

**Project Definition:** The entire collection for a contracted area.

**Work Unit Definition:** A production block of data defined by the National Geospatial Technical Operations Center due to expediency, priority or resource allocation. There can be one or many work units per project.

### Project Information

<b>Lidar Base Specification:</b> 2021 Revision A	<b>Primary Contractor:</b> Merrick-Surdex Joint Venture (MSJV)
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	
<b>Collection Start Date:</b> 03-21-2022	<b>Collection End Date:</b> 06-28-2022
<b>The National Map Email:</b> tnm_help@usgs.gov	

### Vertical Accuracy Results

The U.S. Geological Survey evaluates absolute vertical accuracy of the lidar and lidar-derived bare earth DEM data at the project level

Lidar Point Cloud	Required NVA RMSEz (cm)	Tested NVA RMSEz (cm)	Required NVA at 95% confidence level (cm)	Tested NVA at 95% confidence level (cm)	Required VVA at 95th percentile (cm)	Tested VVA at 95th percentile (cm)
	10.0	<b>4.80</b>	19.6	<b>9.41</b>	N/A	<b>18.43</b>

Digital Elevation Model	Required NVA RMSEz (cm)	Tested NVA RMSEz (cm)	Required NVA at 95% confidence level (cm)	Tested NVA at 95% confidence level (cm)	Required VVA at 95th percentile (cm)	Tested VVA at 95th percentile (cm)
	10.0	<b>4.92</b>	19.6	<b>9.63</b>	30.0	<b>19.26</b>

Please see the vertical\_accuracy folder within the project metadata for more information.

### Classifications Used

Classification verification is limited to the minimum required by applicable Lidar Base Specification. Classifications beyond the minimum are not verified by USGS.	
Classification ID	Classification Type
1	Unclassified
2	Ground
3	Low Vegetation
4	Medium Vegetation
5	High Vegetation
6	Building
7	Low Noise
9	Water
17	Bridge Deck
18	High Noise
20	Ignored Ground

## Sensor(s) Used

Sensor
Optech Galaxy T2000 - Aerial Oscillating Mirror
Optech Galaxy ALTM - Aerial Oscillating Mirror

## Work Unit Information

<a href="#">IL_MidNorth_4_D22</a>	<b>Work Unit ID:</b> 300137	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6455	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-03-21	<b>Collection End Date:</b> 2022-04-10	

<a href="#">IL_MidNorth_1_D22</a>	<b>Work Unit ID:</b> 229055	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6457	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-03	<b>Collection End Date:</b> 2022-05-08	

<a href="#">IL_MidNorth_3_D22</a>	<b>Work Unit ID:</b> 300136	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6455	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-05-07	<b>Collection End Date:</b> 2022-06-28	

<a href="#">IL_MidNorth_2_D22</a>	<b>Work Unit ID:</b> 300135	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6457	<b>Vertical EPSG Code:</b> 6360	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 2.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2022-04-10	<b>Collection End Date:</b> 2022-06-28	