

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Acidity	WW/GW	EPA WW	305.1, 305.2	100 mL	250 mL HDPE or Glass	1		14 days
Acidity	DW	SM 19th Edition	2310 A-B	100 mL	251 mL HDPE or Glass	1		14 days
Acrolein & Acrylonitrile by GC	WW/GW	40 CFR Pt. 136 App. A	603	5 mL	2 x 40 mL VOA Vial	8, pH 4-5, 1		14 days
Acetonitrile by GC/NPD	WW/GW	EPA SW846	8033	40 mL	2 x 40 mL VOA Vial	1, pH 4-5		14 Days
Acrylonitrile by GC	WW/GW	EPA SW846	8031	40 mL	2 x 40 mL VOA Vial	1, pH 4-5		14 Days
Acrylamide by GC	WW/GW	EPA SW846	8032A	40 mL	2 x 40 mL VOA Vial	1, pH 4-5		14 Days
Acrylamide, Acrolein & Acrylonitrile by HPLC	WW/GW	EPA SW846	8316	40 mL	2 x 40 mL VOA Vial	1		14 Days
Alkalinity	WW/GW	EPA WW	310.1, 310.2	100 mL	250 mL HDPE or Glass	1		14 Days
Alkalinity	DW	SM 19th Edition	2320	200 mL	250 mL HDPE or Glass	1		14 Days
Aniline & Derivatives by GC/NPD	SE/VE/IS/IL	EPA SW846	8131	30 g	8 oz. CWM	1	14 Days	40 Days
Aniline & Derivatives by GC/NPD	WW/GW	EPA SW846	8131	1 L	1 L Amber Glass	8, 1	7 Days	14 Days
Bendiocarb by HPLC	WW/GW	40 CFR Pt. 136 App. A	639	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Bensulide by HPLC	WW/GW	40 CFR Pt. 136 App. A	636	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Betazon by HPLC	WW/GW	40 CFR Pt. 136 App. A	643	1 L	1 L Amber Glass	1, 8, pH 6-8	7 Days	30 Days
Benzidines by HPLC	WW/GW	40 CFR Pt. 136 App. A	605	1 L	2 L Glass	8, pH-4, 1, Dark	7 Days	Analyze Immediately/7 Days under N2
Biochemical Oxygen Demand (BOD)	WW/GW	EPA WW	405.1	1 L	1 L HDPE or Glass	1		48 Hours
Biochemical Oxygen Demand (BOD)	DW	SM 19th Edition	5210 A-B	1 L	1 L HDPE or Glass	1		48 Hours
Biphenyl & Ortho-Phenylphenol by HPLC	WW/GW	40 CFR Pt. 136 App. A	642	1 L	1 L Amber Glass	1		A.S.A.P.
Bis(2-chloroethyl) Ether & Hydrolysis Products	WW/GW	EPA SW846	8430	1 L	1 L Amber Glass	1		14 Days
Boron	DW	SM 19th Edition	4500-B	100 mL	250 mL HDPE	None Required		6 Month
Bromide	WW/GW	EPA WW	320.1	100 mL	250 mL HDPE or Glass	None Required		28 Days
Bromide	DW	SM 19th Edition	4500-Br-A-C	100 mL	250 mL HDPE	None Required		28 Days
Bromide by Ion Selective Electrode	SE/VE/IS/IL	EPA SW846	9211	50 g	4 ox CWM	1		28 Days
Bromide by Ion Selective Electrode	WW/GW	EPA SW846	9211	100 mL	250 mL HDPE or Glass	1		28 Days
Benomyl & Carbendazim by HPLC	WW/GW	40 CFR Pt. 136 App. A	631	1 L	1 L Amber Glass	1	7 Days	40 Days
Bromoxynil by HPLC	WW/GW	40 CFR Pt. 136 App. A	1661	10 mL	2 x 40 mL VOA Vial	1,8, pH 3-7	7 Days	40 Days
Carbon (Organic) TOC	WW/GW	EPA SW846	9060	25 mL	60 mL HDPE	2 or 7, 1		28 Days
Carbon (Organic) TOC	WW/GW	EPA WW	415.1, 415.2	25 mL	100 mL Glass	2, 1		28 Days
Carbon (Organic) TOC	DW	SM 19th Edition	5310 A-D	100 mL	125 mL Glass	1, 2		28 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Carbon Dioxide	DW	SM 19th Edition	4500-CO2 A-C	100 mL	250 mL HDPE or Glass	None Required		Analyze Immediately
Carbonyl Compounds by HPLC	SE/VE/IS/IL	EPA SW846	8315A	25 g	8 oz CWM	1	3 Days	3 Days
Carbonyl Compounds by HPLC	WW/GW	EPA SW846	8315A	100 mL	500 mL Amber Glass	1	3 Days	3 Days
Cation Exchange Capacity of Soil (Sodium Acetate)	SE/VE/IS/IL	EPA SW846	9080	25 g	8 oz CWM		N.S.	N.S.
Cation Exchange Capacity of Soil (Sodium Acetate)	SE/VE/IS/IL	EPA SW846	9081	10 g	4 oz CWM		N.S.	N.S.
Chemical Oxygen Demand (COD)	WW/GW	EPA WW	410.1, 410.2, 410.3, 410.4	50 mL	1 L Glass	1, 10		28 Days
Chemical Oxygen Demand (COD)	DW	SM 19th Edition	5220 A-D	100 mL	125 mL HDPE or Glass	1, 2		28 Days
Chlordane by Immunoassay	SE/VE/IS/IL	EPA SW846	4041	Requires test kit for screening				N.S.
