Adani Carmichael Coal Mine Project

Groundwater Quality data

December 2020

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	08/12/2020	07/12/2020	07/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020	10/12/2020
Client sample ID (1st):		Duplicate A	C14020SP	C14033SP	C016P2	C9553P1R	C018P2	C018P3	Gold Lotto	Starlight	C558P1	C012P1	C012P2	C011P3	C024P3	C975SP
Hydro-stratigraphic unit:			Moolayember	Clematis Sst	Bandanna	Rewan	Bandanna	Colinlea SSt			Tertiary	Joe-Joe	Joe-Joe	Colinlea SSt	Colinlea SSt	Colinlea SSt
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	7.54	6.48	6.15	7.93	6.61	7.8	7.54	6.56	6.8	7.02	6.65	7.78	7.87	6.79	6.55
Electrical Conductivity @ 25°C	µS/cm	990	1530	376	2920	391	1750	996	1020	752	9760	2010	2590	917	1420	605
Total Dissolved Solids @180°C	mg/L	576	890	225	1670	256	970	548	614	423	6030	1140	1450	508	786	340
Total Alkalinity as CaCO3	mg/L	168	37	14	177	54	257	171	27	42	231	78	275	212	111	41
Sulfate as SO4 - Turbidimetric	mg/L	13	48	3	34	15	6	13	22	11	260	54	36	<1	20	23
Chloride	mg/L	201	434	96	811	71	415	204	292	201	3190	578	667	165	385	143
Calcium	mg/L	21	6	2	96	<1	41	21	13	7	91	30	89	26	15	3
Magnesium	mg/L	6	43	10	19	6	25	6	11	6	258	35	32	6	28	7
Sodium	mg/L	172	211	47	464	68	263	169	165	123	1740	346	454	185	248	113
Potassium	mg/L	9	24	10	9	2	17	9	6	8	35	13	17	10	12	7
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	0.01
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.002	<0.001	0.005	<0.001
Cadmium	mg/L	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001
Copper	mg/L	<0.001	0.024	0.041	<0.001	0.009	<0.001	<0.001	0.005	<0.001	0.034	<0.001	<0.001	<0.001	<0.001	0.009
Lead	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.044	<0.001	0.002	0.062	0.098	0.069	0.042	0.003	0.063	0.013	0.009	0.178	0.032	0.15	0.076
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	0.002	0.007	0.003	<0.001	0.004	0.001	0.002	0.006	<0.001	0.062	0.012	0.006	0.004	0.051	0.011
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.014	0.067	0.088	0.005	0.079	0.009	0.014	0.06	0.006	0.013	0.008	<0.005	<0.005	0.023	0.022
Boron	mg/L	0.26	0.32	0.08	0.3	0.09	0.51	0.34	0.11	0.08	0.7	0.34	0.4	0.35	0.27	0.14
Iron	mg/L	0.82	<0.05	<0.05	0.14	1.92	0.47	0.82	<0.05	3.51	0.23	0.07	0.34	0.46	12.6	0.08
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	1.2	0.2	<0.1	0.2	0.2	0.4	1.2	0.2	0.3	0.4	0.2	0.3	1.1	0.4	0.2
Ammonia as N	mg/L	0.1	<0.01	<0.01	0.43	0.08	0.04	0.09	<0.01	0.05	<0.01	<0.01	0.02	0.22	0.3	<0.01
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	0.05	0.52	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.04	0.05	<0.01	<0.01	<0.01	0.07
Total Phosphorus as P	mg/L	0.04	<0.01	<0.01	<0.01	0.15	0.09	0.03	0.02	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2	<0.1	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	140	<100	<100	200	<100	<100	<100	280	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	10/12/2020	10/12/2020	10/12/2020	10/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	09/12/2020	10/12/2020
Client sample ID (1st):		C022P1	C19027SP	C014P2	C823SP	C14017SP	C180123SP	C9180121SPR	Mellaluka Sprir	C14031SP	C14032SP	C914108PTR	C14015SP	C180122SP	C9180124SPR	C19029SP
Hydro-stratigraphic unit:		Dunda Beds	Bandanna	Bandanna	Bandanna	Joe-Joe	Joe-Joe	Tertiary	Clematis Sst	Composite bor	Joe-Joe	Joe-Joe	Joe-Joe	Composite Bor	Joe-Joe	Colinlea SSt
