

DIRECTION 356 deg(T)	34.94283°N 108.33765°W	ACCURACY 5 m DATUM WGS84	DIRECTION 89 deg(T)	34.94286°N 108.33769°W	ACCURACY 5 m DATUM WGS84
SH034	2019-04-15 12:53:29-06:00		SH034	2019-04-15 12:53:42-06:00	
DIRECTION 181 deg(T)	34.94291°N 108.33767°W	ACCURACY 5 m DATUM WGS84	DIRECTION 266 deg(T)	34.94288°N 108.33762°W	ACCURACY 5 m DATUM WGS84
SH034	2019-04-15 12:53:58-06:00		SH034	2019-04-15 12:54:28-06:00	



Point ID	SH035
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Antelope Lookout Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3962571.941	215224.605	2009.137

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/14/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



SH035 USGS_NM 2019-03-14 22:19:27Z



SH035 USGS_NM 2019-03-14 22:19:41Z



SH035 USGS_NM 2019-03-14 22:19:57Z



SH035 USGS_NM 2019-03-14 22:20:16Z



Point ID	SH036
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sanostee East

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

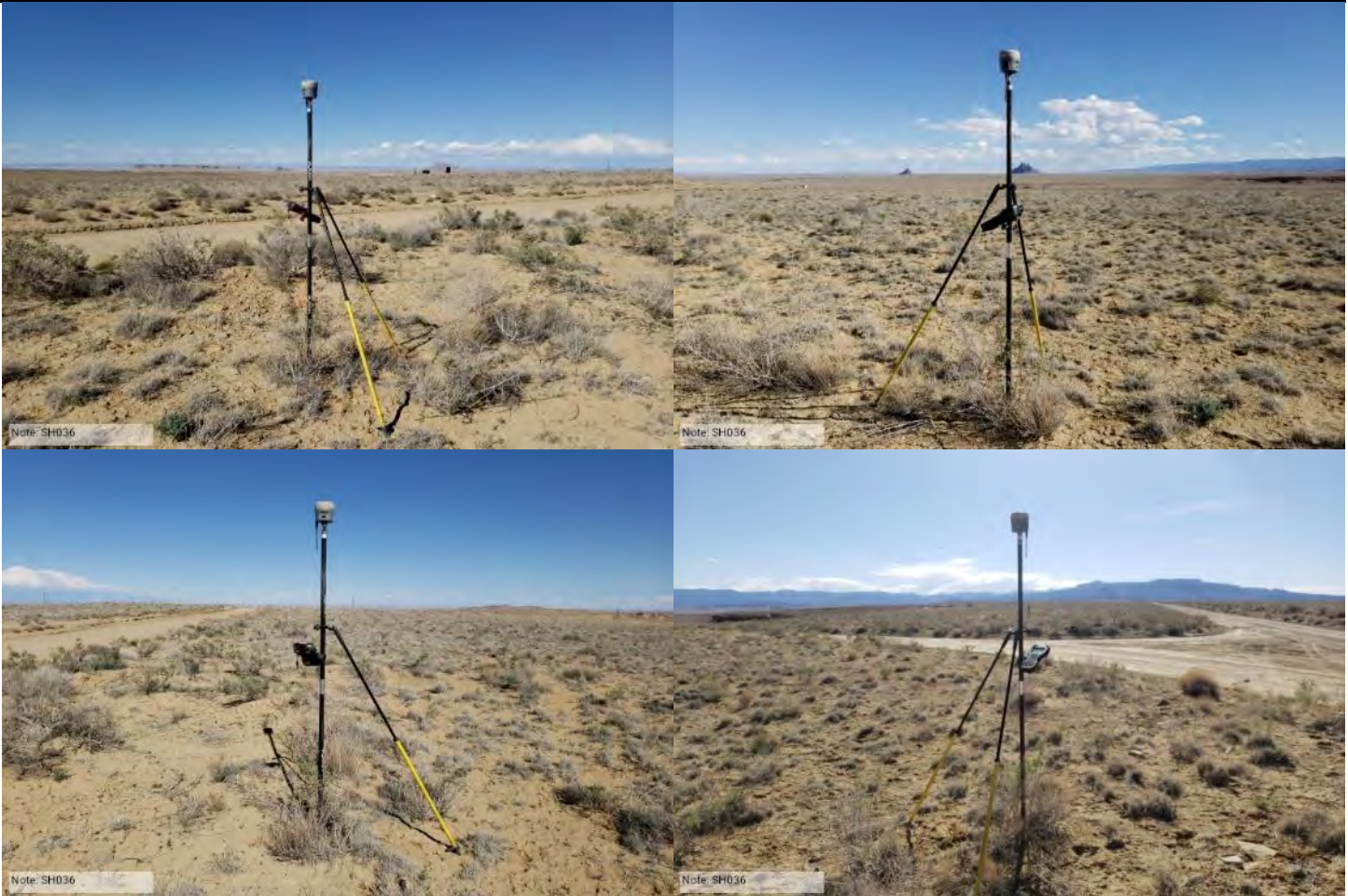
Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4044921.607	162233.627	1773.394

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





Point ID	SH037
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb SE

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4027789.314	176117.563	1642.993

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH038
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Jones Ranch School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3995358.586	135387.169	2224.701

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	SH039
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sonsela Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4042085.522	238100.566	2003.296

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/26/2019
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	RTK

PHOTOS:



Time: 03-26-2019 15:07
Note: SH039

Time: 03-26-2019 15:07
Note: SH039



Time: 03-26-2019 15:07
Note: SH039

Time: 03-26-2019 15:08
Note: SH039



Point ID	SH040
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post NW

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4042085.522	238100.566	2003.296

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	SH041
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Uranium Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3934110.031	118010.201	2176.265

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	SH042
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4018097.304	196963.077	1716.241

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	RTK

PHOTOS:



Time: 04-02-2019 17:26
Note: SH042

Time: 04-02-2019 17:26
Note: SH042



Time: 04-02-2019 17:26
Note: SH042

Time: 04-02-2019 17:26
Note: SH042



Point ID	SH043
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfano Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4020641.720	240409.729	2064.732

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/05/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	FS

PHOTOS:





Point ID	SH044
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4059713.694	153035.411	1679.384

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.006
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.61980°N 108.87946°W ACCURACY 5 m DATUM WGS84</p> <p>SH044 SHRUB 2018-12-17 21:59:57Z</p>	<p>DIRECTION 90 deg(T) 36.61985°N 108.87950°W ACCURACY 5 m DATUM WGS84</p> <p>SH044 SHRUB 2018-12-17 22:00:07Z</p>
<p>DIRECTION 180 deg(T) 36.61989°N 108.87944°W ACCURACY 5 m DATUM WGS84</p> <p>SH044 SHRUB 2018-12-17 22:00:22Z</p>	<p>DIRECTION 270 deg(T) 36.61985°N 108.87936°W ACCURACY 5 m DATUM WGS84</p> <p>SH044 SHRUB 2018-12-17 22:00:35Z</p>



