

**South River
Water Column
[Hg] Survey**



Waynesboro/South River Hg results

Station ID	1BSTH025.83	1BSTH024.97	1BSTH024.96	1BSTH023.73 (2 nd St. Bridge)	1BSTH022.19 (Hopeman Pkwy)	1BSTH019.26
Fld. Blank (ng/L)	1.5* 1.5*	1.5* 1.5*	1.5* 1.5*	1.5* 1.5*	1.5* 1.5*	1.5* 1.5*
Diss. Hg (ng/L)	1.5* 1.5* 1.5*	1.6 1.5* 1.610	1.5* 1.5* 1.870	1.7 1.5* 1.5*	3.75 2.49 2.42	4.8 3.06 3.10
Tot. Hg (ng/L)	1.5* 1.5* 1.5*	4.4 7.8 7.220	4.2 7.32 7.850	5.1 17.2 24.0	28.7 29.4 44.0	38.0 55.20 175

* Below detection limit



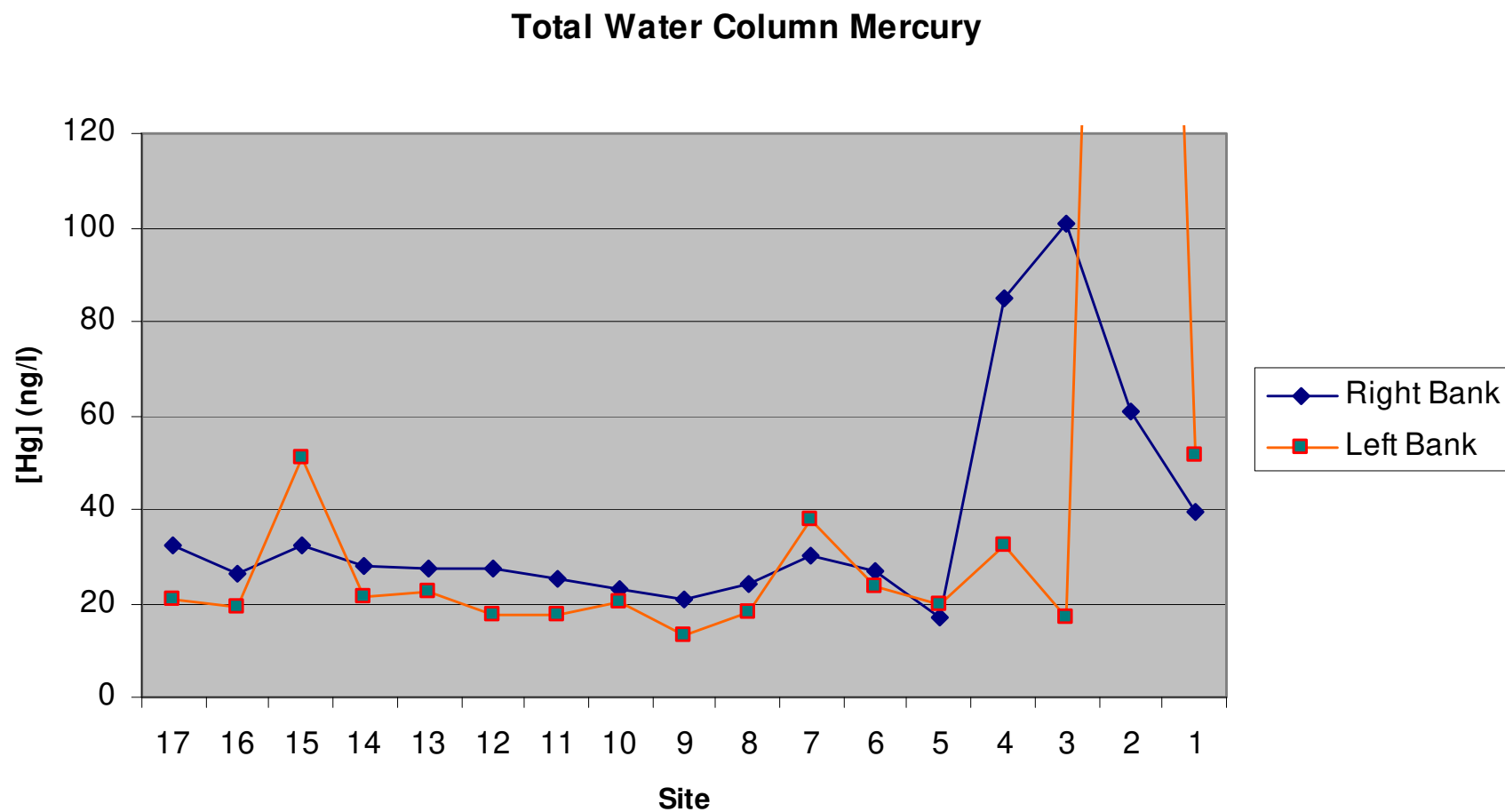






South River Survey Sweep Results

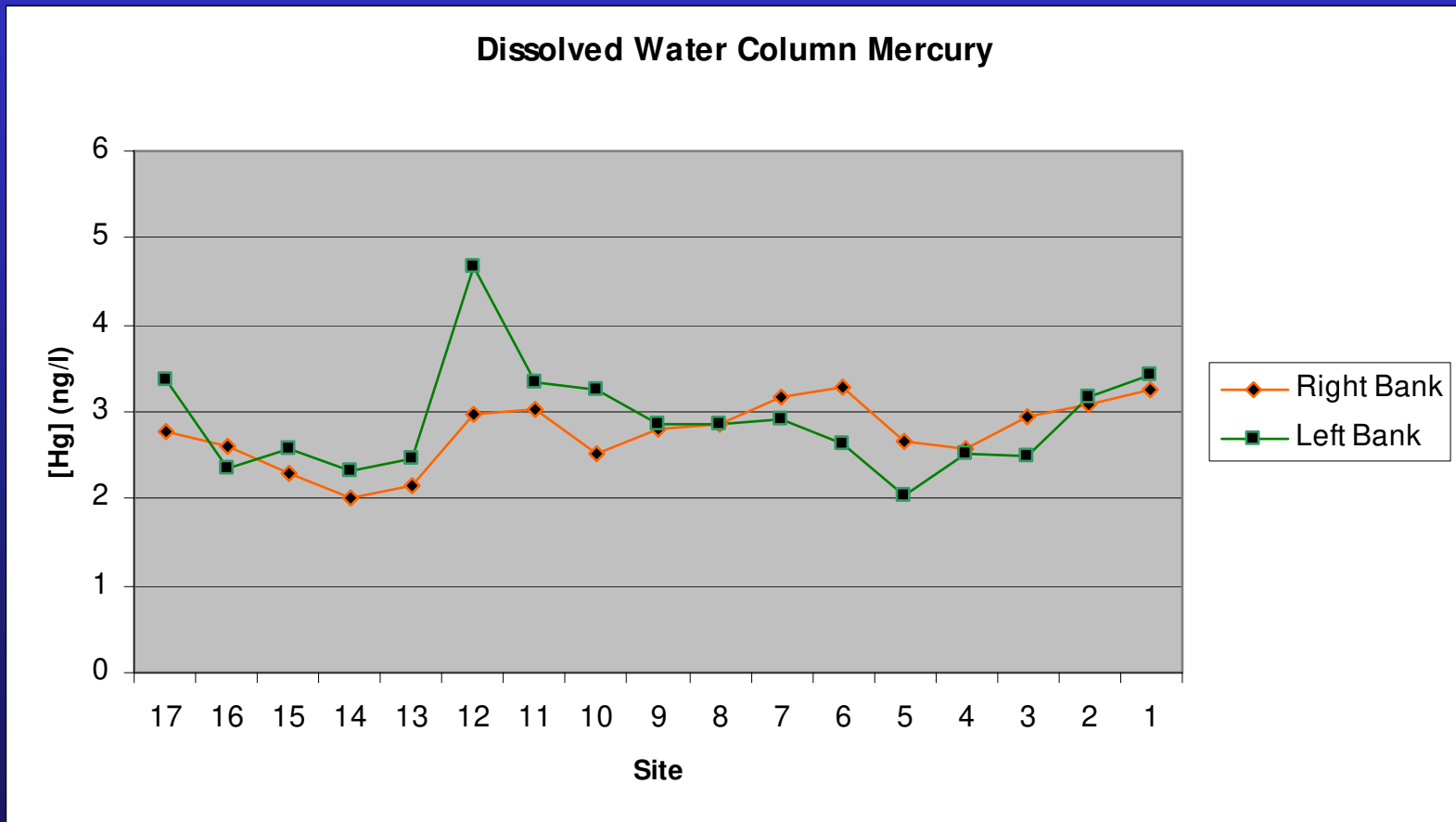
Upstream to downstream, left to right



Value at site 2 = 445 ng/L

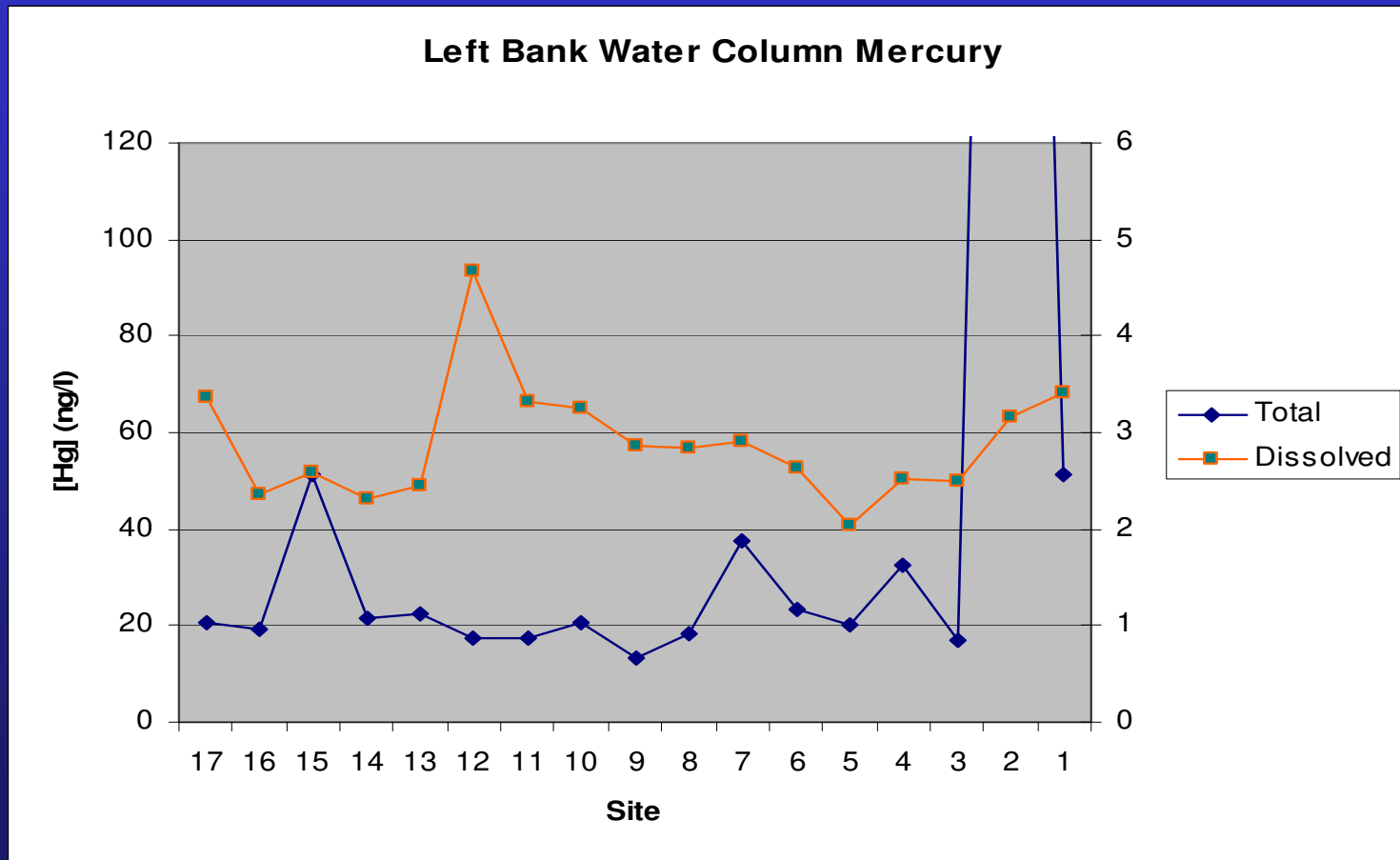
South River Survey Sweep Results

Upstream to downstream, left to right



South River Survey Sweep Results

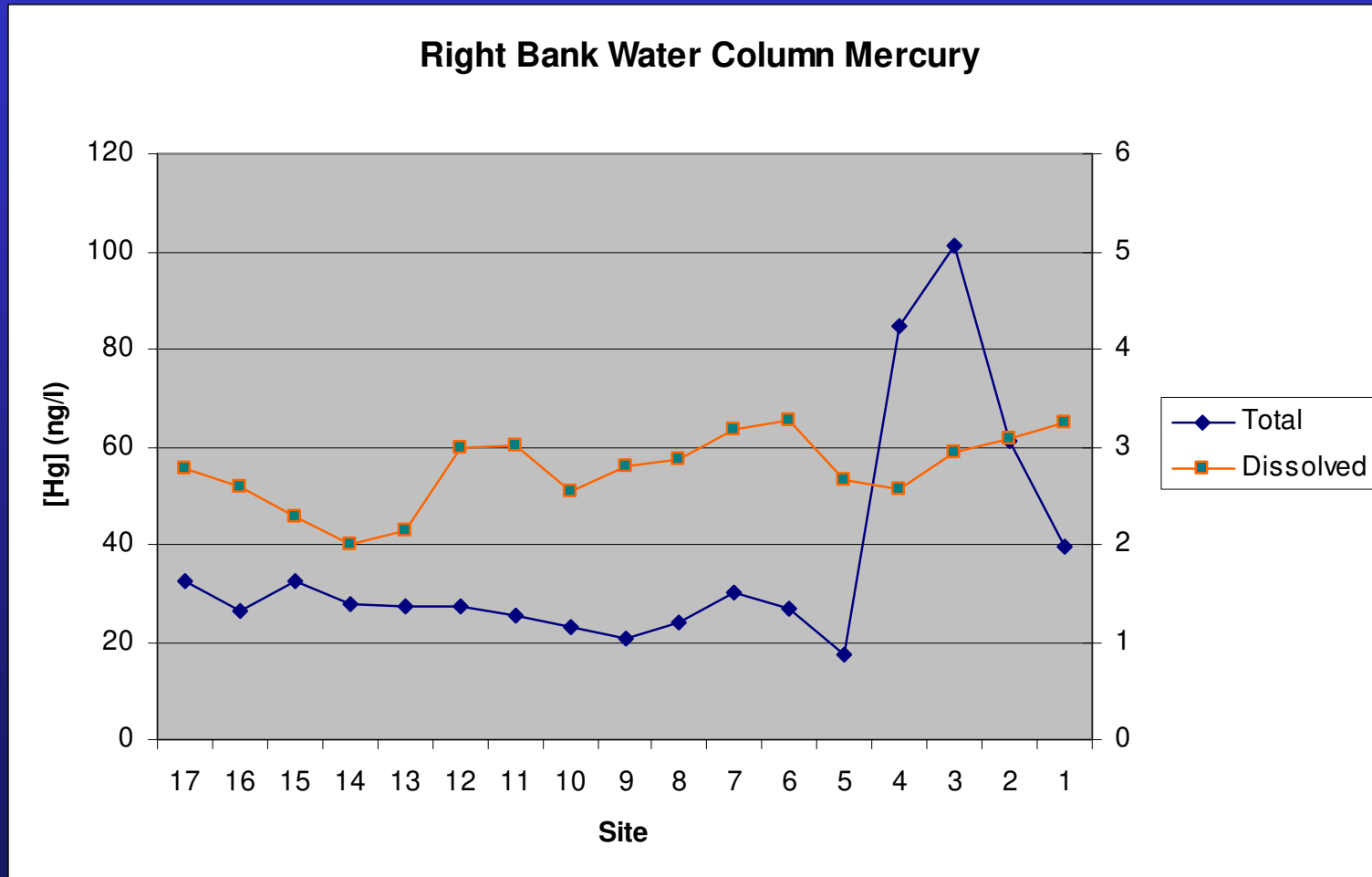
Upstream to downstream, left to right



Value at site 2 = 445 ng/L