Chloride	DW	SM 19th Edition	4500-Cl- A-F	50 mL	125 mL HDPE	None Required		28 Days
Chloride	WW/GW	EPA WW	325.1, 325.2, 325.3	50 mL	125 mL HDPE or Glass	None Required		28 Days
Chloride	WW/GW	EPA SW846	9250, 9251, 9253	50 mL	125 mL HDPE or Glass	None Required		28 Days
Chloride by Ion Selective Electrode	SE/VE/IS/IL	EPA SW846	9212	50 g	4 oz CWM	1		28 Days
Chloride by Ion Selective Electrode	WW/GW	EPA SW846	9212	100 mL	250 mL HDPE or Glass	1		28 Days
Chlorinated Herbicides by GC/ECD	SE/VE/IS/IL	EPA SW846	8151A	50 g	8 oz CWM	1	14 Days	14 Days
Chlorinated Herbicides by GC/ECD	WW/GW	EPA SW846	8151A	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Chlorinated Herbicides by GC	WW/GW	40 CFR Pt. 136 App. A	615	1 L	1 L Amber Glass	1	7 Days	40 Days
Chlorinated Herbicides	DW	SM 19th Edition	6640 A-B	40 mL	4 x 40 mL VOA Vial	8, 10, 1	14 Days	14 Days
Glyphosate Herbicides	DW	SM 19th Edition	6651 A-B	500 mL	500 mL HDPE	8, 1 dark		14 Days
Phenoxy-Acid Herbicides by GC	SE/VE/IS/IL	CFR 40, Pt. 136 App. A	1658	30 g	8 oz CWM	1	7 Days	40 Days
Phenoxy-Acid Herbicides by GC	WW/GW	40 CFR Pt. 136 App. A	1658	1 L	1 L Amber Glass	1,8, pH 5-9	7 Days	40 Days
Chlorinated Hydrocarbons by GC	SE/VE/IS/IL	EPA SW846	8121	30 g	8 oz CWM	1	14 Days	40 Days
Chlorinated Hydrocarbons by GC	WW/GW	EPA SW846	8121	1 L	1 L Amber Glass	1	7 Days	40 Days
Chlorinated Hydrocarbons by GC	WW/GW	40 CFR Pt. 136 App. A	612	1 L	1 L Amber Glass	1	7 Days	40 Days
Chlorine Dioxide	DW	SM 19th Edition	4500-ClO2 A-E	500 mL	1 L CWM or HDPE	None Required		Analyze Immediately
Chlorine (Total Residual)	WW/GW	EPA WW	330.1, 330.2, 330.3, 330.4, 3305.	200 mL	250 mL HDPE or Glass	None Required		Analyze Immediately
Chlorine (Total Residual)	DW	SM 19th Edition	4500-CL A-I	500 mL	500 mL HDPE or Glass	None Required		Analyze Immediately
Chlorine (Total in Petroleum Products)	SE/VE/IS/IL	EPA SW846	9075, 9076, 9077	1 g	N.S. Zero Headspace	1		N.S.

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Chlorophyll	DW	SM 19th Edition	10200 H	500 mL	1 L HDPE	Dark		30 Days
Chromium VI	SE/VE/IS/IL	EPA SW846	7196A, 7191, 7198	2 g	4 oz CWM	1		24 Hours
Chromium VI	WW/GW	EPA SW846	7196A, 7197, 7198, 7199	100 mL	250 mL HDPE or Glass	1		24 Hours
Chromium VI	WW/GW	EPA WW	218.4, 218.5, 218.6	200 mL	250 mL HDPE or Glass	1		24 Hours
Coliform, Fecal & Total	WW/GW	EPA SW846	9131, 9132	100 mL	125 mL HDPE	8, 1		6 Hours
Coliform, Fecal & Total	DW	SM 19th Edition	9221, 9222	100 mL	125 mL HDPE	1		N.S.
Color	WW/GW	EPA WW	110.1, 110.2, 110.3	50 mL	100 mL HDPE or Glass	1		48 Hours
Color	DW	SM 19th Edition	2120	500 mL	500 mL HDPE or Glass	1		48 Hours
Conductivity	DW	SM 19th Edition	2510 A-B	500 mL	500 mL HDPE or Glass	1		28 Days
Conductance, Specific	WW/GW	EPA SW846	9050A	500 mL	1 L	1		28 Days
Conductance	WW/GW	EPA WW	120.1	100 mL	250 mL HDPE or Glass	1		28 Days
Corrosivity	SE/VE/IS/IL	EPA SW846	7.2	10 g	N.S. Zero Headspace	Dark, 1		A.S.A.P.
Cyanide (Total)	WW/GW	EPA WW	335.2, 335.3, 335.4	500 mL	250 mL HDPE or Glass	4, 1, 16		14 Days
Cyanide (Total)	DW	SM 19th Edition	4500-CN G-H	500 mL	1 L HDPE	4, 1, Dark		14 Days
Cyanide (Amenable to Chlorination)	WW/GW	EPA SW846	9010B, 9012A, 9014	500 mL	1 L HDPE or Glass	16 or 17, 4, 1	14 Days	28 Days
Cyanide (Amenable to Chlorination)	DW	SM 19th Edition	4500-CN G-H	500 mL	1 L HDPE	Add 100 mg Na2S2o3/L		14 Days
Cyanide for Soil and Oil	SE/VE/IS/IL	EPA SW846	9013	50 g	4 oz CWM	1,4		14 Days
Cyanide (Amenable to Chlorination)	SE/VE/IS/IL	USEPA CLP	Exhibit D, Part E, Method 335.2	2 g	4 oz CWM	1		12 Days
Cyanide (Amenable to Chlorination)	WW/GW	USEPA CLP	Exhibit D, Part E, Method 335.2	100 mL	250 mL HDPE or Glass	8, 4, 1		12 Days
Cyanazine by HPLC	WW/GW	40 CFR Pt. 136 App. A	629	1 L	1 L Amber Glass	1	7 Days	40 Days
Dazomet by GC	WW/GW	40 CFR Pt. 136 App. A	1659	1 L	1 L Amber Glass	1, 8, pH > 9	7 Days	40 Days
1,2-Dibromomethane & 1,2-Dibromo 3-Chloroprphane by Microextraction/GC	SE/VE/IS/IL	EPA SW846	8011	5 g	4 oz CWM	1		14 Days
1,2-Dibromomethane & 1,2-Dibromo 3-Chloropropane by Microextraction/GC	WW/GW	EPA SW846	8011	5 mL	2 x 40 mL VOA Vial	8, 1		14 Days
1,2-Dibromomethane & 1,2-Dibromo 3-Chloropropane by Microextraction/GC	DW	SM 19th Edition	6231 A-C	5 mL	2 x 40 mL VOA Vial	1		28 Days
2,4-Dichlorophenoxy-acetic Acid by Immunoassay	SE/VE/IS/IL	EPA SW846	4015	Requires test kit for screening				N.S.

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
2,4-Dichlorophenoxy-acetic Acid by Immunoassay	WW/GW	EPA SW846	4015	Requires test kit for screening				N.S.
Dioxins & Furans by HRCG/HRMS	SE/VE/IS/IL	EPA SW846	8290	10 g	4 oz CWM	1	30 Days	45 Days
Dioxins & Furans by HRCG/HRMS	WW/GW	EPA SW846	8290	1 L	4 x 1 L Amber Glass	8, 1	30 Days	45 Days
Dioxins & Furans by HRCG/LRMS	SE/VE/IS/IL	EPA SW846	8280A	30 g	8 oz CWM	1	30 Days	45 Days
Dioxins & Furans by HRCG/LRMS	WW/GW	EPA SW846	8280A	1 L	4 x 1 L Amber Glass	8, 1, pH 7-9	30 Days	45 Days
DDT by Immunoassay	SE/VE/IS/IL	EPA SW846	4042	Requires test kit for screening				N.S.
Diphenylamine by GC	WW/GW	40 CFR Pt. 136 App. A	620	1 L	1 L Amber Glass	1, pH 6-8	N.S.	N.S.