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	6.31	8.23	8.25	7.96	7.74	8.35	6.56	7.96	6.5	6.57	6.57	7.31	6.29	6.47	7.98
Electrical Conductivity @ 25°C	µS/cm	273	1790	1900	4450	5530	817	3660	4220	5650	2140	520	2490	7390	470	1170
Total Dissolved Solids @180°C	mg/L	169	1020	1070	2460	3080	450	2100	2730	3520	1190	286	1400	5000	259	772
Total Alkalinity as CaCO3	mg/L	20	219	329	411	253	238	38	45	30	38	29	122	20	24	322
Sulfate as SO4 - Turbidimetric	mg/L	5	25	<1	<1	49	23	85	<1	106	30	15	60	76	6	1
Chloride	mg/L	60	437	430	1190	1600	98	1080	1290	1770	646	130	683	2430	123	181
Calcium	mg/L	1	21	17	129	125	7	36	37	81	28	5	18	118	3	7
Magnesium	mg/L	3	4	4	59	63	4	52	50	98	32	4	15	132	4	5
Sodium	mg/L	39	373	422	781	1030	180	670	770	995	361	96	509	1350	90	232
Potassium	mg/L	3	5	8	34	20	4	12	45	16	14	6	11	23	4	8
Aluminium	mg/L	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11
Arsenic	mg/L	<0.001	0.007	<0.001	<0.001	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001
Cobalt	mg/L	0.023	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.001	<0.001	0.003	0.001	<0.001	0.003	0.002	<0.001
Copper	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.001	0.002	0.001	0.002	<0.001	0.006	0.005	0.013
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002
Manganese	mg/L	0.005	0.032	0.009	0.038	0.738	0.032	0.008	0.184	0.031	0.143	0.055	0.213	0.23	0.004	0.033
Molybdenum	mg/L	<0.001	0.001	0.002	0.003	0.002	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	0.004	<0.001	<0.001	0.004	0.001	<0.001	0.002	0.002	0.001	0.003	0.003	0.001	0.004	0.003	0.006
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.049	<0.005	0.005	<0.005	0.063	<0.005	1.25	<0.005	0.239	0.223	0.17	0.127	0.272	0.709	0.098
Boron	mg/L	0.12	0.46	0.34	0.5	0.74	0.35	0.3	0.64	0.47	0.15	0.11	0.41	0.52	0.08	0.31
Iron	mg/L	<0.05	<0.05	0.08	0.82	0.51	<0.05	0.07	0.39	0.17	1.63	0.27	0.55	0.92	0.08	0.05
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Fluoride	mg/L	<0.1	0.5	1.1	0.7	1	0.6	<0.1	0.5	0.1	0.3	0.2	0.5	<0.1	0.1	5.1
Ammonia as N	mg/L	<0.01	0.59	0.98	0.93	0.14	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.07	<0.01	<0.01	0.11
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.32	<0.01	<0.01	0.08	<0.01	<0.01	0.16	0.16	<0.01
Total Phosphorus as P	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Sulfide as S2-	mg/L	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	160	<100	<100	<100	1230	<100	<100	<100	<100	<100	<100	280
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	10/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	11/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020
Client sample ID (1st):		C19002SP	C18012SP	C18013SP	C18002SP	C18003SP	C18001SP	C18011SP	C18010SP	C833SP	Duplicate J	C19012SP	C19010SP	C027P2	C027P1	Duplicate I
Hydro-stratigraphic unit:		Clematis SSt (us	DSC Spearpoint	DSC Spearpoint	Clematis SSt	Moolayember	Clematis SSt	DSC Spearpoint	DSC Spearpoint	Colinlea SSt		Rewan	Clematis SSt	Dunda Beds	Alluvium	
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	6.68	7.42	7.59	8.07	7.42	7.25	7.57	8.35	10	6.83	12.3	8.5	6.51	6.83	6.6
Electrical Conductivity @ 25°C	µS/cm	328	501	408	380	500	664	626	685	1160	483	18400	618	755	6730	609