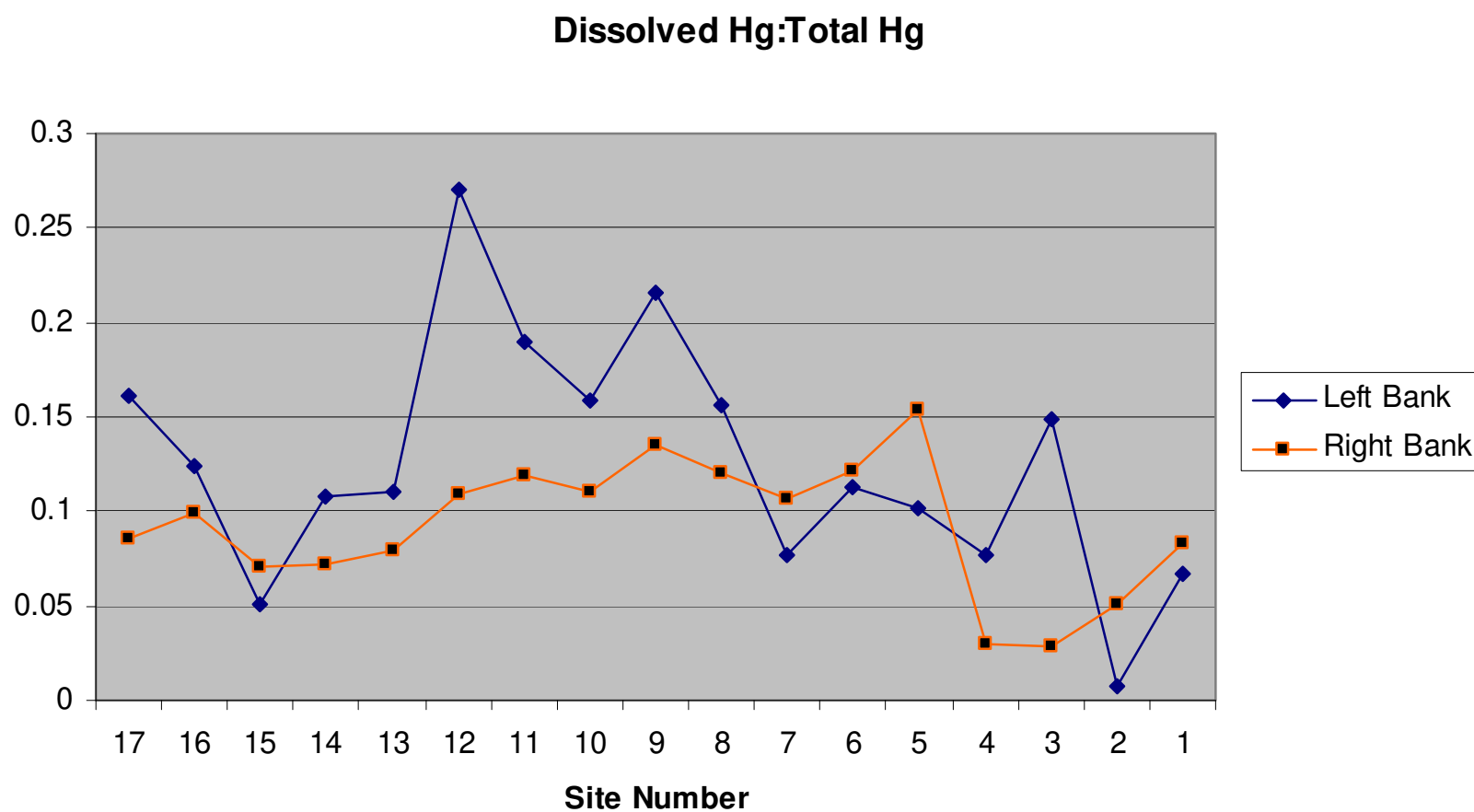
South River Survey Sweep Results

Upstream to downstream, left to right



South River Survey Sweep Results

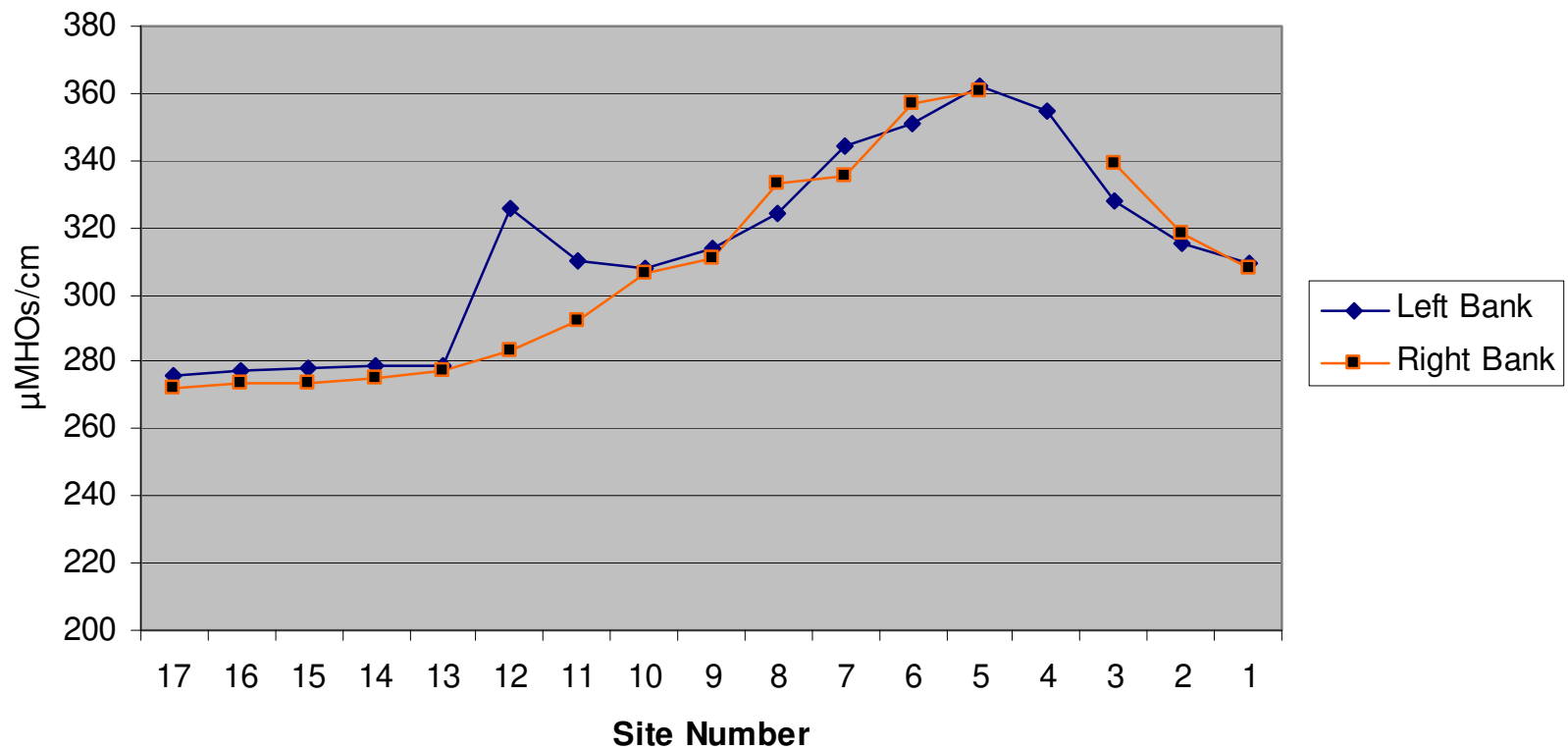
Upstream to downstream, left to right



South River Survey Sweep Results

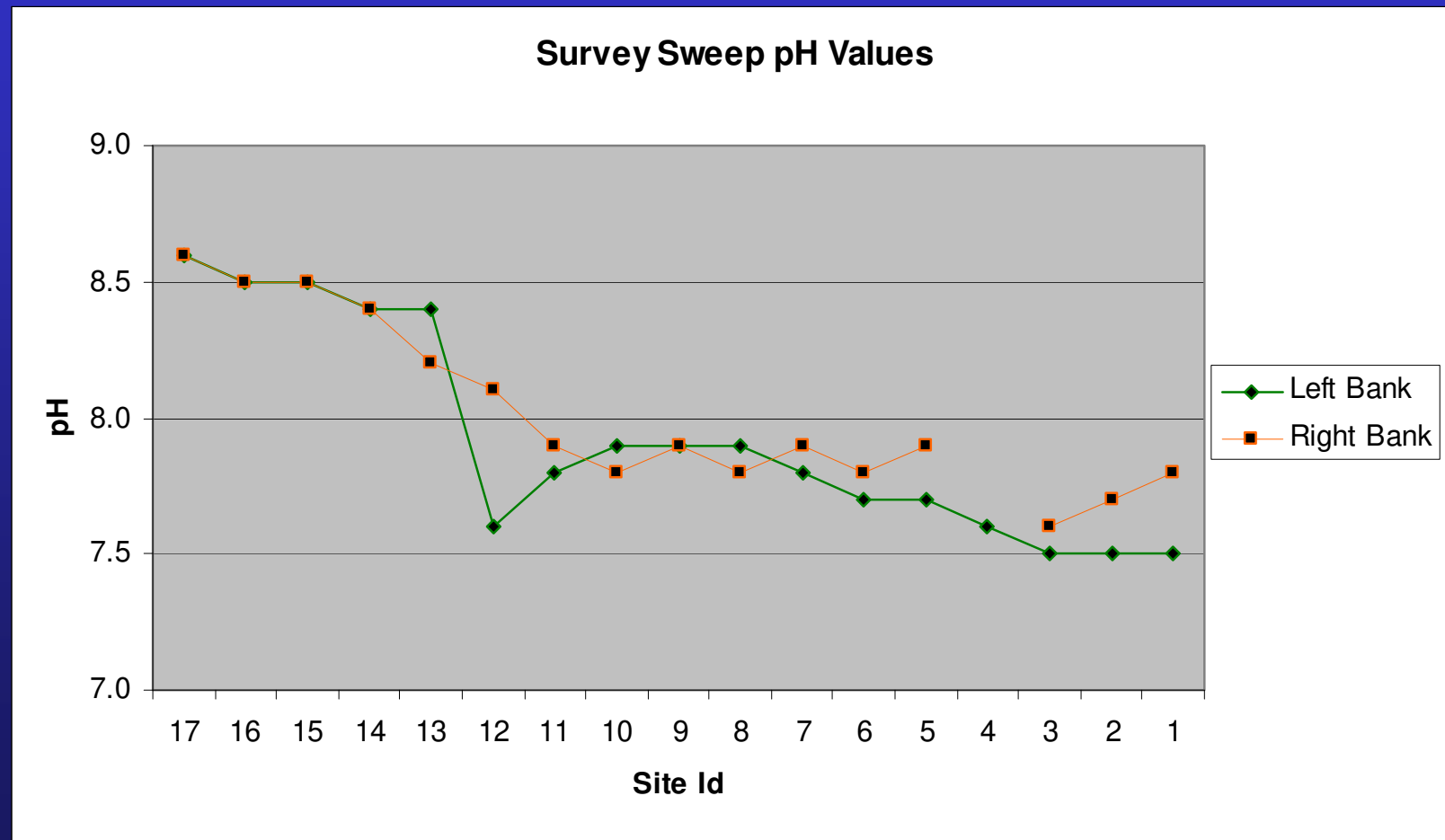
Upstream to downstream, left to right

Left and Right Bank Conductivity



South River Survey Sweep Results

Upstream to downstream, left to right



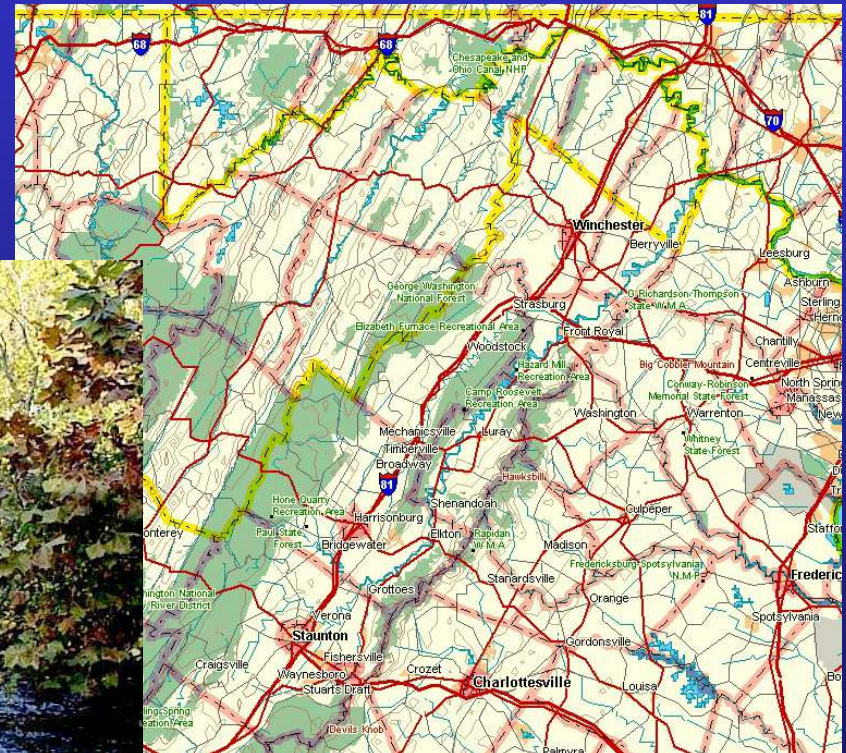
Waynesboro/South River Hg results

Station ID	1BSTH025.83	1BSTH024.97	1BSTH024.96	1BSTH023.73 (2 nd St. Bridge)	1BSTH022.19 (Hopeman Pkwy)	1BSTH019.26
Diss. Hg (ng/L)	1.5*	1.6	1.5*	1.7	3.75	4.8
	1.5*	1.5*	1.5*	1.5*	2.49	3.06
	1.5*	1.610	1.870	1.5*	2.42	3.10
	1.5*	3.15	1.94	2.04	4.14	6.51
	1.5*	2.61	3.40☞	1.5*	3.48	9.17
Tot. Hg (ng/L)	1.5*	4.4	4.2	5.1	28.7	38.0
	1.5*	7.8	7.32	17.2	29.4	55.20
	1.5*	7.220	7.850	24.0	44.0	175
	2.09	14.7	39.0	24.0	59.0	96.0
	1.55	78.0☞	163.0☞	N/A	42.0	73.5

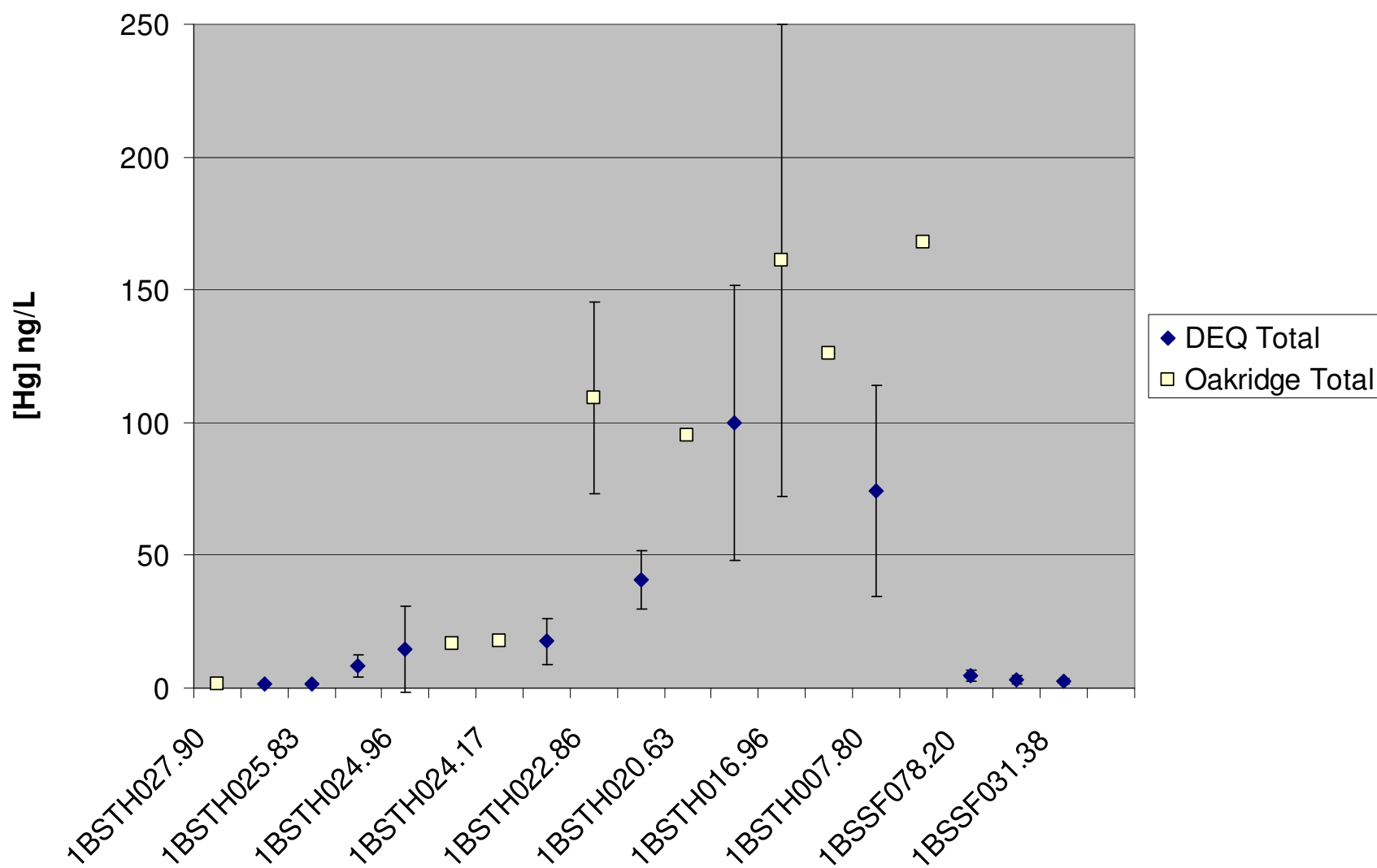
* Below detection limit

☞ Extreme value

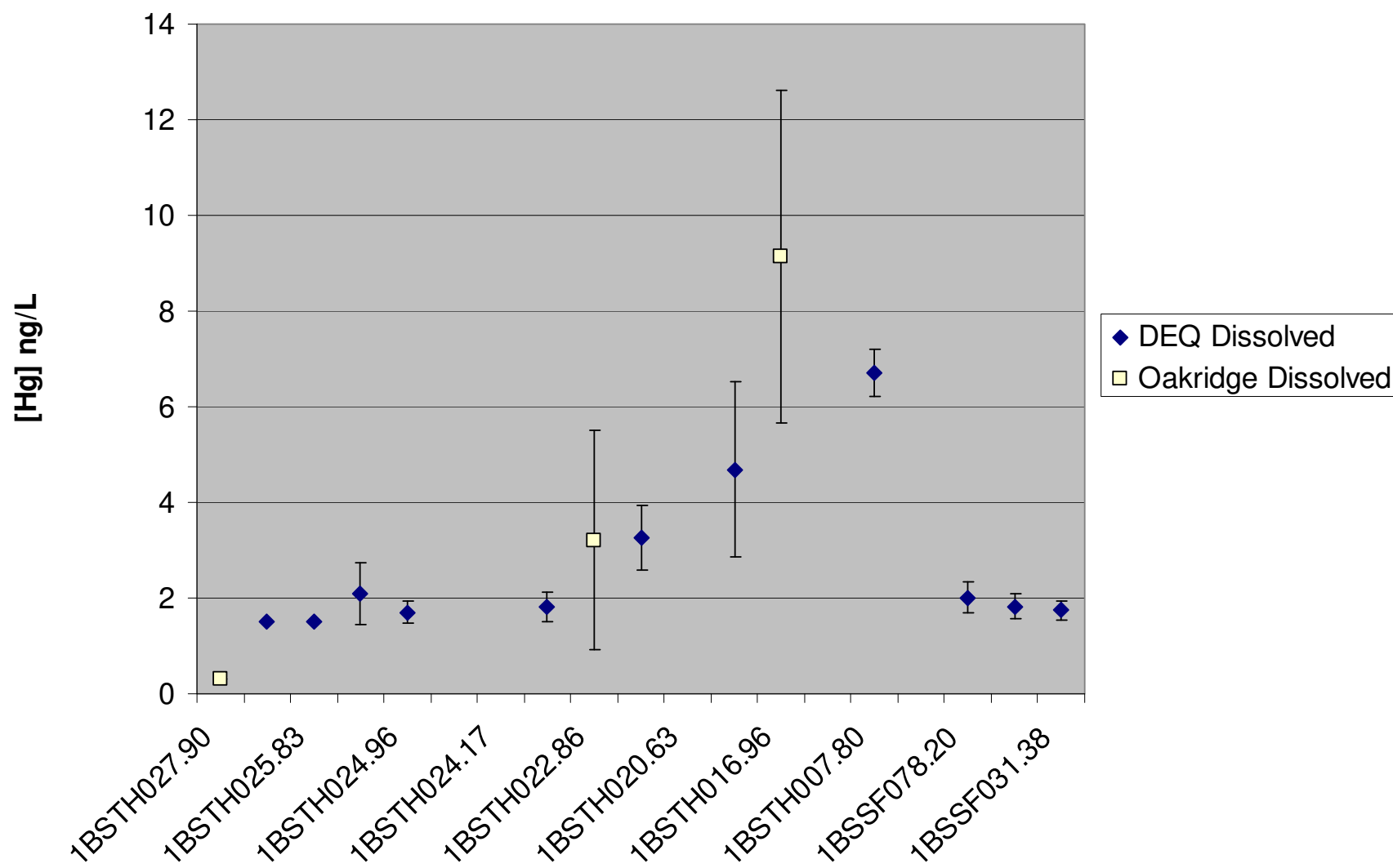
Results of the 5 Year
