

PT Requirements Table

Rev. Jan,2023

PTs are required for each of your Certified Methods, unless otherwise noted in this table.
PTs for all matrices your are certified for are required, if applicable.

INORGANICS INORGANICS INORGANICS INORGANICS			
PARAMETER/METHOD	PT REQUIRED	MATRICES REQUIRED	TECHNOLOGY/ METHODOLOGY
ACIDITY			
ASTM D 1067-16	Yes	Aqueous	Titrimetric
SM 2310 B-2011	Yes	Aqueous	Titrimetric
ALKALINITY			
EPA 310.2, Rev. 1974	Yes	Aqueous	Automated Colorimetric
SM 2320 B-2011	Yes	Aqueous	Titration, Manual
BACTERIA - COLIFORM FECAL			
EPA Microbiological Manual p.124, 1978 (MF)	Yes	Aqueous	MF
SM 9222 D-2015 (MF)	Yes	Aqueous	MF
SM 9222 D-2015 (MF) 24hr 503	No		MF
IDEXX Colilert®18 (MPN)	Yes	Aqueous	MPN
EPA 1680 (MPN) 24hr 503	No		MPN
EPA 1681 (MPN) 24hr 503	No		MPN
EPA Microbiological Manual p. 132, 1978 (MPN)	Yes	Aqueous	MPN
SM 9221C E-2014 (MPN)	Yes	Aqueous	MPN
SM 9221C E-2014 (MPN) 24hr 503	No		MPN
BACTERIA - COLIFORM TOTAL			
EPA Microbiological Manual p. 108, 1978 (MF)	Yes	Aqueous	MF
SM 9222 B-2015 (MF)	Yes	Aqueous	MF
EPA Microbiological Manual p. 114, 1978 (MPN)	Yes	Aqueous	MPN
SM 9221 B-2015 (MPN)	Yes	Aqueous	MPN
BACTERIA - E. coli			
EPA 1603 (MF)	Yes	Aqueous	MF
Hach mColiBlue-24® (MF)	Yes	Aqueous	MF
IDEXX Colilert® (24 hr) (MPN)	Yes	Aqueous	MPN
IDEXX Colilert-18® (MPN)	Yes	Aqueous	MPN
SM 9223 B-2004 (IDEXX Colilert-18®) (MPN)	Yes	Aqueous	MPN
BACTERIA - ENTEROCOCCI			
SM 9230 B-2013	Yes	Aqueous	MPN (5 Tube)
SM 9230 C-2013	Yes	Aqueous	MF
SM 9230 D-2013	Yes	Aqueous	MPN multiple tube/well
EPA 1600 (MF)	Yes	Aqueous	MF
IDEXX Enterolert® (MPN)	Yes	Aqueous	MPN
BACTERIA - SALMONELLA			
Kenner & Clark, 1974 (MPN) (Aqueous)	Yes	Aqueous	MPN
SM 9260 D-2007 (MPN)	Yes	Aqueous	MPN
EPA 1682 (MPN)	Yes	Aqueous	MPN
BOD			
SM 5210 B-2016	Yes	Aqueous	Membrane Electrode or LDO/ DO Depletion
BROMIDE			
ASTM D 1246-16	Yes	Aqueous	Electrode
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SM 4110 C-2011	Yes	Aqueous	IC
SM 4110 D-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
CBOD			
SM 5210 B-2016	Yes	Aqueous	Membrane Electrode or LDO/ DO Depletion
CHLORIDE			
SM 4500 Cl ⁻ E-2011	Yes	Aqueous	Automated
SEAL 124-A Rev. 6	Yes	Aqueous	Automated
SW-846 9251	Yes	Aqueous	Automated Colorimetric
ASTM D 512-04 C	Yes	Aqueous	Electrode
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
USGS I-2057-90	Yes	Aqueous	IC
SM 4500 Cl ⁻ B-2011	Yes	Aqueous	Titrimetric (AgNO ₃)

