Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
Acidity, as CaCO3	Titrimetric			2310 B(4a) [18,19,20,21]	2310 B(4a)-97	D1067-92, 02,	I-1020-85
Alkalinity, as CaCO3	Titrimetric	310.2		2320 B [18,19,20,21]	2320 B-97	D1067-92, 02,	I-1030-85
	Colorimetric	350.1		4500- NH3 H [18] 4500- NH3 G [19,20,21]	4500- NH3 G-97		I-4523.-85
	Electrometric - ISE			4500- NH3 F or G [18] 4500- NH3 D or E [19,20,21]	4500- NH3-D-97 4500- NH3-E-97	D1426-98, 03 (B)	
	Electrometric - ISE, auto						
	IC (Ion chromatography)					D6919-03	
	Titration			4500- NH3 E [18] 4500- NH3 C [19,20,21]	4500- NH3-C-97		
BOD (Biochemical Oxygen Demand)	BOD Assay			5210 B [18,19,20,21]	5210 B-01		I-1578-78
Bromide	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	IC (Ion chromatography)	300.0	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	
	Titrimetric					D1246-95, 99	I-1125-85
cBOD (Carbonaceous Biochemical Oxygen Demand)	BOD Assay			5210 B [18,19,20,21]	5210 B-01		
COD (Chemical Oxygen Demand)	Colorimetric (manual or auto)	410.4		5520 D [18,19,20,21]	5220 D-97	D1252-95, 00,	I-3561-85
	Titrimetric	410.3		5220 C [18,19,20,21]	5220 C-97	D-1252-95, 00	I-3560-85
Chloride	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Colorimetric, auto		9250	4500-Cl E [18,19,20,21]	4500-Cl E-97		I-2187-85
	Colorimetric, manual						I-1187-85
	Electrometric - ISE					D512-89 (99), 04 (C)	
	IC (Ion chromatography)	300.0	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	
	Titrimetric		9253	4500-Cl B [18,19,20,21]	4500-Cl B-97	D512-89 (99),	I-1183-85
	Titrimetric			4500-Cl D [18,19,20,21]	4500-Cl D-97		
Chlorine, Total Residual	Colorimetric			4500-Cl B [18,19,20,21]	4500-Cl B-00		
	Colorimetric, DPD			4500-Cl F [18,19,20,21]	4500-Cl F-00		
	Colorimetric, DPD			4500-Cl G [18,19,20,21]	4500-Cl G-00		
	Electrometric - ISE						
	Titrimetric			4500-Cl D [18,19,20,21]	4500-Cl D-00	D1253-86 (96), 03	
	Titrimetric			4500-Cl E [18,19,20,21]	4500-Cl E-00		

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	Titrimetric			4500-Cl C [18,19,20,21]	4500-Cl C-00		
Color	Colorimetric			2120 E [18,19,20,21]			
	Colorimetric			2120 B [18,19,20,21]	2120 B-01		I-1250-85
	Colorimetric			2120 C [18,19,20,21]			
Cyanide, Available	Amperometric					D6888-04	
	Colorimetric		9010 9014	4500-CN- G [18,19,20,21]	4500-CN- G-99	D2036-98, 06 (B)	
	Colorimetric, Auto		9012A				
	Titrimetric		9010 9014	4500-CN- G [18,19,20,21]	4500-CN- G-99	D2036-98, 06 (B)	
Cyanide, Total	Colorimetric	335.4	9010	4500-CN-C [18,19,20,21]		D2036-98, 06(A)	
	Colorimetric, auto						
	Colorimetric, auto	335.4	9012				I-4302-85
	Colorimetric, manual		9014	4500-CN- E [18,19,20,21]	4500-CN- E-99	D2036-98, 06	I-3300-85
	Electrometric - ISE			4500-CN- F [18,19,20,21]	4500-CN- F-99	D2036-98, 06 (A)	
	Titrimetric		9014	4500-CN- D [18,19,20,21]	4500-CN-D-99		
Fluoride	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Colorimetric			4500-F- D [18,19,20,21]	4500-F- D-97	D1179-93, 99, 04 (A)	
	Colorimetric, auto			4500-F- E [18,19,20,21]	4500-F- E-97		
	Electrometric - ISE			4500-F-B [18,19,20,21]	4500-F- C-97	D1179-93, 99, 04 (B)	
	Electrometric-ISE, auto.						I-4327-85
	IC (Ion chromatography)	300.0	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	
Hardness, Total as CaCO3	Automated colorimetric	130.1					
	FLAA (Calculation)		7000B	3111 B [18,19,21]	3111 B-99	D511-93, 03 (E	I-3152-85 I-3447-85
	ICP (Calculation)	200.7	6010	3120 B [20,21]	3120 B-99		
	Titrimetric			2340 B or C [18,19,20,21]	2340 B-97 2340 C-97	D1126-86 (92)	I-1338-85
Kjeldahl Nitrogen -Total	Colorimetric	351.2				D3590-89, 02	I-4515-91
	Colorimetric, auto.	351.1					I-4551-78
	Electrometric - ISE			4500- NH3 D or E [19,20,21]	4500- NH3 D-97 4500- NH3 E-97		
	Flow injection gas diffusion						
	Titration			4500- NH3 E [18] 4500- NH3 C [19,20,21]	4500- NH3 C-97	D3590-89, 02 (06) (A)	
	Titrimetric					D3590-89, 02 (06) (A)	
	Titrimetric						

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
Nitrate (as N)	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Electrometric - ISE			4500-NO3 D [18,19,20,21]	4500-NO3 D-00		
	IC (Ion chromatography)	300.0 300.1		4110 B [20,21]	4110 B-00	D4327-97, 03	
	Nitrate-nitrite N minus Nitrite N						
Nitrate + Nitrite (as N)	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Colorimetric, Auto	353.2		4500-NO3 F [18,19,20,21]	4500-NO3 F-00	D3867-99, 04A	I-4545-85
	Colorimetric, Auto	300.0	9056	4110 B [20,21]	4110 B-00	D4327-03	
	Colorimetric, manual			4500-NO3 E [18,19,20,21]	4500-NO3 E-00	D3867-99, 04(B)	
	Colorimetric, manual			4500-NO3 H [18,19,20,21]	4500-NO3 H-00		
Nitrite (as N)	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Colorimetric, Auto						I-4540-85
	Colorimetric, Auto	353.2		4500-NO3 F [18,19,20,21]	4500-NO3 F-00	D3867-99, 04(	I-4545-85
	Colorimetric, manual			4500-NO2 B [18,19,20,21]	450-NO2 B-00		
	Colorimetric, manual			4500-NO3 E [18,19,20,21]	4500-NO3 E-00	D3867-99, 04(B)	
	IC (Ion chromatography)	300.0 300.1	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	
Oil and Grease- Total	Gravimetric - HEM	1664A			5520 B-01		
	Gravimetric - HEM	1664A					
Organic Carbon, Tota	Combustion or oxidation			5310 B [18,19,20,21] 5310 C [18,19,20,21] 5310 D [18,19,20,21]	5310 B-00 5310 C-00 5310 D-00		
Organic Halides	Combustion or oxidation	1650					
Oxygen, Dissolved	Electrometric - ISE			4500-O G [18,19,20,21]	4500-O G-01	D888-92, 03, (	I-1576-78
	Luminescence					D888-05(C)	
	Titration (Winkler)			4500-O C [18,19,20,21]	4500-O C-01	D888-92, 03, (	I-1575-78
pH (Hydrogen ion)	Electrometric		9040C	4500-H+ B [18,19,20,21]	450-H+ B-00	D1293-84 (90)	I-1586-85
	Electrometric, auto	150.2					I-2587-85
Phenolics	Colorimetric, auto	420.4	9066				
	Colorimetric, manual	420.1	9065				
Phosphorus - Orthophosphate	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Colorimetric, auto	365.1		4500-P- F [18,19,20,21]			I-4601-85
	Colorimetric, manual			4500-P- E [18,19,20,21]		D515-88(A)	
	Colorimetric, manual	365.3					
	IC (Ion chromatography)	300.0 300.1	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
Phosphorus- Total	Colorimetric, auto	365.1		4500-P B.5 [18,19,20,21] + 4500-P E [18,19,20,21]			
	Colorimetric, auto	365.4				D515-88(B)	I-4610-91
	Colorimetric, manual	365.3		4500-P B.5 [18,19,20,21] + 4500-P F [18,19,20,21]		D515-88(A)	I-4600-85
TDS - Residue − filtera	Gravimetric - Residue			2540 C [18,19,20,21]	2540 C-97		I-1750-85
TSS- Residue, non-filt	Gravimetric - Residue			2540 D [18,19,20,21]	2540 D-97		I-3765-85
SS - Residue, settleab	Gravimetric - Residue			2540 F [18,19,20,21]	2540 F-97		
TS - Residue, total (Sc	Gravimetric - Residue			2540 B [18,19,20,21]	2540 B-97		I-3750-85
VS - Residue, volatile	Gravimetric - Residue	160.4					I-3753-85
Specific conductance	Electrometric	120.1	9050A	2510 B [18,19,20,21]	2510 B-97	D1125-95 (99)	I-2781-85
Sulfate	Automated colorimetric	375.2	9035				
	CIE/UV (Capillary Ion Electrphoresis)					D6508-00 (05)	
	Gravimetric - Residue			4500-SO4 2- C [18,19,20,21] 4500-SO4 2- D [18,19,20,21]			
	IC (Ion chromatography)	300.0 300.1	9056	4110 B [20,21]	4110 B-00	D4327-97, 03	
	Turbidimetric (Nephelometric)					D516-90, 02	
	Colorimetric			4500-S2- D [18,19,20,21]	4500-S2- D-00		
	Electrometric - ISE			4500-S2- G [18,19,20,21]	4500-S2- G-00	D4658-03	
	Titrimetric			4500-S2- E [18] 4500-S2- F [19,20,21]	4500-S2- F-00		I-3840-85
Sulfite	Titrimetric			4500-SO3 -B [18,19,20,21]	4500-SO3 - B-00		
Surfactants	Colorimetric			5540 C [18,19,20,21]	5540 C-00	D2330-88, 02	
Turbidity	Nephelometric (Turbidimetric)	180.1		2130 B [18,19,20,21]	2130 B-01	D1889-94, 00	I-3860-85
Aluminum	Colorimetric			3500-Al D [18,19] 3500 Al B [20,21]	3500-Al B-01		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99		I-3051-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99		
	ICP	200.7	6010	3120B [21st]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Antimony	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99		
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	ICP/MS	200.8	6020A			D5673-03, 05	
Arsenic	Colorimetric			3500-As C [18,19] 3500-As B [20, 21]	3500-As B-97	D2972-97, 03(	I-3060-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D2972-97, 03	I-4063-98
	Hydride AA		7061A	3114 B10 [18,19,21]	3114 B 4.d.-97	D2972-97, 03	I-3062-85
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A			D5673-03, 05	