Fecal Streptococci	DW	SM 19th Edition	9230	100 mL	125 mL HDPE	8, 1		6 Hours
Fluoride	DW	SM 19th Edition	4500-F-A-F	300 mL	500 mL HDPE	None Required		6 Month
Fluoride	WW/GW	EPA WW	340.1, 340.2, 340.3	300 mL	500 mL HDPE or Glass	1		28 Days
Fluoride by Ion Selective Electrode	SE/VE/IS/IL	EPA SW846	9214	50 g	HDPE	1		28 Days
Fluoride by Ion Selective Electrode	WW/GW	EPA SW846	9214	100 mL	250 mL HDPE or Glass	1		28 Days
Halides in Soil (EOX) Extractable	SE/VE/IS/IL	EPA SW846	9023	5 g	250 mL Amber Glass	1		28 Days
Haloacetic Acids in Trichlorophenol	DW	SM 19th Edition	6251 A-B	30 mL	4 x 40 mL VOA Vial	11, 1	9 Days	21 Days (at 11degrees C)
Haloethers by GC	SE/VE/IS/IL	EPA SW846	8111	30 g	8 oz CWM	1	14 Days	40 Days
Haloethers by GC	WW/GW	EPA SW846	8111	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Haloethers by GC	WW/GW	40 CFR Pt. 136 App. A	611	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Halogenated & Aromatic Volatiles by PID/ELCD GC	SE/VE/IS/IL	EPA SW846	8021B	30 g	8 oz CWM	1		14 Days
Halogenated & Aromatic Volatiles by PID/ELCD GC	WW/GW	EPA SW846	8021B	10 mL	2 x 40 mL VOA Vial	8, 1, 10		14 Days
Hardness	WW/GW	EPA WW	130.1, 130.2	100 mL	250 mL HDPE or Glass	3,1		6 Month
Hardness	DW	SM 19th Edition	2340 A-C	100 mL	250 mL HDPE or Glass	3		6 Month
Hazardous Waste Ignitability	WW/GW	EPA SW846	1010, 1020A	100 mL	500 mL B.R.	None Required		7 Days
Hazardous Waste Reactivity-Cyanide/Sulfide	SE/VE/IS/IL	EPA SW846	Chapter 7 7.3, 3.2/7.3.4.2	10 g each	4 oz CWM	1, dark, Zero Headspace		
Hazardous Waste Reactivity-Cyanide/Sulfide	WW/GW	EPA SW846	Chapter 7 7.3, 3.2/7.3.4.2	250 mL each	500 mL HDPE	1, Dark, Zero Headspace		A.S.A.P.
Hexahydro-1,3,5-Trinitro-1,3,5- Triazine (RDX) by Immunoassay	SE/VE/IS/IL	EPA SW846	4051	Requires test kit for screening				N.S.
Hydrogen Ion (pH)	WW/GW	EPA WW	150.1, 150.2	25 mL	60 mL HDPE	None Required		Analyze Immediately

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Iodide	WW/GW	EPA WW	345.1	100 mL	250 mL HDPE or Glass	1		Analyze Immediately
Iodide	DW	SM 19th Edition	4500-I- A-C	500 mL	500 mL HDPE or Glass	None Required		Analyze Immediately
Ignitability	SE/VE/IS/IL	EPA SW846	1010, 1020A	N.S.	N.S.			N.S.
Ignitability	WW/GW	EPA SW846	1010, 1020A	2 mL	N.S.	N.S.		N.S.
Ignitability for Solids	SE/VE/IS/IL	EPA SW846	1030	N.S.	N.S.	No Headspace		A.S.A.P.
Inorganic Anions by Ion Chromatography	WW/GW	EPA SW846	9056	2-3 mL	N.S.	N.S.		N.S.
Liquid Release Test (LRT) Procedure	SE/VE/IS/IL	EPA SW846	9096		N.S.	1, Dark		3 Days
MBAS (Methylene Blue Active Substance)	WW/GW	EPA WW	425.1	250 mL	500 mL HDPE or Glass	1		48 Hours
MBTS & TCMTB by LC	WW/GW	40 CFR Pt. 136 App. A	637	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Mercaptobenzothiazole by LC	WW/GW	40 CFR Pt. 136 App. A	640	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Mercury	SE/VE/IS/IL	EPA SW846	7470A, 7471A, 7472	2 g	4 oz CWM			28 Days
Mercury	WW/GW	EPA SW846	7470A, 7471A, 7472	500 mL	1 L HDPE or Glass	3, 1		28 Days
Mercury	WW/GW	EPA WW	245.1, 245.2, 245.5	100 mL	250 mL HDPE or Glass	3		28 Days
Mercury by Cold Vapor Atomic Absorption Spectrometry	SE/VE/IS/IL	USEPA CLP	Exhibit D, Part D	2 g	4 oz CWM	1		26 Days
Mercury by Cold Vapor Atomic Absorption Spectrometry	WW/GW	USEPA CLP	Exhibit D, Part D	100 mL	250 mL HDPE or Glass	3		26 Days
Metals (excl. Chromium VI & Mercury)	SE/VE/IS/IL	EPA SW846	7000A Series/601B	2 g	4 oz CWM			6 Month
Metals (excl. Chromium VI & Mercury)	WW/GW	EPA SW846	7000A Series/6010B	100 mL	400 mL HDPE or Glass	3		6 Month
Metals by Flame Atomic Absorption Spectrometry/Furnace Technique	WW/GW	EPA WW	200 Series	200 mL	250 mL HDPE or Glass	3		6 Month
Metals by Flame Atomic Absorption Spectrometry	DW	SM 19th Edition	3111A-E/ 3500	500 mL	1 L HDPE or Glass	3		6 Month
Metals by Cold Vapor Atomic Absorption Spectrometry	DW	SM 19th Edition	3112A-B/ 3500	500 mL	1 L HDPE or Glass	3, 1		6 Month
Metals by Electrothermal Atomic Absorption Spectrometry	DW	SM 19th Edition	3113A-B/ 3500	500 mL	1 L HDPE or Glass	3		6 Month
Metals by Plasma Emission Spectroscopy	DW	SM 19th Edition	6211 A-B	500 mL	1 L HDPE or Glass	3		6 Month
Metals by Inductively Coupled Plasma	WW/GW	EPA WW	200.7	100 mL	250 mL HDPE	3		6 Month
Metals by Inductively Coupled Plasma	SE/VE/IS/IL	USEPA CLP	Exhibit D, Part A, ICP-AES	2 g	4 oz CWM	1		6 Month
Metals by Inductively Coupled Plasma	WW/GW	USEPA CLP	Exhibit D, Part A, ICP-AES	100 mL	250 mL HDPE or Glass	3		6 Month

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Metals by Flame Atomic Absorption Methods, Furnace Technique	SE/VE/IS/IL	USEPA CLP	Exhibit D, Parts B-C	2 g	4 oz CWM	1		6 Month
Metals by Flame Atomic Absorption Methods, Furnace Technique	WW/GW	USEPA CLP	Exhibit D, Parts B-C	100 mL	250 mL HDPE or Glass	3		6 Month
Methane	DW	SM 19th Edition	6211 A-B	5 mL	2 x 40 mL VOA Vial	1		14 Days
Metals by ICP/MS	SE/VE/IS/IL	EPA SW846	6020	2 g	4 oz CWM			6 Month
Metals by ICP/MS	WW/GW	EPA SW846	6020	100 mL	250 mL HDPE or Glass			6 Month
Metals by ICP/MS	WW/GW	EPA WW	200.8	100 mL	250 mL HDPE or Glass			6 Month
Nitrate by Ion Selective Electrode	SE/VE/IS/IL	EPA SW846	9211	50 g	4 oz CWM	1		N.S.
