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Transmittal

If enclosures are not received as noted below,
please call sender or Woolpert at 937.461.5660

Date: October 31, 2016

Re: Task Name: Mesa County CO QL2 Lidar
Task Order Number: G15PD00937
Delivery Lot 4: Final Data Deliverables

To: USGS/NGTOC
Kathryn Yoder
Denver Federal Center
Building 810 Entrance E-11,MS 510
Denver, CO 80225-0046
303.202.4419

Order Number: 75927.03

Shipped Via: FedEx Overnight

We are sending you

☐ Shop Drawings   ☐ Samples   ☐ Specifications   ☐ Plans   ☐ Change Order
☒ Other ____1 4TB Hard Drive____

Copies	Date	No.	Description
1	31-OCT-16	3283	Classified Point Cloud in LAS1.4 format in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	560	Raw Unclassified Swath Point Cloud in LAS1.4 format in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	3283	Hydrologically-flattened Bare Earth Surface (Raster DEM) in .img format at 4 ft cell size in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Hydrologically-flattened Mosaic of Bare Earth Surface (Raster DEM) in .img format at 4 ft cell size in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	3283	8-Bit gray-scale intensity GeoTIFF images at 4ft cell size in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Tile index shape file in Esri .shp format in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Data Extent shape file in Esri .shp format in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	PolygonZ file for water bodies two acres and greater in area used for hydrologic-flattening in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	PolylineZ file for rivers 30 m (100 ft) and greater used for hydrologic-flattening in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Bridge Breakline shape file used in DEM generation in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet

1	31-OCT-16	3	Control point shape files in Esri .shp format for lidar check points and QC points in NAD83(HARN) UTM12, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	662	Classified Point Cloud in LAS1.4 format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	662	Hydrologically-flattened Bare Earth Surface (Raster DEM) in .img format at 4ft cell size in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Hydrologically-flattened Mosaic of Bare Earth Surface (Raster DEM) in .img format at 4 ft cell size in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
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1	31-OCT-16	1	Data Extent shape file in Esri .shp format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	PolygonZ file for water bodies two acres and greater in area used for hydrologic-flattening in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	3	Control point shape files in Esri .shp format for lidar check points and QC points in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	Bridge Breakline shape file used in DEM generation in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	15	QL1 Classified Point Cloud in LAS1.4 format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	17	QL1 Raw Unclassified Swath Point Cloud in LAS1.4 format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	15	QL1 Hydrologically-flattened Bare Earth Surface (Raster DEM) in .img format at 2ft cell size in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	QL1 Hydrologically-flattened Mosaic of Bare Earth Surface (Raster DEM) in .img format at 2 ft cell size in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	15	QL1 8-Bit gray-scale intensity GeoTIFF images at 2ft cell size in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	QL1 Tile index shape file in Esri .shp format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	QL1 Data Extent shape file in Esri .shp format in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	1	QL1 PolygonZ file for water bodies two acres and greater in area used for hydrologic-flattening in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	3	Control point shape files in Esri .shp format for lidar check points and QC points in NAD83(HARN) UTM13, NAVD88 GEOID 12B, US Feet
1	31-OCT-16	54	Task level FGDC compliant metadata (per product/per UTM delivery/per Quality Level) in .xml format
1	31-OCT-16	1	Lidar Processing Report in .PDF Format
1	31-OCT-16	1	Survey Report in .PDF Format

NOTES- 2 ft interval contours based on township boundaries and associated metadata will be generated and delivered upon final acceptance of DEM product

There is a known expectation that the LAS1.4 header information will be non-compliant due to the lack of an appropriate EPSG code for NAD83 (HARN) UTM Survey Feet. This was concluded on the 10/18/16 call with NGTOC (Kim Mantey, Kathryn Yoder, Patrick Emmett, and Tim Saultz) and Woolpert.

Signature:

Mike Meiser
937.531.1582