Total Dissolved Solids @180°C	mg/L	202	304	330	218	322	353	351	420	664	268	6990	340	468	4120	340
Total Alkalinity as CaCO3	mg/L	40	209	153	136	161	102	123	251	249	63	1890	159	30	183	38
Sulfate as SO4 - Turbidimetric	mg/L	6	<1	<1	<1	<1	8	3	<1	1	10	198	<1	16	528	20
Chloride	mg/L	75	28	31	30	38	134	114	61	203	100	891	94	205	1800	145
Calcium	mg/L	6	3	1	2	8	4	2	4	2	2	32	3	1	25	5
Magnesium	mg/L	6	1	<1	<1	4	1	<1	1	<1	6	<1	<1	4	129	11
Sodium	mg/L	52	100	82	75	90	117	117	138	198	78	1850	124	132	1170	81
Potassium	mg/L	5	22	15	13	18	18	13	17	43	9	592	7	9	75	17
Aluminium	mg/L	0.01	0.02	0.03	<0.01	<0.01	<0.01	<0.01	0.04	0.02	<0.01	1.94	0.04	0.01	<0.01	<0.01
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	0.004	0.002	0.003	0.001	<0.001	<0.001	0.007	<0.001	<0.001	0.004	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.244	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001
Copper	mg/L	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.034	0.001	<0.001	0.144	<0.001	<0.001	0.002	0.005
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.019	0.05	0.035	0.115	0.713	0.015	0.003	0.03	<0.001	0.042	0.041	0.017	0.053	2.69	0.001
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.002	0.008	<0.001	0.397	<0.001	<0.001	0.003	<0.001
Nickel	mg/L	0.003	0.001	<0.001	0.002	0.011	0.001	<0.001	0.003	<0.001	0.003	0.001	<0.001	0.007	0.058	0.001
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.018	<0.005	<0.005	0.006	0.01	0.048	<0.005	0.04	<0.005	0.044	0.021	<0.005	0.005	0.054	0.034
Boron	mg/L	0.09	0.1	0.1	0.06	0.1	0.12	0.12	0.09	0.15	0.11	0.1	0.07	0.2	0.77	0.13
Iron	mg/L	<0.05	0.41	0.27	<0.05	2.66	1.4	0.43	0.27	<0.05	0.08	0.44	<0.05	0.71	4.49	<0.05
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	<0.1	0.4	0.5	0.4	0.7	0.2	0.2	0.2	1.2	0.2	1.5	0.4	0.1	0.3	<0.1
Ammonia as N	mg/L	<0.05	0.13	0.23	0.05	0.02	0.17	0.12	<0.01	0.47	<0.01	1.35	0.14	<0.01	0.15	<0.01
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	0.21	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	0.06	0.04	<0.01	0.07	<0.01	0.16
Total Phosphorus as P	mg/L	<0.01	0.1	0.18	0.06	<0.01	<0.01	0.08	0.02	<0.01	<0.01	0.2	0.07	<0.01	<0.01	<0.01
Sulfide as S2-	mg/L	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	1370	<100	<100	140	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	13/12/2020	12/12/2020	12/12/2020	12/12/2020	11/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020	12/12/2020
Client sample ID (1st):		Duplicate H	C9838SPR	C556P1	C180117SP	C14024SP	C14023SP	Duplicate F	C14021SP	C029P2	C029P1	C19001SP	C025P2	C14027SP	C14028SP	C914001SPR
Hydro-stratigraphic unit:			Rewan	Rewan	Dunda Beds	Composite bor	Dunda Beds		Clematis SSt	Tertiary	Alluvium	Alluvium	Tertiary	Alluvium	Alluvium	Joe-Joe
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**7.75**	**6.19**	**6.39**	**6.61**	**6.83**	**8.08**	**7.22**	**6.59**	**7.3**	**7.82**	**7.62**	**7.38**	**7.17**	**7.35**	**6.94**
Electrical Conductivity @ 25°C	µS/cm	**630**	**402**	**234**	**230**	**485**	**739**	**11300**	**619**	**11800**	**34400**	**23000**	**13900**	**49900**	**44300**	**20500**
Total Dissolved Solids @180°C	mg/L	**357**	**235**	**136**	**145**	**270**	**352**	**7240**	**313**	**7370**	**20900**	**15600**	**7740**	**34300**	**32800**	**13600**