Nitrate by Ion Selective Electrode	WW/GW	EPA SW846	9210	100 mL	250 mL HDPE or Glass	1, 19		48 Hours
Nitrate	DW	SM 19th Edition	4500-NO3-A-H	100 mL	250 mL HDPE or Glass	Analyze Immediately, or 1		48 Hours
Nitrogen (Organic)	DW	SM 19th Edition	4500-Norg-A-D	500 mL	250 mL HDPE or Glass	1, 2		28 Days
Nitrogen, Nitrate	DW	SM 19th Edition	4500-NO2-A-C	100 mL	250 mL HDPE or Glass	1, 2		28 Days
Nitrogen, Nitrate	WW/GW	EPA WW	352.1	100 mL	250 mL HDPE or Glass	1, 2		48 Hours
Nitrogen, Nitrate-Nitrite	WW/GW	EPA WW	353.1, 353.2, 353.3	100 mL	250 mL HDPE or Glass	1, 2		28 Days
Nitrogen, Nitrite	WW/GW	EPA WW	354.1	50 mL	100 mL HDPE or Glass	1		48 Hours
Nitroaromatics & Cyclic Ketones by GC	SE/VE/IS/IL	EPA SW846	8091	30 g	8 oz CWM	1	14 Days	40 Days
Nitroaromatics & Cyclic Ketones by GC	WW/GW	EPA SW846	8091	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Nitroaromatics & Isophorone	WW/GW	40 CFR Pt. 136 App. A	609	1 L	1 L Amber Glass	1	7 Days	40 Days
Nitroaromatics & Nitroamine by HPLC	SE/VE/IS/IL	EPA SW846	8330	30 g	8 oz CWM	1	14 Days	40 Days
Nitroaromatics & Nitroamine by HPLC	WW/GW	EPA SW846	8330	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Nitrogen, Ammonia	WW/GW	EPA WW	350.1, 350.2, 350.3	400 mL	500 mL HDPE or Glass	2, 1		28 Days
Nitrogen, Ammonia	DW	SM 19th Edition	4500-NH3 A-G	500 mL	500 mL HDPE or Glass	2, 1		28 Days
Nitrogen Organic & Kjeldahl	DW	SM 19th Edition	4500-Norg A-C	500 mL	500 mL HDPE or Glass	2, 1		28 Days
Nitrogen, Kjeldahl, Total	WW/GW	EPA WW	351.1-351.4	500 mL	500 mL HDPE or Glass	2, 1		28 Days
Nitroglycerin by HPLC	SE/VE/IS/IL	EPA SW846	8332	30 g	8 oz CWM		14 Days	40 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Nitroglycerin by HPLC	WW/GW	EPA SW846	8332	40 mL	2 x 40 mL VOA Vial	1	7 Days	40 Days
Nitrosamines by GC	SE/VE/IS/IL	EPA SW846	8070A	30 g	8 oz CWM	1	14 Days	40 Days
Nitrosamines by GC	WW/GW	EPA SW846	8070A	1 L	2.5 L A.J.	8, pH 7-10, 1, Dark	7 Days	40 Days
Nitrosamines by GC	WW/GW	40 CFR Pt. 136 App. A	607	1 L	1 L Amber Glass	8, pH 7-10, 1, Dark	7 Days	40 Days
N-Methylcarbamates by HPLC	SE/VE/IS/IL	EPA SW846	8318	30 g	8 oz CWM	1	14 Days	40 Days
N-Methylcarbamates by HPLC	WW/GW	EPA SW846	8318	1 L	1 L Amber Glass	18, 1, pH 4-5	7 Days	40 Days
Nonhalogenated Volatile Organics by GC/FID	SE/VE/IS/IL	EPA SW846	8015B	5 g	4 oz CWM	1		14 Days
Nonhalogenated Volatile Organics by GC/FID	WW/GW	EPA SW846	8015B	10 mL	2 x 40 mL, VOA Vial	8, 1, pH<2, 10		14 Days
Non-Volatile Compounds by HPLC/TS/MS or UV (Solvent extractables)	SE/VE/IS/IL	EPA SW846	8321A	30 g	8 oz CWM	1	14 Days	40 Days
Non-Volatile Compounds by HPLC/TS/MS or UV (Solvent extractables)	WW/GW	EPA SW846	8321A	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Non-Volatile Compounds by HPLC/PB/MS (Solvent Extractables)	WW/GW	EPA SW846	8325	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
NTA	WW/GW	EPA WW	430.1, 430.2	50 mL	100 mL HDPE or Glass	1		24 Hours
Odor	WW/GW	EPA WW	140.1	200 mL	250 mL Glass	1		24 Hours
Odor	DW	SM 19th Edition	2150 A-B	500 mL	500 mL Glass	1		Analyze ASAP
Oil & Grease	SE/VE/IS/IL	EPA SW846	9070, 9071A	20 g	4 oz CWM	1		28 Days
Oil & Grease	WW/GW	EPA SW846	9070, 9071A	1 L	1 L Glass	1, 10		28 Days
Oil & Grease	DW	SM 19th Edition	5520 A-F	1 L	1 L CWM	1, 10		28 Days
Oil & Grease	WW/GW	EPA WW	413.1, 413.2	1 L	1 L Glass	1, 10		28 Days
Oil & Grease	WW/GW	EPA821-R-950036	1664	1 L	1 L Glass	1 and 2 or 10		28 Days
Organophosphorus Compounds by GC	SE/VE/IS/IL	EPA SW846	8141A	30 g	8 oz CWM	1	7 Days	40 Days
Organophosphorus Compounds by GC	WW/GW	EPA SW846	8141A	1 L	1 L Amber Glass	8, 1, pH- 5-8	7 Days	40 Days
Oryzalin by HPLC	WW/GW	40 CFR Pt. 136 App. A	638	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Oxygen, Dissolved	DW	SM 19th Edition	4500-O A-G	300 mL	300 mL BOD Btl.	(1) None (2) No Iodine Demand 9, 20, 21 (3) Iodine Demand 22, 23, then 9, 20, 21		(1) Analyze Immediately (2) 8 Hours or less (3) 8 Hours or less
Oxygen, Dissolved (probe)	WW/GW	EPA WW	360.1	300 mL	300 mL BOD Btl.	None Required		Analyze Immediately
Oxygen, Dissolved (Winkler)	WW/GW	EPA WW	360.2	300 mL	300 mL BOD Btl.	14, 9/Dark		8 Hours
Ozone	DW	SM 19th Edition	4500-O3 A-B	1 L	1 L Glass	None Required		Analyze Immediately
Paint Filter Liquid Test	SE/VE/IS/IL	EPA SW846	9095A	100 g	4 oz CWM			N.S.
