

SPLIT SAMPLING QUALITY ASSURANCE PROGRAM - AUDIT REPORT

Permit Number: PE 107517
 Client Name: Teck Coal - Fording River
 Regional Office: Kootenay, Nelson
 EPD officer: Kelly Mills

Date of Last Amendment: Apr-2019
 Audit Table Version: 1902
 Amended by: Ken Murray
 Audit Date: 31 August 2022

Manual Data Entry Block											Automated Evaluation Block				
Audit No.	Requisition No.	Sample Site ID	Sample Location / Site Name	Sample Date	Sample Type	Parameter	Units	Reference LDL	Reference Results	Permit Results	Absolute Deviation	Acceptable Deviation	Deviation Factor	Points Assigned	Pass / Fail
Physical Tests											Conductivity				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-2019	WW	Specific Conductance	µS/cm	2.0	711.0	782	71.000	93.324	0.8	4	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-2020	WW	Specific Conductance	µS/cm	2.0	1220.0	1190	30.000	158.109	0.2	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-2021	WW	Specific Conductance	µS/cm	2.0	1120.0	1050	70.000	145.381	0.5	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Specific Conductance	µS/cm	2.0	1010	995	15.000	131.38	0.1	5	Pass
Physical Tests											Hardness				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Hardness (as CaCO ₃)	mg/L	0.50	433	470	37.000	161.450	0.2	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-2020	WW	Hardness (as CaCO ₃)	mg/L	0.60	731	730	1.000	272.218	0.0	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Hardness (as CaCO ₃)	mg/L	0.50	657	610	47.000	244.606	0.2	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Hardness (as CaCO ₃)	mg/L	0.50	563	565	2.000	209.710	0.0	5	Pass
Physical Tests											Total Suspended Solids (TSS) (aka Residue Nonfilterable) (NFR)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Residue Nonfilterable	mg/L	3.0	<3.0	<1.0	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Residue Nonfilterable	mg/L	1.0	<1.0	1.6	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Residue Nonfilterable	mg/L	1.0	<1.0	<1.0	NC	NC	NC	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Residue Nonfilterable	mg/L	3.0	3.1	1.9	1.200	4.900	0.2	5	Pass
Physical Tests											Total Dissolved Solids (aka Residue Filterable) (TDS)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Residue Filterable	mg/L	20	545	574	29.000	143.896	0.2	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Residue Filterable	mg/L	NR	NR	914	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Residue Filterable	mg/L	NR	NR	820	NC	NC	NC	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Residue Filterable	mg/L	10.0	850	766	84.000	194.454	0.4	5	Pass
Physical Tests											Total Solids				
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Total Solids	mg/L	10	1070	NR	NC	241.123	NC	0	Fail
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Total Solids	mg/L	10	974	NR	NC	220.759	NC	0	Fail
Physical Tests											Turbidity				
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Turbidity	NTU	0.10	0.22	0.26	0.040	0.186	0.2	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Turbidity	NTU	0.10	0.11	0.38	0.270	0.164	1.7	0	Fail
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Turbidity	NTU	0.10	0.40	0.41	0.010	0.222	0.0	5	Pass
Physical Tests											Alkalinity, Total (as CaCO₃)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Alkalinity, Total	mg/L	1.0	215	212	3.000	47.023	0.1	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Alkalinity, Total	mg/L	1.0	246	253	7.000	53.599	0.1	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Alkalinity, Total	mg/L	1.0	243	237	6.000	52.962	0.1	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Alkalinity, Total	mg/L	1.0	223	221	2.000	48.720	0.0	5	Pass
Anions and Nutrients											Ammonia, total (as N)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Ammonia	mg/L	0.0050	<0.0050	0.0077	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Ammonia	mg/L	0.0050	<0.0050	0.0088	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Ammonia	mg/L	0.0050	0.0058	0.0522	0.046	0.008	5.6	0	Fail
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Ammonia	mg/L	0.0050	0.0108	0.0246	0.014	0.009	1.5	2	Fail
Anions and Nutrients											Bromide				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Bromide	mg/L	0.25	<0.250	<0.050	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Bromide	mg/L	0.25	<0.250	<0.250	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Bromide	mg/L	0.05	<0.250	<0.250	NC	NC	NC	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Bromide	mg/L	0.050	<0.250	<0.050	NC	NC	NC	5	Pass
