

Bonneville Power Administration
Geodetic Control Data Sheet

Station: WM019 (219)
Project: Wallula-Smiths Harbor-McNary
Section: SW 1/4 24 Township: 7 North Range: 31 East Meridian: Willamette
County: Walla Walla State: WA USGS Quad: Wallula, Washington
Surveyor: M R Heidecke Date Surveyed: July, 2001

Instrument:

The horizontal coordinates and orthometric elevation were established by GPS observations using six Trimble 4000 SSI dual frequency receivers with Compact L1/L2 antennae with ground plane.

Adjustment:

The Basis of Coordinates for this survey is the Washington State Coordinate System, South Zone, NAD 83 (1998). The horizontal component of the least squares adjustment was constrained by holding NGS Stations B 340 (A), B 502 (B), PENDLETON (B), STANFIELD EAST BASE RESET (B), and BURDEN (B). The vertical component of the least squares adjustment was constrained by holding NGS Benchmarks B 340 (First Order Class II), B 502 (First Order Class II), BURDEN (Second Order Class II), V 203 (Second Order Class 0), G 640 (First Order Class I). The elevation for point 106, 201, 249, and 255 were determined by differential leveling from G 640, D 502, E 525 and F 431 respectively and held.

Horizontal Datum: NAD83 (1998) Linear Unit: U.S. Survey Feet
Vertical Datum: NAVD88 Linear Unit: U.S. Survey Feet

Latitude: N 46-03-58.69933	Longitude: W 118-53-05.41365
US State Plane Coordinate System: Washington South Zone - 4602	
Northing: 271,486.022	Easting: 2,050,363.343
Orthometric Elevation: 411.05	Ellipsoid Height: 340.37
Combined Factor: 0.99993909	Convergence: - 1-10-24
Confidence: 95% Confidence ("1.96 Sigma") Values	
Northing-0.009	Easting-0.006
	Elevation-0.096

Monumentation: BPA 3/4-inch Aluminum Cap on 5/8-inch aluminum rod, flush with ground.
Stamping: U.S.D.O.E. Bonneville Pwr. Adm., WM019 - FEC-01 - ATB - GPS

To-Reach Description:

Begin at Wallula Post Office at Wallula, Wa. 99363. Drive north on Columbia Way (County Road #1870) 0.1 miles to intersection of Columbia Way and Washington State Highway #12. Drive south on Washington State Highway #12, 1.1 miles to the intersection of a gravel road to the left (east). Sign says Northshore Road. Drive east on Northshore Road 150 feet to a fork. Continue east on left fork. Sign says to Wallula Habitat Management Unit, continue east on 16 foot gravel road parallel to Union Pacific Railroad tracks (north side) for 1.4 miles to intersection of a dirt road on right (south). Sign says Ranger Road. Drive south on Ranger Road 65 feet thru a gate to station on the right, 40 feet west of centerline of Ranger Road.

Witness post is a yellow carsonite marker inscribed with BPA logo, bearing and distance to station.

RECEIVED BY
Walla Walla County
Date: _____
Received by: _____
02-19-09