Paint Filter Liquid Test	WW/GW	EPA SW846	9095A	100 mL	500 mL Glass			N.S.
Pesticides, Amine & Lethane by GC	WW/GW	40 CFR Pt. 136 App. A	645	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Pesticides, Carbamate & Urea by HPLC	WW/GW	40 CFR Pt. 136 App. A	632	1 L	1 L Amber Glass	1	7 Days	40 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Pesticides, Carbamate & Amide by HPLC	WW/GW	40 CFR Pt. 136 App. A	632.1	1 L	1 L Amber Glass	1, 8, pH 2-4	7 Days	30 Days
Pesticides containing Carbon, Hydrogen & Oxygen by GC	WW/GW	40 CFR Pt. 136 App. A	616	1 L	1 L Amber Glass	1, pH 2-4	7 Days	30 Days
Pesticides, Chlorinated by GC	SE/VE/IS/IL	EPA SW846	8081A	30 g	8 oz CWM	1	14 Days	40 Days
Pesticides, Chlorinated by GC	WW/GW	EPA SW846	8081A	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Pesticides, Chlorinated	WW/GW	40 CFR Pt. 136 App. A	608, 608.1, 608.2	1 L	1 L Amber Glass	8, pH 5-9, 1	7 Days	40 Days
Pesticides, Chlorinated	DW	SM 19th Edition	6630 A-D	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Pesticides, Chlorinated	SE/VE/IS/IL	USEPA CLP	Exhibit D, PEST	30 g	8 oz CWM	1	10 Days	40 Days
Pesticides, Chlorinated	WW/GW	USEPA CLP	Exhibit D, PEST	1 L	1 L Amber Glass	1	5 Days	40 Days
Pesticides, Dinitroaniline by GC	WW/GW	40 CFR Pt. 136 App. A	627	1 L	1 L Amber Glass	1	7 Days	40 Days
Pesticides, Dinitro Aromatic by GC	WW/GW	40 CFR Pt. 136 App. A	646	1 L	1 L Amber Glass	1	30 Days	N.S.
Pesticides, Dithiocarbamate by UV	WW/GW	40 CFR Pt. 136 App. A	630	1, L	1 L Amber Glass	1		7 Days
Pesticides, Dithiocarbamate by GC	WW/GW	40 CFR Pt. 136 App. A	630.1	1 L	1 L Amber Glass	1, pH 12-13		N.S.
Pesticides, Neutral Nitrogen containing by GC	WW/GW	40 CFR Pt. 136 App. A	633.1	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Pesticides, Organophosphorus by GC	WW/GW	40 CFR Pt. 136 App. A	614, 614.1, 622	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Pesticides, Organophosphorus by GC	SE/VE/IS/IL	40 CFR Pt. 136 App. A	1657	30 g	8 oz CWM	1	7 Days	40 Days
Pesticides, Organophosphorus by GC	WW/GW	40 CFR Pt. 136 App. A	1657	1 L	1 L Amber Glass	1, pH 5-9	7 Days	40 Days
Pesticides, Organohalide by GC	SE/VE/IS/IL	40 CFR Pt. 136 App. A	1656	30 g	8 oz CWM	1	7 Days	40 Days
Pesticides, Organohalide by GC	WW/GW	40 CFR Pt. 136 App. A	1656	1 L	1 L Amber Glass	1, pH 5-9, 8	7 Days	40 Days
Pesticides, Organohalide by GC	WW/GW	40 CFR Pt. 136 App. A	617	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Pesticides, Organonitrogen by GC	WW/GW	40 CFR Pt. 136 App. A	633	1 L	1 L Amber Glass	1	7 Days	40 Days
Pesticides, Volatile by GC	WW/GW	40 CFR Pt. 136 App. A	618	20 mL	2 x 40 mL VOA Vial	1		14 Days
Pesticides, Thiocarbate by GC	WW/GW	40 CFR Pt. 136 App. A	634	1 L	1 L Amber Glass	1, pH 6-8	7 Days	40 Days
Pesticides, Thiophosphate by GC	WW/GW	40 CFR Pt. 136 App. A	622.1	1 L	1 L Amber Glass	1	7 Days	40 Days
Pesticides, Triazine by GC	WW/GW	40 CFR Pt. 136 App. A	619	1 L	1 L Amber Glass	1	7 Days	40 Days
Petroleum Hydrocarbons (TPH)	WW/GW	EPA WW	418.1	1 L	1 L Glass	1, 10		28 Days
Petroleum Hydrocarbon Total, Recoverable by Infrared Spectrophotometer	SE/VE/IS/IL	EPA SW846	8440	10 g	4 oz CWM	1	ASAP	ASAP
Petroleum Hydrocarbons by Immunoassay	SE/VE/IS/IL	EPA SW846	4030	Requires test kit for screening				N.S.
pH Electrometric measurement	WW/GW	EPA SW846	9040B	25 mL	60 mL HDPE or Glass	None Required		Analyze Immediately



Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
pH Electrometric measurement	WW/GW	EPA WW	150.1, 150.2	25 mL	60 mL HDPE or Glass	None Required		Analyze Immediately
pH Electrometric measurement	DW	SM 19th Edition	4500-H+ A-B	50 mL	100 mL HDPE or Glass	None Required		Analyze Immediately
pH Paper Method	WW/GW	EPA SW846	9041A	25 mL	60 mL HDPE	None Required		N.S.
pH Soil and Waste	SE/VE/IS/IL	EPA SW846	9045C	20 g	4 oz CWM			Analyze Immediately
Phenolics	WW/GW	EPA SW846	9065, 9066, 9067	500 mL	1 L B.R.	1, 2		28 Days
Phenolics	WW/GW	EPA WW	420.1, 420.2, 420.3, 420.4	500 mL	1 L Glass	1, 12, 13		24 Hours/28 Days
Phenols by GC	SE/VE/IS/IL	EPA SW846	8041	30 g	8 oz CWM	1	14 Days	40 Days
Phenols by GC	WW/GW	EPA SW846	8041	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Phenols by GC	WW/GW	40 CFR Pt. 136 App. A	604, 604.1	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Phenols	DW	SM 19th Edition	5530 A-D	500 mL	1 L HDPE or Glass	1, 2		28 Days
Phenols	DW	SM 19th Edition	6420 A-C	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Pentachlorophenol Screening by Immunoassay	SE/VE/IS/IL	EPA SW846	4010A	Requires test kit for screening				N.S.
