City of Bainbridge Island

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

GPS Location: 47° 41' 39.19" N by -122° 32' 40.46 W
(Subject to verification by the City)

Owner: Manino, Michael + Donna
DNR Lease/License # _____



Buoy

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

Surface

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

Ecology Block Anchor option with dive survey

Bottom

Embedment Anchor option without dive survey

☐ ☒ **Check One**

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)

STEP 3

BD (10) − **-4.5'** = **DELT** (5.5)

DELT = 5.5

STEP 4

$$\text{Swing} = \sqrt{(L^2) - (DELT)^2} \quad \left(\sqrt{784 - 30.25}\right)$$

= 27.5 **Swing**

\+ 4 **Bowline**

\+ 20 **Vessel Length**

= 51.5 ***** **Total Swing**

*Show Total Swing on Plan View