

DPH-14 Report on Point Classification

The USGS Lidar Base Specification Version 2.1 states: "The minimum, required classification scheme for lidar data is found in table 5. The following requirements apply to point classification:

- All points that fall within the minimum classification scheme (table 5) and not flagged as withheld shall be properly classified.
- Additional classes may be used on specific projects.
- Accuracy of point classification into classes beyond the minimum scheme (table 5) will not be assessed by the USGS, as documented in metadata.
- Assessing and verifying accuracy of point classification into classes beyond the minimum scheme will be the responsibility of the partner requesting the additional classes.
- No points in the classified LAS deliverable may remain assigned to Class 0, unless these points are flagged as withheld.
- Points classified as water will only be checked when associated with a breakline.
- If it is necessary to identify overage points in overlap areas, the overage points shall be identified using the overlap bit flag as defined in LAS Specification Version 1.2-R13 (ASPRS, 2011).
classified.
- No classification code may be used to identify points as overage points.
- Model key points, if calculated, shall be identified using the key point bit flag as defined in LAS specification version 1.4-R13 (ASPRS, 2011). Model key points may, in addition, be identified using class 8 at the discretion of the data producer."

Table 5. Minimum light detection and ranging data classification scheme.

Code	Description
1	Processed, but unclassified
2	Bare earth
7	Low noise
9	Water
17	Bridge deck
18	High noise
20	Ignored ground (typically breakline proximity)
21	Snow (if present and identifiable)
22	Temporal exclusion (typically nonfavored data in intertidal zones)

The purpose of this section is to report total numbers of points for each class within the LAS files.