Pentachlorophenol Screening by Immunoassay	WW/GW	EPA SW846	4010A	Requires test kit for screening				N.S.
Phosphorus, Total	WW/GW	EPA WW	365.1, 365.4	50 mL	100 mL HDPE or Glass	1, 2		28 Days
Phosphorus, All Forms	WW/GW	EPA WW	365.1, 365.2, 365.3	50 mL	100 mL HDPE or Glass	Filter, 1, 2		48 Hours
Phosphorus	DW	SM 19th Edition	4500-P A-F	100 mL	125 mL Glass	Filter Immediately/1		48 Days
Phthalate Esters by GC/ECD	SE/VE/IS/IL	EPA SW846	8061A	30 g	8 oz CWM	1	14 Days	40 Days
Phthalate Esters by GC/ECD	WW/GW	EPA SW846	8061A	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Phthalate Esters by GC	WW/GW	40 CFR Pt. 136 App. A	606	1 L	1 L Amber Glass	1	7 Days	40 Days
Picloram by HPLC	WW/GW	40 CFR Pt. 136 App. A	644	1 L	1 L Amber Glass	1, pH 1-3	7 Days	30 Days
Polychlorinated Biphenyls (PCB) by GC	SE/VE/IS/IL	EPA SW846	8082	30 g	8 oz CWM	1	14 Days	40 Days
Polychlorinated Biphenyls (PCB) by GC	WW/GW	EPA SW846	8082	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Polychlorinated Biphenyls (PCB) by GC	WW/GW	40 CFR Pt. 136 App. A	608	1 L	1 L Amber Glass	8, pH 5-9, 1	7 Days	40 Days
Polychlorinated Biphenyls (PCB) Organohalide by GC	WW/GW	40 CFR Pt. 136 App. A	617	1 L	1 L Amber Glass	8, pH 5-9, 1	7 Days	40 Days
Polychlorinated Biphenyls (PCB)	DW	SM 19th Edition	6431 A-C 6630 A-D	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Polychlorinated Biphenyls (PCB)	SE/VE/IS/IL	USEPA CLP	Exhibit D, PEST	30 g	8 oz CWM	1	10 Days	40 Days
Polychlorinated Biphenyls (PCB)	WW/GW	USEPA CLP	Exhibit D, PEST	1 L	1 L Amber Glass	1	5 Days	40 Days
Polychlorinated Biphenyls (PCB) by Immunoassay	SE/VE/IS/IL	EPA SW846	4020	Requires test kit for screening				N.S.

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Polychlorinated Biphenyls (PCB) in Soil by Screening Test Method	SE/VE/IS/IL	EPA SW846	9078	Requires test kit for screening				N.S.
Polychlorinated Biphenyls (PCB) in Oil by Screening Test Method	SE/VE/IS/IL	EPA SW846	9079	Requires test kit for screening				
Polynuclear Aromatic Hydrocarbons (PAH/PNA) by GC	SE/VE/IS/IL	EPA SW846	8100	30 g	8 oz CWM	1	14 Days	40 Days
Polynuclear Aromatic Hydrocarbons (PAH/PNA) by GC	WW/GW	EPA SW846	8100	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Polynuclear Aromatic Hydrocarbons (PAH/PNA) by HPLC	SE/VE/IS/IL	EPA SW846	8310	30 g	8 oz CWM	1	14 Days	40 Days
Polynuclear Aromatic Hydrocarbons (PAH/PNA) by HPLC	WW/GW	EPA SW846	8310	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Polynuclear Aromatic Hydrocarbons PAH by GC or HPLC	WW/GW	40 CFR Pt. 136 App. A	610	1 L	1 L Amber Glass	8, 1, Dark	7 Days	40 Days
Polynuclear Aromatic Hydrocarbons (PAH/PNA)	DW	SM 19th Edition	6440 A-C	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Polynuclear Aromatic Hydrocarbons by Immunoassay	SE/VE/IS/IL	EPA SW846	4035	Requires test kit for screening				N.S.
Purgeable Aromatic Hydrocarbons	DW	SM 19th Edition	6220 A-E	5 mL	2 x 40 mL VOA Vial	8, 1		14 Days
Purgeable Aromatic Hydrocarbons by GC	WW/GW	40 CFR Pt. 136 App. A	602	5 mL	2 x 40 mL VOA Vial	8, 10, 1		14 Days
Purgeable Halocarbons	DW	SM 19th Edition	6230 A-E	5 mL	2 x 40 mL VOA Vial	8, 1		14 Days
Purgeable Halocarbons by GC	WW/GW	40 CFR Pt. 136 App. A	601	5 mL	2 x 40 mL VOA Vial	8, 1		14 Days
Purgeable Halides (POx)	WW/GW	EPA SW846	9021	5 mL	2 x 40 mL VOA Vial	1		14 Days
Purgeable Organics by GC/MS	WW/GW	40 CFR Pt. 136 App. A	624	5 mL	2 x 40 mL VOA Vial	8, 1, 10		14 Days
Pyrethines & Pyrethroids by HPLC	WW/GW	40 CFR Pt. 136 App. A	1660	1 L	1 L Amber Glass	1, 8, pH 5-7	7 Days	40 Days
Radioactive Cesium	DW	SM 19th Edition	7500-Cs A-B	1 L	1 L HDPE or Glass	10		1 Year
Radioactive Iodine	DW	SM 19th Edition	7500-I A-D	1 L - 2 L	2 x 1 L HDPE or Glass	None		14 Days
Radioactive Radium	DW	SM 19th Edition	7500-Ra A-D	1 L	1 L HDPE or Glass	3 or 10		1 Year
Radioactive Strontium	DW	SM 19th Edition	7500-Sr A-B	1 L	1 L HDPE or Glass	3 or 10		1 Year
Radioactive Tritium	DW	SM 19th Edition	7500-3H A-B	100 mL	500 mL Glass	None		1 Year
Radioactive Uranium	DW	SM 19th Edition	7500-U A-B	1 L	1 L HDPE or Glass	3 or 10		1 Year
Radiological Test, Gross Alpha & Beta	WW/GW	EPA SW846	9310	1 L	2 L HDPE or Glass	3		6 Month
Radiological Test, Gross Alpha & Beta (Total, Suspended & Dissolved)	DW	SM 19th Edition	7110 A-B	1 L	1 L HDPE or Glass	3		1 Year
Radium, Total	WW/GW	EPA SW846	9315, 9320	1 L	2 L HDPE or Glass	3		6 Month

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Residue, Filterable (TDS)	WW/GW	EPA WW	160.1	100 mL	250 mL HDPE or Glass	1		7 Days