Anions and Nutrients											Chloride				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Chloride	mg/L	0.50	<2.50	0.77	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Chloride	mg/L	0.50	<2.50	1.92	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Chloride	mg/L	0.50	<2.50	2.03	NC	NC	NC	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Chloride	mg/L	0.50	3.70	3.56	0.140	1.230	0.1	5	Pass
Anions and Nutrients											Fluoride				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Fluoride	mg/L	0.100	0.210	0.211	0.001	0.171	0.0	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Fluoride	mg/L	0.020	0.203	0.210	0.007	0.057	0.1	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Fluoride	mg/L	0.020	0.154	0.172	0.018	0.050	0.4	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Fluoride	mg/L	0.020	0.178	0.168	0.010	0.053	0.2	5	Pass
Anions and Nutrients											Nitrate Dissolved (as N)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Nitrate (as N)	mg/L	0.015	9.66	8.65	1.010	1.387	0.7	4	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Nitrate (as N)	mg/L	0.0030	14.4	14.5	0.100	2.041	0.0	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Nitrate (as N)	mg/L	0.0030	22.8	22.6	0.200	3.229	0.1	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Nitrate (as N)	mg/L	0.0030	20.0	19.4	0.600	2.833	0.2	5	Pass
Anions and Nutrients											Nitrite Dissolved (as N)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Nitrite (as N)	mg/L	0.0050	<0.0050	0.0069	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Nitrite (as N)	mg/L	0.0010	0.0095	0.0337	0.0242	0.0028	8.8	0	Fail
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Nitrite (as N)	mg/L	0.0010	0.0058	0.0092	0.0034	0.0022	1.5	0	Fail
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Nitrite (as N)	mg/L	0.0010	0.0076	0.0058	0.0018	0.0025	0.7	4	Pass
Anions and Nutrients											Total Kjeldahl Nitrogen				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Total Kjeldahl Nitrogen	mg/L	0.050	0.33	<0.25	NC	0.188	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Total Kjeldahl Nitrogen	mg/L	0.300	<0.300	<0.050	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Total Kjeldahl Nitrogen	mg/L	0.050	<0.050	0.467	NC	NC	NC	0	Fail
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Total Kjeldahl Nitrogen	mg/L	0.050	0.428	0.246	0.182	0.222	0.8	4	Pass
Anions and Nutrients											Orthophosphate - Dissolved				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Orthophosphate	mg/L	0.0010	<0.0010	<0.0010	NC	NC	NC	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Orthophosphate	mg/L	0.0010	<0.0010	<0.0010	NC	NC	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Orthophosphate	mg/L	0.0010	0.0029	<0.0010	NC	0.00223	NC	4	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Orthophosphate	mg/L	0.0010	0.0018	0.0011	0.00070	0.00192	0.4	5	Pass
Anions and Nutrients											Phosphorus (P) - Total				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Phosphorus Total	mg/L	0.0020	0.0042	0.0023	0.00190	0.00402	0.47306	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Phosphorus Total	mg/L	0.0020	0.0020	<0.0020	NC	0.00339	NC	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Phosphorus Total	mg/L	0.0020	0.0027	<0.0020	NC	0.00359	NC	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Phosphorus Total	mg/L	0.0020	0.0050	0.0051	0.00010	0.00424	0.0	5	Pass
Anions and Nutrients											Sulphate (SO₄)				
19.1	\$1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Sulphate	mg/L	1.50	183	186	3.000	28.001	0.1	5	Pass
20.1	\$1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Sulphate	mg/L	0.30	450	448	2.000	64.604	0.0	5	Pass
21.1	\$1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Sulphate	mg/L	0.30	302	297	5.000	43.134	0.1	5	Pass
22.1	\$1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Sulphate	mg/L	0.30	298	287	11.000	42.568	0.3	5	Pass

Manual Data Entry Block											Automated Evaluation Block				
Audit No.	Requisition No.	Sample Site ID	Sample Location / Site Name	Sample Date	Sample Type	Parameter	Units	Reference LDL	Reference Results	Permit Results	Absolute Deviation	Acceptable Deviation	Deviation Factor	Points Assigned	Pass / Fail
Organic / Inorganic Carbon											Carbon, Dissolved Organic (DOC)				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	DOC	mg/L	0.50	1.45	1.00	0.450	1.117	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	DOC	mg/L	0.50	1.16	1.01	0.150	1.035	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	DOC	mg/L	0.50	0.91	2.42	1.510	0.964	1.6	0	Fail
