



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: August 17, 2004


HYDROGRAPHIC BRANCH: Pacific  
HYDROGRAPHIC PROJECT: OPR-N161-RA-2003  
HYDROGRAPHIC SHEET: H11268

LOCALITY: Guemes Channel, Puget Sound, WA  
TIME PERIOD: October 15 - November 5, 2003

TIDE STATION USED: 944-9880 Friday Harbor, WA  
Lat. 48° 32.8'N Lon. 123° 00.6'W  
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters  
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.167 meters

REMARKS: RECOMMENDED ZONING  
Use zone(s) identified as: PS234, PS235, PS236, PS237, PS238 &  
PS240

Refer to attachments for zoning information.

For -----  
CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION



**Final tide zone node point locations for OPR-N161-RA-2003, H11268**

Format: Tide Station (in recommended order of use)  
 Average Time Correction (in minutes)  
 Range Correction  
 Longitude in decimal degrees (negative value denotes  
 Longitude West),  
 Latitude in decimal degrees

	Tide Station Order	AVG Time Correction	Range Correction
Zone PS234	944-9880	-30	1.02
-122.710336 48.48135			
-122.734546 48.498362			
-122.755126 48.509331			
-122.75184 48.51116			
-122.738657 48.51598			
-122.725474 48.51861			
-122.71361 48.519486			
-122.699769 48.519048			
-122.688096 48.516556			
-122.679153 48.507487			
-122.67863 48.504124			
-122.70096 48.492981			
-122.710336 48.48135			
Zone PS235	944-9880	-18	1.02
-122.755126 48.509331			
-122.763488 48.513785			
-122.788254 48.522764			
-122.796154 48.523947			
-122.803057 48.54122			
-122.775261 48.557684			
-122.714173 48.563109			
-122.714804 48.543637			
-122.688096 48.516556			
-122.699769 48.519048			
-122.71361 48.519486			
-122.725474 48.51861			
-122.738657 48.51598			
-122.75184 48.51116			
-122.755126 48.509331			
Zone PS236	944-9880	-18	1.04
-122.688096 48.516556			
-122.714804 48.543637			

-122.699677 48.548828  
-122.682459 48.551959  
-122.649363 48.542167  
-122.632649 48.528674  
-122.616918 48.517136  
-122.670959 48.502849  
-122.67863 48.504124  
-122.679153 48.507487  
-122.688096 48.516556

Zone PS237

944-9880

-6

1.04

-122.632649 48.528674  
-122.599545 48.544005  
-122.573672 48.529979  
-122.597585 48.513217  
-122.612881 48.519548  
-122.616918 48.517136  
-122.632649 48.528674

Zone PS238

944-9880

+6

1.05

-122.597585 48.513217  
-122.612881 48.519548  
-122.608381 48.489141  
-122.592856 48.460948  
-122.568255 48.462175  
-122.564952 48.474462  
-122.569427 48.497866  
-122.556587 48.512324  
-122.549097 48.523666  
-122.54517 48.538467  
-122.54583 48.552393  
-122.549438 48.564575  
-122.556259 48.578596  
-122.554886 48.587542  
-122.645035 48.586641  
-122.599545 48.544005  
-122.573672 48.529979  
-122.597585 48.513217

Zone PS240

944-9880

+18

1.06

-122.556259 48.578596  
-122.503656 48.569645  
-122.485565 48.549867  
-122.490001 48.542255  
-122.506828 48.519095  
-122.524515 48.500804  
-122.549412 48.486211  
-122.564952 48.474462

-122.569427 48.497866  
-122.556587 48.512324  
-122.549097 48.523666  
-122.54517 48.538467  
-122.54583 48.552393  
-122.549438 48.564575  
-122.556259 48.578596