

**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> Fugro Geospatial, Inc. (Fugro)
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> N/A	
<b>Collection Start Date:</b> 12-04-2021	<b>Collection End Date:</b> 12-21-2021
<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>2.94</b>	19.6	<b>5.77</b>	N/A	<b>12.87</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>3.11</b>	19.6	<b>6.10</b>	30.0	<b>15.10</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

## Sensor(s) Used

Sensor
Leica ALS80 - Aerial Oscillating Mirror



## Work Unit Information

<a href="#">MD_Western_1_D21</a>	<b>Work Unit ID:</b> 223523	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6346	<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> 2021-12-04	<b>Collection End Date:</b> 2021-12-21	

<a href="#">MD_Western_2_D21</a>	<b>Work Unit ID:</b> 300150	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6347	<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> 2021-12-14	<b>Collection End Date:</b> 2021-12-21	