

**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> 2020 Revision A	<b>Primary Contractor:</b> The Sanborn Map Company, Inc. (Sanborn)
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	
<b>Collection Start Date:</b> 09-14-2011	<b>Collection End Date:</b> 12-16-2021
<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>5.48</b>	19.6	<b>10.74</b>	N/A	<b>13.00</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>5.56</b>	19.6	<b>10.91</b>	30.0	<b>14.40</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
7	Low Noise
9	Water
17	Bridge Deck
18	High Noise
20	Ignored Ground
22	temporal exclusion

## Sensor(s) Used

**Sensor**

Riegl VQ-1560ii - Rotating Polygonal Mirror

## Work Unit Information

<a href="#">MO_NSEMO_2_2021</a>	<b>Work Unit ID:</b> 300072	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6344	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2021-11-28	<b>Collection End Date:</b> 2021-12-16	

<a href="#">MO_NSEMO_1_2021</a>	<b>Work Unit ID:</b> 220532	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6344	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID18
<b>DEM Ground Sample Distance:</b> 1.0	<b>Hydro Treatment:</b> hydro-flattened	
<b>Collection Start Date:</b> 2011-09-14	<b>Collection End Date:</b> None	