Point ID	SH045
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Gallegos Trading Post

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4056166.031	226817.107	1851.414

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	SH046
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bixler Ranch

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4079275.703	307743.042	2168.102

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/10/2018
RMSE Hz	0.007
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:



Note: SH046

Note: SH046



Note: SH046

Note: SH046



Point ID	SH047
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fresno Canyon

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4046301.872	256452.146	1855.363

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2 meters

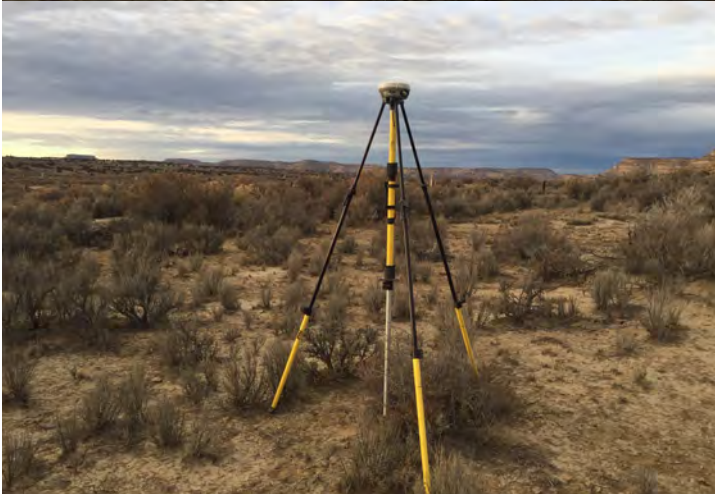
Date (MM-DD-YYYY)	11/27/2018
RMSE Hz	0.012
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



NWNM SH047 2018-11-27 16:20:34-07:00

NWNM SH047 2018-11-27 16:20:28-07:00



NWNM SH047 2018-11-27 16:20:23-07:00



NWNM SH047 2018-11-27 16:20:18-07:00



Point ID	SH048
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Sulphur Spring

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4069331.033	175399.508	1540.655

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH049
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Navajo Dam

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4074844.344	265792.699	1915.837

Operator	Emily Gottesfeld
Receiver Model	Trimble R8
Receiver S/N	R8_4744140649
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/22/2018
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	SH050
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Toadlena

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4018661.593	150925.797	1987.086

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/31/2019
RMSE Hz	0.012
RMSE Z	0.014
GPS Method	RTK

PHOTOS:



Time: 03-31-2019 11:50
Note: SH050

Time: 03-31-2019 11:51
Note: SH050



Time: 03-31-2019 11:51
Note: SH050

Time: 03-31-2019 11:51
Note: SH050



Point ID	SH051
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Mitten Rock

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4047404.903	150479.243	1849.13

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	SH052
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3933251.835	160488.980	2103.933

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/20/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.48482°N 108.74193°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.48485°N 108.74199°W	ACCURACY 5 m DATUM WGS84
SH052	SHRUB	2018-12-20 17:11:37Z	SH052	SHRUB	2018-12-20 17:11:52Z
DIRECTION 180 deg(T)	35.48492°N 108.74190°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.48485°N 108.74188°W	ACCURACY 5 m DATUM WGS84
SH052	SHRUB	2018-12-20 17:12:41Z	SH052	SHRUB	2018-12-20 17:13:12Z



Point ID	SH053
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kirtland SW

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4051909.909	189822.299	1722.866

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/12/2018
RMSE Hz	0.004
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	SH054
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Crownpoint

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3953910.238	208651.719	2095.842

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:



SH054 USGS_NM 2019-03-15 23:22:11Z



SH054 USGS_NM 2019-03-15 23:22:21Z



SH054 USGS_NM 2019-03-15 23:22:36Z



SH054 USGS_NM 2019-03-15 23:22:48Z



Point ID	SH055
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3882951.234	164174.138	2147.655

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	SH056
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Schnebly Well

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3850073.012	109694.726	1742.263

Operator	Gabe Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	1.995m

Date (MM-DD-YYYY)	12/27/2018
RMSE Hz	0.007
RMSE Z	0.007
GPS Method	RTK

PHOTOS:





Point ID	SH057
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Crow Mesa East

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4027135.553	269978.997	2149.816

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/11/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	FS

PHOTOS:





Point ID	SH058
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Mesita de Yeso

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3857501.820	163985.044	2093.081

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/19/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH059
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3901095.523	176091.364	2152.208

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.004
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH060
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4019983.068	316262.783	2216.616

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.008
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH061
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Naschitti

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4002698.557	172433.317	1731.452

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/29/2019
RMSE Hz	0.011
RMSE Z	0.017
GPS Method	RTK

PHOTOS:



Time: 03-29-2019 13:30
Note: SH061

Time: 03-29-2019 13:30
Note: SH061



Time: 03-29-2019 13:30
Note: SH061

Time: 03-29-2019 13:30
Note: SH061



Point ID	SH062
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Five Lakes Canyon NW

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4004388.740	302976.547	2167.915

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	SH063
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	West of La Vida Mission

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3994972.552	197343.554	1781.371

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.010
RMSE Z	0.012
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 14:23
Note: SH063

Time: 03-28-2019 14:23
Note: SH063



Time: 03-28-2019 14:23
Note: SH063

Time: 03-28-2019 14:23
Note: SH063



Point ID	SH064
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Star Lake

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3985526.107	277248.785	2084.132

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.008
RMSE Z	0.018
GPS Method	FS

PHOTOS:

<p>DIRECTION 358 deg(T)</p> <p>35.98873°N 107.47093°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH064</p> <p>2019-04-14 11:02:04-06:00</p>	<p>DIRECTION 91 deg(T)</p> <p>35.98876°N 107.47097°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH064</p> <p>2019-04-14 11:02:14-06:00</p>
<p>DIRECTION 181 deg(T)</p> <p>35.98878°N 107.47095°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH064</p> <p>2019-04-14 11:02:23-06:00</p>	<p>DIRECTION 270 deg(T)</p> <p>35.98875°N 107.47090°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH064</p> <p>2019-04-14 11:02:32-06:00</p>



Point ID	SH065
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lindrith

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
4025263.486	316379.392	2212.779

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.004
RMSE Z	0.005
GPS Method	RTK

PHOTOS:





Point ID	SH066
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Grey Hill Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3991092.907	182035.085	1736.530

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 15:05
Note: SH066

Time: 03-28-2019 15:05
Note: SH066



Time: 03-28-2019 15:05
Note: SH066

Time: 03-28-2019 15:06
Note: SH066



Point ID	SH067
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Billy Rice Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4018097.186	308281.788	2193.601

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/22/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	SH068
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Tsin-nas-kid

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4023927.184	161008.068	1764.467

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/01/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH069
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Seven Lakes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3964322.152	235093.027	1994.794

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/22/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.78729°N 107.93101°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.78734°N 107.93106°W	ACCURACY 5 m DATUM WGS84
SH069 SHRUB 2018-12-22 18:05:32Z		SH069 SHRUB 2018-12-22 18:05:48Z			
DIRECTION 160 deg(T)	35.78737°N 107.93103°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.78731°N 107.93094°W	ACCURACY 5 m DATUM WGS84
SH069 SHRUB 2018-12-22 18:06:04Z		SH069 SHRUB 2018-12-22 18:06:24Z			



Point ID	SH070
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Roof Butte

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

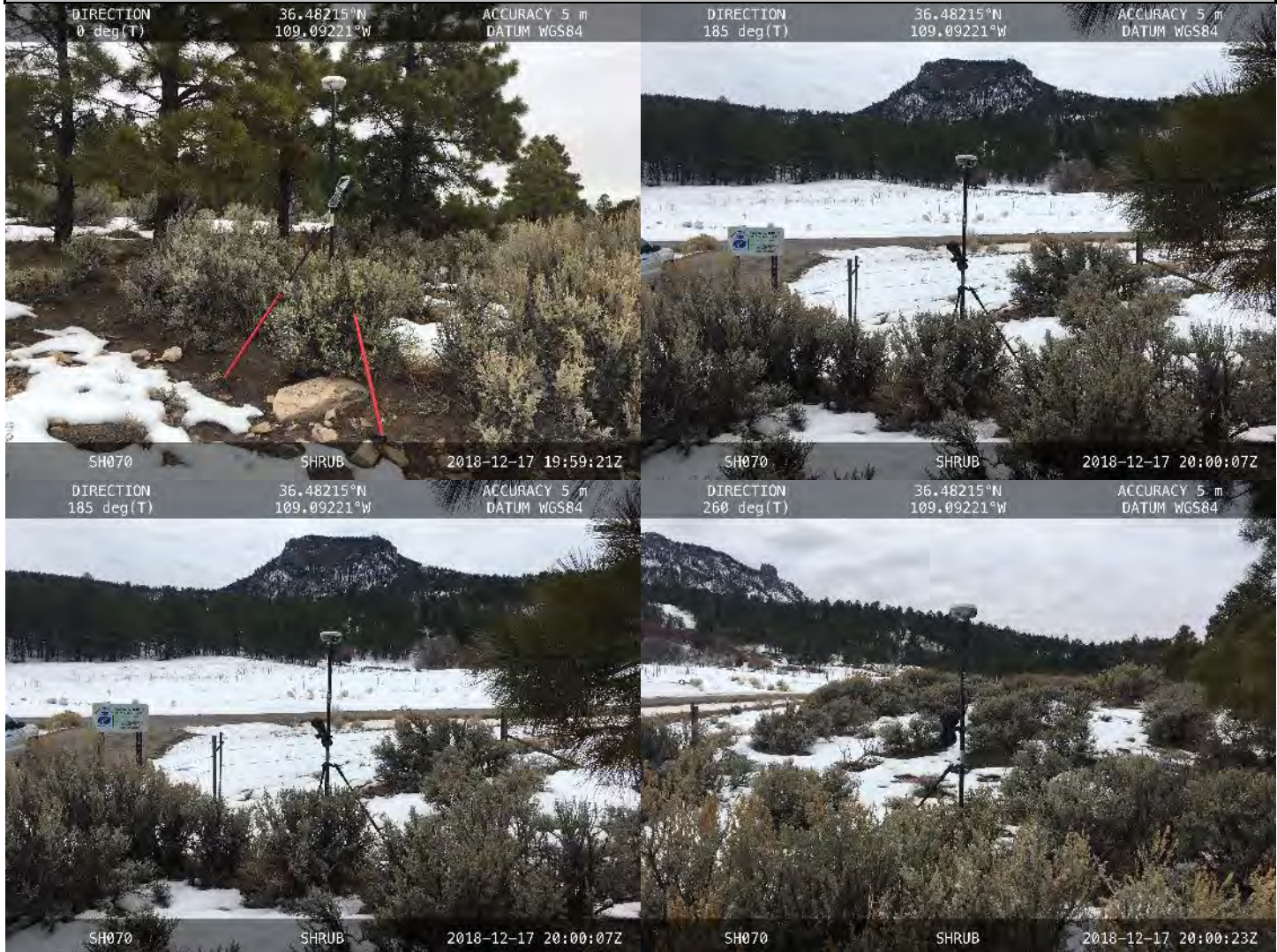
Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4045217.876	133343.908	2314.524

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	SH071
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Buell Park

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3978564.161	128289.040	2326.957

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	Fast Static

PHOTOS:





Point ID	SH072
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Newcomb NE

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4040706.323	185624.313	1641.044

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.014
RMSE Z	0.016
GPS Method	FS

PHOTOS:

<p>DIRECTION 89 deg(T) 36.46011°N 108.50802°W ACCURACY 5 m DATUM WGS84</p>  <p>SH072 2019-04-06 15:04:12-06:00</p>	<p>DIRECTION 1 deg(T) 36.46007°N 108.50799°W ACCURACY 5 m DATUM WGS84</p>  <p>SH072 2019-04-06 15:04:35-06:00</p>
<p>DIRECTION 267 deg(T) 36.46008°N 108.50793°W ACCURACY 5 m DATUM WGS84</p>  <p>SH072 2019-04-06 15:04:49-06:00</p>	<p>DIRECTION 181 deg(T) 36.46015°N 108.50798°W ACCURACY 5 m DATUM WGS84</p>  <p>SH072 2019-04-06 15:05:02-06:00</p>



Point ID	SH073
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Monero

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4085697.004	334592.219	2232.32

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.012
GPS Method	Fast Static

PHOTOS:





Point ID	SH074
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Gallup West

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3941501.073	158968.869	2019.035

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:

DIRECTION 0 deg(T)	35.55849°N 108.76215°W	ACCURACY 5 m DATUM WGS84	DIRECTION 90 deg(T)	35.55852°N 108.76220°W	ACCURACY 5 m DATUM WGS84
SH074	SHRUB	2018-12-19 18:12:52Z	SH074	SHRUB	2018-12-19 18:13:09Z
DIRECTION 180 deg(T)	35.55856°N 108.76215°W	ACCURACY 5 m DATUM WGS84	DIRECTION 270 deg(T)	35.55852°N 108.76209°W	ACCURACY 5 m DATUM WGS84
SH074	SHRUB	2018-12-19 18:13:20Z	SH074	SHRUB	2018-12-19 18:13:36Z



Point ID	SH075
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Togey Lake

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





Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3883762.242	181024.133	2147.702

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:

<p>DIRECTION 186 deg(T)</p> <p>35.04628°N 108.49681°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>SH075</p> <p>2019-04-16 13:58:49-06:00</p> <p>DIRECTION 271 deg(T)</p> <p>35.09503°N 108.44698°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>SH098</p> <p>2019-04-16 13:24:29-06:00</p>	<p>DIRECTION 91 deg(T)</p> <p>35.04625°N 108.49687°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>SH075</p> <p>2019-04-16 13:58:12-06:00</p> <p>DIRECTION 359 deg(T)</p> <p>35.04621°N 108.49681°W</p> <p>ACCURACY 5 m DATUM WGS84</p>  <p>SH075</p> <p>2019-04-16 13:58:25-06:00</p>
--	---



Point ID	SH076
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Fruitland

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4067521.087	191872.959	1625.708

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/06/2019
RMSE Hz	0.019
RMSE Z	0.019
GPS Method	FS

PHOTOS:

<p>DIRECTION 274 deg(T)</p> <p>36.70345°N 108.44906°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH076</p> <p>2019-04-06 11:12:50-06:00</p>	<p>DIRECTION 178 deg(T)</p> <p>36.70349°N 108.44907°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH076</p> <p>2019-04-06 11:13:01-06:00</p>
<p>DIRECTION 91 deg(T)</p> <p>36.70345°N 108.44913°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH076</p> <p>2019-04-06 11:13:16-06:00</p>	<p>DIRECTION 351 deg(T)</p> <p>36.70338°N 108.44908°W</p> <p>ACCURACY 5 m DATUM WGS84</p> <p>SH076</p> <p>2019-04-06 11:13:42-06:00</p>



Point ID	SH077
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4061618.789	136209.032	1749.28

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH078
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Window Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3954028.811	132947.098	2059.349

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH079
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3935943.762	140203.199	2003.673

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:



SH079 USGS_NM 2019-03-10 20:14:27Z



SH079 USGS_NM 2019-03-10 20:14:41Z



SH079 USGS_NM 2019-03-10 20:14:55Z



SH079 USGS_NM 2019-03-10 20:15:09Z



Point ID	SH080
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Manuelito

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3930515.620	141228.412	1917.22

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.006
RMSE Z	0.006
GPS Method	RTK

PHOTOS:





Point ID	SH081
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Kimbeto

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4014760.581	251057.074	2102.244

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.005
RMSE Z	0.006
GPS Method	FS

PHOTOS:

DIRECTION 1 deg(T)	36.24567°N 107.77040°W	ACCURACY 5 m DATUM WGS84	DIRECTION 92 deg(T)	36.24571°N 107.77046°W	ACCURACY 5 m DATUM WGS84
SH081	2019-04-12 15:17:25-06:00		SH081	2019-04-12 15:17:43-06:00	
DIRECTION 181 deg(T)	36.24574°N 107.77041°W	ACCURACY 5 m DATUM WGS84	DIRECTION 272 deg(T)	36.24570°N 107.77039°W	ACCURACY 5 m DATUM WGS84
SH081	2019-04-12 15:17:59-06:00		SH081	2019-04-12 15:18:17-06:00	



Point ID	SH082
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Valle Largo

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3880876.566	210511.188	2326.696

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.004
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 273 deg(T) 35.02909°N 108.17295°W ACCURACY 5 m DATUM WGS84</p> <p>SH082 2019-04-16 11:29:30-06:00</p>	<p>DIRECTION 180 deg(T) 35.02920°N 108.17306°W ACCURACY 5 m DATUM WGS84</p> <p>SH082 2019-04-16 11:28:51-06:00</p>
<p>DIRECTION 2 deg(T) 35.02908°N 108.17302°W ACCURACY 5 m DATUM WGS84</p> <p>SH082 2019-04-16 11:29:15-06:00</p>	<p>DIRECTION 100 deg(T) 35.02914°N 108.17308°W ACCURACY 5 m DATUM WGS84</p> <p>SH082 2019-04-16 11:29:01-06:00</p>



Point ID	SH083
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Puerco
Quad	Ceadro Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3864485.420	114093.202	1945.515

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.0m

Date (MM-DD-YYYY)	02/15/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:



USGS NW New Mexico SH083 2019-02-15 16:19:48-07:00



USGS NW New Mexico SH083 2019-02-15 16:19:42-07:00



USGS NW New Mexico SH083 2019-02-15 16:19:37-07:00



USGS NW New Mexico SH083 2019-02-15 16:19:31-07:00



Point ID	SH084
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Fence Lake
Quad	Mesita De Yeso

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3854220.554	164063.660	2151.425

Operator	Scott Slowinski
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	02/13/2019
RMSE Hz	0.002
RMSE Z	0.002
GPS Method	Fast Static

PHOTOS:





Point ID	SH085
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4041365.510	208352.382	1996.266

Operator	Zeke Ingram
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/06/2018
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH086
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4074304.172	137603.736	1864.868

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:

<p>DIRECTION 0 deg(T) 36.74528°N 109.05854°W ACCURACY 5 m DATUM WGS84</p> <p>SH086 SHRUB 2018-12-16 18:56:22Z</p>	<p>DIRECTION 90 deg(T) 36.74528°N 109.05854°W ACCURACY 5 m DATUM WGS84</p> <p>SH086 SHRUB 2018-12-16 18:56:40Z</p>
<p>DIRECTION 180 deg(T) 36.74528°N 109.05854°W ACCURACY 5 m DATUM WGS84</p> <p>SH086 SHRUB 2018-12-16 18:56:59Z</p>	<p>DIRECTION 270 deg(T) 36.74528°N 109.05854°W ACCURACY 5 m DATUM WGS84</p> <p>SH086 SHRUB 2018-12-16 18:57:17Z</p>



Point ID	SH087
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Bisti Trading Post

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4026885.325	208172.586	1871.101

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/13/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH088
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Hunter Wash

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4007480.248	205461.347	1753.456

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/02/2019
RMSE Hz	0.012
RMSE Z	0.016
GPS Method	RTK

PHOTOS:



Time: 04-02-2019 15:36
Note: SH088

Time: 04-02-2019 15:36
Note: SH088



Time: 04-02-2019 15:36
Note: SH088

Time: 04-02-2019 15:36
Note: SH088



Point ID	SH089
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Tancosa Windmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4013828.924	297296.533	2196.601

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/21/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	SH090
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

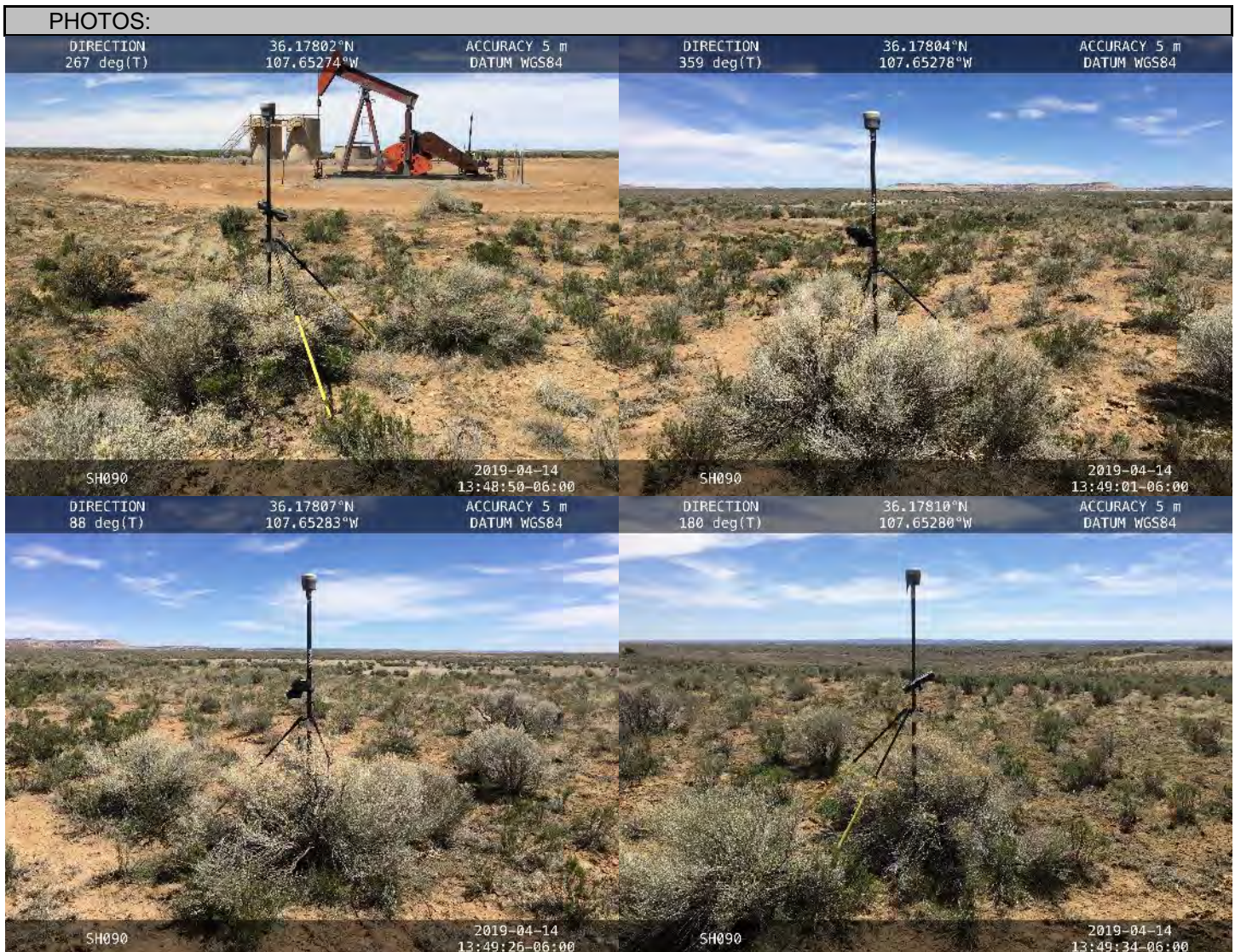
Aerial Target	
LiDAR Ground Control	
X LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4006958.365	261426.237	2110.174

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.010
RMSE Z	0.011
GPS Method	RTK





Point ID	SH091
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Shiprock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4086721.149	174869.647	1552.512

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/15/2018
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH092
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	John Mills Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4073315.371	311157.176	2180.150

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/11/2018
RMSE Hz	0.002
RMSE Z	0.003
GPS Method	Fast Static

PHOTOS:





Point ID	SH093
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Fourmile Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4063731.803	282206.922	1932.858

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/24/2018
RMSE Hz	0.009
RMSE Z	0.012
GPS Method	RTK

PHOTOS:





Point ID	SH094
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Cordova Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4081836.443	329381.250	2256.589

Operator	Lucas Rietmann
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/08/2018
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	Fast Static

PHOTOS:





Point ID	SH095
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	The Pillar NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4033278.788	188636.019	1697.374

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/09/2019
RMSE Hz	0.006
RMSE Z	0.009
GPS Method	FS

PHOTOS:

<p>DIRECTION 91 deg(T) 36.39428°N 108.47142°W ACCURACY 5 m DATUM WGS84</p> <p>SH095 2019-04-09 09:50:34-06:00</p>	<p>DIRECTION 0 deg(T) 36.39421°N 108.47146°W ACCURACY 5 m DATUM WGS84</p> <p>SH095 2019-04-09 09:50:55-06:00</p>
<p>DIRECTION 88 deg(T) 36.39423°N 108.47149°W ACCURACY 5 m DATUM WGS84</p> <p>SH095 2019-04-09 09:51:10-06:00</p>	<p>DIRECTION 182 deg(T) 36.39429°N 108.47143°W ACCURACY 5 m DATUM WGS84</p> <p>SH095 2019-04-09 09:51:31-06:00</p>



Point ID	SH096
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Table Mesa

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4056628.634	168934.773	1645.887

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/08/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:





Point ID	SH097
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Church Rock

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3937848.550	173236.995	2028.507

Operator	Casey Broderick
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/19/2018
RMSE Hz	0.005
RMSE Z	0.008
GPS Method	Fast Static

PHOTOS:





Point ID	SH098
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Togey Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3889018.286	185756.568	2159.043

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/16/2019
RMSE Hz	0.005
RMSE Z	0.007
GPS Method	FS

PHOTOS:

<p>DIRECTION 178 deg(T) 35.09507°N 108.44701°W ACCURACY 5 m DATUM WGS84</p> <p>SH098 2019-04-16 13:24:40-06:00</p>	<p>DIRECTION 269 deg(T) 35.04623°N 108.49675°W ACCURACY 5 m DATUM WGS84</p> <p>SH075 2019-04-16 13:58:39-06:00</p>
<p>DIRECTION 90 deg(T) 35.09505°N 108.44704°W ACCURACY 5 m DATUM WGS84</p> <p>SH098 2019-04-16 13:24:50-06:00</p>	<p>DIRECTION 1 deg(T) 35.09498°N 108.44701°W ACCURACY 5 m DATUM WGS84</p> <p>SH098 2019-04-16 13:25:11-06:00</p>



Point ID	SH099
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3893600.505	158641.431	2128.068

Operator	Marc Nabelek
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	2.15m

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.007
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH100
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Barth Well

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
METERS

Northing	Easting	Elevation
3879445.241	124224.500	2006.924

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/20/2019
RMSE Hz	0.006
RMSE Z	0.008
GPS Method	RTK

PHOTOS:





Point ID	SH101
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Sandoval
Quad	Lybrook NW

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3998631.628	275391.523	2133.012

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/14/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	RTK

PHOTOS:

DIRECTION 4 deg(T)	36.10634°N 107.49525°W	ACCURACY 5 m DATUM WGS84	DIRECTION 91 deg(T)	36.10636°N 107.49530°W	ACCURACY 5 m DATUM WGS84
SH101	2019-04-14 15:30:58-06:00	SH101	2019-04-14 15:31:08-06:00		
DIRECTION 175 deg(T)	36.10642°N 107.49527°W	ACCURACY 5 m DATUM WGS84	DIRECTION 266 deg(T)	36.10641°N 107.49522°W	ACCURACY 5 m DATUM WGS84
SH101	2019-04-14 15:31:20-06:00	SH101	2019-04-14 15:31:38-06:00		



Point ID	SH102
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Burnt Mesa

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4087138.448	269442.131	1999.230

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	RTK

PHOTOS:





Point ID	SH103
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Huerfanito Peak

Aerial Target	
LiDAR Ground Control	
x LiDAR QC Point	
New Control	
Photo ID	
Published Control	

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
4046002.432	244842.798	2006.013

Operator	Scott Slowinski
Receiver Model	Trimble R6
Receiver S/N	R6_5049457238
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	11/26/2018
RMSE Hz	0.009
RMSE Z	0.011
GPS Method	RTK

PHOTOS:





Point ID	SH104
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Naschitti

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3992177.436	169775.839	1819.608

Operator	Gabe Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	03/28/2019
RMSE Hz	0.008
RMSE Z	0.008
GPS Method	RTK

PHOTOS:



Time: 03-28-2019 15:29
Note: SH104

Time: 03-28-2019 15:30
Note: SH104



Time: 03-28-2019 15:30
Note: SH104

Time: 03-28-2019 15:30
Note: SH104



Point ID	SH105
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Skinney Rock

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
4092435.559	168328.704	1577.167

Operator	Zeke Ingram
Receiver Model	Trimble R8
Receiver S/N	R8_4838158595
Antenna Height	2.0 meters

Date (MM-DD-YYYY)	12/07/2018
RMSE Hz	0.006
RMSE Z	0.007
GPS Method	Fast Static

PHOTOS:





Point ID	SH106
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Narbona Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3991471.766	159443.845	2347.357

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.008
RMSE Z	0.010
GPS Method	RTK

PHOTOS:





Point ID	SH107
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Chuska Peak

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

Coordinate System	NAD83(2011)
	UTM 13
	NAVD88
	GEOID12B
	METERS

Northing	Easting	Elevation
3985336.379	160838.200	2415.412

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	
RMSE Z	
GPS Method	RTK

PHOTOS:





Point ID	SH108
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Coyote Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
METERS	

Northing	Easting	Elevation
3982798.992	162827.480	2325.786

Operator	Lucas Rietmann
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.005
RMSE Z	0.010
GPS Method	Fast Static

PHOTOS:





FOREST POINT LOG SHEETS



Point ID	FR001
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Roof Butte

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

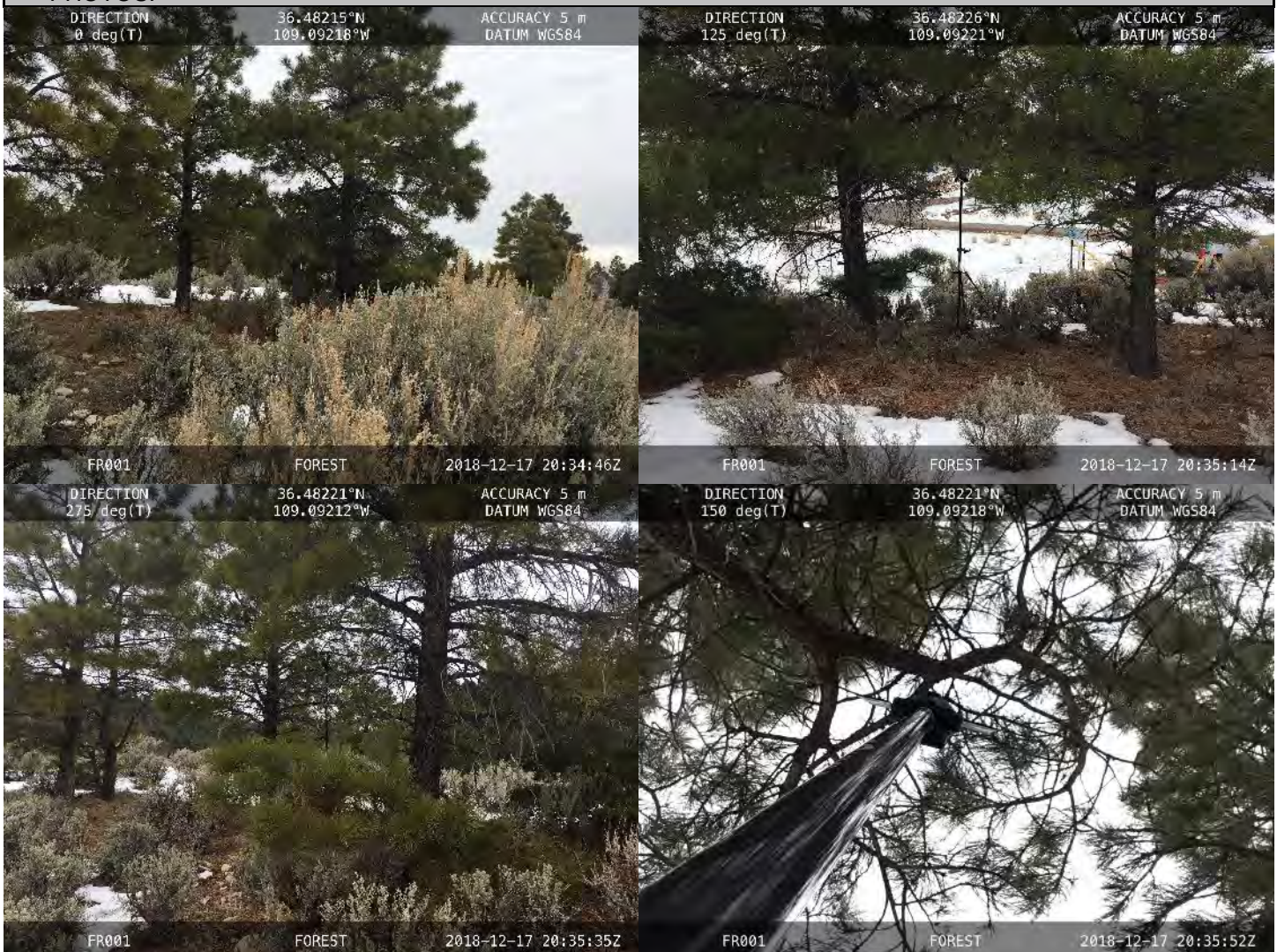
Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4045225.835	133346.540	2314.573