SW-846 9253	Yes	Aqueous	Titrimetric (AgNO ₃)
SM 4500 Cl ⁻ C-2011	Yes	Aqueous	Titrimetric (HgNO ₃)
CHLORINE, FREE AVAILABLE			
SM 4500 Cl D-2011	Yes	Aqueous	Amperometric Titration
SM 4500 Cl F-2011	Yes	Aqueous	DPD-FAS
SM 4500 Cl G-2011	Yes	Aqueous	Spectrophotometric DPD
CHLORINE, TOTAL RESIDUAL			
Hach 10025 ULR	Yes	Aqueous	Amperometric Titration
SM 4500 Cl D-2011	Yes	Aqueous	Amperometric Titration
SM 4500 Cl E-2011	Yes	Aqueous	Amperometric Titration
Hach 10014 ULR	Yes	Aqueous	DPD Colorimetric
Hach 10070 HR	Yes	Aqueous	DPD Colorimetric
Hach 8167 HR	Yes	Aqueous	DPD Colorimetric
SM 4500 Cl G-2011	Yes	Aqueous	DPD Colorimetric
SM 4500 Cl F-2011	Yes	Aqueous	DPD-FAS
Orion Electrode , 1977	Yes	Aqueous	Electrode
SM 4500 Cl B-2011	Yes	Aqueous	Iodometric Titration
SM 4500 Cl C-2011	Yes	Aqueous	Titrimetric
CHLOROPHYLL a			
EPA 445.0, Rev. 1.2 (Fluorometric)	Yes Round Robin	Aqueous	Fluorometric
SM 10200 H, Rev. 2011 (Fluorometric)	Yes Round Robin	Aqueous	Fluorometric
EPA 446.0, Rev. 1.2 (Spectrophotometric)	Yes Round Robin	Aqueous	Spectrophotometric
SM 10200 H, Rev. 2011 (Spectrophotometric)	Yes Round Robin	Aqueous	Spectrophotometric
COD			
ASTM D 1252-06 B	Yes	Aqueous	Colorimetric, Automated
EPA 410.4, Rev. 2.0, 1993	Yes	Aqueous	Colorimetric, Automated
SM 5220 D-2011	Yes	Aqueous	Colorimetric, Automated
Hach 8000	Yes	Aqueous	Colorimetric, Manual
ASTM D 1252-06 A	Yes	Aqueous	Titrimetric
EPA 410.3, Rev. 1978	Yes	Aqueous	Titrimetric
SM 5220 C-2011	Yes	Aqueous	Titrimetric
COLOR, ADMI			
SM 2120 F-2011 (ADMI)	Yes	Aqueous	ADMI
SM 2120 E-1993 (ADMI)	Yes	Aqueous	ADMI
COLOR, PC			
NCASI 253 (PtCo)	Yes	Aqueous	PtCo
NCASI 71.01 (PtCo)	Yes	Aqueous	PtCo
SM 2120 B-2011 (PtCo)	Yes	Aqueous	PtCo
CONDUCTIVITY			
EPA 120.1, Rev. 1982	Yes	Aqueous	Wheatstone Bridge
SM 2510 B-2011	Yes	Aqueous	Wheatstone Bridge
SW-846 9050 A	Yes	Aqueous	Wheatstone Bridge
CYANIDE			
ASTM D 7511-12 (17) (Total)	Yes	Aqueous	Amperometric
Kelada-01 (Total)	Yes	Aqueous	Automated UV and Colorimetric
SW-846 9014 (Available) (Colorimetric)	Yes	BOTH	Colorimetric
SW-846 9014 (Total) (Colorimetric)	Yes	BOTH	Colorimetric
OIA-1677-09 (Available)	No		FIA/Ligand Exchange
SM 4500 CN ⁻ F-2016 (Total)	Yes	BOTH	Ion Selective Electrode
SM 4500 CN ⁻ E-2016 (Total)	Yes	BOTH	Manual Colorimetric
(Block Digestion) Lachat 10-204-00-1-X, Rev. 2.2, 2005 (Total)	Yes	BOTH	Semi-Automated
(SM 4500 CN C-2016) Lachat 10-204-00-1-X, Rev. 2.2, 2005 (Total)	Yes	BOTH	Semi-Automated
EPA 335.4, Rev. 1.0, 1993 (Total)	Yes	Aqueous	Semi-Automated
Lachat 10-204-00-1-X, Rev. 2.2, 2005 (EPA 335.4, Rev. 1.0, 1993 (Total))	Yes	Aqueous	Semi-Automated
Lachat 10-204-00-1-X, Rev. 2.2, 2005 (SM 4500 CN E -2016 Automated) (Total)	Yes	Aqueous	Semi-Automated
Lachat 10-204-00-1-X, Rev. 2.2, 2005 (SW-846 9012B) (Total)	Yes	BOTH	Semi-Automated
Lachat 10-204-00-1-X, Rev. 2.2, 2005 (Total)	Yes	BOTH	Semi-Automated
SW-846 9012 B (Amenable)	Yes	BOTH	Semi-Automated
SW-846 9012 B (Total)	Yes	BOTH	Semi-Automated
SM 4500 CN ⁻ G-2016 (SM 4500 CN ⁻ E-2016) (Available)	Yes	BOTH	Spectrophotometric
SM 4500 CN ⁻ D-2016 (Total)	Yes	BOTH	Titrimetric
SM 4500 CN ⁻ G-2016 (SM 4500 CN ⁻ D-2016)(Available)	Yes	BOTH	Titrimetric
DISSOLVED OXYGEN			
ASTM D 888-12 B	No		Membrane Electrode
SM 4500 O G-2016	No		Membrane Electrode

ASTM D 888-012 C	No		LDO
Hach 10360-2011, Rev. 1.2	No		LDO
SM 4500 O H-2016	No		LDO
SM 4500 O C-2016	No		Winkler
FLASH POINT			
SW-846 1010 B (D93-79)	Yes	Aqueous	Closed-Cup Tester (Pensky-Martens)
SW-846 1010 B (D93-80)	Yes	Aqueous	Closed-Cup Tester (Pensky-Martens)
SW-846 1010 B (D8175-18)	Yes	Aqueous	Closed-Cup Tester (Pensky-Martens)
SW-846 1020 C (D3278-78)	Yes	Aqueous	Closed-Cup Tester (Small Scale)
SW-846 1020 C (D8174-18)	Yes	Aqueous	Closed-Cup Tester (Small Scale)
FLUORIDE			
SM 4500 F ⁻ E-2011	Yes	Aqueous	Automated
SM 4500 F ⁻ C-2011	Yes	Aqueous	Electrode
SW-846 9214	Yes	BOTH	Electrode
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
SM 4500 F ⁻ D-2011	Yes	Aqueous	Manual Colorimetric
HARDNESS TOTAL			
EPA 130.1, 1971	Yes	Aqueous	Automated
SM 2340 B-2011 (Ca EPA 200.7, Rev. 4.4, 1994 + Mg EPA 200.7, Rev. 4.4, 1994)	Yes	Aqueous	Calculation
SM 2340 B-2011 (Ca EPA 200.8, Rev. 5.4, 1994 + Mg EPA 200.8, Rev. 5.4, 1994)	Yes	Aqueous	Calculation
SM 2340 B-2011 (Ca SM 3111B-2011 + Mg SM 3111B-2011)	Yes	Aqueous	Calculation
SM 2340 B-2011 (Ca SM 3120B-2011 + Mg SM 3120B-2011)	Yes	Aqueous	Calculation
SM 2340 B-2011 (Ca EPA 200.7, Rev. 4.4, 1994 + Mg EPA 200.7, Rev. 4.4, 1994)	Yes	Aqueous	Calculation
SM 2340 C-2011	Yes	Aqueous	Titrimetric (EDTA)
IGNITABILITY			
SW-846 1030	No		Powder Train
INORGANIC PHENOLS			
EPA 420.4, Rev. 1.0, 1993	Yes	Aqueous	Colorimetric, Automated
SW-846 9066	Yes	Aqueous	Colorimetric, Automated
EPA 420.1, Rev. 1978	Yes	Aqueous	Colorimetric, Manual
SW-846 9065	Yes	Aqueous	Colorimetric, Manual
MBAS			
SM 5540 C-2011	Yes	Aqueous	Manual Colorimetric
NITROGEN, AMMONIA			
EPA 350.1, Rev. 2.0, 1993	Yes	Aqueous	Automated Phenate/Salicylate
EPA 350.1, Rev. 2.0, 1993 [SEAL 154-A]	Yes	Aqueous	Automated Phenate/Salicylate
SM 4500 NH3 G-2011	Yes	Aqueous	Automated Phenate/Salicylate
SM 4500 NH3 H-2011	Yes	Aqueous	Automated Phenate/Salicylate
SM 4500 NH3 D-2011	Yes	Aqueous	Electrode
ASTM D 6919-09	Yes	Aqueous	IC
SM 4500 NH3 F-2011	Yes	Aqueous	Manual Phenate/Salicylate
ASTM D 1426-08 A	Yes	Aqueous	Nesslerization
USGS I-3520-85	Yes	Aqueous	Nesslerization
SM 4500 NH3 C-2011	Yes	Aqueous	Titrimetric
NITROGEN, NITRATE			
(NO3 + NO2 SM 4500-NO3 ⁻ F-2016) - (NO2 SM 4500-NO3 ⁻ F-2016)	Yes	Aqueous	Automated Bypass/ Cadmium Reduction
SM 4500 NO3 ⁻ F-2016	Yes	Aqueous	Automated Bypass/ Cadmium Reduction
(NO3 + NO2 SM 4500-NO3 ⁻ F-2016) - (NO2 SM 4500-NO2 ⁻ B-2011)	Yes	Aqueous	Automated Bypass Cadmium Reduction/ Manual Colorimetric
(NO3 + NO2 SM 4500-NO3 ⁻ H-2016) - (NO2 SM 4500-NO2 ⁻ B-2011 [Automated])	Yes	Aqueous	Automated Hydrazine/ Manual Colorimetric
(NO3 + NO2 EPA 353.2, Rev. 2.0, 1993) - (NO2 EPA 353.2, Rev. 2.0, 1993)	Yes	Aqueous	Cadmium Reduction, Automated
(NO3 + NO2 EPA 353.2, Rev. 2.0, 1993) - (NO2 EPA 300.0, Rev. 2.1, 1993)	Yes	Aqueous	Cadmium Reduction, Automated/ IC
(NO3 + NO2 EPA 353.2, Rev. 2.0, 1993) - (NO2 SW-846 9056 A)	Yes	Aqueous	Cadmium Reduction, Automated/ IC
(NO3 + NO2 EPA 353.2, Rev. 2.0, 1993) - (NO2 SM 4500-NO2 ⁻ B-2011)	Yes	Aqueous	Cadmium Reduction, Automated/ Manual Colorimetric
(NO3 + NO2 EPA 353.2, Rev. 2.0, 1993) [SEAL 126-A]- (NO2 SM 4500-NO2 ⁻ F-2016) [SEAL 137-A]	Yes	Aqueous	Cadmium Reduction, Automated/ Manual Colorimetric
(NO3 + NO2 SM 4500-NO3 ⁻ E-2000) - (NO2 SM 4500-NO3 ⁻ E-2000)	Yes	Aqueous	Cadmium Reduction, Manual
(NO3 + NO2 SM 4500-NO3 ⁻ E-2016) - (NO2 SM 4500-NO2 ⁻ B-2011)	Yes	Aqueous	Cadmium Reduction, Manual Colorimetric

EPA 352.1, 1971	Yes	Aqueous	Colorimetric, Brucine
SM 4500 NO3 ⁻ D-2016	Yes	Aqueous	Electrode
(NO3 + NO2 EPA 300.0, Rev. 2.1, 1993) - (NO2 EPA 300.0, Rev. 2.1, 1993)	Yes	BOTH	IC
(NO3 + NO2 SM 4110 B-2011) - (NO2 SM 4110 B-2011)	Yes	Aqueous	IC
(NO3 + NO2 SW-846 9056 A) - (NO2 SW-846 9056 A)	Yes	BOTH	IC
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
Hach 10206	Yes	Aqueous	Spectrophotometric
(NO3 + NO2 Easy [1-Reagent], Rev. 2011) -(NO2 Easy [1-Reagent], Rev. 2011)	Yes	Aqueous	Vendor Specific
NITROGEN, NITRITE			
EPA 353.2, Rev. 2.0, 1993	Yes	Aqueous	Cadmium Bypass, Automated Colorimetric
SM 4500-NO3 ⁻ F-2016	Yes	Aqueous	Cadmium Bypass, Automated Colorimetric
ASTM D 3867-04 B	Yes	Aqueous	Cadmium Bypass, Manual Colorimetric
SM 4500-NO3 ⁻ E-2016	Yes	Aqueous	Cadmium Bypass, Manual Colorimetric
SM 4500-NO2 ⁻ B-2011 (Automated)	Yes	Aqueous	Colorimetric, Automated
Hach 8507	Yes	Aqueous	Colorimetric, Manual
SM 4500-NO2 ⁻ B-2011	Yes	Aqueous	Colorimetric, Manual
Easy (1-Reagent), 2011	Yes	Aqueous	Discrete Analyzer
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
NITROGEN, NO3 + NO2			
SM 4500 NO3 ⁻ H-2016	Yes	Aqueous	Automated Hydrazine
EPA 353.2, Rev. 2.0, 1993	Yes	Aqueous	Cadmium Reduction, Automated
EPA 353.2, Rev. 2.0, 1993 [SEAL 126-A]	Yes	Aqueous	Cadmium Reduction, Automated
SM 4500 NO3 ⁻ F-2016	Yes	Aqueous	Cadmium Reduction, Automated
SM 4500 NO3 ⁻ E-2016	Yes	Aqueous	Cadmium Reduction, Manual
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
Hach 10206	Yes	Aqueous	Spectrophotometric
NITROGEN, NO3 + NO2 - NeCi Method N07-0003, Rev. 9.0, 2014	Yes	Aqueous	
Easy (1-Reagent), 2011	Yes	Aqueous	Vendor Specific
NITROGEN, TOTAL KJELDAHL			
EPA 351.1, Rev. 1978	Yes	Aqueous	Automated Phenate
USGS I-4515-91	Yes	Aqueous	Automated Photometric with Gas Diffusion
SM 4500 Norg B-2011 (NH3 EPA 350.1, Rev. 2.0, 1993)	Yes	Aqueous	Macro/Automated Phenate
SM 4500 Norg B-2011 (SM 4500 NH3 G-2011)	Yes	BOTH	Macro/Automated Phenate
SM 4500 Norg B-2011 (SM 4500 NH3 D-2011)	Yes	BOTH	Macro/Electrode
SM 4500 Norg B-2011 (SM 4500 NH3 E-2011)	Yes	BOTH	Macro/Electrode
SM 4500 Norg B-2011 (SM 4500 NH3 F-2011)	Yes	BOTH	Macro/Manual Phenate
SM 4500 Norg B-2011 (SM 4500 NH3 C-2011)	Yes	BOTH	Macro/Titration
EPA 351.2, Rev. 2.0, 1993	Yes	Aqueous	Semi-Automated Phenate
SM 4500 Norg D-2011	Yes	Aqueous	Semi-Automated Phenate
SM 4500 Norg C-2011 (NH3 EPA 350.1, Rev. 2.0, 1993)	Yes	Aqueous	Semi-Micro/Automated Phenate
SM 4500 Norg C-2011 (SM 4500 NH3 G-2011)	Yes	BOTH	Semi-Micro/Automated Phenate
SM 4500 Norg C-2011 (SM 4500 NH3 D-2011)	Yes	BOTH	Semi-Micro/Electrode
SM 4500 Norg C-2011 (SM 4500 NH3 E-2011)	Yes	BOTH	Semi-Micro/Electrode
SM 4500 Norg C-2011 (SM 4500 NH3 F-2011)	Yes	BOTH	Semi-Micro/Manual Phenate
SM 4500 Norg C-2011 (SM 4500 NH3 C-2011)	Yes	BOTH	Semi-Micro/Titration
Hach 10242	Yes	BOTH	Spectrophotometric
Devarda's Alloy EPA 351.2, Rev. 2.0, 1993 - Animal Waste only	No		Semi-Automated Phenate
OIL & GREASE			
EPA 1664 Rev. B	Yes	Aqueous	Gravimetric, HEM
SM 5520 B-2011	Yes	Aqueous	Gravimetric, HEM
SW-846 9070 A	Yes	Aqueous	Gravimetric, HEM
SW-846 9071 B [matrix-specific method]	Yes	Non-Aqueous	Gravimetric, HEM
ORGANIC CARBON, DISSOLVED			
SM 5310 B-2014 (Combustion)	Yes	Aqueous	Combustion
SW-846 9060 A (Combustion)	Yes	Aqueous	Combustion
SM 5310 C-2014 (Heated Persulfate)	Yes	Aqueous	Heated Persulfate

