

HORIZONTAL CONTROL DATA

State Plane in International Feet, Elevations in U.S. Survey Feet  
 Retrieval Date and Time: 08/19/1999 08:27:07

Station Number: 198	GEODETTIC DATUM: NAD 83/91
Station Name: LUTS AZIMUTH	LAT.: 43°37' 58.06488" N
Section: 30 Township: 22S Range: 8W	LONG: 123°41' 34.53117" W
1/4 Section: NE County: DOUGLAS	SPCS DATUM: ORS3602
Date Set: 06/09/1999 State: OR	Northing: 732666.088+/-0.033
Firm: David Evans and Associates, Inc.	Easting: 4076163.337+/-0.023
Addr: 2828 S.W. Corbett	VERTICAL DATUM: NAVD88
Portland, Oregon 97201-4830	GEOID MODEL: GEO96NW
(503) 223-6663	Orthometric Elev.: 1016.304
	+/-0.066
GPS: YES Type:	Ellipsoidal Elev.: 939.389
Group: C Order: 1	Separation: -76.915
PPM: 10	Convergence: -2°11'3.953164"
	Scale Factor: 0.99992739

Statement per ORS 209.250(6)(g)  
 Survey was done for Bonneville Power for a proposed line. Equipment used includes Kern tripods, Trimble 4000ssi's 4800's, GPSurvey and Geolab2. Horizontal controls are PID's PC0964, AA5135, QE2665, OA0733, AA5127, PC1116, AA5126, PC1117, vertical controls are PID's AA5127, OA0733, OA0660, OA0616, PC0512, PC0419, PC0689, PC0738, PC0591 and OSHD Benchmarks Y596, M675, J675.

Directions to the Monument:  
 STATION IS LOCATED 1 MILE WEST SOUTHWESTERLY OF A HORSESHOE BEND OF THE UMPQUA RIVER CALLED BUNCH BAR, 0.5 MILES NORTHEASTERLY OF LUTSINGER CREEK, 0.2 MILES WEST NORTHWESTERLY OF THE HEADWATERS OF BUTLER CREEK. STATION WAS REACHED BY HELICOPTER BUT PROBABLY CAN BE DRIVEN TO. STATION IS LOCATED IN THE CENTER OF A CUL DE SAC AT THE NORTH END OF THE ROAD.

Monument Type: 3 1/4 inch Aluminum BPA cap on Aluminum rod  
 Stamping: LUTS AZIMUTH 1999  
 Description of the Monument:  
 STATION IS A STANDARD BPA ALUMINUM CAP MOUNTED ON A ROD DRIVEN TO REFUSAL SET FLUSH WITH THE GROUND. STATION IS LOCATED IN THE CENTER OF A LANDING AT THE END OF THE ROAD, STATION SEES EAST TO HIGHWAY 38.



6-30-2001  
 SURVEYOR'S STAMP

1 meter = 3.28083333... U.S. Feet = 39.37 inches exactly  
 1 meter = 3.280839895 Intl. Feet or 1 inch = 2.54 cm. exactly  
 To calculate Elevation Factor (in the North American Continent)  
 Divide 20,906,000 by 20,906,000 + Ellipsoid Elevation in feet.