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	12/17/2018
RMSE Hz	0.012
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:





Point ID	FR002
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sonsela Buttes

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3993902.866	132614.412	2232.176

Operator	Gabe Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/27/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:



Time: 03-27-2019 16:55
Note: FR002



Time: 03-27-2019 16:55
Note: FR002



Time: 03-27-2019 16:55
Note: FR002



Time: 03-27-2019 16:55
Note: FR002



Point ID	FR003
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3926831.812	127134.597	2032.111

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/11/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR004
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Uranium Spring

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3934181.833	117954.398	2178.837

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/20/2019
RMSE Hz	0.015
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:



FR004 USGS_NM 2019-03-20 16:38:53Z



FR004 USGS_NM 2019-03-20 16:39:04Z



FR004 USGS_NM 2019-03-20 16:39:20Z



FR004 USGS_NM 2019-03-20 16:39:36Z



Point ID	FR005
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Borrego Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3941230.644	230123.633	2321.123

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.011
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR006
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Narbona Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3991543.766	159459.508	2345.515

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.013
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:







Point ID	FR007
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Surrender Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3934306.415	129009.398	2039.834

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR008
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Chi Chil Tah

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3907170.574	144542.654	2087.808

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.009
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:



FR008 USGS_NM 2019-03-16 20:59:36Z



FR008 USGS_NM 2019-03-16 20:59:58Z



FR008 USGS_NM 2019-03-16 21:00:23Z



FR008 USGS_NM 2019-03-16 21:00:47Z



Point ID	FR009
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Continental Divide

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3929301.173	202161.762	2315.731

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/12/2019
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:





Point ID	FR010
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Fort Defiance

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3967742.170	130868.913	2272.547

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.015
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:



FR010 USGS_NM 2019-03-19 18:59:52Z



FR010 USGS_NM 2019-03-19 19:00:06Z



FR010 USGS_NM 2019-03-19 19:00:29Z



FR010 USGS_NM 2019-03-19 19:00:48Z



Point ID	FR011
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Bancos Mesa NW

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4090000.405	287379.387	1969.627

Operator	Scott Slowinski
Receiver Model	Nikon
Receiver S/N	NPL – 322+
Antenna Height	1.65 meters

Date (MM-DD-YYYY)	11/25/2018
RMSE Hz	0.016
RMSE Z	0.015
GPS Method	Total Station

PHOTOS:





Point ID	FR012
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Narbona Pass

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3991541.371	159467.503	2345.086

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.013
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:







Point ID	FR013
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3901147.022	176052.384	2148.999

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.010
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:



FR013 USGS_NM 2019-03-17 19:57:41Z



FR013 USGS_NM 2019-03-17 19:58:14Z



FR013 USGS_NM 2019-03-17 19:58:34Z



FR013 USGS_NM 2019-03-17 19:59:22Z



Point ID	FR014
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Jones Ranch School

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3913562.078	137281.590	2139.268

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR015
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Pine Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3927338.084	111189.188	2143.660

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/16/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR016
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Washington Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4001250.611	154576.848	2418.187

Operator	Gabe Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/30/2019
RMSE Hz	0.013
RMSE Z	0.019
GPS Method	Total Station

PHOTOS:



Time: 03-30-2019 14:20
Note: FR016

Time: 03-30-2019 14:20
Note: FR016



Time: 03-30-2019 14:21
Note: FR016

Time: 03-30-2019 14:21
Note: FR016



Point ID	FR017
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Todilto Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3981619.508	148710.476	2413.686

Operator	Gabe Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/25/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Total Station

PHOTOS:



Time: 03-25-2019 11:50
Note: FR017

Time: 03-25-2019 11:50
Note: FR017



Time: 03-25-2019 11:50
Note: FR017

Time: 03-25-2019 11:51
Note: FR017



Point ID	FR018
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Chuska Peak

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3985376.283	160826.005	2415.251

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Total Station

PHOTOS:







Point ID	FR019
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Valle Largo

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3880884.377	210648.580	2329.951

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.017
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:



Note: FR019



Note: FR019



Note: FR019



Note: FR019



Point ID	FR020
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Chuska Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3985376.458	160838.699	2415.250

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Total Station

PHOTOS:







Point ID	FR021
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Chuska Peak

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3985391.031	160856.263	2415.733

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.013
RMSE Z	0.016
GPS Method	Total Station

PHOTOS:







Point ID	FR022
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Coyote Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3982820.181	162860.522	2324.635

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:







Point ID	FR023
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Lybrook

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4012315.042	273430.927	2133.465

Operator	Jon Frech
Receiver Model	Trimble R10
Receiver S/N	R10_9602
Antenna Height	1.995m

Date (MM-DD-YYYY)	04/12/2019
RMSE Hz	0.013
RMSE Z	0.013
GPS Method	RTK

PHOTOS:





Point ID	FR024
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Bread Springs

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3931016.25	169108.432	2140.260

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR025
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Burned Timber Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3900387.040	170344.986	2109.810

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/17/2019
RMSE Hz	0.023
RMSE Z	0.023
GPS Method	Total Station

PHOTOS:





Point ID	FR026
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Coyote Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3982809.197	162859.135	2324.936

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:







Point ID	FR027
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Horsehead Canyon

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3883026.508	164188.623	2146.902

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/18/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR028
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Mckinley
Quad	Coyote Canyon

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
3982800.171	162863.782	2325.080

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/26/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:







Point ID	FR029
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Samson Lake

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3935931.845	140187.868	2003.396

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/10/2019
RMSE Hz	0.014
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR030
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	McKinley
Quad	Dalton Pass

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3948781.951	202033.498	2256.873

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/15/2019
RMSE Hz	0.009
RMSE Z	0.009
GPS Method	Total Station

PHOTOS:



FR030 USGS_NM 2019-03-15 22:11:59Z



FR030 USGS_NM 2019-03-15 22:12:18Z



FR030 USGS_NM 2019-03-15 22:12:49Z



FR030 USGS_NM 2019-03-15 22:13:16Z



Point ID	FR032
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Sawmill

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3980125.002	122749.344	2383.687

Operator	Marc Nabelek
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	03/19/2019
RMSE Hz	0.015
RMSE Z	0.011
GPS Method	Total Station

PHOTOS:





Point ID	FR033
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	San Juan
Quad	Anastacio Springs

	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4096100.581	264760.562	2179.594

Operator	Scott Slowinski
Receiver Model	Nikon
Receiver S/N	NPL – 322+
Antenna Height	1.65 meters

Date (MM-DD-YYYY)	11/23/2018
RMSE Hz	0.014
RMSE Z	0.014
GPS Method	Total Station

PHOTOS:





Point ID	FR034
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Cibola
Quad	Valle Largo

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

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
3880851.095	210622.831	2328.887

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/18/2019
RMSE Hz	0.017
RMSE Z	0.013
GPS Method	Total Station

PHOTOS:



Note: FR034

Note: FR034



Note: FR034

Note: FR034



Point ID	FR035
Project No.	R034271
Project Name	NW New Mexico
State	Arizona
County	Apache
Quad	Horse Mesa

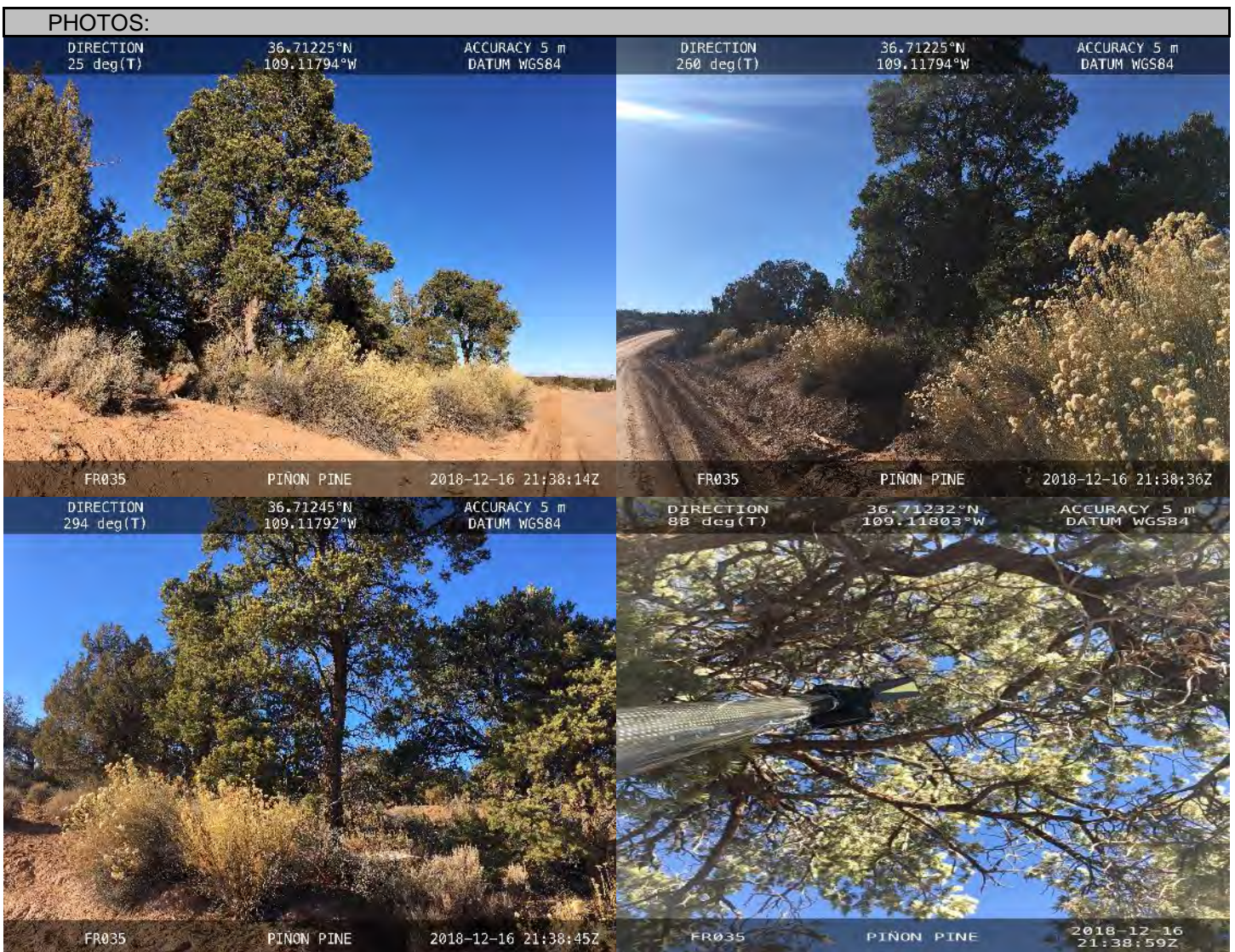
	Aerial Target
	LiDAR Ground Control
x	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System	
NAD83(2011)	
UTM 13	
NAVD88	
GEOID12B	
Meters	

Northing	Easting	Elevation
4070869.557	132127.511	1914.376

Operator	Casey Broderick
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	12/16/2018
RMSE Hz	0.012
RMSE Z	0.012
GPS Method	Total Station





Point ID	FR0037
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4034956.861	319050.044	2378.437

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.014
RMSE Z	0.012
GPS Method	Total Station

PHOTOS:





Point ID	FR038
Project No.	R034271
Project Name	NW New Mexico
State	New Mexico
County	Rio Arriba
Quad	Ojito

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

Coordinate System
NAD83(2011)
UTM 13
NAVD88
GEOID12B
Meters

Northing	Easting	Elevation
4034966.328	319055.199	2379.117

Operator	Lucas Rietmann
Receiver Model	Trimble M3
Receiver S/N	C601469
Antenna Height	N/A

Date (MM-DD-YYYY)	04/23/2019
RMSE Hz	0.014
RMSE Z	0.012
GPS Method	Total Station

PHOTOS:

