

BIGHT'08 SEDIMENT CHEMISTRY SAMPLING GUIDE

Bight'08 Coastal Ecology Field Operations Manual – Appendix G

	Jar Size	Jar Type	Scoop	Storage Temperature	Preservative	Holding time	Notes
Metals	250 mL	borosilicate glass, wide mouth, Teflon lined lid	Stainless Steel (SS)	Frozen	none	6 months Hg/1 yr all else	
Organics	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
Grain Size	100 mL	Plastic snap or screwtop lid	SS/Plastic	Refrigerated	none	6 months	
TOC/TN	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS/Plastic	Frozen	none	1 yr	
TP & Domoic Acid	125 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
Pyrethroids	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
AVS/SEM	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
PBDEs	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
Toxicity	5 x 1.0L	HDPE wide Mouth with screwtop lid	Plastic	Refrigerated	none	2 weeks	Minimum of 2.5 L required; transport to laboratory within 3 days
Toxicity/Chemistry Comparison	250 mL	borosilicate glass, wide mouth, Teflon lined lid	SS	Frozen	none	1 yr	
Infauna	0.25 - 4L, varies by sample volume	HDPE or plastic wide Mouth	N/A	Room	Relax with Epsom salts, then 10% buffered Formalin	1 yr	Bring range of jar sizes, multiple jars can also be used
Forams	125 mL	Whirlpack	SS/Plastic	Refrigerated	none	3 month till staining	
PPCP & Microbiology	3 containers: 125 mL (PPCP); 250 mL sediment and 3 L seawater (Micro)	borosilicate glass, wide mouth, Teflon lined lid for sediment PPCP; Plastic for both sediment and seawater for Micro	SS	Freeze PPCP Refrigerate Micro	none	ASAP	Ship micro < 24h to NOAA Lab
Irgarol	Two containers: 125 mL sediment, 1 L seawater	borosilicate glass, wide mouth, Teflon lined lid	SS	Refrigerated	none	ASAP	Ship micro < 24h to NOAA Lab

Sample Handling Instructions

1. Metals-250 ml glass jar-frozen. If your laboratory is not doing analysis, ship to SCCWRP on dry ice. If you are contractually obligated to use a specific laboratory for analysis, you may ship it directly, but send a copy of the chain of custody to SCCWRP.
2. Organics-250 ml glass jar-frozen. If your laboratory is not doing analysis, ship to SCCWRP on dry ice. If you are contractually obligated to use a specific laboratory for analysis, you may ship it directly, but send a copy of the chain of custody to SCCWRP.
3. TOC/TN-250 ml glass jar-frozen. If your laboratory is not doing analysis, ship to SCCWRP on dry ice. If you are contractually obligated to use a specific laboratory for analysis, you may ship it directly, but send a copy of the chain of custody to SCCWRP.
4. Grain size-100 ml plastic-refrigerated. If your laboratory is not doing analysis, ship to SCCWRP on ice.
5. Toxicity-1 L plastic (3-5) -refrigerated. If your laboratory is not doing analysis, ship to SCCWRP on ice within 48 hr of collection. If your laboratory is doing analysis on *Eohaustorius* and not SWI, retain two of liter containers and ship the other three to SCCWRP and vice versa.
6. Toxicity/Chemistry Comparison- 250 ml glass-frozen. Ship to SCCWRP on dry ice.
7. Pyrethroids-250 ml glass-frozen. If your laboratory is not doing analysis, ship to SCCWRP on dry ice. If you are contractually obligated to use a specific laboratory for analysis, you may ship it directly, but send a copy of the chain of custody to SCCWRP.
8. PBDE-250 ml glass-frozen. Ship to SCCWRP on dry ice.
9. AVS/SEM-250 ml glass-frozen. Ship to SCCWRP on dry ice.
10. Domoic acid/TP-125 ml glass-frozen. Ship to SCCWRP on dry ice.
11. Pharmaceuticals-250 ml glass-frozen. Ship to SCCWRP on dry ice.
12. Sediment TIE-1 L plastic (4)-refrigerated. Ship to SCCWRP on ice within 48 hr of collection.
13. Irgarol-1 L glass (for water) and 125 ml glass (for sediment)-refrigerated. Ship directly to NOAA (Yelena Sapozhnikova 331 Fort Johnson Rd Charleston, SC 29412 843-762-8880 phone 843-762-8737 fax) on ice within 48 hr of collection. **Do not ship on Fridays, hold until Monday.**

14. Bacteriology-3 L plastic (for water) and 250 ml plastic (for sediment)-refrigerated. Ship directly to NOAA, NOS, CCEHBR Lab c/o Janet Moore 219 Fort Johnson Rd. Charleston, SC 29412-9110 843-762-8511, on ice with 24 hr of collection. **Do not ship on Fridays, hold until Monday.**
15. Forams-125 ml whirlpack-refrigerated. Ship to SCCWRP on ice.