Total Alkalinity as CaCO3	mg/L	**119**	**17**	**26**	**42**	**62**	**124**	**126**	**37**	**228**	**2140**	**707**	**365**	**197**	**356**	**190**
Sulfate as SO4 - Turbidimetric	mg/L	**4**	**7**	**10**	**12**	**10**	**2**	**377**	**20**	**279**	**1040**	**811**	**428**	**2230**	**1800**	**1320**
Chloride	mg/L	**113**	**102**	**43**	**35**	**99**	**150**	**3720**	**144**	**3850**	**10200**	**7980**	**4520**	**18900**	**15800**	**7080**
Calcium	mg/L	**2**	**2**	<1	**1**	**2**	**4**	**308**	**5**	**91**	**57**	**234**	**120**	**917**	**849**	**897**
Magnesium	mg/L	**1**	**6**	**1**	**2**	**6**	**1**	**125**	**11**	**128**	**367**	**324**	**128**	**1370**	**1180**	**474**
Sodium	mg/L	**116**	**62**	**42**	**40**	**78**	**138**	**2100**	**83**	**2330**	**7370**	**5070**	**2930**	**10100**	**8950**	**3530**
Potassium	mg/L	**16**	**4**	**2**	**3**	**9**	**9**	**39**	**17**	**74**	**272**	**116**	**74**	**157**	**163**	**86**
Aluminium	mg/L	<0.01	<0.01	**0.02**	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01
Arsenic	mg/L	**0.006**	<0.001	<0.001	**0.001**	<0.001	<0.001	**0.002**	<0.001	**0.006**	**0.004**	**0.005**	<0.001	**0.006**	<0.002	**0.002**
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.002	<0.002	<0.001
Cobalt	mg/L	**0.002**	**0.001**	**0.004**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	**0.05**	**0.011**	<0.001
Copper	mg/L	<0.001	**0.014**	**0.014**	**0.062**	<0.001	<0.001	<0.001	**0.005**	<0.001	**0.002**	**0.002**	<0.001	**0.029**	<0.002	<0.001
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.024**	<0.001	<0.001	**0.002**	<0.002	<0.001
Manganese	mg/L	**0.23**	**0.002**	**0.025**	**0.009**	**0.038**	**0.05**	**0.972**	**0.001**	**0.187**	**0.072**	**0.373**	**1.54**	**2.84**	**1.83**	**0.893**
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	**0.004**	<0.001	<0.002	<0.002	<0.001
Nickel	mg/L	<0.001	**0.003**	**0.003**	**0.008**	**0.003**	<0.001	**0.001**	**0.001**	**0.001**	**0.002**	**0.027**	**0.008**	**0.047**	**0.014**	**0.009**
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.007**	<0.001	**0.003**	**0.01**	**0.003**	<0.001	**0.004**	<0.002	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.118**	**0.066**	**0.002**	**0.006**	**0.059**	**0.003**
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.02	<0.02	<0.01
Zinc	mg/L	**0.013**	**0.052**	**0.034**	**0.093**	**0.06**	<0.005	<0.005	**0.032**	<0.005	<0.005	<0.005	<0.005	**0.122**	<0.010	**0.006**
Boron	mg/L	**0.11**	**0.11**	**0.1**	**0.06**	**0.12**	**0.07**	**1.02**	**0.13**	**1.29**	**5.09**	**2.2**	**1.75**	**3.16**	**3.2**	**1.97**
Iron	mg/L	**0.18**	<0.05	<0.05	**1.25**	**0.05**	<0.05	**2.57**	<0.05	**1.65**	**0.25**	**0.06**	**6.39**	**3.64**	**1**	**7.32**
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	**0.2**	<0.1	**0.2**	**0.2**	**0.2**	**0.4**	**0.2**	**0.1**	**0.4**	**1.3**	**0.3**	**0.4**	**0.2**	**0.3**	**0.2**
Ammonia as N	mg/L	**0.13**	<0.01	<0.01	**0.02**	<0.01	**0.14**	**0.29**	<0.01	**0.13**	**0.15**	**0.02**	**0.57**	**0.37**	**0.09**	**0.33**
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	**0.21**	**0.07**	<0.01	**0.08**	<0.01	<0.01	**0.16**	<0.01	<0.01	**0.02**	<0.01	**0.04**	<0.01	<0.01
Total Phosphorus as P	mg/L	**0.07**	<0.01	**0.06**	**0.03**	**0.02**	**0.04**	**0.03**	**0.01**	**0.09**	**0.12**	**0.08**	**0.11**	**0.18**	**0.11**	**0.08**
