

Overview

Project Overview

QSI has completed the acquisition and processing of Light Detection and Ranging (LiDAR) data describing the Oregon LiDAR Consortium’s (OLC) 2020 Harney - Silver Creek Study Area. The 2020 Harney - Silver Creek DPA (defined project area) shown in Figure 1 encompasses 596,275.2 acres; and is primarily in Harney County, Oregon, but extends into Crook County and Grant County. Terminology used within this report aligns with OLC preferred language; Table 1 includes synonymous USGS 3DEP terminology.

The 2020 Harney - Silver Creek project is composed of Legacy and New Collection LiDAR data. Newly collected LiDAR data were acquired between July 27 and 28, 2020. Legacy datasets include 2015 Harney, 2017 OLC Silver Creek, and 2018 Harney lidar data (see Figure 1). Settings for LiDAR data capture produced an average resolution of at least eight pulses per square meter. Final products are listed on pages four and five. Vertical accuracy was assessed and reported for newly collected data, legacy data, and combined data sources (see pages 13-16).

The collection of high resolution geographic data is part of an ongoing pursuit to amass a library of information accessible to government agencies as well as the general public.

QSI acquires and processes data in the most current, NGS-approved datums and geoid. All final deliverables for 2020 Harney - Silver Creek are projected in Oregon Lambert, endorsed by the Oregon Geographic Information Council (OGIC),¹ using the NAD83 (2011) horizontal datum and the NAVD88 (Geoid 12B) vertical datum, with units in International feet.

Table 1: OLC/3DEP synonymous terminology

OLC Terminology	USGS 3DEP Terminology
Area of Interest (AOI)	Defined Project Area (DPA)
Ground Survey Point (GSP)	Check Point

¹ <http://www.oregon.gov/DAS/EISPD/GEO/pages/coordination/projections/projections.aspx>

Figure 1: OLC Harney Silver Creek study area location

