

NC DENR DWR WSS WW/GW Chemistry Lab
QA/QC PQLs

Dept	Unit	Parameter	Analyte	Analysis Method	PQLs		
					Aqueous	Non-Aqueous	Tissue
Inorganics	Metals	Aluminum	Al - ICP	EPA 200.7, Rev. 4.4, 1994	50 µg/L	5.0 mg/kg	1.0 mg/kg
Inorganics	Metals	Antimony	Sb - ICPMS	EPA 200.8 Rev. 5.4 1994	10 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Arsenic	As - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L		
Inorganics	Metals	Arsenic	As - ICPMS	EPA 200.8 Rev. 5.4 1994	2.0 µg/L	0.20 mg/kg	0.20 mg/kg
Inorganics	Metals	Arsenic	As - Furnace	EPA 200.9 Rev. 2.2 1994	2.0 µg/L		
Inorganics	Metals	Barium	Ba - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L	1.0 mg/kg	0.20 mg/kg
Inorganics	Metals	Beryllium	Be - ICP	EPA 200.7, Rev. 4.4, 1994	5.0 µg/L		
Inorganics	Metals	Beryllium	Be - ICPMS	EPA 200.8 Rev. 5.4 1994	5.0 µg/L	0.10 mg/kg	0.10 mg/kg
Inorganics	Metals	Boron	B - ICP	EPA 200.7, Rev. 4.4, 1994	50 ug/L	5.0 mg/kg	
Inorganics	Metals	Cadmium	Cd - ICPMS	EPA 200.8 Rev. 5.4 1994	0.50 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Cadmium	Cd - Furnace	EPA 200.9 Rev. 2.2 1994	0.50 µg/L		
Inorganics	Metals	Calcium	Ca - ICP	EPA 200.7, Rev. 4.4, 1994	0.10 mg/L	10.0 mg/kg	2.0 mg/kg
Inorganics	Metals	Chromium, Total	Cr - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L		0.20 mg/kg
Inorganics	Metals	Chromium, Total	Cr - ICPMS	EPA 200.8 Rev. 5.4 1994	5.0 µg/L	0.20 mg/kg	0.20 mg/kg
Inorganics	Metals	Cobalt	Co - ICP	EPA 200.7, Rev. 4.4, 1994	50 µg/L		
Inorganics	Metals	Cobalt	Co - ICPMS	EPA 200.8 Rev. 5.4 1994	50 µg/L	1.0 mg/kg	0.10 mg/kg
Inorganics	Metals	Copper	Cu - ICP	EPA 200.7, Rev. 4.4, 1994	20 µg/L		
Inorganics	Metals	Copper	Cu - ICPMS	EPA 200.8 Rev. 5.4 1994	2.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Copper	Cu - Furnace	EPA 200.9 Rev. 2.2 1994	2.0 µg/L		
Inorganics	Metals	Iron	Fe - ICP	EPA 200.7, Rev. 4.4, 1994	50 µg/L	5.0 mg/kg	1.0 mg/kg
Inorganics	Metals	Lead	Pb - ICP	EPA 200.7, Rev. 4.4, 1994	25 µg/L	5.0 mg/kg	
Inorganics	Metals	Lead	Pb - ICPMS	EPA 200.8 Rev. 5.4 1994	2.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Lead	Pb - Furnace	EPA 200.9 Rev. 2.2 1994	2.0 µg/L		
Inorganics	Metals	Lithium	Li - ICP	EPA 200.7, Rev. 4.4, 1994	25 µg/L	2.50 mg/kg	0.50 mg/kg
Inorganics	Metals	Magnesium	Mg - ICP	EPA 200.7, Rev. 4.4, 1994	0.10 mg/L	10.0 mg/kg	2.0 mg/kg
Inorganics	Metals	Manganese	Mn - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L	1.0 mg/kg	0.20 mg/kg
Inorganics	Metals	Manganese	Mn - ICPMS	EPA 200.8 Rev. 5.4 1994	10 µg/L	0.20 mg/kg	
Inorganics	Metals	Mercury	Hg Low Level	EPA 1631 E	1.0 ng/L		
Inorganics	Metals	Mercury	Hg	EPA 245.1, Rev. 3.0, 1994	0.20 µg/L	0.02 mg/kg	0.02 mg/kg
Inorganics	Metals	Mercury	Hg	EPA 245.5, Rev. 1.0, 2001	0.20 µg/L	0.02 mg/kg	0.02 mg/kg
Inorganics	Metals	Mercury	Hg	EPA 245.6, Rev. 2.3, 1991	0.20 µg/L	0.02 mg/kg	0.02 mg/kg
Inorganics	Metals	Molybdenum	Mo - ICPMS	EPA 200.8 Rev. 5.4 1994	10 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Nickel	Ni - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L	1.0 mg/kg	
Inorganics	Metals	Nickel	Ni - ICPMS	EPA 200.8 Rev. 5.4 1994	2.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Nickel	Ni - Furnace	EPA 200.9 Rev. 2.2 1994	2.0 µg/L		
Inorganics	Metals	Potassium	K - ICP	EPA 200.7, Rev. 4.4, 1994	0.10 mg/L	20.0 mg/kg	4.0 mg/kg
Inorganics	Metals	Selenium	Se - ICPMS	EPA 200.8 Rev. 5.4 1994	1.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Selenium	Se - Furnace	EPA 200.9 Rev. 2.2 1994	1.0 µg/L		
Inorganics	Metals	Silver	Ag - ICP	EPA 200.7, Rev. 4.4, 1994	5.0 µg/L		
Inorganics	Metals	Silver	Ag - ICPMS	EPA 200.8 Rev. 5.4 1994	1.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Silver	Ag - Furnace	EPA 200.9 Rev. 2.2 1994	1.0 µg/L		
Inorganics	Metals	Sodium	Na - ICP	EPA 200.7, Rev. 4.4, 1994	0.10 mg/L	10.0 mg/kg	2.0 mg/kg
Inorganics	Metals	Strontium	Sr - ICPMS	EPA 200.8 Rev. 5.4 1994	10 ug/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Thallium	Tl - ICPMS	EPA 200.8 Rev. 5.4 1994	2.0 µg/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Tin	Sn - ICPMS	EPA 200.8 Rev. 5.4 1994	10 ug/L	0.20 mg/kg	0.10 mg/kg