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	DOC	mg/L	0.50	0.91	0.81	0.100	0.964	0.1	5	Pass
Organic / Inorganic Carbon											Carbon, Total Organic (TOC)				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	TOC	mg/L	0.50	1.37	1.16	0.210	1.095	0.2	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	TOC	mg/L	0.50	1.69	1.14	0.550	1.185	0.5	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	TOC	mg/L	0.50	0.99	2.14	1.150	0.987	1.2	2	Fail
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	TOC	mg/L	0.50	0.99	0.70	0.290	0.987	0.3	5	Pass
Metals Total											Aluminum				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Aluminum	mg/L	0.0030	0.0046	0.0056	0.00100	0.00554	0.2	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Aluminum	mg/L	0.0030	0.0037	<0.015	NC	0.00529	NC	4	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Aluminum	mg/L	0.0030	0.0042	0.0040	0.00020	0.00543	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Aluminum	mg/L	0.0030	0.0080	0.0085	0.00050	0.00651	0.1	5	Pass
Metals Total											Antimony				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Antimony	mg/L	0.00010	0.00025	0.00028	0.000030	0.000212	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Antimony	mg/L	0.00010	0.00031	<0.00050	NC	0.000229	NC	4	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Antimony	mg/L	0.00010	0.00014	0.00014	0.000000	0.000181	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Antimony	mg/L	0.00010	0.00015	0.00015	0.000000	0.000184	0.0	5	Pass
Metals Total											Arsenic				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Arsenic	mg/L	0.00010	0.00013	0.00012	0.000	0.000	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Arsenic	mg/L	0.00010	0.00013	<0.00050	NC	0.000	NC	0	Fail
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Arsenic	mg/L	0.00010	0.00011	0.00012	0.000	0.000	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Arsenic	mg/L	0.00010	0.00013	0.00021	0.000	0.000	0.4	5	Pass
Metals Total											Barium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Barium	mg/L	0.00010	0.0646	0.0700	0.005	0.018	0.3	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Barium	mg/L	0.00010	0.0740	0.0763	0.002	0.021	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Barium	mg/L	0.00010	0.0925	0.0916	0.001	0.026	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Barium	mg/L	0.00010	0.0805	0.0834	0.003	0.023	0.1	5	Pass
Metals Total											Beryllium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Beryllium	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Beryllium	mg/L	0.00010	<0.000100	<0.000020	NC	NC	NC	5	Pass
Metals Total											Bismuth				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000025	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
Metals Total											Boron				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Boron	mg/L	0.010	0.012	0.011	0.001	0.018	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Boron	mg/L	0.010	0.013	<0.050	NC	0.018	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Boron	mg/L	0.010	0.016	0.014	0.002	0.019	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Boron	mg/L	0.010	0.013	0.014	0.001	0.018	0.1	5	Pass
Metals Total											Cadmium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Cadmium	mg/L	0.000050	0.0000429	0.0000311	0.000012	0.000019	0.6	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Cadmium	mg/L	0.000050	0.0001560	0.0001450	0.000011	0.000051	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Cadmium	mg/L	0.000050	0.0000501	0.0000414	0.000009	0.000021	0.4	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Cadmium	mg/L	0.000050	0.0000530	0.0000486	0.000004	0.000022	0.2	5	Pass
Metals Total											Calcium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Calcium	mg/L	0.050	98.5	88.8	9.700	27.931	0.3	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Calcium	mg/L	0.050	156	148	8.000	44.194	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Calcium	mg/L	0.050	149	140	9.000	42.214	0.2	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Calcium	mg/L	0.050	124	128	4.000	35.143	0.1	5	Pass
Metals Total											Chromium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Chromium	mg/L	0.00010	<0.00010	0.00022	NC	NC	NC	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Chromium	mg/L	0.00010	<0.00010	<0.00050	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Chromium	mg/L	0.00010	0.00010	0.00013	0.000030	0.000170	0.2	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Chromium	mg/L	0.00010	0.00013	0.00050	0.000370	0.000178	2.1	0	Fail