Surface Water Hg Monitoring
In the South and South Fork Shenandoah
Rivers



DEQ vs ORNL Hg Data

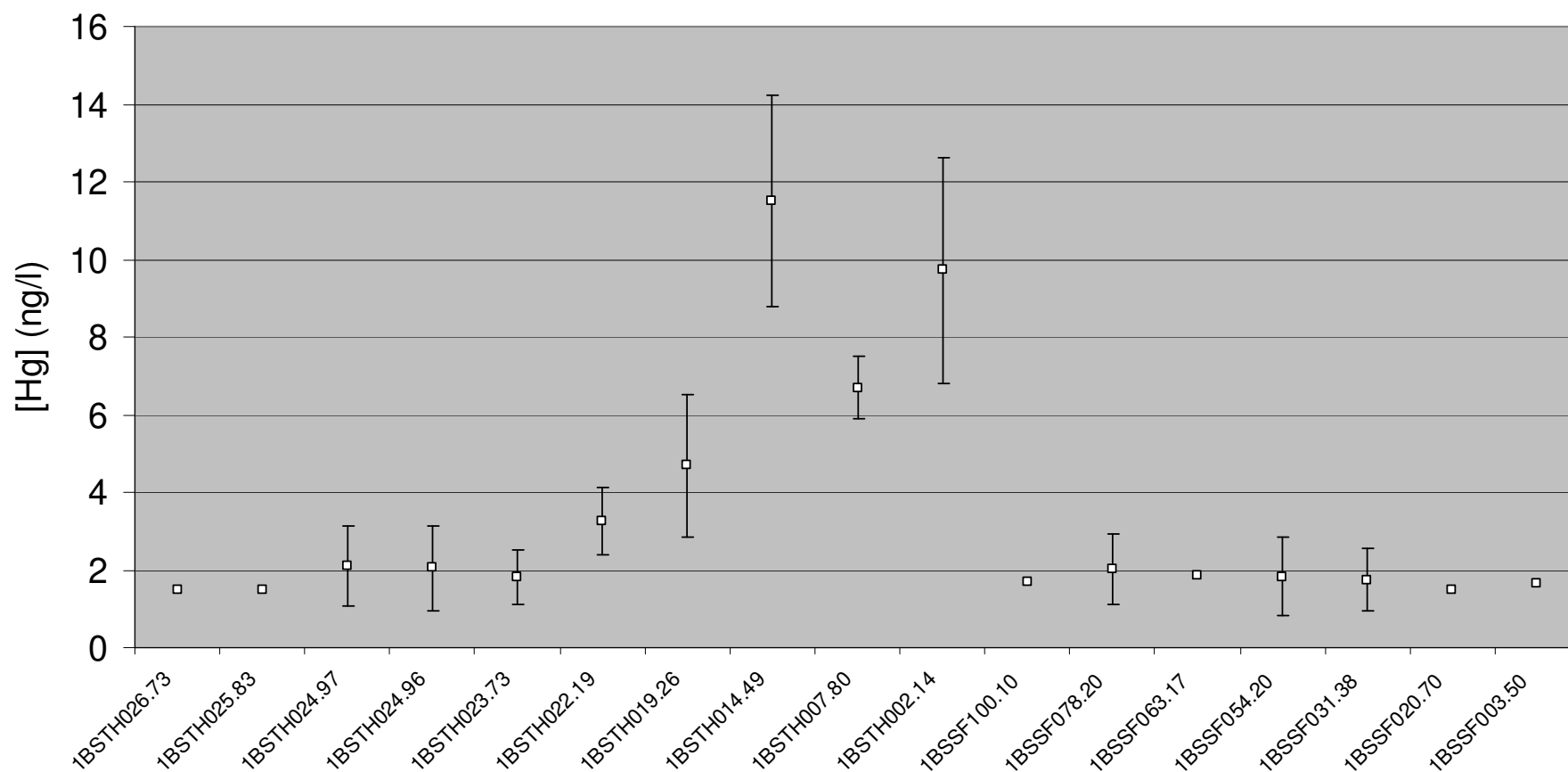


DEQ vs ORNL Hg Data (cont.)