Inorganics	Metals	Titanium	Ti - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L	1.0 mg/kg	0.20 mg/kg
Inorganics	Metals	Vanadium	V - ICP	EPA 200.7, Rev. 4.4, 1994	10 µg/L	1.0 mg/kg	0.20 mg/kg
Inorganics	Metals	Zinc	Zn - ICP	EPA 200.7, Rev. 4.4, 1994	20 µg/L	2.0 mg/kg	0.20 mg/kg
Inorganics	Metals	Zinc	Zn - ICPMS	EPA 200.8 Rev. 5.4 1994	10 µg/L	0.20 mg/kg	0.20 mg/kg

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Dept	Unit	Parameter	Analyte	Analysis Method	PQLs		
					Aqueous	Non-Aqueous	Tissue
Inorganics	Micro	Alk to pH 4.5, total as CaCO ₃	Alkalinity 4.5	SM 2320 B 1997	1 mg/L		
Inorganics	Micro	Alk to pH 8.3, total as CaCO ₃	Alkalinity 8.3	SM 2320 B-1997	1 mg/L		
Inorganics	Micro	BOD ₅	BOD ₅	SM 5210 B- 2001	2.0mg/L		
Inorganics	Micro	CBOD ₅	CBOD ₅	SM 5210 B- 2001	2.0mg/L		
Inorganics	Micro	Coliform, E.coli	Ecoli - MPN Analysis by Quantitray	SM 9222 D -1998	1 cfu/100 ml		
Inorganics	Micro	Coliform, Fecal - MF	Coliform, Fecal - MF	SM 9222 D -1997	1 cfu/100 ml		
Inorganics	Micro	Coliform, Total - MF	Coliform, Total - MF	SM 9222 B -1997	1 cfu/100 ml		
Inorganics	Micro	Hardness	Hardness	SM 2340 C-2011	1 mg/L		
Inorganics	Micro	Specific Conductance	Specific Conductance	SM 2510 B-1997	14.9 umhos/cm		
Inorganics	Micro	TOC	TOC	SM 5310 B- 2000	2.0 mg/L		
Inorganics	Micro	Turbidity	Turbidity	SM 2130 B 2001	1 NTU		
Inorganics	Nutrients	Ammonia Nitrogen as N	NH3 as N	EPA 350.1, Rev. 2.0, 1993	0.1 mg/L		
Inorganics	Nutrients	Nitrate + Nitrite Nitrogen as N	NO2+NO3 as N	EPA 353.2, Rev. 2.0, 1993	0.06 mg/L		
Inorganics	Nutrients	Nitrite as N	NO2 as N	EPA 353.2, Rev. 2.0, 1993	0.02 mg/L		
Inorganics	Nutrients	OrthoPhosphate as P	Orthophosphate as P	EPA 365.1, Rev. 2.0, 1993	0.02 mg/L		
Inorganics	Nutrients	Phosphorous, Total as P	Phosphorus, Total as P	EPA 365.1, Rev. 2.0, 1993	0.03 mg/L		
Inorganics	Nutrients	Total Kjeldahl Nitrogen as N	TKN as N	EPA 351.2, Rev. 2.0, 1993	0.4 mg/L		
Inorganics	Wet Chem	Bromide	Bromide	EPA 300.0, Rev. 2.1, 1993	2.0 mg/L		
Inorganics	Wet Chem	Chemical Oxygen Demand	COD	SM 5220 D-2011	20 mg/L		
Inorganics	Wet Chem	Chloride	Chloride	EPA 300.0, Rev. 2.1, 1993	1 mg/L		
Inorganics	Wet Chem	Chlorophyll <i>a</i>	Chlorophyll <i>a</i>	EPA 445.0, Rev. 1.2, 1997	1 µg/L		
Inorganics	Wet Chem	Color, ADMI	Natural ADMI	SM 2120 E-2011	10 c.u.		
Inorganics	Wet Chem	Color, True	PTCO	SM 2120 B-2011	5 c.u.		
Inorganics	Wet Chem	Cyanide	Cyanide, Total	EPA 335.4, Rev. 1.0, 1993	0.005 mg/L		
Inorganics	Wet Chem	Fluoride	Fluoride	EPA 300.0, Rev. 2.1, 1993	0.40 mg/L		
Inorganics	Wet Chem	Grease & Oil	Grease & Oil	EPA 1664 B / SW-846-9071 B	10 mg/L	1000 mg/Kg	
Inorganics	Wet Chem	Hexavalent Chromium	Hexavalent Chromium	EPA 218.6, Rev. 1994	0.20 µg/L		
Inorganics	Wet Chem	MBAS	MBAS	SM 5540 C-2000	0.1 mg/L		
Inorganics	Wet Chem	Microcystin	Microcystin	EPA 546	0.40 µg/L		
Inorganics	Wet Chem	Phenol, Inorganic	Phenol, Inorganic	EPA 420.4, Rev. 1.0, 1993	400 µg/L		
Inorganics	Wet Chem	Residue, Suspended Fixed	Residue, Suspended Fixed	SM 2540 E-1997	2.5 mg/L		
Inorganics	Wet Chem	Residue, Suspended Volatile	Residue, Suspended Volatile	SM 2540 E-1997	2.5 mg/L		
Inorganics	Wet Chem	Residue, Total	Residue, Total	SM 2540 B-1997	12 mg/L		
Inorganics	Wet Chem	Residue, Total Dissolved	Residue, Total Dissolved	SM 2540 C 1997	12 mg/L		
Inorganics	Wet Chem	Residue, Total Fixed	Residue, Total Fixed	SM 2540 E-1997	12 mg/L		
Inorganics	Wet Chem	Residue, Total Suspended	Residue, Total Suspended	SM 2540 D-1997	2.5 mg/L		
Inorganics	Wet Chem	Residue, Total Volatile	Residue, Total Volatile	SM 2540 E-1997	12 mg/L		
Inorganics	Wet Chem	Silica	Silica	SM 4500-SiO2 C-2011	4 mg/L		
Inorganics	Wet Chem	Sulfate	Sulfate	EPA 300.0, Rev. 2.1, 1993	2 mg/L		
Inorganics	Wet Chem	Sulfide	Sulfide	SM 4500-S ₂ D&F-2000	2.0 mg/L		
Inorganics	Wet Chem	Tannin & Lignin	Tannin & Lignin		0.2 mg/L		

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Dept	Unit	Parameter	Analyte	Analysis Method	PQLs		
					Aqueous	Non-Aqueous	Tissue