Metals Total											Cobalt				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Cobalt	mg/L	0.00010	0.00011	<0.00050	NC	0.00017	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
Metals Total											Copper				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Copper	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Copper	mg/L	0.00050	<0.00050	<0.0025	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Copper	mg/L	0.00050	0.00174	0.00166	0.000080	0.001199	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Copper	mg/L	0.00050	0.00073	0.00080	0.000070	0.000914	0.1	5	Pass
Metals Total											Iron				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Iron	mg/L	NR	NR	0.0150	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Iron	mg/L	0.0050	0.0219	<0.050	NC	0.013	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Iron	mg/L	0.0050	0.0132	0.0120	0.0012	0.0108	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Iron	mg/L	0.0050	0.0283	0.032	0.0037	0.0151	0.2	5	Pass
Metals Total											Lead				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Lead	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Lead	mg/L	0.000050	<0.000050	<0.00025	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Lead	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Lead	mg/L	0.000050	0.000275	0.000327	0.000052	0.000148	0.4	5	Pass
Metals Total											Magnesium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Magnesium	mg/L	0.10	41.8	46.3	4.500	11.964	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Magnesium	mg/L	0.0050	82.7	90.6	7.900	23.398</			

Manual Data Entry Block											Automated Evaluation Block				
Audit No.	Requisition No.	Sample Site ID	Sample Location / Site Name	Sample Date	Sample Type	Parameter	Units	Reference LDL	Reference Results	Permit Results	Absolute Deviation	Acceptable Deviation	Deviation Factor	Points Assigned	Pass / Fail
Metals Total															
Manganese															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Manganese	mg/L	0.00010	0.00427	0.00415	0.00012	0.00135	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Manganese	mg/L	0.00010	0.00600	0.00636	0.00036	0.00184	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Manganese	mg/L	0.00010	0.00521	0.00503	0.00018	0.00162	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Manganese	mg/L	0.00010	0.0139	0.0141	0.00020	0.00407	0.0	5	Pass
Metals Total															
Molybdenum															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Molybdenum	mg/L	0.000050	0.00148	0.00185	0.000370	0.000489	0.8	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Molybdenum	mg/L	0.000050	0.00376	0.00368	0.00080	0.001134	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Molybdenum	mg/L	0.000050	0.00118	0.00122	0.00040	0.000404	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Molybdenum	mg/L	0.000050	0.00184	0.00195	0.000110	0.000591	0.2	5	Pass
Metals Total															
Nickel															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Nickel	mg/L	0.00050	0.00336	0.00346	0.00010	0.00166	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Nickel	mg/L	0.00050	0.01050	0.01140	0.00090	0.00368	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Nickel	mg/L	0.00050	0.00153	0.00147	0.00006	0.00114	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Nickel	mg/L	0.00050	0.00198	0.00219	0.00021	0.00127	0.2	5	Pass
Metals Total															
Phosphorus															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Phosphorus	mg/L	NR	NR	NR	NC	NC	NC		
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Phosphorus	mg/L	0.030	<0.030	NR	NC	NC	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Phosphorus	mg/L	0.030	<0.030	NR	NC	NC	NC		
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Phosphorus	mg/L	0.0020	0.0050	0.0051	0.000	0.004	0.0	5	Pass
Metals Total															
Potassium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Potassium	mg/L	0.050	1.80	1.84	0.040	0.580	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Potassium	mg/L	0.050	2.41	2.37	0.040	0.752	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Potassium	mg/L	0.050	2.16	2.04	0.120	0.682	0.2	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Potassium	mg/L	0.050	2.08	2.12	0.040	0.659	0.1	5	Pass