SM 5310 D-2011 (Heated Persulfate)	Yes	Aqueous	Heated Persulfate
SW-846 9060 A (Heated Persulfate)	Yes	Aqueous	Heated Persulfate
SM 5310 C-2014 (UV Oxidation)	Yes	Aqueous	UV Oxidation
SM 5310 D-2011 (UV Oxidation)	Yes	Aqueous	UV Oxidation
SW-846 9060 A (UV Oxidation)	Yes	Aqueous	UV Oxidation
ORGANIC CARBON, TOTAL			
SM 5310 B-2014 (Combustion)	Yes	Aqueous	Combustion
SW-846 9060 A (Combustion)	Yes	Aqueous	Combustion
SM 5310 C-2014 (Heated Persulfate)	Yes	Aqueous	Heated Persulfate
SM 5310 D-2011 (Heated Persulfate)	Yes	Aqueous	Heated Persulfate
SW-846 9060 A (Heated Persulfate)	Yes	Aqueous	Heated Persulfate
SM 5310 C-2014 (UV Oxidation)	Yes	Aqueous	UV Oxidation
SM 5310 D-2011 (UV Oxidation)	Yes	Aqueous	UV Oxidation
SW-846 9060 A (UV Oxidation)	Yes	Aqueous	UV Oxidation
PAINT FILTER LIQUIDS			
SW-846 9095B	No		Gravimetric
pH			
NCDA Procedure-Animal Waste Only	No		Electrode
SM 4500 H+B-2011	Yes	Aqueous	Electrode
SW-846 9040 C	Yes	Aqueous	Electrode
SW-846 9045 D	No		Electrode
EPA 150.2, 1982	Yes	Aqueous	Electrode, Automated
PHOSPHATE, ORTHO			
SM 4500 P F-2011	Yes	Aqueous	Ascorbic Acid, Automated
EPA 365.1, Rev. 2.0, 1993	Yes	Aqueous	Ascorbic Acid, Automated
SM 4500 P E-2011	Yes	Aqueous	Ascorbic Acid, Manual
Hach 10209 TNT	Yes	Aqueous	Colorimetric
EPA 365.3, 1978	Yes	Aqueous	Colorimetric, Ascorbic Acid, 2 Rgt Manual
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
PHOSPHORUS, TOTAL			
SM 4500 P F-2011	Yes	Aqueous	Ascorbic Acid, Automated
SM 4500 P G-2011	Yes	Aqueous	Ascorbic Acid, Automated
SM 4500 P H-2011	Yes	Aqueous	Ascorbic Acid, Automated
EPA 365.1, Rev. 2.0, 1993	Yes	Aqueous	Ascorbic Acid, Automated
EPA 365.1, Rev. 2.0, 1993 [SEAL 134-A Rev. 5]	Yes	Aqueous	Ascorbic Acid, Automated
SM 4500 P E-2011	Yes	Aqueous	Ascorbic Acid, Manual
Hach 10210 TNT	Yes	Aqueous	Colorimetric
Hach 8190 TNT	Yes	Aqueous	Colorimetric
EPA 365.3, 1978	Yes	Aqueous	Colorimetric, Ascorbic Acid, 2 Rgt Manual
EPA 365.4, 1974	Yes	Aqueous	Colorimetric, Semi-Automated
EPA 200.7, Rev. 4.4 (1994)	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
Mehlich 3 Extraction - EPA 200.7, Rev.4.4, 1994 - Animal Waste only	No		Prep
Mehlich 3 Extraction - EPA 365.1, Rev. 2.0, 1993 - Animal Waste only	No		Prep
Mehlich 3 Extraction - EPA 365.3, 1978 - Animal Waste only	No		Prep
Mehlich 3 Extraction - EPA 365.4, 1974 - Animal Waste only	No		Prep
Mehlich 3 Extraction - SM 4500 P E-2011 - Animal Waste only	No		Prep
Mehlich 3 Extraction - SM 4500 P F-2011 - Animal Waste only	No		Prep
Mehlich 3 Extraction - SM 4500 P G-2011 - Animal Waste only	No		Prep
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep -ICP/AES
USGS I-4610-91	Yes	Aqueous	Semi-Automated Block Digestion w/ Continuous Flow Analysis
RESIDUE, DISSOLVED 180 C			
SM 2540 C-2015	Yes	Aqueous	Gravimetric
ASTM D5907-13	Yes	Aqueous	Gravimetric
RESIDUE, SETTLEABLE			
SM 2540 F-2015	Yes	Aqueous	Volumetric
RESIDUE, SUSPENDED			
SM 2540 D-2015	Yes	Aqueous	Gravimetric
RESIDUE, TOTAL			
SM 2540 B-2015	Yes	Aqueous	Gravimetric
SM 2540 G-2015	Yes	Non-Aqueous	Gravimetric
RESIDUE, VOLATILE			
SM 2540 E-2015	Yes	Aqueous	Gravimetric
SM 2540 G-2015	Yes	Non-Aqueous	Gravimetric

EPA 160.4, 1971	Yes	BOTH	Gravimetric
SALINITY			
SM 2520 B-2010	No		Conductivity
SILICA			
SM 4500 SiO ₂ C-2011	Yes	Aqueous	Colorimetric, Manual
EPA 200.7, Rev. 4.4, 1994	Yes	Aqueous	ICP/AES
SM 3120 B-2011	Yes	Aqueous	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
SW-846 6020 B	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	Aqueous	ICP/MS
SULFATE			
EPA 375.2, Rev. 2.0, 1993 (Aqueous)	Yes	Aqueous	Colorimetric, Automated
SM 4500 SO ₄ ²⁻ C-2011	Yes	Aqueous	Gravimetric
SM 4500 SO ₄ ²⁻ D-2011	Yes	Aqueous	Gravimetric
EPA 300.0, Rev. 2.1, 1993	Yes	BOTH	IC
EPA 300.1-1, Rev. 1.0, 1997	Yes	Aqueous	IC
SM 4110 B-2011	Yes	Aqueous	IC
SW-846 9056 A	Yes	BOTH	IC
ASTM D 516-16	Yes	Aqueous	Turbidimetric
Hach 8051	Yes	Aqueous	Turbidimetric
SM 4500 SO ₄ ²⁻ E-2011	Yes	Aqueous	Turbidimetric
SW-846 9038	Yes	Aqueous	Turbidimetric
SULFIDE			
Hach 8131	Yes	Aqueous	Colorimetric, (methylene blue)
SM 4500 S ²⁻ D-2011	Yes	BOTH	Colorimetric, (methylene blue)
SM 4500 S ²⁻ F-2011	Yes	BOTH	Titrimetric (iodine)
SW-846 9031 [matrix-specific method]	Yes	Non-Aqueous	Titrimetric (iodine)
SW-846 9034	Yes	BOTH	Titrimetric (iodine)
SULFITE			
Hach 8071	No		Titrimetric (iodine-iodate)
SM 4500 SO ₃ ²⁻ B-2011	No		Titrimetric (iodine-iodate)
TEMPERATURE			
SM 2550 B-2010	No		Thermometric
USGS 1975	No		Thermometric
TURBIDITY			
EPA 180.1, Rev. 2.0, 1993	Yes	Aqueous	Nephelometric
SM 2130 B-2011	Yes	Aqueous	Nephelometric
Mitchell Method M5271, Rev. 1.0, July, 31, 2008	Yes	Aqueous	Laser Nephelometry
Mitchell Method M5271, Rev. 1.0, July, 31, 2008 (Inline)	No		Laser Nephelometry
VECTOR ATTRACTION REDUCTION			
VECTOR ATTRACTION REDUCTION: OPTION 1	No		Reduction in Volatile Solids
VECTOR ATTRACTION REDUCTION: OPTION 2	No		Anaerobic Batch Digestion
VECTOR ATTRACTION REDUCTION: OPTION 3	No		Additional Digestion of Sludge
VECTOR ATTRACTION REDUCTION: OPTION 4	No		Specific Oxygen Uptake Rate
VECTOR ATTRACTION REDUCTION: OPTION 5	No		Aerobic Processes at Greater Than 40°C
VECTOR ATTRACTION REDUCTION: OPTION 6	No		Addition of Alkali
VECTOR ATTRACTION REDUCTION: OPTION 7	No		Moisture Reduction without Solids
VECTOR ATTRACTION REDUCTION: OPTION 8	No		Moisture Reduction with Solids
VECTOR ATTRACTION REDUCTION: OPTION 12	No		Raising the pH of Domestic Septage
METALS METALS METALS METALS METALS METALS			
PARAMETER/METHOD	PT REQUIRED	MATRICES REQUIRED	TECHNOLOGY/ METHODOLOGY
SPLP METALS	No		
TCLP METALS	No		
ALUMINUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 E-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SM 3500-Al B-2011	Yes	BOTH	Colorimetric, Manual (Eriochrome Cyanine R)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
ANTIMONY			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration

SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
ARSENIC			
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SW-846 7062	Yes	BOTH	AA, Biohydride
SW-846 7061 A	Yes	BOTH	AA, Gaseous Hydride
SM 3114 B-2011	Yes	BOTH	GHAA
SM 3114 C-2011	Yes	BOTH	GHAA
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
USGS I-4020-05	Yes	Aqueous	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
BARIUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
BERYLLIUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
BORON			
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
CADMIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SM 3500-Cd D-1990	Yes	BOTH	Colorimetric, (Dithizone)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
CALCIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep -ICP/AES

SM 3500-Ca B-2011	Yes	BOTH	Titrimetric (EDTA)
CHROMIUM HEXAVALENT			
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
Hach 8023	Yes	BOTH	Colorimetric, (Di-pehnyl-carbazide)
SM 3500-Cr-B-2011	Yes	BOTH	Colorimetric, (Di-pehnyl-carbazide)
SW-846 7196 A	Yes	BOTH	Colorimetric, (Di-pehnyl-carbazide)
EPA 218.6, Rev. 3.3, 1994	Yes	Aqueous	IC
EPA 218.7, Rev. 1.0, 2011 [NCAC .02L Variance]	Yes	Aqueous	IC
SM 3500-Cr-C-2011	Yes	Aqueous	IC
SW-846 7199	Yes	BOTH	IC
CHROMIUM TOTAL			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SM 3500-Cr B-2011	Yes	Aqueous	Colorimetric, (Di-pehnyl-carbazide)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
USGS I-4020-05	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
COBALT			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
COPPER			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
Hach 8506	Yes	BOTH	Bicinchoninate
SM 3500-Cu B-2011	Yes	BOTH	Colorimetric, (Neocuproine)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
USGS I-4020-05	Yes	Aqueous	ICP/MS
Mehlich 3 Extraction - EPA 200.7, Rev.4.4, 1994 - Animal Waste only	No		Prep
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep -ICP/AES
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
IRON			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SM 3500-Fe-2011	Yes	BOTH	Colorimetric, (Phenanthroline)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
LEAD			

SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
Hach 8033	Yes	BOTH	Colorimetric, (Dithizone)
SM 3500-Pb B-2011	Yes	BOTH	Colorimetric, (Dithizone)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
USGS I-4471-97	Yes	Aqueous	ICP/AES OR MS
LITHIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
SW-846 6020 B	Yes	BOTH	ICP/MS
MAGNESIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Mehlich 3 Extraction - EPA 200.7, Rev.4.4, 1994 - Animal Waste only	No		Prep -ICP/AES
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep -ICP/AES
MANGANESE			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SM 3500-Mn B-2011	Yes	BOTH	Colorimetric, (Persulfate)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Hach 8034	Yes	BOTH	Periodate Oxidation
Mehlich 3 Extraction - EPA 200.7, Rev.4.4, 1994 Animal Waste only	No		Prep -ICP/AES
Mehlich 3 Extraction - SW-846 6010 D Animal Waste only	No		Prep -ICP/AES
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
MERCURY			
EPA 245.2, 1974	Yes	Aqueous	Cold vapor, Automated
EPA 245.1, Rev. 3.0, 1994	Yes	Aqueous	Cold vapor, Manual
SM 3112 B-2011	Yes	BOTH	Cold vapor, Manual
SW-846 7470 A	Yes	BOTH	Cold vapor, Manual
SW-846 7471 B [matrix-specific method]	Yes	Non-Aqueous	Cold vapor, Manual
EPA 245.7, Rev. 2.0, 2005	Yes	Aqueous	CVAFS
USGS I-4464-01	Yes	Aqueous	CVAFS
EPA 1631 E	Yes	Aqueous	CVAFS, Purge and Trap
SW-846 6010 D	Yes	BOTH	ICP/AES
SW-846 6020 B	Yes	BOTH	ICP/MS
MOLYBDENUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
NICKEL			

SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	Aqueous	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
POTASSIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep/ICP/AES
SELENIUM			
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
SM 3114 B-2011	Yes	BOTH	AA, Gaseous Hydride
SW-846 7741 A	Yes	BOTH	AA, Gaseous Hydride
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
USGS I-4020-05	Yes	Aqueous	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
SILVER			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	BOTH	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
SODIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Mehlich 3 Extraction - SW-846 6010 D - Animal Waste only	No		Prep -ICP/AES
STRONTIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
SW-846 6020 B	Yes	BOTH	ICP/MS
THALLIUM			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 279.2, 1978	Yes	Aqueous	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS

EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
TIN			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SM 3113 B-2010	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
EPA 200.9, Rev. 2.2, 1994	Yes	BOTH	STGFAA
TITANIUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
EPA 283.2, 1978	Yes	BOTH	AA Furnace
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
VANADIUM			
SM 3111 D-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
SW-846 7010	Yes	BOTH	AA Furnace
SM 3500-V B-2011	Yes	BOTH	Colorimetric, (Gallic Acid)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
ZINC			
SM 3111 B-2011	Yes	BOTH	AA Direct Aspiration
SM 3111 C-2011	Yes	BOTH	AA Direct Aspiration
SW-846 7000 B	Yes	BOTH	AA Direct Aspiration
EPA 289.2, 1978	Yes	BOTH	AA Furnace
SW-846 7010	Yes	BOTH	AA Furnace
Hach 8009	Yes	BOTH	Colorimetric, (Zincon)
SM 3500-Zn B-2011	Yes	BOTH	Colorimetric, (Zincon)
EPA 200.7, Rev. 4.4, 1994	Yes	BOTH	ICP/AES
SM 3120 B-2011	Yes	BOTH	ICP/AES
SW-846 6010 D	Yes	BOTH	ICP/AES
USGS I-4471-97	Yes	Aqueous	ICP/AES OR MS
EPA 200.8, Rev. 5.4, 1994	Yes	BOTH	ICP/MS
SW-846 6020 B	Yes	BOTH	ICP/MS
Mehlich 3 Extraction - EPA 200.7, Rev.4.4, 1994 Animal Waste only	No		Prep -ICP/AES
Mehlich 3 Extraction - SW-846 6010 D Animal Waste only	No		Prep -ICP/AES
ORGANICS ORGANICS ORGANICS ORGANICS ORGANICS			
PARAMETER/METHOD	PT REQUIRED	MATRICES REQUIRED	TECHNOLOGY/ METHODOLOGY
1,2, DIBROMOETHANE (EDB)			
EPA 504.1 (Includes DBCP & TCP)	Yes	Aqueous	GC
SW-846 8011 (Includes DBCP)	Yes	Aqueous	GC
ACROLEIN, ACRYLONITRILE, ACETONITRILE			
EPA 603 (Acrolein& Acrylonitrile)	Yes	Aqueous	GC
SW-846 8031 (Acrylonitrile)	Yes	BOTH	GC
SW-846 8033 (Acetonitrile)	Yes	BOTH	GC
ADSORBABLE ORGANIC HALIDES			
EPA 1650, Rev. C, 1997	No		Adsorption/ Titration
BASE NEUTRAL/ACID, ORGANICS			
EPA 1625 B	Yes	Aqueous	GC/MS
EPA 625.1, Dec. 2016	Yes	Aqueous	GC/MS
SM 6410 B-2000	Yes	Aqueous	GC/MS
SW-846 8270 D	Yes	BOTH	GC/MS
BENZIDINES			
EPA 605	Yes	Aqueous	HPLC
CHLORINATED ACID HERBICIDES			
EPA 615	Yes	Aqueous	GC
SM 6640 B-2005	Yes	Aqueous	GC
SW-846 8151 A	Yes	BOTH	GC
SW-846 8321 B	Yes	BOTH	GC