Organics	Pesticides	Acid Herbicides	T, 2,4,5-	EPA 615 / SW-846 8151 A	0.2 µg/L	3.3 µg/Kg	
Organics	Pesticides	Acid Herbicides	TP, 2,4,5- (Silvex)	EPA 615 / SW-846 8151 A	0.2 µg/L	3.3 µg/Kg	
Organics	Pesticides	Acid Herbicides	D, 2,4-	EPA 615 / SW-846 8151 A	0.45 µg/L	7.4 µg/Kg	
Organics	Pesticides	Acid Herbicides	DB, 2,4-	EPA 615 / SW-846 8151 A	1.4 µg/L	23 µg/Kg	
Organics	Pesticides	Acid Herbicides	Dichlorobenzoic Acid, 3,5-	EPA 615 / SW-846 8151 A	0.2 µg/L	3.3 µg/Kg	
Organics	Pesticides	Acid Herbicides	Nitrophenol, 4-	EPA 615 / SW-846 8151 A	0.2 µg/L	3.3 µg/Kg	
Organics	Pesticides	Acid Herbicides	Acifluorfen (Blazer)	EPA 615 / SW-846 8151 A	0.3 µg/L	5.0 µg/Kg	
Organics	Pesticides	Acid Herbicides	Bentazon	EPA 615 / SW-846 8151 A	0.4 µg/L	6.6 µg/Kg	
Organics	Pesticides	Acid Herbicides	Dicamba	EPA 615 / SW-846 8151 A	0.2 µg/L	3.3 µg/Kg	
Organics	Pesticides	Acid Herbicides	Dichloroprop	EPA 615 / SW-846 8151 A	0.6 µg/L	9.9 µg/Kg	
Organics	Pesticides	Acid Herbicides	Dinoseb	EPA 615 / SW-846 8151 A	0.6 µg/L	9.9 µg/Kg	
Organics	Pesticides	Acid Herbicides	Pentachlorophenol (PCP)	EPA 615 / SW-846 8151 A	0.1 µg/L	1.7 µg/Kg	
Organics	Pesticides	Organochlorine	Aldrin	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	BHC-Alpha	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	BHC-Beta	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	BHC-Delta	EPA 608 / SW-846 8081 B	0.06 µg/L	4 µg/Kg	
Organics	Pesticides	Organochlorine	BHC-Gamma (Lindane)	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Chlordane, Alpha	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Chlordane, Gamma	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Chlorothalonil	EPA 608 / SW-846 8081 B	0.2 µg/L	13 µg/Kg	
Organics	Pesticides	Organochlorine	DDD, PP	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	DDE, PP	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	DDT, PP	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Dieldrin	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endosulfan I	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endosulfan II	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endosulfan Sulfate	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endrin	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endrin Aldehyde	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Endrin Ketone	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Heptachlor	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Heptachlor Epoxide	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Methoxychlor	EPA 608 / SW-846 8081 B	0.03 µg/L	2 µg/Kg	
Organics	Pesticides	Organochlorine	Toxaphene	EPA 608 / SW-846 8081 B	3 µg/L	200 µg/Kg	
Organics	Pesticides	Organonitrogen	Ametryn	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Atraton	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Atrazine	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Prometon	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Prometryn	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Propazine	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Sebumeton	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Simazine	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Simetryn	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Terbutylazine	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organonitrogen	Terbutryn (Prebane)	EPA 619 / SW-846 8141 B	10 µg/L	330 µg/Kg	
Organics	Pesticides	Organophosphorus	Azinphos methyl	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Demeton	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Diazinon	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Disulfoton	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Ethion	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Ethyl Parathion	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Malathion	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	Organophosphorus	Methyl Parathion	EPA 614 / SW-846 8141 B	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1016	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1021	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1032	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1042	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1048	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1054	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1260	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	
