APPENDIX F

SUMMARY OF LIMITS OF DETECTION FOR THE RECOMMENDED TARGET ANALYTES

Table F-1. Summary of Limits of Detection for the Recommended Target Analytes[a]

Target Analyte	Detection Limits[b] (ppb)
Metals	
Arsenic (inorganic)[c]	5
Cadmium[d]	5
Mercury[e]	1.3
Selenium[f]	17
Tributyltin[g]	2
Organochlorine Pesticides[h]	
Chlordane (total)	1
cis-Chlordane	
trans-Chlordane	
cis-Nonachlor	
trans-Nonachlor	
Oxychlordane	
DDT (Total)	
4,4'-DDT	0.1
1,4'-DDT	
4,4'-DDD	
2,4'-DDD	
4,4'-DDE	
2,4'-DDE	
Dicofol	1
Dieldrin	0.1
Endosulfan (Total)	5
Endosulfan I	
Endosulfan II	
Endrin	0.1
Heptachlor epoxide	0.1
Hexachlorobenzene	0.1
Lindane	0.1
Mirex	0.1
Toxaphene	3
Organophosphate Pesticides[i]	
Chlorpyrifos	2
Diazinon	2
Disulfoton	2
Ethion	2
Turbufos	2

(continued)

Table F-1 (continued)

Target Analyte	Detection Limits[b] (ppb)
Chlorophenoxy Herbicides[h]	
Oxyfluorfen	10
PAHs[j]	1 ppt
PCBs (Total Aroclors)[h]	20
Dioxins/Furans (Total)[k]	1 ppt

PAHs = Polycyclic aromatic hydrocarbons.
PCBs = Polychlorinated biphenyls.

[a] Detection limit provided for analysis of tissue on a wet weight basis.
[b] Limit of detection shown is lowest value identified. For further information, see Table 8-4, Volume 1, of this series.
[c] Analysis by hydride generation atomic absorption spectrophotometry (HAA) with preconcentration (E. Crecelius, Battelle Pacific Northwest Laboratories, Marine Sciences Laboratory, Sequim, WA, personal communication, July 1999).
[d] Analysis by graphite furnace atomic absorption spectrophotometry (GFAA).
[e] Analysis by cold vapor atomic absorption spectrophotometry (CVAA).
[f] Analysis by hydride generation on atomic absorption spectrophotometry (HAA).
[g] Analysis by gas chromatography/flame photometric detection (GC/FPD) (E. Crecelius, Battelle Pacific Northwest Laboratories, Marine Sciences Laboratory, Sequim, WA, personal communication, July 1999).
[h] Analysis by gas chromatography/electron capture detection (GC/ECD), except where otherwise noted. GC/ECD does not provide definitive compound identification, and false positives due to interferences are commonly reported. Confirmation by an alternative GC column phase (with ECD), or by GC/MS with selected ion monitoring, is required for positive identification of PCBs, organochlorine pesticides, and chlorophenoxy herbicides.
[i] Analysis by gas chromatography/nitrogen-phosphorus detection (GC/NPD).
[j] Analysis by gas chromatography/mass spectrometry (GC/MS). Detection limits of $\leq$1 ppb can be achieved using high-resolution gas chromatography/mass spectrometry (HRGC/HRMS).
[k] Analysis by high-resolution GC/high-resolution mass spectrometry (HRGC/HRMS).