Barium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99		I-3084-85
	GFAA (Graphite Furnace Atomic Absorption)		7010	3113 B [18,19,21]	3113 B-99	D4382-95, 02	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A			D5673-03, 05	
Beryllium	Colorimetric			3500-Be D [18,19]			
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99	D3645-93 (88)	I-3095-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D3645-93 (88), 03 (B)	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Boron	Colorimetric (Curcumin)			4500-B B [18,19,20,21]	4500-B B-00		I-3112-85
	DCP (Direct current plasma)					D4190-94, 99, 03	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A				
Cadmium	Colorimetric			3500-Cd D [18,19]			
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D3557-95, 02	I-3135-85 I-3136-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D3557-95, 02	I-4138-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-1472-85 I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
	Voltammetry					D3557-95, 02 (C)	
Calcium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99	D511-93, 03 (	I-3152-85
	IC (Ion chromatography)					D6919-03	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A				

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	Titrimetric			3500-Ca D [18,19] 3500-Ca B [20,21]	3500-Ca B-97	D511-93, 03 (A)	
Chromium	Colorimetric			3500-Cr D [18,19] 3500-Cr B [20,21]	3500-Cr B-01		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99	D1687-92, 02	I-3236-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D1687-92, 02	I-3233-9356
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A			D5673-03, 05	
Chromium VI (hexava	AA chelation-extraction		7197	3111 C [18,19,21]	3111 C-99		I-1232-85
	Colorimetric			3500-Cr D [18,19] 3500-Cr B [20,21]	3500-Cr B-01	D1687-92, 02	I-1230-85
	IC (Ion chromatography)	218.6	7199	3500-Cr E [18,19] 3500-Cr C [20,21]	3500-Cr C-01	D5257-97, 03	
Cobalt	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D3558-94, 03	I-3239-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D3558-94, 03	I-4243-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Copper	Colorimetric			3500-Cu D [18,19] 3500-Cu B [20,21]	3500-Cu B-99		
	Colorimetric			3500-Cu E [18,19] 3500-Cu C [20,21]	3500-Cu C-99		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D1688-95, 02	I-3270-85 I-3271-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D1688-95, 02	I-4274-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Gold	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	231.2					
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Iridium	FLAA (Flame Atomic Absorption)			3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	235.2	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
Iron	Colorimetric			3500-Fe D [18,19] 3500-Fe B [20,21]	3500-Fe B-97	D1068-96, 03, 05 (D)	
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D1068-96, 03,	I-3381-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D1068-96, 03, 05 (C)	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A				
Lead	Colorimetric			3500-Pb D [18,19] 3500-Pb B [20,21]	3500-Pb B-97		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D3559-96, 03	I-3399-90
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D3559-96, 03	I-4403-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
	Voltammetry					D3559-96, 03 (C)	
Magnesium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99	D511-93, 03 (E	I-3447-85
	Gravimetric			3500-Mg D [18,19]			
	IC (Ion chromatography)					D6919-03	
	ICP)	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A				
Manganese	Colorimetric			3500-Mn D [18,19] 3500-Mn B [20,21]	3500-Mn B-99		
	Colorimetric						
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99	D858-95, 02 (A	I-3454-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D858-95, 02 (C)	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Mercury	CVAA (Cold vapor AA), auto	245.2					
	CVAA (Cold vapor AA), manual	245.1	7470A	3112 B [18,19,21]	3112 B-99	D3223-97, 02	I-3462-85
	CVAFS (cold vapor atomic fluorescence)	1631E					
	CVAFS (cold vapor atomic fluorescence)	245.7					