Organics	Pesticides	PCBs	Arochlor 1262	EPA 608.3 / SW-846 8082 A	1 µg/L	66 µg/Kg	

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Dept	Unit	Parameter	Analyte	Analysis Method	PQLs		
					Aqueous	Non-Aqueous	Tissue
Organics	SVOA	PFAS	11Cl-PF3OUdS	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	4:2 FTS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	6:2 FTS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	8:2 FTS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	9Cl-PF3ONS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	HFPO-DA	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	NaDONA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	N-EtFOSAA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	N-MeFOSAA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFBA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFBS	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFDA	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFDoA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFDoS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFDS	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFHpA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFHpS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFHxA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFHxS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFNA	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFNS	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFOA	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFOS	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFPeA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFPeS	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFTeDA	DWRPFAS	2 µg/L		
Organics	SVOA	PFAS	PFTTrDA	DWRPFAS	20 µg/L		
Organics	SVOA	PFAS	PFUnA	DWRPFAS	2 µg/L		

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					Aqueous	Non-Aqueous	Tissue
Organics	SVOA	SVOA	Acenaphthene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Acenaphthylene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Aniline	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Anthracene	EPA 625 / SW-846 8270 D	20 µg/L	10 µg/Kg	
Organics	SVOA	SVOA	Benzo(a)anthracene	EPA 625 / SW-846 8270 D	20 µg/L	10 µg/Kg	
Organics	SVOA	SVOA	Benzo(a)pyrene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Benzo(b)fluoranthene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Benzo(g,h,i)perylene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Benzo(k)fluoranthene	EPA 625 / SW-846 8270 D	30 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Benzoic acid	EPA 625 / SW-846 8270 D	50 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Benzyl alcohol	EPA 625 / SW-846 8270 D	30 µg/L	1300 µg/Kg	
Organics	SVOA	SVOA	Bis(2-chlorethyl)ether	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Bis(2-chloroethoxy)methane	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Bis(2-chloroisopropyl)ether	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Bis(2-ethylhexyl)phthalate	EPA 625 / SW-846 8270 D	30 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Bromophenyl phenyl ether, 4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Butylbenzyl phthalate	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Chloro-3-Methylphenol, 4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	4-Chloroaniline	EPA 625 / SW-846 8270 D	10 µg/L	1300 µg/Kg	
Organics	SVOA	SVOA	Chloronaphthalene, 2-	EPA 625 / SW-846 8270 D	10 µg/L	10 µg/Kg	