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	**----**	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	**----**	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	**120**	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	**----**	<1	<1	<1	<1	<1	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	12/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	11/12/2020	13/12/2020	13/12/2020	13/12/2020
Client sample ID (1st):		C14002SP	C180119SP	C9180125SP	C180120SP	C18004SP	C18006SP	C18005SP	C18009SP	Duplicate D	C19022SP	C14004SP	C14003SP	C19008SP	C19007SP	C14011SP
Hydro-stratigraphic unit:		Joe-Joe	Joe-Joe	Joe-Joe	Composite Bor	Alluvium	Alluvium	Alluvium	Alluvium		Tertiary	Joe Joe	Joe Joe		Dunda Beds	Clematis Sst
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	7.34	6.74	8.36	6.62	7.17	7.21	7.12	7.54	7.54	7.28	7.34	6.55	11.7	8.15	6.09
Electrical Conductivity @ 25°C	µS/cm	11200	675	867	7770	40700	61600	53200	25800	25500	43600	52700	53200	6160	1250	229
Total Dissolved Solids @180°C	mg/L	6780	379	478	4520	33300	47900	46600	14700	19100	38000	53200	46200	2980	758	144
Total Alkalinity as CaCO3	mg/L	125	44	263	42	194	219	189	80	79	234	85	67	1080	156	10
Sulfate as SO4 - Turbidimetric	mg/L	370	6	<1	166	803	2960	2310	944	927	2320	2080	2470	11	21	5
Chloride	mg/L	3660	185	120	2450	14900	22600	19700	8500	8780	16100	19300	19800	895	327	58
Calcium	mg/L	299	4	10	101	3170	2260	2560	1860	1800	2190	3020	2500	91	13	1
Magnesium	mg/L	120	4	4	149	1350	1610	1410	429	413	1210	1390	1610	4	3	5
Sodium	mg/L	2050	118	177	1320	4720	11400	9360	3500	3390	7630	8930	8840	842	248	35
Potassium	mg/L	37	4	5	35	24	34	21	29	29	34	55	34	117	10	3
Aluminium	mg/L	<0.01	<0.01	<0.01	0.02	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02	2.22	0.08	0.01
Arsenic	mg/L	0.002	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	0.006	<0.002	0.004	0.002	0.002	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	0.0003	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	0.001	<0.002	<0.002	<0.002	0.013	0.013	0.002	<0.002	<0.002	0.019	<0.001	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	0.002	<0.002	0.011	0.015	<0.001	<0.001	0.006	0.003	0.034	<0.001	<0.001	0.002
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.048	0.001	<0.001	<0.002	<0.002	<0.002	0.007	<0.001	0.018
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	<0.002	<0.002	<0.002	0.002	<0.001	<0.001
Manganese	mg/L	0.975	0.01	0.044	0.007	0.085	0.9	1.52	0.033	0.033	2.34	7.08	2.11	0.063	0.077	0.012
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.002	0.008	0.007	0.029	0.03	<0.002	<0.002	<0.002	0.17	0.045	0.002
Nickel	mg/L	0.002	<0.001	<0.001	0.006	0.017	0.023	0.056	0.008	0.008	0.036	0.004	0.032	0.003	0.002	0.004
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	<0.002	<0.001	<0.001	0.017	<0.002	<0.002	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	0.033	0.053	0.09	0.009	0.008	0.012	<0.002	<0.002	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02	<0.02	<0.01	<0.01	<0.02	<0.02	<0.02	0.01	<0.01	<0.01
Zinc	mg/L	<0.005	0.578	0.018	0.765	0.011	<0.010	0.104	0.011	0.011	<0.010	0.037	0.022	0.066	0.063	0.094
Boron	mg/L	0.98	0.15	0.25	0.51	1.28	5.46	4.78	1.17	1.16	3.73	0.45	3.11	0.13	0.07	0.1
