

Soil & Solid Waste Matrices				
Item No.	Parameter / Analyte (or Group)	Method ID / Reference	Technique / Instrument	Typical Reporting Limit (or Range)*
S-01	Gasoline Range Organics (C ₆ –C ₁₀ , GRO)	Alaska AK101 / EPA 8015C	GC-FID or GC-PID/FID	0.05 – 10 000 mg/kg
S-02	Diesel Range Organics (C ₁₀ –C ₂₅ , DRO)	Alaska AK102	GC-FID	0.05 – 10 000 mg/kg
S-03	Residual Range Organics (C ₂₅ –C ₃₄ , RRO)	Alaska AK103	GC-FID	0.1 – 20 000 mg/kg
S-05	Semi-Volatile Organic Compounds (SVOCs) incl. PAHs, phenols, phthalates	EPA 8270D (SW-846)	GC-MS	20 µg/kg – 500 mg/kg
S-06	Polychlorinated Biphenyls (Aroclors)	EPA 8082A	Dual-column GC-ECD	40 µg/kg – 500 mg/kg
S-07	Organochlorine Pesticides (OCPs)	EPA 8081B	GC-ECD	40 µg/kg – 500 mg/kg
S-08	Toxic Metals (As, Cd, Cr, Pb, etc.)	EPA 6020B (SW-846)	ICP-MS	0.1 – 10 000 mg/kg
S-09	Mercury (Total)	EPA 7471B	CV-AAS or ICP-MS	0.05 – 20 mg/kg
S-10	Nitroaromatic & Nitramine Explosives (TNT, RDX, HMX)	EPA 8330B	HPLC-UV	0.1 mg/kg – 2 000 mg/kg
Water Matrices (Drinking, Ground, Surface, Wastewater)				
Item No.	Parameter / Analyte	Method ID / Reference	Technique / Instrument	Typical Reporting Limit*
W-01	Trace Metals (21 elements)	EPA 200.8 (ICP-MS)	ICP-MS	0.1 µg/L – 5 mg/L
W-05	pH	EPA 150.1	Electrometric	2 – 12 pH units
W-06	Total Dissolved Solids	EPA 160.1 / SM 2540 C	Gravimetric	10 mg/L – 100 000 mg/L
W-08	Semi-Volatile Organic Compounds (SVOCs)	EPA 8270D	GC-MS	0.5 µg/L – 200 µg/L
W-09	Total Petroleum Hydrocarbons – GRO / DRO	Alaska AK101 / AK102	GC-FID	0.05 mg/L – 50 mg/L
W-11	Sulfolane	Modified EPA 8270D	GC-MS (SIM)	5 µg/L – 500 µg/L
Air and Gas Matrices				
Item No.	Parameter / Analyte	Method ID / Reference	Technique / Instrument	Typical Reporting Limit*
A-03	Lead (Pb) on Filters	EPA IO-3.5	ICP-MS / GF-AAS	0.005 µg/m³
A-05	Industrial Solvents (Benzene, etc.)	NIOSH 1501	Charcoal Tube + GC-FID	0.1 ppm
Biological and Tissue Samples (supporting Subsistence/ Food chain studies)				
Item No.	Parameter	Method ID	Technique	Typical Reporting Limit*
B-01	Metals (As, Cd, Hg, Pb, etc.) in Tissue	EPA 6020B after EPA 3052 digestion	ICP-MS	0.02 mg/kg – 10 mg/kg
B-02	PCBs (Aroclors) in Tissue	EPA 8082A	GC-ECD	0.1 mg/kg – 5 mg/kg