

Parameter	Matrix	Preparation Method	Analytical Method	Container	Preservative	Holding Time (a)
Gasoline Range Organics (GRO)	Aqueous	5030	8015, AK101, NWTPH-Gx	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	7 days (unpreserved) , 14 days (preserved)
Gasoline Range Organics (GRO)	Soil, Sediment	5035	8015, AK101, NWTPH-Gx	3 x 5035 kit or MeOH pres. Vial	Cool 4°C/ Freeze <-7°C	48 hours (4°C) to freeze, 14 days to analysis
MTBE, BTEX	Aqueous	5030	8021B	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	7 days (unpreserved) , 14 days (preserved)
MTBE, BTEX	Soil, Sediment	5035	8021B	3 x 5035 kit or MeOH pres. Vial	Cool 4°C/ Freeze <-7°C	48 hours (4°C) to freeze, 14 days to analysis
Volatile Petroleum Hydrocarbons (VPH)	Aqueous	5030	WA TPH PM VPH	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	7 days (unpreserved) , 14 days (preserved)
Volatile Petroleum Hydrocarbons (VPH)	Soil, Sediment	5035	WA TPH PM VPH	3 x 5035 kit or MeOH pres. Vial	Cool 4°C/ Freeze <-7°C	48 hours (4°C) to freeze, 14 days to analysis
Diesel Range Organics (DRO)	Aqueous	3510	8015, AK102, NWTPH-Dx	500 mL Amber Glass	Cool 4°C, pH <2 HCl	14 days to extraction, 40 days to analysis
Diesel Range Organics (DRO)	Soil, Sediment	3550	8015, AK102, NWTPH-Dx	4 oz Glass	Cool 4°C	14 days to extraction, 40 days to analysis
Residual Range Organics (RRO)	Aqueous	3510	8015, AK103, NWTPH-Dx	500 mL Amber Glass	Cool 4°C, pH <2 HCl	14 days to extraction, 40 days to analysis
Residual Range Organics (RRO)	Soil, Sediment	3550	8015, AK103, NWTPH-Dx	4 oz Glass	Cool 4°C	14 days to extraction, 40 days to analysis
Extractable Petroleum Hydrocarbons (EPH)	Aqueous	3510	WA TPH PM EPH	500 mL Amber Glass	Cool 4°C, pH <2 HCl	14 days to extraction, 40 days to analysis
Extractable Petroleum Hydrocarbons (EPH)	Soil, Sediment	3550	WA TPH PM EPH	4 oz Glass	Cool 4°C	14 days to extraction, 40 days to analysis
Volatile Organic Compounds (VOCs)	Aqueous	5030	8260C	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	7 days (unpreserved) , 14 days (preserved)
Volatile Organic Compounds (VOCs)	Soil, Sediment	5035	8260C	3 x 5035 kit, MeOH pres. vial	Cool 4°C, Freeze <-7°C	48 hours (4°C) to freeze, 14 days to analysis
Ethylene Dibromide (EDB)	Aqueous	5030	8011	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	7 days (unpreserved) , 14 days (preserved)
Priority Pollutant VOCs	Aqueous	NA	624	3 x 40 mL Vial	Cool 4°C, pH <2 HCl	14 days
Volatile Organic Compounds (VOCs)	Vapor	NA	8260C	Tedlar Bag	None	3 days

Volatile Organic Compounds (VOCs)	Vapor	NA	TO-15	Summa Canister	None	30 days
Semivolatile Organic Compounds (SVOCs)	Aqueous	3510	8270D	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Semivolatile Organic Compounds (SVOCs)	Soil, Sediment	3550	8270D	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Priority Pollutant SVOCs	Aqueous	NA	625	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Polynuclear Aromatic Hydrocarbons (PAHs)	Aqueous	3510	8270D SIM	500 mL Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Polynuclear Aromatic Hydrocarbons (PAHs)	Soil, Sediment	3550	8270D SIM	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Organochlorine Pesticides	Aqueous	3510	8081	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Organochlorine Pesticides	Soil, Sediment	3550	8081	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Polychlorinated Biphenyls (PCBs) as Aroclors	Aqueous	3510	8082	1 L Amber Glass	Cool 4°C	1 year
Polychlorinated Biphenyls (PCBs) as Aroclors	Soil, Sediment	3550	8082	4 oz Glass	Cool 4°C	1 year
Organochlorine Herbicides	Aqueous	3500	8151	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Organochlorine Herbicides	Soil, Sediment	3550	8151	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Organophosphorus Pesticides	Aqueous	3510	8081	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Organophosphorus Pesticides	Soil, Sediment	3550	8081	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Explosives	Aqueous	NA	8330	1 L Amber Glass	Cool 4°C	7 days to extraction, 40 days to analysis
Explosives	Soil, Sediment	NA	8330	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Dioxins/Furans	Aqueous	NA	8280, 8290, 1613	1 L Amber Glass	Cool 4°C	28 days to extract, 45 days to analysis
Dioxins/Furans	Soil, Sediment	NA	8280, 8290, 1613	4 oz Glass	Cool 4°C, Freeze <-7°C	28 days to extract, 1 year if frozen