Iron	mg/L	2.66	0.77	<0.05	0.15	<0.10	0.35	0.15	0.05	0.05	7.16	0.63	14.2	2.02	<0.05	<0.05
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	0.2	0.1	0.5	0.3	0.2	0.2	<0.1	0.4	0.4	0.3	0.1	0.2	1.6	0.6	<0.1
Ammonia as N	mg/L	0.3	0.04	0.07	<0.01	0.14	0.13	0.18	0.04	0.02	0.14	1.81	0.48	0.68	0.32	<0.01
Nitrite as N	mg/L	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	0.22	0.02	<0.01	0.01	0.17	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	0.42
Total Phosphorus as P	mg/L	0.05	0.02	0.03	0.01	0.08	0.26	0.37	0.04	0.04	0.1	0.12	0.22	0.1	0.06	<0.01
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	220	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	14	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	13/12/2020	14/12/2020	14/12/2020
Client sample ID (1st):		C14013SP	C14012SP	C19018SP	C919016SPR	C19015SP	C19014SP	Duplicate C	HD02	HD03B	HD03A	Little Moses S	C18014SP	Moses Spring	Duplicate E	C14016SP
Hydro-stratigraphic unit:		Clematis Sst	Clematis Sst	Bandanna	Rewan	Dunda Beds	Clematis SSt	Duplicate C	Clematis Sst	Alluvium	Clematis SSt		DSC Spearpoint			Joe-Joe
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	6.18	7.65	12.2	8.68	8.17	8.35	7.43	8	7.46	7.81	6.7	7.99	8.01	6.8	7.93
Electrical Conductivity @ 25°C	µS/cm	387	465	9310	761	659	623	640	559	823	654	580	782	630	1710	2650
Total Dissolved Solids @180°C	mg/L	226	269	3170	440	383	343	353	314	456	362	330	444	385	918	1460
Total Alkalinity as CaCO3	mg/L	11	124	1480	205	146	132	101	118	133	110	61	250	173	96	189
Sulfate as SO4 - Turbidimetric	mg/L	10	5	134	11	<1	<1	8	4	11	10	2	3	<1	21	59
Chloride	mg/L	105	64	250	131	134	121	136	108	168	145	150	105	96	480	729
Calcium	mg/L	1	3	313	6	4	2	4	2	1	4	4	8	<1	22	44
Magnesium	mg/L	9	2	<1	<1	<1	<1	1	1	2	2	13	35	<1	10	12
Sodium	mg/L	54	91	532	165	139	127	115	116	127	124	82	100	131	272	455
Potassium	mg/L	7	8	374	4	6	10	18	16	17	16	12	18	11	13	10
Aluminium	mg/L	0.01	<0.01	0.13	0.17	0.08	<0.01	0.01	0.09	0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01
Arsenic	mg/L	<0.001	<0.001	<0.001	0.002	0.001	<0.001	0.001	0.006	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.006
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.005	0.004	<0.001	<0.001	<0.001
Copper	mg/L	0.016	<0.001	0.011	<0.001	<0.001	<0.001	<0.001	0.002	0.009	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.021	0.001	<0.001	0.004	0.059	0.04	0.016	0.223	0.166	0.394	0.089	0.048	0.002	0.22	0.11
Molybdenum	mg/L	<0.001	<0.001	0.378	0.019	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	0.011	<0.001	<0.001	0.002
Nickel	mg/L	0.011	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	0.001	<0.001	0.005	0.02	<0.001	<0.001	<0.001
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.126	0.011	3.03	<0.005	<0.005	<0.005	0.052	0.01	0.011	0.043	<0.005	0.006	<0.005	0.168	0.062
Boron	mg/L	0.11	0.11	<0.05	<0.05	0.1	0.11	0.13	0.12	0.17	0.15	0.15	0.12	0.12	0.19	0.34
Iron	mg/L	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	1.5	0.22	0.69	0.61	0.5	0.28	0.07	2.71	<0.05
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	<0.1	0.4	1.5	0.4	0.5	0.3	0.2	0.2	0.4	0.2	0.2	0.3	0.4	0.2	0.7
Ammonia as N	mg/L	<0.01	<0.01	2.1	0.29	0.14	0.12	0.13	0.09	0.09	<0.01	0.46	<0.01	0.03	0.12	0.4
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.22	<0.01	<0.01	<0.01
