

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

Lidar Base Specification: 2020 Revision A	Primary Contractor: NV5 Geospatial, Inc
Las Version: 1.4	Contract Mechanism: Financial Assistance
P Method: 7 - Linear-Mode Lidar	
Collection Start Date: 02-21-2021	Collection End Date: 10-13-2023
The National Map Email: 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	3.97	19.6	7.78	N/A	23.70

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	3.99	19.6	7.82	30.0	23.76

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
8	Key Point
9	Water
17	Bridge Deck
18	High Noise
20	Ignored Ground

Sensor(s) Used

Sensor

Optech Galaxy Prime - Aerial Oscillating Mirror

Work Unit Information

CA_SanJoaquin_6_2021	Work Unit ID: 300028	Quality Level: 1
Horizontal EPSG Code: 6424	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-02-24	Collection End Date: 2021-03-22	

CA_SanJoaquin_3_2021	Work Unit ID: 300025	Quality Level: 1
Horizontal EPSG Code: 6422	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: None	Collection End Date: None	

CA_SanJoaquin_1_2021	Work Unit ID: 300024	Quality Level: 1
Horizontal EPSG Code: 6420	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-04-13	Collection End Date: 2021-04-30	

CA_SanJoaquin_2_2021	Work Unit ID: 217608	Quality Level: 1
Horizontal EPSG Code: 6420	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-03-27	Collection End Date: 2021-04-19	

CA_SanJoaquin_5_2021	Work Unit ID: 300027	Quality Level: 1
Horizontal EPSG Code: 6422	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-02-26	Collection End Date: 2021-03-31	

CA_SanJoaquin_7_2021	Work Unit ID: 300029	Quality Level: 1
Horizontal EPSG Code: 6424	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-02-21	Collection End Date: 2021-03-04	

CA_SanJoaquin_4_2021	Work Unit ID: 300026	Quality Level: 1
Horizontal EPSG Code: 6422	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-03-02	Collection End Date: 2021-04-04	

CA_SanJoaquin_8_Reflight_2021	Work Unit ID: 300177	Quality Level: 1
Horizontal EPSG Code: 6420	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: hydro-flattened	
Collection Start Date: 2021-04-13	Collection End Date: 2023-10-13	

CA_SanJoaquin_9_Reflight_2021	Work Unit ID: 300242	Quality Level: 1
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Horizontal EPSG Code: 6422	Vertical EPSG Code: 6360	Geoid Model: GEOID18
DEM Ground Sample Distance: 1.0	Hydro Treatment: no hydro treatment	
Collection Start Date: 2021-03-17	Collection End Date: 2021-03-17	