Attachment 3 – Analytical methods

Parameter	Technology	Method Reference
Trace Metals (fresh water)	ICP/MS ICP/OES (if necessary)	EPA 1638 EPA 200.7
Trace Metals (salt water)	ICP/MS	EPA 1640
Trace Metals (soil/sediment)	ICP/MS	EPA 1638
Trace Metals (tissue)	ICP/MS	EPA 1638
Trace Mercury (all water, soil/ sediment, and tissue)	CVAF	EPA 1631 / 1631E
Arsenic Speciation III (trivalent, 7778-43-0) and V (pentavalent, 7778-43-0)	HG-CT-GC-AAS	EPA 1632
Methyl Mercury (water)	Purge & Trap CVAF	EPA 1630
Sample Preparation (digestion for all matrices)	Various	Submit SOP's for approval
Sample Preparation (preconcentration)	Various	EPA 1640 (or equivalent)
Media/Supplies Cleaning (for example - Teflon or silicone tubing, in-line sampling filters, strainers, etcetera)	Various	EPA 1669

Attachment 3 – ACRONYMS

CVAF – Cold Vapor Atomic Fluorescence
EPA – U.S. Environmental Protection Agency
ICP/MS – Inductively Coupled Plasma Mass Spectrometry
ICP/OES – Inductively Coupled Plasma Optical Emission spectroscopy
SOP – Standard Operating Procedure