Metals Total															
Selenium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Selenium	mg/L	0.000050	0.0450	0.0499	0.005	0.013	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Selenium	mg/L	0.000050	0.1080	0.1020	0.006	0.031	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Selenium	mg/L	0.000050	0.0960	0.0293	0.067	0.027	2.5	0	Fail
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Selenium	mg/L	0.000050	0.0770	0	0.003	0.022	0.1	5	Pass
Metals Total															
Silicon															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Silicon	mg/L	0.10	1.85	1.96	0.110	0.665	0.2	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Silicon	mg/L	0.10	1.88	1.86	0.020	0.673	0.0	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Silicon	mg/L	0.10	2.17	2.19	0.020	0.755	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Silicon	mg/L	0.10	2.27	2.49	0.220	0.783	0.3	5	Pass
Metals Total															
Silver															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Silver	mg/L	0.000010	<0.000010	<0.000050	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
Metals Total															
Sodium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Sodium	mg/L	0.050	1.80	1.58	0.220	0.580	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Sodium	mg/L	0.050	2.07	2.01	0.060	0.656	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Sodium	mg/L	0.050	2.99	2.74	0.250	0.916	0.3	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Sodium	mg/L	0.050	3.37	3.27	0.100	1.024	0.1	5	Pass
Metals Total															
Strontium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Strontium	mg/L	0.00020	0.125	0.129	0.004	0.036	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Strontium	mg/L	0.00020	0.199	0.189	0.010	0.057	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Strontium	mg/L	0.00020	0.179	0.172	0.007	0.051	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Strontium	mg/L	0.00020	0.154	0.161	0.007	0.044	0.2	5	Pass
Metals Total															
Sulfur															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Sulfur	mg/L	0.50	67.4	NR	NC	19.771	NC		
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Sulfur	mg/L	0.50	151	NR	NC	43.416	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Sulfur	mg/L	0.50	113	112	1.000	32.668	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Sulfur	mg/L	0.50	108	112	4.000	31.254	0.1	5	Pass
Metals Total															
Thallium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Thallium	mg/L	0.000010	0.000013	<0.000050	NC	0.00002	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
Metals Total															
Tin															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Tin	mg/L	0.00010	<0.00010	<0.00050	NC	NC	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
Metals Total															
Titanium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Titanium	mg/L	0.00030	<0.00030	<0.010	NC	NC	NC	0	Fail
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Titanium	mg/L	0.00030	<0.00030	<0.010	NC	NC	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Titanium	mg/L	0.00030	<0.00030	<0.00030	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Titanium	mg/L	0.00030	<0.00030	<0.00030	NC	NC	NC	5	Pass
Metals Total															
Uranium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Uranium	mg/L	0.000010	0.00308	0.00298	0.000100	0.000885	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Uranium	mg/L	0.000010	0.00506	0.00515	0.000090	0.001445	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Uranium	mg/L	0.000010	0.00376	0.00358	0.000180	0.001078	0.2	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Uranium	mg/L	0.000010	0.00340	0.00360	0.000200	0.000976	0.2	5	Pass
Metals Total															
Vanadium															
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Vanadium	mg/L	0.00050	<0.00050	<0.0025	NC	NC	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
Metals Total															
Zinc															
19.1															

Manual Data Entry Block											Automated Evaluation Block				
Audit No.	Requisition No.	Sample Site ID	Sample Location / Site Name	Sample Date	Sample Type	Parameter	Units	Reference LDL	Reference Results	Permit Results	Absolute Deviation	Acceptable Deviation	Deviation Factor	Points Assigned	Pass / Fail
Metals Dissolved											Aluminum				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Aluminum	mg/L	0.0010	0.0012	<0.0030	NC	0.00175	NC	2	Fail