Residue, Non-Filterable (TSS)	WW/GW	EPA WW	160.2	100 mL	250 mL HDPE or Glass	1		7 Days
Residue, Settleable Matter	WW/GW	EPA WW	160.5	1 L	1 L HDPE or Glass	1		48 Hours
Residue, Total	WW/GW	EPA WW	160.3	100 mL	250 mL HDPE or Glass	1		7 Days
Residue, Volatile	WW/GW	EPA WW	160.4	100 mL	250 mL HDPE or Glass	1		7 Days
Rotenone by HPLC	WW/GW	40 CFR Pt. 136 App. A	635	1 L	1 L Amber Glass	1	7 Days	40 Days
Salinity	DW	SM 19th Edition	2520 A-D	240 mL	300 mL	Wax Seal		Analyze Immediately
Semi-Volatile Organics by GC/MS	SE/VE/IS/IL	USEPA CLP	Exhibit D, SVOA	30 g	8 oz CWM	1	10 Days	40 Days
Semi-Volatile Organics by GC/MS	WW/GW	USEPA CLP	Exhibit D, SVOA	1 L	1 L Amber Glass	1	5 Days	40 Days
Semi-Volatile Organics (BNA) by GC	WW/GW	40 CFR Pt. 136 App. A	625	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Semi-Volatile Organics (BNA) Extractable Base/Neutrals and Acids	DW	SM 19th Edition	6410 A-B	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Semi-Volatile Organics Compounds by Isotope Dilution GC/MS	WW/GW	40 CFR Pt. 136 App. A	1625	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Semi-Volatile Organics by (TE/GC/MS)	SE/VE/IS/IL	EPA SW846	8275A	30 g	8 oz CWM	1	14 Days	40 Days
Semi-Volatile Organics by (TE/GC/MS)	WW/GW	EPA SW846	8275A	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Semi-Volatile Organics by (GC/FT-IR)	SE/VE/IS/IL	EPA SW846	8410	30 g	8 oz CWM	1	14 Days	40 Days
Semi-Volatile Organics by (GC/FT-IR)	WW/GW	EPA SW846	8410	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Semivolatile Organic Compounds by GC/MS	SE/VE/IS/IL	EPA SW846	8270C	30 g	8 oz CWM	1	14 Days	40 Days
Semivolatile Organic Compounds by GC/MS	WW/GW	EPA SW846	8270C	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Silica	WW/GW	EPA WW	370.1	50 mL	100 mL HDPE	1		28 Days
Silica	DW	SM 19th Edition	4500-Si A-G	200 mL	225 mL HDPE	1		28 Days
Solids	DW	SM 19th Edition	2540 A-G	200 mL	250 mL HDPE or Glass	1		7 Days
Sulfate	WW/GW	EPA SW846	9035, 9036, 9038	100 mL	250 mL HDPE or Glass	1		28 Days
Sulfate	DW	SM 19th Edition	4500-SO4 A-F	100 mL	125 mL HDPE or Glass	1		28 Days
Sulfate	WW/GW	EPA WW	375.1, 375.2, 375.3, 375.4	50 mL	100 mL HDPE or Glass	1		28 Days
Sulfides, Acid Soluble & Insoluble (Distillation)	SE/VE/IS/IL	EPA SW846	9030B, 9034	25 g	4 oz CWM	1,6, Zero Headspace		7 Days
Sulfides, Acid Soluble & Insoluble (Distillation)	WW/GW	EPA SW846	9030B, 9034	500 mL	1 L HDPE	4, 6, 1		7 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Sulfides, Extractable	SE/VE/IS/IL	EPA SW846	9031	25 g	4 oz CWM	1,6 Zero Headspace		7 Days
Sulfides, Extractable	WW/GW	EPA SW846	9031	500 mL	1 L HDPE	4, 6, 1		7 Days
Sulfide by Ion Selective Electrode	WW/GW	EPA SW846	9215	500 mL	1 L HDPE	4, 6, 1		7 Days
Sulfide	DW	SM 19th Edition	4500-S A-H	100 mL	125 mL	4, 6, 1		7 Days
Sulfide	WW/GW	EPA WW	376.1, 376.2	500 mL	1 L HDPE or Glass	4, 6, 1		7 Days
Sulfite	WW/GW	EPA WW	377.1	50 mL	125 mL HDPE or Glass	None Required		Analyze Immediately
Sulfite	DW	SM 19th Edition	4500-SO3 A-C	100 mL	125 mL HDPE or Glass	1 mL EDTA/100 mL sample		N/S
Surfactants (Linear Alkyl Sulfonates, MBAS)	WW/GW	EPA WW	425.1	250 mL	500 mL HDPE	1		48 Hours
Surfactants (Linear Alkyl Sulfonates, MBAS)	DW	SM 19th Edition	5540 A-D	250 mL	500 mL HDPE or Glass	1		48 Hours
Taste	DW	SM 19th Edition	2160A	500 mL	500 mL CWM	None Required		24 Hours
TCLP Extraction (Hazardous Waste Toxicity)	SE/VE/IS/IL	EPA SW846	1311	300 g	16 oz CWM		Organic 14 Days/Hg 28 Days/ Metals 180 days	
TCLP Extraction (Hazardous Waste Toxicity)	WW/GW	EPA SW846	1311	4 L	4 x 1 L Amber Glass	None Required	Organic 14 Days/Hg 28 Days/ Metals 180 days	
Temperature	WW/GW	EPA WW	170.1	1 L	1 L HDPE or Glass	None Required		Analyze Immediately
Temperature	DW	SM 19th Edition	2550 A-B		HDPE or Glass	Analyze Immediately		Analyze Immediately
2,3,7,8-Tetrachloro-dibenzo-p-dioxin by GCMS	WW/GW	40 CFR Pt. 136 App. A	613	1 L	1 L Amber Glass	8, 1	7 Days	40 Days
Tetrazone by HPLC	SE/VE/IS/IL	EPA SW846	8331	2 g	4 oz CWM	1	14 Days	40 Days
Tetrazone by HPLC	WW/GW	EPA SW846	8331	10 mL	250 mL Amber Glass	1	7 Days	40 Days
Thiabenzazole by LC	WW/GW	40 CFR Pt. 136 App. A	641	1 L	1 L Amber Glass	1, 8, pH 1-3	7 Days	40 Days
TNT Explosives by Immunoassay	SE/VE/IS/IL	EPA SW846	4050		Requires test kit for screening			N.S.
Tinitrotoluene (TNT) by Colorimetric Screening Method	SE/VE/IS/IL	EPA SW846	8515		Requires test kit for screening			N.S.
Total Organic Halides (TOX)	WW/GW	EPA SW846	9020B, 9022	250 mL	1 L B.R.	2, 1		28 Days
Toxaphene by Immunoassay	SE/VE/IS/IL	EPA SW846	4040		Requires test kit for screening			N.S.