CHLORINATED HYDROCARBONS			
EPA 612	Yes	Aqueous	GC
SW-846 8121	Yes	BOTH	GC
CHLORINATED PHENOLICS			
EPA 1653, Rev. A, 1997	No		GC/MS
EXPLOSIVES			
SW-846 8332	No		HPLC
EXTRACTABLE PETROLEUM HYDROCARBONS			
MADEP, December 2019, Rev. 2.1	No		GC
HALOETHERS			
EPA 611	Yes	Aqueous	GC
SW-846 8111	Yes	BOTH	GC
NITROAROMATICS & ISOPHORONE			
EPA 609	Yes	Aqueous	GC
NITROAROMATICS & NITRAMINES			
SW-846 8330 A	Yes	BOTH	HPLC
NITROSAMINES			
EPA 607	Yes	Aqueous	GC
SW-846 8070 A	Yes	Non-Aqueous	GC
N-METHYLCARBAMATES			
EPA 632	Yes	Aqueous	GC
SW-846 8318 A	Yes	BOTH	GC
NONHALOGENATED VOLATILE, ORGANICS			
SW-846 8015 C	No		GC
ORGANIC PHENOLS			
EPA 604	Yes	Aqueous	GC
SM 6420 B-2000	Yes	Aqueous	GC
SW-846 8041 A	Yes	Non-Aqueous	GC
PESTICIDES, ORGANOCHLORINE			
EPA 608.2	Yes	Aqueous	GC
EPA 608.3	Yes	Aqueous	GC
SM 6630 B-2007	Yes	Aqueous	GC
SM 6630 C-2007	Yes	Aqueous	GC
SW-846 8081 B	Yes	BOTH	GC
PESTICIDES, ORGANOPHOSPHORUS			
EPA 614	Yes	Aqueous	GC
SW-846 8141 B	Yes	BOTH	GC
PHTHALATE ESTERS			
EPA 606	Yes	Aqueous	GC
SM 6410 B-2000	Yes	Aqueous	GC
SW-846 8061 A	Yes	BOTH	GC
POLYCHLORINATED BIPHENYLS (PCBs)			
EPA 608.3	Yes	Aqueous	GC
EPA 625.1, Dec. 2016	Yes	Aqueous	GC
SM 6410 B-2000	Yes	Aqueous	GC
SW-846 8082 A (Aqueous, non-Aqueous and Oil)	Yes	ALL	GC
POLYNUCLEAR AROMATIC HYDROCARBONS			
SW-846 8100	Yes	Non-Aqueous	GC
EPA 610	Yes	Aqueous	GC/HPLC
SM 6440 B-2005	Yes	Aqueous	GC/HPLC
SW-846 8310	Yes	BOTH	HPLC
PURGEABLE, AROMATICS			
EPA 602	Yes	Aqueous	GC
SM 6200 C-2011	Yes	Aqueous	GC
SW-846 8021 B	Yes	BOTH	GC
PURGEABLE, HALOCARBONS			
EPA 601	Yes	Aqueous	GC
SM 6200 C-2011	Yes	Aqueous	GC
SM 6230 B	Yes	Aqueous	GC
SW-846 8021 B	Yes	BOTH	GC
PURGEABLE, ORGANICS			
EPA 1624 B	Yes	Aqueous	GC/MS
EPA 624.1, December 2016	Yes	Aqueous	GC/MS
SM 6200 B-2011	Yes	Aqueous	GC/MS
SW-846 8260 D	Yes	BOTH	GC/MS
TOTAL ORGANIC HALIDES			
SW-846 9020 B	Yes	Aqueous	Microcoulometer - Titration Detector
TPH DIESEL RANGE, ORGANICS			
SW-846 8015 C	Yes	BOTH	GC
TPH GASOLINE RANGE, ORGANICS			
SW-846 8015 C	Yes	BOTH	GC
VOLATILE PETROLEUM HYDROCARBONS			

MADEP, Feb 2018, Rev. 2.1	No		GC