PCB Congeners	Aqueous	NA	1668	1 L Amber Glass	Cool 4°C, pH <2 HCl	1 year
PCB Congeners	Soil, Sediment	NA	1668	4 oz Glass	Cool 4°C	1 year
1,4 Dioxane	Aqueous	5030	8260C	3 x 40 mL Vial	Cool 4°C	7 days to extraction, 40 days to analysis
1,4 Dioxane	Soil, Sediment	5035	8260C	4 oz Glass	Cool 4°C	14 days to extractions, 40 days to analysis
Perchlorate	Aqueous	NA	314.1	500 mL HDPE	Cool 4°C	28 days
Perchlorate	Soil, Sediment	NA	314.1	4 oz Glass	Cool 4°C	28 days
Alcohols	Aqueous	NA	8015	3 x 40 mL Vial	Cool 4°C	30 days
Alcohols	Soil, Sediment	NA	8015	4 oz Glass	Cool 4°C	30 days
Glycols	Aqueous	NA	8015	3 x 40 mL Vial	Cool 4°C	14 days
Glycols	Soil, Sediment	NA	8015	4 oz Glass	Cool 4°C	14 days
Metals (except Mercury)	Aqueous	3005	6010, 6020, 200.8	500 mL HDPE	Cool 4°C, pH <2 HNO ₃	6 months
Metals (except Mercury)	Soil, Sediment	3050	6010, 6020, 200.8	4 oz Glass	Cool 4°C	6 months
Mercury	Aqueous	3005	1631, 7470	500 mL HDPE	Cool 4°C, pH <2 HNO ₃	28 days
Mercury	Soil, Sediment	3050	1631, 7471	4 oz Glass	Cool 4°C	28 days
Hexavalent Chromium	Aqueous	NA	SM3500-CR-D	500 mL HDPE	Cool 4°C	28 days
Hexavalent Chromium	Soil, Sediment	NA	SM3500-CR-D	4 oz Glass	Cool 4°C	30 days to extraction, 7 days to analysis
Waste Characterization Parameters						
TCLP Metals	Solid	1311, 3005	6010, 6020, 200.8	4 oz Glass	Sample - Cool 4°C TCLP	

TCLP Mercury	Solid	1311, 3005	1631, 7470	4 oz Glass	Sample - Cool 4°C TCLP	28 days to extraction, 28 days to analysis
TCLP VOCs	Solid	1311, 5030	8260C	4 oz Glass	Sample - Cool 4°C TCLP	
TCLP SVOCs	Solid	1311, 3510	8270D	4 oz Glass	Sample -Cool 4°C, TCLP	
TCLP Pesticides	Solid	1311, 3510	8081, 8082	4 oz Glass	Cool 4°C	
Ignitability (Flashpoint)	Liquid	NA	1010	40 mL Vial	Cool 4°C	
Ignitability (Flashpoint)	Solid	NA	1030	4 oz Glass	Cool 4°C	
Corrosivity (pH)	Liquid	NA	9040	40 mL Vial	Cool 4°C	
Corrosivity (pH)	Solid	NA	9045	4 oz Glass	Cool 4°C	
BTU	NAPL	NA	NA	40 mL Vial	None	
BTU	Solid	NA	NA	4 oz Glass	None	
General Chemistry Parameters						
SPLP Extraction	Soil	1312	NA	4 oz Glass	Cool 4°C	Per analytical method
Dissolved Gasses	Aqueous	NA	RSK 175	3 x 40 mL Vial	Cool 4°C	14 days
Volatile Fatty Acids	Aqueous	NA	SM5560C	500 mL HDPE	Cool 4°C	Analyze ASAP
Acidity	Aqueous	NA	305.1, SM2310B	500 mL HDPE	Cool 4°C	14 days
Alkalinity	Aqueous	NA	310.1, SM2320B	500 mL HDPE	Cool 4°C	14 days
Ammonia	Aqueous	NA	SM4500-NH3H	500 mL HDPE	Cool 4°C, pH <2 H2SO4	28 days
Biological Oxygen Demand (BOD)	Aqueous	NA	405.1, SM5210B	1 L HDPE	Cool 4°C	48 hours

