

DPH-4 Report on Datums

The USGS Lidar Base Specification Version 1.3 states: "To maximize the usability of 3DEP lidar and elevation products, all data collected shall be tied to the datums listed below: For the CONUS, unless otherwise specified by the user and agreed to in advance by the USGS–NGP:

The horizontal datum for latitude and longitude and ellipsoid heights will be the North American Datum of 1983 (NAD 83) using the most recently NGS-published adjustment (currently NAD 83, epoch 2010.00, realization of 2011). The vertical datum for orthometric heights will be the North American Vertical Datum of 1988 (NAVD 88). The geoid model used to convert between ellipsoid heights and orthometric heights will be the latest hybrid geoid model of NGS, supporting the latest realization of NAD 83 (currently [2017] Geoid12b model)."

Note: See the specification document for requirements concerning non-contiguous areas of the United States.

The purpose of this section is to show the datums of the LAS files for the lidar tiled data. The project specifications should be reviewed to ensure that the Datums listed in this report are as expected.

[Data Source - Y:\Mapping\Projects\65220171_USGS-TX_West_Texas\Production\Final_Client_Deliverables\Lot9_utm13\point_cloud\tilecls](Y:\Mapping\Projects\65220171_USGS-TX_West_Texas\Production\Final_Client_Deliverables\Lot9_utm13\point_cloud\tilecls)

File	Horizontal Datum	EPSG Code	Vertical Datum	EPSG Code
13REN510745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN525730.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN525745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN540730.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN540745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN555715.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN555730.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN555745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN570700.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN570715.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN570730.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN570745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585670.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585685.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585700.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585715.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585730.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN585745.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN600670.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN600685.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN600700.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13REN600715.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103

DPH-4 Report on Datums - continued

<u>File</u>	<u>Horizontal Datum</u>	<u>EPSG Code</u>	<u>Vertical Datum</u>	<u>EPSG Code</u>
13RFO455005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO470005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO485005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO500005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO515005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO530005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103
13RFO545005.las	NAD83 (National Spatial Reference System 2011)	1116	North American Vertical Datum 1988	5103