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Aluminum	mg/L	0.0010	0.0018	<0.0030	NC	0.00192	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Aluminum	mg/L	0.0010	<0.0010	<0.0010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Aluminum	mg/L	0.0010	0.0014	0.0013	0.000	0.002	0.1	5	Pass
Metals Dissolved											Antimony				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Antimony	mg/L	0.00010	0.00025	0.00027	0.0000200	0.0002121	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Antimony	mg/L	0.00010	0.00028	0.00028	0.0000000	0.0002206	0.0	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Antimony	mg/L	0.00010	0.00013	0.00012	0.0000100	0.0001782	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Antimony	mg/L	0.00010	0.00013	0.00015	0.0000200	0.0001782	0.1	5	Pass
Metals Dissolved											Arsenic				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Arsenic	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Arsenic	mg/L	0.00010	0.00011	0.00012	0.00001	0.00017	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Arsenic	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Arsenic	mg/L	0.00010	0.00010	<0.00010	NC	0.000	NC	5	Pass
Metals Dissolved											Barium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Barium	mg/L	0.00010	0.0640	0.0641	0.00010	0.01824	0.0	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Barium	mg/L	0.00010	0.0785	0.0733	0.00520	0.02234	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Barium	mg/L	0.00010	0.0858	0.0946	0.00890	0.02441	0.4	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Barium	mg/L	0.00010	0.0784	0.0808	0.002	0.022	0.1	5	Pass
Metals Dissolved											Beryllium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Beryllium	mg/L	0.00010	<0.00010	<0.000020	NC	NC	NC	5	Pass
Metals Dissolved											Bismuth				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Bismuth	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
Metals Dissolved											Boron				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Boron	mg/L	0.010	0.011	0.011	0.00000	0.01725	0.0	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Boron	mg/L	0.010	0.014	0.013	0.00100	0.01810	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Boron	mg/L	0.010	0.014	0.014	0.00000	0.01810	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Boron	mg/L	0.010	0.012	0.013	0.001	0.018	0.1	5	Pass
Metals Dissolved											Cadmium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Cadmium	mg/L	0.0000050	0.0000402	0.0000311	0.0000091	0.0000184	0.5	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Cadmium	mg/L	0.0000050	0.0001650	0.0001510	0.0000140	0.0000537	0.3	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Cadmium	mg/L	0.0000050	0.0000411	0.0000437	0.0000026	0.0000187	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Cadmium	mg/L	0.0000050	0.0000429	0.0000451	0.000	0.000	0.1	5	Pass
Metals Dissolved											Calcium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Calcium	mg/L	0.050	94.5	105	10.50	26.80	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Calcium	mg/L	0.050	153	148	5.00	43.35	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Calcium	mg/L	0.050	139	139	0.00	39.39	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Calcium	mg/L	0.050	127	125	2.000	35.992	0.1	5	Pass
Metals Dissolved											Chromium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Chromium	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Chromium	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Chromium	mg/L	0.00010	0.00010	<0.00010	NC	0.00	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Chromium	mg/L	0.00010	0.00014	0.00016	0.000020	0.000181	0.1	5	Pass
Metals Dissolved											Cobalt				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Cobalt	mg/L	0.00010	0.00011	0.00011	0.000000	0.000173	0.0	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Cobalt	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
Metals Dissolved											Copper				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Copper	mg/L	0.00020	0.00048	<0.00050	NC	0.00	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Copper	mg/L	0.00020	0.00029	0.00027	0.000020	0.000365	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Copper	mg/L	0.00020	0.00176	0.00177	0.000010	0.000781	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Copper	mg/L	0.00020	0.00071	0.00080	0.000090	0.000484	0.2	5	Pass