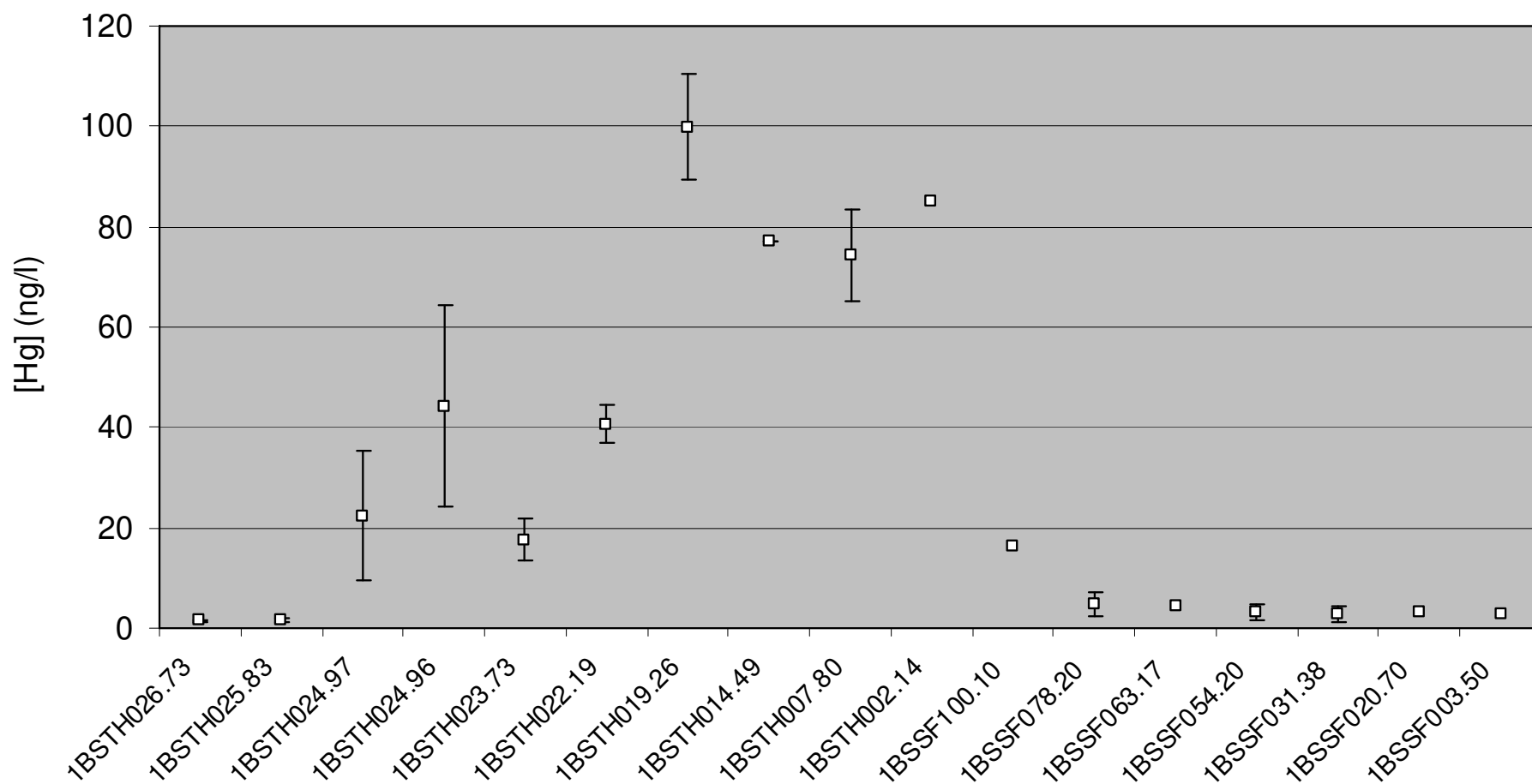
5 Year Water Column results

Mean and 95% Confidence Dissolved Total Mercury

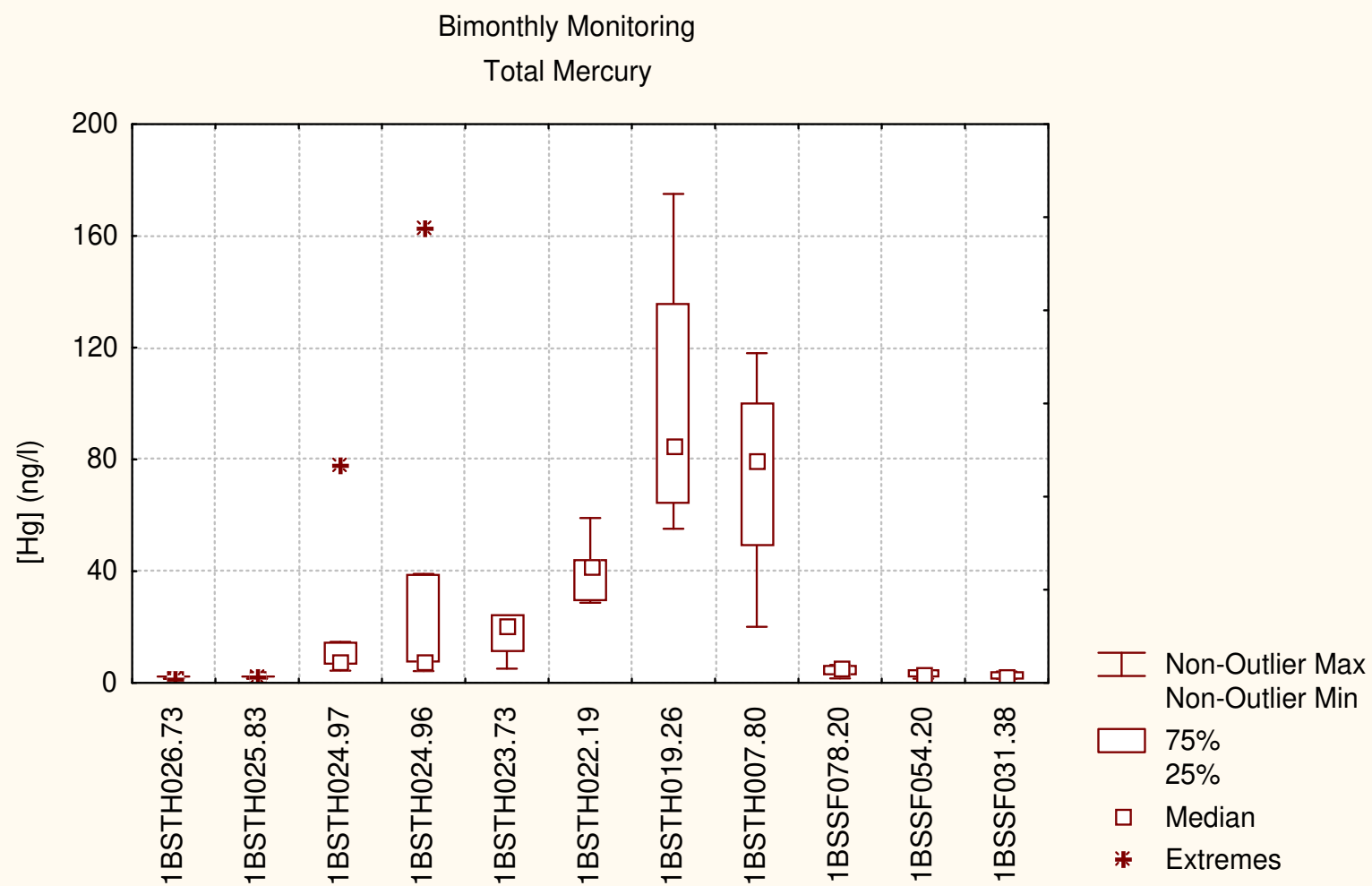


5 Year Water Column results (cont.)

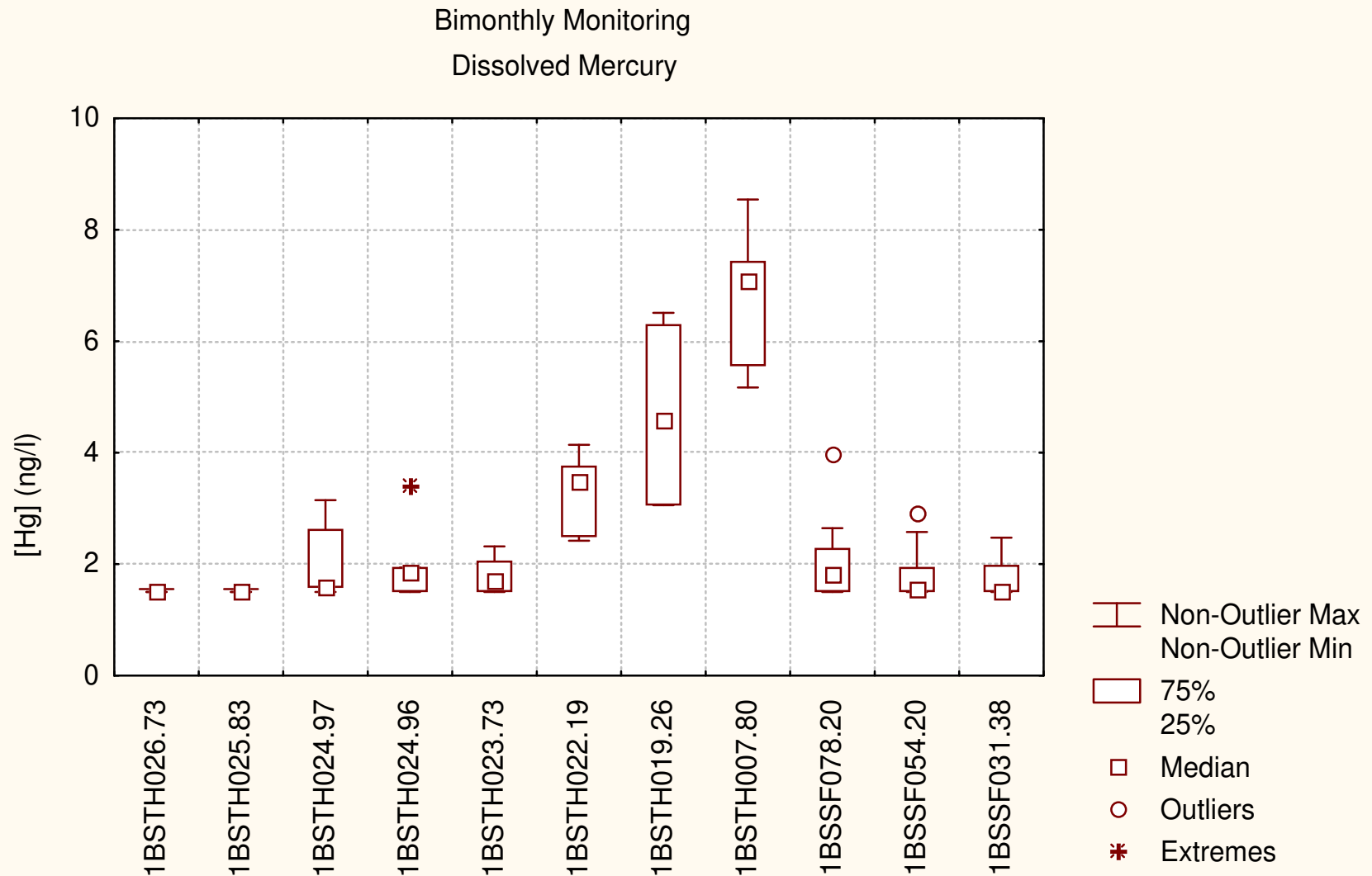
