City of Bainbridge Island

~~Programmatic Buoys SSDP # 15435~~ Cross-Sectional View Worksheet

GPS Location: 47° 41' 36.59" N by -122° 32' 41.85" W
(Subject to verification by the City)

Owner: Jacobellis, Tony + Sharon
DNR Lease/License # _____



Buoy

Reflector
Color: White
Banding Color: Blue
Type of Line?

Surface

STEP 1

Bottom Depth = -10' feet MLLW
(At mean low, low water or tide)

(Minimum Depth = -9 feet MLLW
Maximum Depth = -18 feet MLLW)

STEP 2

Bottom Depth (10) + Extreme High Water (14.5') = Depth Extreme High Tide (DEHT) (24.5)

DEHT (24.5) + Scope ≤ 20% (3.5) = Length of Line (L) (28)

Bottom Depth (BD) less extreme low water (-4.5') = depth extreme low tide (DELT)

Mid-Line Float
☒ Located 1/3 of Line Length or Extreme Low Water (ELW), whichever is deeper.

No Eelgrass or Macroalgae Present

Eelgrass or Macroalgae Present

STEP 3

BD (10) − -4.5' = DELT (5.5)

DELT = 5.5

Ecology Block Anchor option with dive survey

Bottom

Embedment Anchor option without dive survey

STEP 4

Swing = $\sqrt{(L^2) - (DELT)^2}$ = $\sqrt{784 - 30.25}$ = 27.5 Swing

\+ 4 Bowline

\+ 20 Vessel Length

= 51.5 * Total Swing

☐ Check One ☒

*Show Total Swing on Plan View