



Figure 2-1. Shelter Island Yacht Basin Time Series Study Sampling Locations

2.1.2 Collection Schedule

Sample collections at the three stations were performed synchronously throughout the full semidiurnal tidal cycle on January 3 and 4, 2018. As discussed, the sampling date was selected primarily on the basis of the tidal range (i.e., tidal heights similar to those selected for TMDL sampling events) and practicality (i.e., a non-holiday or weekend day for reduced vessel traffic). Table 2-2 provides the tide times and heights for the Time Series Study and the most recent TMDL monitoring event.

**Table 2-2.
 Tide Times and Heights for the Time Series Study and Annual TMDL Monitoring Events**

Date	Low Tide	High Tide	Low Tide	High Tide	Low Tide
	time/height [feet]				
1/3/2018 (Primary)	16:42 (-1.9 ft)	23:11 (+7.0 ft)	04:15 (+1.6 ft)	10:24 (+7.0 ft)	17:29 (-1.4 ft)
8/23/2017 (2017 TMDL)	5:19 (+1.4 ft)	11:33 (+5.6 ft)	18:06 (+0.9 ft)	--	--

Table 3-1.
Dissolved Copper Concentrations during the SIYB Time Series Study

Sample Sequence	Station TS-1 (Pearson's Fuel Dock)	Station TS-2 (Mid-Channel)	Station TS-3 (Transient Dock)
	Concentration (µg/L)		
T0	9.5	5.5	2.7
T1	9.5	6.4	3.2
T2	9.1	4.1	4.1
T3	9.4	5.0	4.8
T4	9.6	5.7	3.5
T5	9.3	5.3	4.1
T6	9.5	5.4	3.9
T7	9.0	5.5	2.1
T8	8.9	6.4	1.2
T9	10	2.0	1.0
T10	9.8	6.2	1.4
T11	9.9	6.6	3.0
T12	9.9	7.1	3.9
T12-REP	10	7.0	3.9
ER	0.059	0.025	0.044
FB	ND	0.023	0.028

Notes:

µg/L = micrograms per liter; SIYB = Shelter Island Yacht Basin; TS = time series; ER = equipment rinsate; FB = field blank

2018 SIYB Time Series Study
 Surface Water Dissolved Copper Concentrations
 January 3-4, 2018

