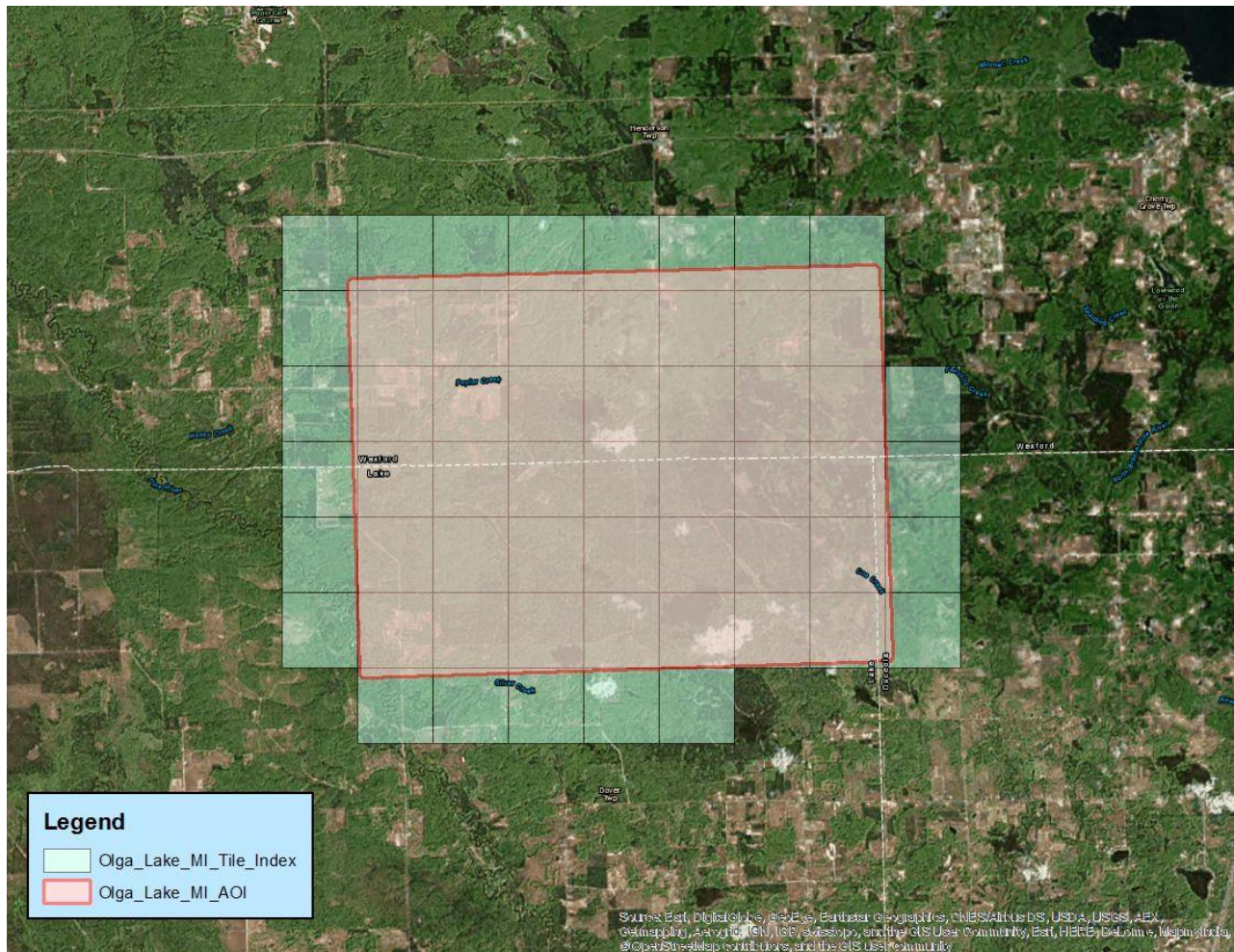# Delivery Lot Summary Report: Delivery Lot 5
**August 30, 2016**

**USGS Contract: G16PC00016**
**USGS Task Order: G16PD00340**
**Task Order Name: MI_Olga_Lake_LiDAR_2016_D16**
**Contractor: Quantum Spatial**

The following is a summary description of the deliverables and other pertinent information that comprise the shipment of Delivery Lot 5 to USGS on August 30, 2016.

