



Whidbey Island Naval Air Station Wetland Delineation Survey, Oak Harbor, WA; *Ecology and Environment, Inc. for the US Navy*

White Shield supported Ecology and Environment and the US Navy under this subcontract for surveying services at Whidbey Island Naval Air Station. The initial scope of services involved a survey of jurisdictional boundaries of several wetland areas that were flagged by a wetland professional. Areas included an estimated 50-acre parcel (impact area), and two mitigation areas – Crescent Harbor Marsh (estimated at 150 acres) and a coastal dune system at Ault Field (estimated at 100 acres). Aerial mapping was used for the digital terrain model (DTM) creation in the entire study area, and RTK GPS locations of ± 300 wetland flags.

Whidbey Island Naval Air Station Aerial Mapping, Oak Harbor, WA; Sanborn *Mapping and EDAW for the US Navy*

White Shield supported Sanborn Mapping, EDAW, and the US Navy in providing aerial photo control for mapping to be used in identifying storm water alternatives for Ault Field in the Dugualla Lagoon, and Clover Lagoon areas of Whidbey Island Naval Air Station. White Shield established 40 photo control points within the wetland mitigation areas, 25 control points along the Ault Field drainage canal network, 11 control points in the surrounding Whidbey Island NAS area, and 8 permanent XYZ control points within the mitigation areas, using RTK GPS observations. White Shield also recorded invert elevation, pipe size, and construction type of storm drainage culverts along Crescent Harbor Road (mitigation area road frontage), and within the sewage treatment area. A subsequent effort included maintenance of 25 aerial panels from previous work. Additionally, White Shield provided services to establish ground control for hydraulic modeling of approximately 16 miles of the airfield drainage system. White Shield personnel provided cross-sections of drainage ditches at ± 500 -foot intervals, elevations on drainage structures, and soundings in Dugualla Lagoon.