Metals Dissolved											Iron				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Iron	mg/L	0.0050	0.0051	<0.010	NC	0.01	NC	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Iron	mg/L	0.0050	0.0172	0.0150	0.00	0.01	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Iron	mg/L	0.0050	0.0051	<0.010	NC	0.01	NC	4	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Iron	mg/L	0.0050	0.0112	0.011	0.000200	0.010239	0.0	5	Pass
Metals Dissolved											Lead				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Lead	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Lead	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Lead	mg/L	0.000050	<0.000050	<0.000050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Lead	mg/L	0.000050	0.000259	0.000256	0.0000003	0.000144	0.0	5	Pass
Metals Dissolved											Magnesium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Magnesium	mg/L	0.0050	47.7	50.8	3.10	13.50	0.2	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Magnesium	mg/L	0.0050	91.4	87.8	3.60	25.86	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Magnesium	mg/L	0.0050	65.6	63.9	1.70	18.56	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Magnesium	mg/L	0.0050	59.8	61.5	1.700	16.921	0.1	5	Pass
Metals Dissolved											Manganese				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Manganese	mg/L	0.00010	0.00270	0.00180	0.000900	0.000905	1.0	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Manganese	mg/L	0.00010	0.00592	0.00572	0.000200	0.001816	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Manganese	mg/L	0.00010	0.00472	0.00454	0.000180	0.001476	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Manganese	mg/L	0.00010	0.0130	0.0128	0.000200	0.003818	0.1	5	Pass
Metals Dissolved											Molybdenum				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Molybdenum	mg/L	0.000050	0.00139	0.00146	0.000070	0.000464	0.2	5	Pass
20.1	S1601														

Manual Data Entry Block											Automated Evaluation Block				
Audit No.	Requisition No.	Sample Site ID	Sample Location / Site Name	Sample Date	Sample Type	Parameter	Units	Reference LDL	Reference Results	Permit Results	Absolute Deviation	Acceptable Deviation	Deviation Factor	Points Assigned	Pass / Fail
Metals Dissolved											Nickel				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Nickel	mg/L	0.00050	0.00323	0.00300	0.000230	0.001421	0.1	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Nickel	mg/L	0.00050	0.01100	0.01030	0.000700	0.003818	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Nickel	mg/L	0.00050	0.00141	0.00142	0.000010	0.001106	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Nickel	mg/L	0.00050	0.00192	0.00200	0.000080	0.001250	0.1	5	Pass
Metals Dissolved											Potassium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Potassium	mg/L	0.050	1.75	1.76	0.010000	0.565685	0.0	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Potassium	mg/L	0.050	2.72	2.50	0.220000	0.840043	0.3	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Potassium	mg/L	0.050	2.00	2.07	0.070000	0.636396	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Potassium	mg/L	0.050	1.97	1.97	0.000000	0.627911	0.0	5	Pass
Metals Dissolved											Selenium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Selenium	mg/L	0.000050	0.0495	0.05350	0.004000	0.014071	0.3	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Selenium	mg/L	0.000050	0.1230	0.1220	0.001000	0.034860	0.0	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Selenium	mg/L	0.000050	0.0914	0.0918	0.000400	0.025923	0.0	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Selenium	mg/L	0.000050	0.0774	0.0855	0.008	0.022	0.4	5	Pass
Metals Dissolved											Silicon				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Silicon	mg/L	0.050	1.68	1.94	0.260	0.546	0.5	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Silicon	mg/L	0.100	1.91	1.84	0.070	0.682	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Silicon	mg/L	0.100	2.05	2.10	0.050	0.721	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Silicon	mg/L	0.100	2.31	2.09	0.220	0.795	0.3	5	Pass
Metals Dissolved											Silver				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Silver	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
Metals Dissolved											Sodium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Sodium	mg/L	0.050	1.45	1.71	0.260	0.481	0.5	4	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Sodium	mg/L	0.050	2.20	2.13	0.070	0.693	0.1	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Sodium	mg/L	0.050	2.60	2.71	0.110	0.806	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Sodium	mg/L	0.050	3.22	3.00	0.220	0.981	0.2	5	Pass