Mean and 95% Confidence Total Mercury



Bimonthly Clean Hg Monitoring



Bimonthly Clean Hg Monitoring



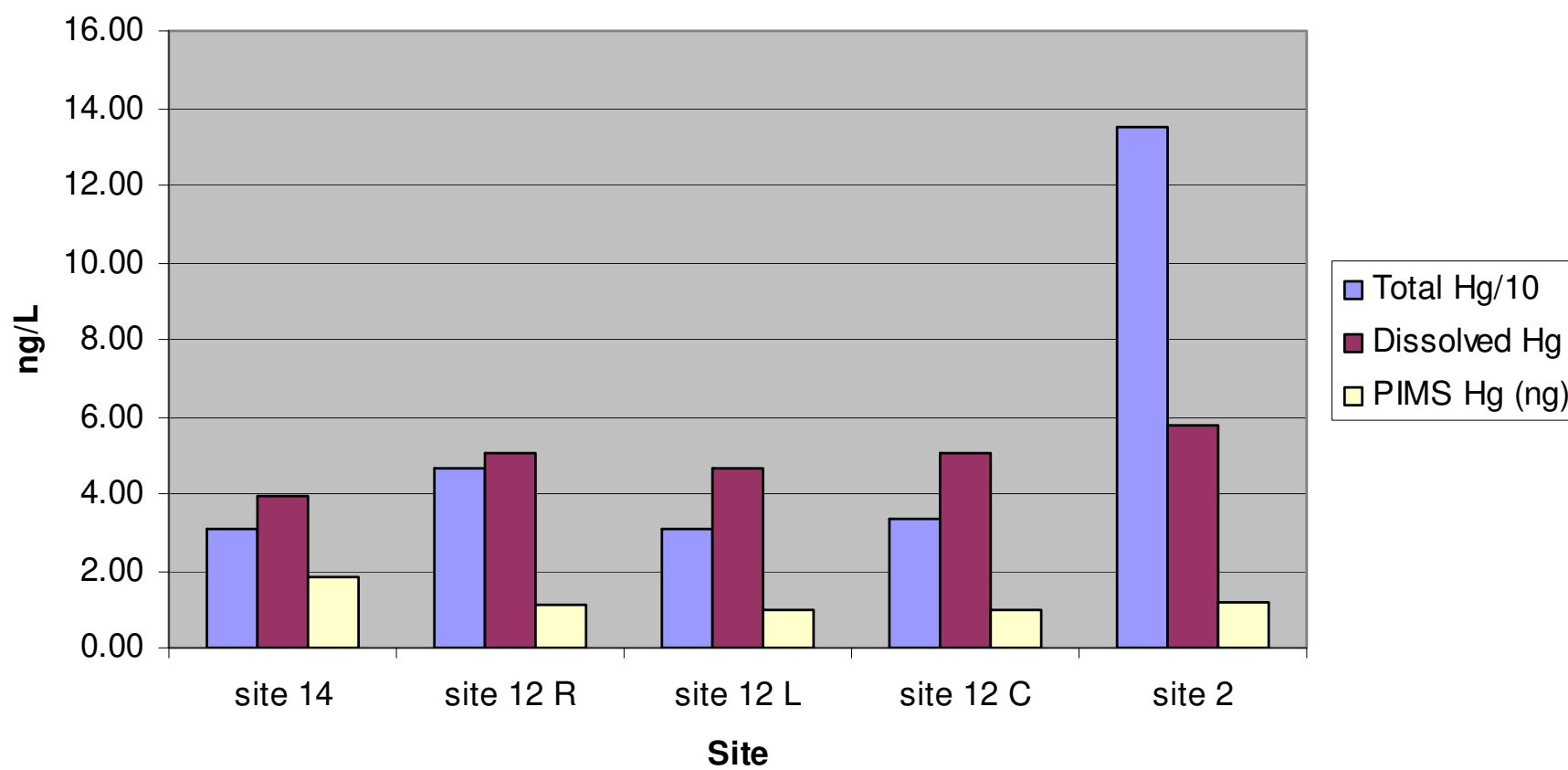
Passive Integrating Hg Sampler
(PIMS) Results







PIMS Results



Extraordinary Contributors

