

**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

Project ID: 186387

<b>Lidar Base Specification:</b> 2.1	<b>Primary Contractor:</b> Quantum Spatial, Inc
<b>Las Version:</b> 1.4	<b>Contract Mechanism:</b> GPSC
<b>P Method:</b> 7 - Linear-Mode Lidar	<b>Hydro Treatment:</b> hydro-flattened
<b>Collection Start Date:</b> 11-18-2019	<b>Collection End Date:</b> 05-02-2020
<b>The National Map Email:</b> tnm_help@usgs.gov	

## Vertical Accuracy Results

<a href="#">The U.S. Geological Survey evaluates absolute vertical accuracy of the lidar and lidar-derived bare earth DEM data at the project level</a>	Lidar Point Cloud		Digital Elevation Model	
	Required Value (cm)	Tested Value (cm)	Required Value (cm)	Tested Value (cm)
<b>Non-Vegetated Vertical Accuracy</b> 95-percent confidence level	19.6	7.15	19.6	7.52
<b>Vegetated Vertical Accuracy</b> 95th Percentile	N/A	14.66	30.0	16.84

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	Processed, But Unclassified
2	Bare Earth
7	Low Noise
9	Water
10	Ignored Ground

## Sensor(s) Used

Sensor
Riegl VQ-780i - Aerial Rotating Prism
Optech Galaxy Prime - Aerial Oscillating Mirror
Riegl VQ-1560i - Aerial Oscillating Mirror
Optech Galaxy Prime - Aerial Oscillating Mirror
Riegl VQ-1560i - Aerial Oscillating Mirror

17	Bridge Decks
18	High Noise
20	Ignored Ground

## Work Unit Information

<a href="#">PA_WesternPA_1_2019</a>	<b>Work Unit ID:</b> 186384	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6346	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID 12B
<b>DEM Ground Sample Distance:</b> 1.0		
<b>Collection Start Date:</b> 11-18-2019		<b>Collection End Date:</b> 03-09-2020

<a href="#">PA_WesternPA_2_2019</a>	<b>Work Unit ID:</b> 208661	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6346	<b>Vertical EPSG Code:</b> 5708	<b>Geoid Model:</b> GEOID 12B
<b>DEM Ground Sample Distance:</b> 1.0		
<b>Collection Start Date:</b> 11-25-2019		<b>Collection End Date:</b> 03-22-2020

<a href="#">PA_WesternPA_4_2019</a>	<b>Work Unit ID:</b> 210015	<b>Quality Level:</b> 2
<b>Horizontal EPSG Code:</b> 6346	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID 12B
<b>DEM Ground Sample Distance:</b> 1		
<b>Collection Start Date:</b> 01-07-2020		<b>Collection End Date:</b> 05-02-2020

<a href="#">PA_WesternPA_3_2019</a>	<b>Work Unit ID:</b> 210012	<b>Quality Level:</b> 1
<b>Horizontal EPSG Code:</b> 6346	<b>Vertical EPSG Code:</b> 5703	<b>Geoid Model:</b> GEOID 12B
<b>DEM Ground Sample Distance:</b> .5		
<b>Collection Start Date:</b> 04-25-2020		<b>Collection End Date:</b> 04-27-2020