Trihalomethanes and Chlorinated Organic Solvents (THMs)	DW	SM 19th Edition	6232 A-D	5 mL	2 x 40 mL VOA Vial	8, 1		14 Days
Turbidity	WW/GW	EPA WW	180.1	100 mL	250 mL HDPE or Glass	1		48 Hours
Turbidity	DW	SM 19th Edition	2130 A-B	100 mL	250 mL HDPE or Glass	1, Dark		48 Hours
Volatile Organics	DW	SM 19th Edition	6210 A-D	5 mL	2 x 40 mL VOA Vial	24		14 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Volatile Organic Compounds by GC/MS	SE/VE/IS/IL	EPA SW846	8260B	30 g	4 oz CWM	1		14 Days
Volatile Organic Compounds by GC/MS	WW/GW	EPA SW846	8260B	10 mL	2 x 40 mL VOA Vial	8, 1, pH<2		14 Days
Volatile Organic Compounds by GC/MS	SE/VE/IS/IL	USEPA CLP	Exhibit D, VOA	10 g	4 oz CWM	1		10 Days
Volatile Organic Compounds by GC/MS	WW/GW	USEPA CLP	Exhibit D, VOA	5 mL	2 x 40 mL VOA Vial	1 pH<2		10 Days
Volatile Organic Compounds by Isotope Dilution GC/MS	WW/GW	40 CFR Pt. 136 App. A	1624	5 mL	2 x 40 mL VOA Vial	1, (8,10)		14 Days
Asbestos (DW)	DW	EPA DW	600/4-83-43	2 L	2 x 1 L Amber	1		48 Hours
Benzidines & Nitrogen Containing Pesticides	DW	EPA DW	553	1 L	1 L Amber Glass	8 or 5, 1	7 Days	23 Days
Carbonyl Compounds (Aldehydes)	DW	EPA DW	554	100 mL	250 mL Amber Glass	8, 1	3 Days	
Chlorinated Acids (Herbicides)	DW	EPA DW	515.1	1 L	1 L Amber Glass	15, 1, 8	14 Days	28 Days
Chlorinated Acids (Herbicides)	DW	EPA DW	515.2	250 mL	1 L Amber Glass	8, 10, 1	14 Days	14 Days
Chlorinated Acids (Herbicides)	DW	EPA DW	555	100 ml	150 mL Amber Glass	5, 10, 1, Dark		14 Days
Chlorinated Pesticides	DW	EPA DW	508	1 L	1 L Amber Glass	15, 1, 8	7 Days	14 Days
Chlorinated Pesticides, Herbicides, Organohalides	DW	EPA DW	508.1	1 L	1 L Amber Glass	10, 1, 5	14 Days	30 Days
Chlorination Disinfection Byproducts and Chlorinated Solvents	DW	EPA DW	551	35 mL	2 x 40 mL VOA Vial	See Method for Preservation		14 Days
Chlorination Disinfection Byproducts and Chlorinated Solvents	DW	EPA DW	551.1	35 mL	2 x 40 mL VOA Vial	See Method for Preservation	14 Days	14 Days
Diquat & Paraquat	DW	EPA DW	549.1	250 mL	1 L Silanized Amber Glass	8, 2, 1	7 Days	21 Days
EDB, DBCP & 123TCP	DW	EPA DW	504.1	40 mL	40 mL VOA Vial	1, 8		14 Days
Endothall	DW	EPA DW	548.1	100 mL	1 L Amber Glass	8, 1, 10	7 Days	14 Days
Ethylene Thiourea	DW	EPA DW	509	50 mL	60 mL Glass	1, Dark		ASAP
Glyphosate	DW	EPA DW	547	50 mL	60 mL Glass Vial	8, 1		14 Days
Haloacetic Acids & Dalapon	DW	EPA DW	552	100 mL	250 mL Amber Glass	11, 1, Dark	28 Days	48 Hours
Haloacetic Acids & Dalapon	DW	EPA DW	552.1	100 mL	250 mL Amber Glass	11, 1, Dark	28 Days	48 Hours
Haloacetic Acids & Dalapon	DW	EPA DW	552.2	100 mL	250 mL Amber Glass	11, 1, Dark	14 Days	48 Hours
N & P Containing Pesticides	DW	EPA DW	507	1 L	1 L Amber Glass	15, 1, 8	14 Days	14 Days
N-Methylcarbamoyl oximes and N-Methylcarbamates	DW	EPA DW	531.1	50 mL	60 mL Glass Vial	Acid Buffer pH-3, 8, - 10 degrees C		28 Days
Organic Compounds by Liquid/Solid Extraction	DW	EPA DW	524.2	25 mL	2 x 40 mL VOA Vial	16 or 8, 10, 1		14 Days
Organic Compounds by Liquid/Solid Extraction, GC/MS	DW	EPA DW	525.2	1 L	1 L Amber Glass	1, 5, 10	14 Days or Immediately for Sensitive Analytes	30 Days from Sample Collection
Organohalide Pesticides/Polychlorinated Biphenyls	DW	EPA DW	505	40 mL	40 mL VOA Vial	8, 1		7 Days/14 Days

Environmental Sampling Guide

Parameter	Sample Type	Method Reference	Method	Minimum Sample	Sample Bottle	Preservation	Extraction Hold Time	Analysis Hold Time
Phthalate and Adipate Esters by Liquid/Liquid or Solid/Liquid	DW	EPA DW	506	1 L	1 L Amber Glass	8, 1	14 Days	14 Days
Polychlorinated Biphenyls Screening Method	DW	EPA DW	508A	1 L	1 L Amber Glass	1	14 Days	30 Days
Polycyclic Aromatic Hydrocarbons	DW	EPA DW	550	1 L	1 L Amber Glass	8, 10, 1, Dark	7 Days	30 Days
Polycyclic Aromatic Hydrocarbons	DW	EPA DW	550.1	1 L	1 L Amber Glass	8, 10, 1, Dark	7 Days	40 Days
Volatile Organic Compounds by Purge & Trap	DW	EPA DW	502.2	5 mL	2 x 40 mL VOA Vial	8 or 5 pH<2, 1		14 Days

WW	Wastewater
GW	Groundwater
DW	Drinking water
SE	Soil/Sediment
VE	Sludge
IS	Solid
IL	Conc. Liquid

HDPE	High Density Polyethene
CWM	Clear Wide Mouth Glass
A.J.	Amber Jug
B.R.	Boston Round

Preservation:

1	4 C (icepack)
2	H <sub>2</sub> SO <sub>4</sub> <pH2
3	HNO <sub>3</sub> <pH2
4	NaOH >pH12
5	1.0 mL Na <sub>2</sub> SO <sub>3</sub>
6	4 drops 2N Zn Acetate/L
7	2 drops 1:1 HCL
8	0.008% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> /L
9	2.0 mL MnSO <sub>4</sub>
10	HCL <pH2
11	65 mg NH <sub>4</sub> CL/vial
12	CuSO <sub>4</sub> 1g/L