**Olga Lake, MI LiDAR Delivery Lot 5 Map:**



**Task Order Spatial Reference System:**
- Horizontal: UTM Zone 16N, NAD83 (2011), Meters
- Vertical: NAVD88, GEOID12B, Meters

**Deliverables Summary:**

1. C.1.d.(i) Raw Point Cloud Data: Included
   - LAS v1.4, Point Record Format 6 including File Source ID
   - Classification Schema:
     - (00) Code 0 – Created, never classified

   - Total Number of Files: 25
   - Total File Size: 51.7 GB

2. C.1.d.(ii) Classified Point Cloud: Included
   - LAS v1.4, Point Record Format 6 including File Source ID w/assigned value of 0
   - Classification Schema:
     - (01) Code 1 – Processed, but unclassified
     - (02) Code 2 – Bare-earth ground
     - (03) Code 3 – Low Vegetation
     - (04) Code 4 – Medium Vegetation
     - (05) Code 5 – High Vegetation
     - (06) Code 6 - Building
     - (07) Code 7 – Noise
     - (08) Code 9 – Water
     - (09) Code 10 – Ignored Ground (Breakline Proximity)
     - (10) Code 17 – Bridge Decks
     - (11) Code 18 – High Noise

   - Total Number of Tiles: 57
   - Tile Dimensions: 1,500m x 1,500m
   - Total File Size: 50.0 GB
   - Delivery Lot 5 Tile Shape Files (Lot 5 Individual Tiles)

3. C.1.d.(iii) Bare Earth Point Cloud: Included
   - LAS v1.4, Point Record Format 6 including File Source ID w/assigned value of 0
   - Classification Schema:
     - (01) Code 2 – Bare-earth ground

   - Total Number of Tiles: 57
   - Tile Dimensions: 1,500m x 1,500m (same used for Classified Point Cloud)
   - Total File Size: 6.10 GB
   - Delivery Lot 5 Tile Shape Files (Lot 5 Individual Tiles)

4. C.1.d.(iv) Bare Earth Surface (Raster DEM): Included
   - Format: ERDAS .IMG
   - Resolution: 0.75 meter grid cell size
   - Hydro Conditioning: Hydro Flattened
   - Total Number of Tiles: 57
   - Tile Dimensions: 1,500m x 1,500m (same used for Classified Point Cloud)

- Total File Size: 957 MB

5. C.1.d.(vii) Intensity Image
   - Format: GeoTIFF, with world files
   - Resolution: 0.75 meter grid cell size
   - Scale: 8 bit, 256 color gray scale
   - Total Number of Tiles: 57
   - Tile Dimensions: 1,500m x 1,500m (same used for Classified Point Cloud)
   - Total File Size: 313 MB

6. C.1.d.(v) Breaklines: Included
   - Format: ESRI Geodatabase Format
   - Coverage: Lot 5 Continuous, Non-Tiled
   - Total File Size: 176 KB

7. C.1.d.(ix) Metadata: Included
   - Format: FGDC compliant, XML
   - File Types: Project, Deliverable product group (Classified .las, DEM, Breaklines & Intensity Images)

8. C.1.d.(x) Project Report:
   - Delivery Lot Summary Report: Lot 5 Included
   - Overall Project Report: Lot 5 Included

9. Lot 6 QA & Accuracy Reporting
   - NVA QC Checkpoints FVA Testing Results (Excel File): Included
   - LAS Analysis (Excel File): Included
   - LAS Stats (Excel File): Included
   - DEM Stats (Excel File): Included

**Delivery Lot Notes/Comments:**

Delivery Lot 5 consists of the all required LiDAR deliverables.