Organics	SVOA	SVOA	Chlorophenol, 2-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Chlorophenyl phenyl ether, 4-	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Chrysene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dibenzo(a,h)anthracene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dibenzofuran	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dichlorobenzene, 1,2-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dichlorobenzene, 1,3	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dichlorobenzene, 1,4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dichlorobenzidine, 3,3'-	EPA 625 / SW-846 8270 D	30 µg/L	1300 µg/Kg	
Organics	SVOA	SVOA	Dichlorophenol, 2,4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Diethyl phthalate	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dimethyl phthalate	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dimethylphenol, 2,4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Di-n-butyl phthalate	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dinitro-2-Methylphenol, 4,6-	EPA 625 / SW-846 8270 D	50 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Dinitrophenol, 2,4-	EPA 625 / SW-846 8270 D	100 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Dinitrotoluene, 2,4-	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Dinitrotoluene, 2,6-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Di-n-octyl phthalate	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Fluoranthene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Fluorene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Hexachlorobenzene (HCB)	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Hexachlorobutadiene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Hexachlorocyclopentadiene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Hexachloroethane	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Indeno(1,2,3-cd)-Pyrene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Isophorone	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Methylnaphthalene, 2-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Methylphenol, 2-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Methylphenol, 4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Naphthalene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Nitroaniline, 2-	EPA 625 / SW-846 8270 D	10 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	xNitroaniline 3-	EPA 625 / SW-846 8270 D	50 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Nitroaniline, 4-	EPA 625 / SW-846 8270 D	50 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Nitrobenzene	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Nitrophenol, 2-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Nitrophenol, 4-	EPA 625 / SW-846 8270 D	50 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	N-Nitrosodiphenylamine	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	N-Nitrosodipropylamine	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Pentachlorophenol	EPA 625 / SW-846 8270 D	30 µg/L	3300 µg/Kg	
Organics	SVOA	SVOA	Phenanthrene	EPA 625 / SW-846 8270 D	20 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Phenol	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Pyrene	EPA 625 / SW-846 8270 D	20 µg/L		
Organics	SVOA	SVOA	Trichlorobenzene, 1,2,4-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Trichlorophenol, 2,4,5-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	SVOA	Trichlorophenol, 2,4,6-	EPA 625 / SW-846 8270 D	10 µg/L	660 µg/Kg	
Organics	SVOA	TPH	TPH - DRO	SW-846 8015 C	0.5 mg/L	10 mg/Kg	

NC DENR DWR WSS WW/GW Chemistry Lab
QA/QC PQLs

Dept	Unit	Parameter	Analyte	Analysis Method	PQLs		
					Aqueous	Non-Aqueous	Tissue
Organics	VOA	Dioxane, 1,4-	Dioxane, 1,4-	EPA 624.1 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	TPH	TPH-GRO	SW-846 8015 C	1.0 mg/L	6 mg/kg	
