

APPENDIX G

B'13 SEDIMENT SAMPLING GUIDE

Bight'13 Contaminant Impact Assessment Field Operations Manual – Appendix G

| Constituent | Jar Size | Jar Type | Scoop | Storage Temperature | Preservation | Holding Time | Notes |
|---------------------------------|-------------------------|---|----------------------|----------------------------|--|----------------------------|--|
| Grain Size | 118 ml | Plastic snap or screwtop lid | SS/Plastic | Refrigerated | None | 6 months | 100 ml sample size |
| TOC/TN | 250 ml | Borosilicate amber glass, wide mouth, Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) |
| Metals | 250 ml | Borosilicate amber glass, wide mouth, Teflon lined lid | Stainless Steel (SS) | Frozen | None | 6 months Hg /1 yr all else | 200 ml sample size (jar filled ~80%) |
| Organics | 250 ml* | borosilicate amber glass, wide mouth, Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) *If to LACSD- 2 125 ml jars, ~80% full |
| Pyrethroid Pesticides | 250 ml | borosilicate amber glass, wide mouth, Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) |
| PBDE | 250 ml | borosilicate amber glass, wide mouth, Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) |
| Alkylphenols | 250 ml | borosilicate amber glass, wide mouth, Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) |
| Perfluorinated Compounds | 250 ml | borosilicate amber, wide mouth, without a Teflon lined lid | SS | Frozen | None | 1 yr | 200 ml sample size (jar filled ~80%) |
| Toxicity | 5 X 1.0L | HDPE wide Mouth with Teflon lined lid | Plastic | Refrigerated | None | 2 weeks | Minimum of 5 L required; transport to laboratory within 3 days |
| Toxicity (+ Polychaete) | 7 X 1.0L | HDPE wide Mouth with Teflon lined lid | Plastic | Refrigerated | None | 2 weeks | Minimum of 7 L required; transport to laboratory within 3 days |
| Toxicity (TIE) | 12 X 1.0L | HDPE wide Mouth with screwtop lid | Plastic | Refrigerated | None | 2 weeks | Minimum of 7 L required; transport to laboratory within 3 days |
| Infauna | varies by sample volume | HDPE or plastic wide Mouth | N/A | Room | Relax with Epsom salts, then 10% buffered Formalin | | Bring range of jar sizes, multiple jars can also be used |

Sample Handling Instructions

1. Grain size-100 ml plastic-refrigerated. If your laboratory is not doing analysis, ship to SCCWRP on ice.
2. 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.
3. 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 (2x 125 ml if to LACSD). 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. Pyrethroid pesticides- 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.
5. PBDE-250 ml glass-frozen. Ship to SCCWRP on dry ice.
6. Perfluorinated compounds- 250 ml glass-frozen no Teflon lined lid. 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.
7. Alkylphenols- 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. Toxicity- 1 L plastic (5) -refrigerated. If your laboratory is not doing analysis, ship to SCCWRP on ice within 72 hr of collection. If your laboratory is doing analysis on *Eohaustorius* and not *Mytilus*, retain two of liter containers and ship the other three to SCCWRP and vice versa.
9. Polychaete + Toxicity- 1 L plastic (7) -refrigerated. If your laboratory is not doing analysis, ship to SCCWRP on ice within 72 hr of collection. If your laboratory is performing any three of the analyses (*Eohaustorius Mytilus or Neanthes*), retain the appropriate volumes (3 L, 2 L, 2 L respectively) and ship the remaining volumes to SCCWRP. Call Darrin Greenstein with any questions
10. Sediment TIE-1 L plastic (12)-refrigerated. Ship to SCCWRP on ice within 72 hr of collection.