Table A-5. Analytical Methods, Sample Containers, Preservation, and Holding Times

Bremerton Gas Works Superfund Site
Bremerton, Washington

Sample Matrix	Analytical Parameter	Analytical Method	Sample Container	No. Containers	Preservation Requirements	Holding Time
Soil	Petroleum Hydrocarbon Identification	NWTPH-HCID	8 ounce jar	1	4°C ±2°C	14 days for extraction; 40 days for analysis
	VOCs	Method 8260C	Method 5035A, 40-ml vials, 2 ounce jar	5	4°C ±2°C, Freeze within 48 hours to <-7°C, Methanol, Sodium Bisulfate	14 days
	Low-level PAHs	Method 8270D-SIM	8 ounce jar	1	4°C ±2°C	14 days for extraction; 40 days for analysis
	Metals	Method 200.8/7471A	4 ounce jar	1	4°C ±2°C	6 months, Hg-28 days
	SVOCs	Method 8270D	8 ounce jar	1	4°C ±2°C	14 days for extraction; 40 days
	Pesticides	Method 8081B	8 ounce jar	1	4°C ±2°C	14 days for extraction; 40 days
	PCBs	Method 8082	8 ounce jar	1	4°C ±2°C	14 days for extraction; 40 days
	Cyanide	Method 9012	4 ounce jar	1	4°C ±2°C	14 days
	Grain Size	ASTM D422	8 ounce jar	4	none	n/a
	Atterberg Limits	ASTM D4318	8 ounce jar	2	none	n/a
	Total Organic Carbon	Plumb	4 ounce jar	1	4°C ±2°C	14 days
Groundwater	Petroleum Hydrocarbon Identification	NWTPH-HCID	500-mL Amber Glass, 40-mL VOA vial	2 ea	4°C ±2°C, HCl	7 days for extraction, 40 days for analysis
	VOCs	Method 8260C	40-mL VOA Vials	3	4°C ±2°C, 2 with HCl pH < 2, 2 without HCl	14 days for analysis
	Low-level PAHs	Method 8270D-SIM	500-mL Amber Glass	2	4°C ±2°C	7 days for extraction, 40 days for analysis
	SVOCs with low-level PAHs	Method 8270D	500-mL Amber Glass	2	4°C ±2°C	7 days for extraction, 40 days for analysis
	Metals, total/dissolved (field filter)	Method 200.7/200.8	500-mL HDPE	1	4°C ±2°C, HNO3 pH < 2 (after filtration)	180 days
	Dissolved Sulfide	Method 376.2	500-mL HDPE	1	4°C ±2°C, Zinc Acetate and NaOH pH > 9 (after filtration)	7 days
	Chloride	SM4500-Cl	250-mL HDPE	1	none	28 days
	Cyanide, Total	SM4500-CN	500-mL HDPE	1	NaOH, pH>12	14 days
	Dissolved Organic Carbon	SM5310B	250-mL Amber glass	1	H2SO4 ph<2, ≤6°C, (after filtration)	28 days
	Nitrogen as Nitrate	353.2/9056	500-mL HDPE	1	≤6°C	48 hours
	Nitrogen as Nitrite	353.2/9056	500-mL HDPE	1	≤6°C	48 hours
	Sulfate	300.0/9056	500-mL HDPE	1	≤6°C	28 days
	Manganese, dissolved	Method 200.7/200.8	500-mL HDPE	1	4°C ±2°C, HNO3 pH < 2 (after filtration)	180 days
	Alkalinity	SM 2320B-97	500-mL HDPE	1	≤6°C	14 days
NAPL	Viscosity/Density	ASTM D445, D1481	250-mL Amber Glass	1	none	none
	Flash Point	ASTM D93	250-mL Amber Glass	1	none	none