Organics	VOA	VOA	Dibromoethane (EDB), 1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Tetrachloroethane, 1,1,1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichloroethane, 1,1,1-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Tetrachloroethane, 1,1,2,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichloroethane, 1,1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloroethene, 1,1-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloroethane, 1,1-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloropropene, 1,1-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichlorobenzene, 1,2,3-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichloropropane, 1,2,3-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichlorobenzene, 1,2,4-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trimethylbenzene, 1,2,4-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dibromo-3-Chloropropane, 1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	9 µg/Kg	
Organics	VOA	VOA	Dichloroethane, 1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloropropane, 1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trimethylbenzene, 1,3,5-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloropropane, 1,3-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichloropropane, 2,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Chlorotoluene, 2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Chlorotoluene, 4-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Benzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Bromobenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Bromochloromethane	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Bromodichloromethane	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Bromoform	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Bromomethane	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Carbon Tetrachloride	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Chlorobenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Chloroethane	EPA 624 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	VOA	Chloroform	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Chloromethane	EPA 624 / SW-846 8260 B	1.0 µg/L	9 µg/Kg	
Organics	VOA	VOA	Dichloroethene, cis-1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	VOA	Dichloropropene, cis-1,3-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dibromochloromethane	EPA 624 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	VOA	Dibromomethane	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichlorodifluoromethane	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Ethyl benzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Hexachlorobutadiene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Isopropylbenzene	EPA 624 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	VOA	m,p-Xylenes	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichlorobenzene, 1,3-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Methyl-tert-butyl ether	EPA 624 / SW-846 8260 B	1.0 µg/L	20 µg/Kg	
Organics	VOA	VOA	Methylene Chloride	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Naphthalene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	n-Butylbenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	n-Propylbenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichlorobenzene, 1,2-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	o-Xylene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Dichlorobenzene, 1,4-	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	p-isopropyltoluene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	sec-Butylbenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Styrene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	tert-Butylbenzene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Tetrachloroethene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Toluene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trans-1,2-Dichloroethene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	trans-1,3-Dichloropropene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichloroethene	EPA 624 / SW-846 8260 B	1.0 µg/L	10 µg/Kg	
Organics	VOA	VOA	Trichlorofluoromethane	EPA 624 / SW-846 8260 B	1.0 µg/L		
Organics	VOA	VOA	Vinyl Chloride	EPA 624 / SW-846 8260 B	1.0 µg/L		