Molybdenum	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99		I-3490-85
	GFAA (Graphite Furnace Atomic Absorption)		7010	3113 B [18,19,21]	3113 B-99		I-3492-9657
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-9760

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	ICP/MS	200.8	6020A			D5673-03, 05	
Nickel	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D1886-90, 94	I-3499-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99	D1886-90, 94	I-4503-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Osmium	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99		
	GFAA (Graphite Furnace Atomic Absorption)	252.2	7010				
	ICP	200.7		3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Palladium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)			3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	253.2	7010				
	ICP	200.7		3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Platinum	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)			3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	255.2	7010				
	ICP	200.7		3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Potassium	Colorimetric						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		I-3630-85
	Flame photometric			3500-K D [18,19] 3500-K B [20,21]	3500-K B-99		
	IC (Ion chromatography)					D6919-03	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Rhodium	FLAA (Flame Atomic Absorption)			3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	265.2	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Ruthenium	FLAA (Flame Atomic Absorption)			3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	267.2	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Selenium	AA gaseous hydride		7741A	3114 B10 [18,19,21]	3114 B-9710	D3859-98, 03	I-3667-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9		3113 B [18,19,21]	3113 B-99	D3859-98, 03	I-4668-9859
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	ICP/MS	200.8	6020A			D5673-03, 05	
Silica	Colorimetric, auto						I-2700-85
	Colorimetric, Manual			4500-Si D [18,19] 4500-SiO2 C [20,21]	4500-SiO2 C-97	D859-94, 00, 0	I-1700-85
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-9760
	ICP/MS	200.8	6020A				
Silver	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99		I-3720-85
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99		I-4724-89
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	
Sodium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		I-3735-85
	Flame photometric			3500-Na D [18,19] 3500-Na B [20,21]	3500-Na B-97		
	IC (Ion chromatography)					D6919-03	
	ICP	200.7	6010	3120 B [18,19,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A				
Thallium	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		
	GFAA (Graphite Furnace Atomic Absorption)	279.2 200.9	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A			D5673-03, 05	
Tin	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21]	3111 B-99		I-3850-78
	GFAA (Graphite Furnace Atomic Absorption)	200.9	7010	3113 B [18,19,21]	3113 B-99		
	ICP	200.7	6010				
	ICP/MS	200.8	6020A				
Titanium	DCP (Direct current plasma)						
	FLAA (Flame Atomic Absorption)			3111 D [18,19,21]	3111 D-99		
	GFAA (Graphite Furnace Atomic Absorption)	283.2	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		
	ICP/MS	200.8	6020A				
Vanadium	Colorimetric			3500-V D [18,19] 3500-V B [20,21]	3500-V B-97		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 D [18,19,21]	3111 D-99		
	GFAA (Graphite Furnace Atomic Absorption)		7010			D3373-93, 03	
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I4471-97

Parameter, Units	Analytical Technology	EPA	SW-846	Standard Methods [Editions]	Standard Methods-Online	ASTM	USGS
	ICP/MS	200.8	6020A			D5673-03, 05	
Zinc	Colorimetric			3500-Zn E [18,19]			
	Colorimetric			3500-Zn F [18,19] 3500-Zn B [20,21]	3500-Zn B-97		
	DCP (Direct current plasma)					D4190-94, 99, 03	
	FLAA (Flame Atomic Absorption)		7000B	3111 B [18,19,21] 3111 C [18,19,21]	3111 B-99 3111 C-99	D1691-95, 02	I-3900-85
	GFAA (Graphite Furnace Atomic Absorption)	289.2	7010				
	ICP	200.7	6010	3120 B [20,21]	3120 B-99		I-4471-97
	ICP/MS	200.8	6020A			D5673-03, 05	