Metals Dissolved											Strontium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Strontium	mg/L	0.00020	0.128	0.121	0.007	0.036	0.2	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Strontium	mg/L	0.00020	0.192	0.190	0.002	0.055	0.0	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Strontium	mg/L	0.00020	0.170	0.173	0.003	0.048	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Strontium	mg/L	0.00020	0.165	0.145	0.020	0.047	0.4	5	Pass
Metals Dissolved											Sulfur				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Sulfur	mg/L	0.50	59.4	NR	NC	17.508	NC		
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Sulfur	mg/L	0.50	149	NR	NC	42.851	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Sulfur	mg/L	0.50	104	102	2.000	30.123	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Sulfur	mg/L	0.50	102	87.8	14.200	29.557	0.5	5	Pass
Metals Dissolved											Thallium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Thallium	mg/L	0.000010	0.000011	0.000014	0.000003	0.000017	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Thallium	mg/L	0.000010	<0.000010	<0.000010	NC	NC	NC	5	Pass
Metals Dissolved											Tin				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Tin	mg/L	0.00010	<0.00010	<0.00010	NC	NC	NC	5	Pass
Metals Dissolved											Titanium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Titanium	mg/L	0.00030	<0.00030	<0.010	NC	NC	NC	0	Fail
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Titanium	mg/L	0.00030	<0.00030	<0.010	NC	NC	NC		
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Titanium	mg/L	0.00030	<0.00030	<0.0030	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Titanium	mg/L	0.00030	<0.00030	<0.0030	NC	NC	NC	5	Pass
Metals Dissolved											Uranium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Uranium	mg/L	0.000010	0.00303	0.00267	0.000360	0.000871	0.4	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Uranium	mg/L	0.000010	0.00520	0.00548	0.000280	0.001485	0.2	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Uranium	mg/L	0.000010	0.00377	0.00365	0.000120	0.001080	0.1	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Uranium	mg/L	0.000010	0.00362	0.00342	0.000200	0.001038	0.2	5	Pass
Metals Dissolved											Vanadium				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Vanadium	mg/L	0.00050	<0.00050	<0.00050	NC	NC	NC	5	Pass
Metals Dissolved											Zinc				
19.1	S1563834434	E300071	Downstream of Cataract Ck	7-Aug-19	WW	Zinc	mg/L	0.0010	0.0011	<0.0010	NC	0.001725	NC	5	Pass
20.1	S1601389679	E300072	Downstream of Cataract Ck	5-Oct-20	WW	Zinc	mg/L	0.0010	0.0089	0.0079	0.001000	0.003932	0.3	5	Pass
21.1	S1624461325	E223753	FRO Compliance Point	10-Aug-21	WW	Zinc	mg/L	0.0010	0.0018	0.0024	0.000600	0.001923	0.3	5	Pass
22.1	S1656435703	E223753	FRO Compliance Point	17-Aug-2022	WW	Zinc	mg/L	0.0010	0.0033	0.0028	0.000500	0.002348	0.2	5	Pass

Notes:

Interpretive Notes:

1 : The **Points Assigned** (Column O) are based on an industry standard grading scale. Available points are 5, 4, 2 and 0 (5 is the highest possible score). Scores of 0 and 2 demonstrate an unacceptable analytical result.

Key Notes:

- NC** : **Not Completed or Not Calculable**. NC denotes that a test result was either 'Not Reported' or was 'Reported Below the Reportable Detection Limit (RDL)'.
- 2.1** Deviation Factor Cells that are highlighted **dark green and boldened** indicate results that **deviate by a factor of 2 or greater** or those that are **categorized as NC**. Cells with this designation **require further scrutiny**.
- NC** Deviation Factor Cells that are highlighted **dark green and boldened** and contain 'NC' **require further scrutiny**. These test results may not be valid, or the difference between a 'below detect' and a defect may be great enough to warrant further investigative actions.
- na** : **Not Applicable**.
- NR** : **Not Reported**. A performance score of 0 is assigned for required test results that are not reported.
- *NR/SL** : **Not Required** for submission or inclusion of the Audit/**Samples Lost** and are therefore not included in the Audit.
- % Mort** : Percent of mortality among test organisms which occurred during the full test period of an LC50 or LT50 bioassay.
- NAL** : Not Acutely Lethal = designated for an LC50 bioassay test that did not result in a 50% mortality of test organisms during the 48 or 96 hour test period.