Chemical Oxygen Demand (COD)	Aqueous	NA	410.4, SM5220C	500 mL HDPE	Cool 4°C, pH <2 H2SO4	28 days
Bromide	Aqueous	NA	300.0, 9056	500 mL HDPE	Cool 4°C	28 days
Chloride	Aqueous	NA	325.1, SM4500- Cl-E	500 mL HDPE	Cool 4°C	28 days
Chlorine, Total residual	Aqueous	NA	SM4500-Cl-B	500 mL HDPE	Cool 4°C	Analyze ASAP
Color	Aqueous	NA	110.2, SM2120B	500 mL HDPE	Cool 4°C	48 Hours
Total Cyanide	Aqueous	NA	335.2, 9010, SM4500-F-C	500 mL HDPE	Cool 4°C	14 days
Total Cyanide	Soil, Sediment	NA	SM4500	4 oz Glass	Cool 4°C/NaOH	14 days
Amenable Cyanide	Aqueous	NA	335.1, 9010, SM4500-CN-G	500 mL HDPE	Cool 4°C/NaOH	14 days
Ferrous Iron	Aqueous	NA	SM3500-FE-D	500 mL HDPE	Cool 4°C	Analyze ASAP
Fluoride	Aqueous	NA	340.2, 9214, SM4500-F-C	500 mL HDPE	Cool 4°C	28 days
Hardness	Aqueous	NA	SM2340B	500 mL HDPE	1 mL 1:1 HNO3	6 months
Hexane Extractable Materials	Aqueous	NA	1664	1 L Amber Glass	4 mL 1:1 H2SO4	28 days
Hexane Extractable Materials	Soil, Sediment	NA	9071	4 oz Glass	Cool 4°C	28 days
Moisture Content	Soil, Sediment	NA	160.3	4 oz Glass	Cool 4°C	NA
Total Kjeldahl Nitrogen (TKN)	Aqueous	NA	351.2	500 mL HDPE	1 mL 1:1 H2SO4	28 days
Nitrate - Nitrogen	Aqueous	NA	353.2, SM4500-NO3F	500 mL HDPE	Cool 4°C	2 days
Nitrate + Nitrite - Nitrogen	Aqueous	NA	353.2, SM4500-NO3E	500 mL HDPE	Cool 4°C	28 days
Orthophosphate	Aqueous	NA	365.2, SM4500-P-E	500 mL HDPE	Cool 4°C, pH <2 H2SO4	28 days

Total Phenolics	Aqueous	NA	SM5530	500 mL Amber Glass	0.5 mL 1:1 H2SO4	28 days
Phosphate	Aqueous	NA	365.2, 300, 9056	500 mL HDPE	Cool 4°C, pH <2 H2SO4	28 days
pH	Aqueous	NA	9040	500 mL HDPE	Cool 4°C	24 hours
pH	Soil, Sediment	NA	9045	500 mL HDPE	Cool 4°C	28 days
Phosphorus	Aqueous	NA	SM4500-P	500 mL HDPE	0.5 mL 1:1 H2SO4	28 days
Settleable Solids	Aqueous	NA	SM2540F	500 mL HDPE	Cool 4°C	48 hours
Total Dissolved Solids (TDS)	Aqueous	NA	SM2540C	500 mL HDPE	Cool 4°C	7 days
Total Suspended Solids (TSS)	Aqueous	NA	SM2540D	500 mL HDPE	Cool 4°C	7 days
Volatile Solids	Aqueous	NA	SM2540E	500 mL HDPE	Cool 4°C	7 days
Specific Conductance	Aqueous	NA	SM2510B	500 mL HDPE	Cool 4°C	28 days
Sulfate	Aqueous	NA	SM4500	500 mL HDPE	Cool 4°C	7 days
Sulfide	Aqueous	NA	SM4500-S2-E	500 mL HDPE	Zinc Acetate + NaOH	Analyze ASAP
Sulfite	Aqueous	NA	SM4500-SO3-B	500 mL HDPE	Cool 4°C	48 hours
Temperature	Aqueous	NA	SM2550B	500 mL HDPE	NA	Analyze ASAP
Total Organic Halogens (TOX)	Aqueous	NA	9076, S5320B	500 mL HDPE	Cool 4°C, 2 mL 1:1 H2SO4	28 days
Total Organic Halogens (TOX)	Soil, Sediment	NA	9076	4 oz Glass	Cool 4°C	28 days
Turbidity	Aqueous	NA	180.1, SM2130B	500 mL HDPE	Cool 4°C	48 hours
Total Organic Carbon (TOC)	Aqueous	NA	415.1, 9060, SM5310B	500 mL HDPE	Cool 4°C, pH <2 HCl	28 days

Total Organic Carbon (TOC)	Soil, Sediment	NA	Plumb 1981	4 oz Glass	Cool 4°C	28 days
Microbiological						
Bacteria Plate Count	Aqueous	NA	9215	250 mL Sterile Nalgene	0.2 mL 10% Na2S2O3	6 hours
Chlorophyll	Aqueous	NA	0200H	250 mL Sterile Nalgene	0.2 mL 10% Na2S2O3	30 hours
Coliform, Fecal and Total	Aqueous	NA	9221, 9222, 9223	250 mL Sterile Nalgene	0.2 mL 10% Na2S2O3	6 hours