

TABLE 4-1 ANALYTICAL METHODS FOR SEDIMENT, TISSUE, AND RINSATE ANALYSES

Parameter	Method	Reference Method	Matrix	Reference
SAMPLE PREPARATION				
Metals Digestion	Nitric Acid - Hydrogen Peroxide	3050A	S,T	EPA, 1997
Total Metals Digestion	Nitric Acid	3020A	W	EPA, 1997
Total Recoverable Metals Digestion	Nitric Acid - Hydrochloric Acid	3005A	W	EPA, 1997
Semivolatile Organics Extraction	Continuous Liquid/Liquid Extraction	3520A	W	EPA, 1997
Semivolatile Organics Extraction	Soxhlet Extraction	3540A	S,T	EPA, 1997
ORGANICS - EXTRACTION CLEANUP				
Gel Permeation Cleanup (GPC)	Size Exclusion Procedure	3640A	T	EPA, 1997
Sulfur Cleanup	Treatment with Cu, Hg, or TBA-sulfite	3660B	S	EPA, 1997
Sulfuric Acid Cleanup	Treatment with Sulfuric Acid	3665A	S,T	EPA, 1997
ORGANICS				
Dioxins/Furans	HRGC/HRMS	1613	S,T,W	EPA, 1990
Lipids	Gravimetric	Bligh	T	EAL, 1997
Organochlorine Pesticides	Gas Chromatography - ECD	8080A	S,T,W	EPA, 1997
Polychlorinated Biphenyl Congeners	Gas Chromatography - ECD	NOAA	S,T,W	EPA, 1984
Polynuclear aromatic hydrocarbons (PAH)	HPLC - UV, fluorescence	8310	S,T,W	EPA, 1997
Tributyltins	Gas Chromatography - FPD	Uhler	S,T,W	Uhler, 1989
Total Organic Carbon	Oxidation - Infrared	9060	S	EPA, 1997
METALS				
Antimony	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Arsenic	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Cadmium	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Chromium	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Copper	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Lead	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Mercury	Atomic Absorption - Cold Vapor	7470A	W	EPA, 1997
Mercury	Atomic Absorption - Cold Vapor	7471A	S,T	EPA, 1997
Nickel	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Phosphorus	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Selenium	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Silver	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997
Zinc	Atomic Emission - ICP	6010A	S,T,W	EPA, 1997

TABLE 4-1 CONTINUED.

Parameter	Method	Method	Matrix	Reference
INORGANIC NONMETALS				
Fluoride	Ion Chromatography	300.0	S	EPA, 1984
PHYSICAL DETERMINATIONS				
Grain Size Distribution	Sieve Analysis	ASTM-D422	S	ASTM,1986
Solids, total	Gravimetric - 103-105C	ASTM-D2216	S	ASTM,1986

Matrix codes:

- S - Sediments
- W - Water (Rinsate Blanks)
- T - Tissue

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- Uhler, 1989 Uhler, A.D. & G.S. Durrel. 1989. Measurement of Tributyltin species in sediments by n-pentyl Derivation with Gas chromatogrphy/flame phometric detection (GC/FPD). Bat