Nitrate as N	mg/L	0.64	0.02	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.09	0.29	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.01	0.07	0.01	0.02	0.03	0.15	0.03	0.16	0.08	0.08	0.07	0.52	0.06	0.02	0.11
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	0.9	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	320	<100	<100	<100	<100	<100	<100	<100	120	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	14/12/2020	15/12/2020
Client sample ID (1st):		C14006SP	C14008SP	C14029SP	C914030SPR	C034P3	C035P1	C035P2	C032P2	C19028SP	C19004SP	C19003SP	C847SP	C848SP	C9849SPR	C006P3R
Hydro-stratigraphic unit:		Joe-Joe	Joe-Joe	Composite bor	Joe Joe	Colinlea SSt	Rewan	Bandanna	Bandanna	Rewan	Sub-E Seam	Sub-E Seam	Bandanna	Colinlea SSt	Colinlea SSt	Colinlea SSt
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	6.93	6.47	6.52	6.52	6.82	7.21	7.06	8	7.69	8.85	8.01	6.34	7.04	7.53	8.14
Electrical Conductivity @ 25°C	µS/cm	8270	647	9810	558	1660	3640	1480	1240	4980	2710	2980	341	2860	2930	1330
Total Dissolved Solids @180°C	mg/L	5160	358	6450	301	918	2020	816	704	3010	1510	1670	259	1610	1630	780
Total Alkalinity as CaCO3	mg/L	120	37	56	36	95	151	111	343	282	106	136	23	204	274	414
Sulfate as SO4 - Turbidimetric	mg/L	200	13	494	11	21	52	20	<1	191	<1	<1	7	17	<1	9
Chloride	mg/L	2540	174	2910	147	476	1040	407	208	1330	812	874	80	807	795	183
Calcium	mg/L	190	7	212	6	21	14	11	10	21	6	43	<1	25	38	21
Magnesium	mg/L	90	6	164	5	10	14	7	4	41	2	12	2	23	18	3
Sodium	mg/L	1440	101	1700	89	270	670	258	247	946	506	511	63	491	508	258
Potassium	mg/L	27	6	14	6	13	6	7	5	14	9	14	2	19	23	7
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	0.009	0.004	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.38	0.099	0.064	0.228	0.218	0.118	0.1	0.053	0.247	0.029	0.178	0.002	0.289	0.277	0.024
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.006	0.001	0.013	0.003	<0.001	<0.001	<0.001	0.001
Nickel	mg/L	<0.001	0.012	0.01	0.011	<0.001	0.01	0.006	0.002	0.006	<0.001	<0.001	0.001	<0.001	0.013	0.003
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.134	0.174	0.304	0.18	0.175	0.008	<0.005	<0.005	<0.005	0.006	<0.005	0.079	0.02	0.049	<0.005
Boron	mg/L	0.42	0.1	1.61	0.1	0.2	0.65	0.25	0.33	0.84	0.4	0.34	0.11	0.18	0.19	0.15
Iron	mg/L	7.31	1.94	0.69	0.72	2.8	0.4	0.44	0.21	0.59	<0.05	0.24	<0.05	0.95	1.46	0.19
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	0.7	0.2	<0.1	0.2	0.2	0.6	0.2	1	1	2.7	1.8	0.1	0.3	0.4	2.1
Ammonia as N	mg/L	0.51	0.02	0.07	0.03	0.12	0.05	0.05	0.38	0.07	0.34	0.2	0.02	0.06	0.12	0.3
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	0.05	0.02	0.18	0.04	0.02	0.04	0.03	0.06	0.12	0.04	0.03	0.03	0.03	0.05	0.05
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	<100	<100	<100	250	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

	Sample Type:	REG	REG	REG	REG	REG	REG
	Sample Date:	15/12/2020	15/12/2020	15/12/2020	14/12/2020	15/12/2020	15/12/2020
Client sample ID (1st):		C007P2	C19026SP	C555P1	C008P1	C008P2	C19011SP
Hydro-stratigraphic unit:		Bandanna	Colinlea SSt		Rewan	Bandanna	Dunda Beds
Analyte grouping/Analyte	**Unit**						
pH Value	pH Unit	**7.54**	**8.25**	**7.46**	**7.25**	**8.1**	**8.34**
Electrical Conductivity @ 25°C	µS/cm	**13600**	**862**	**796**	**21600**	**2640**	**774**
Total Dissolved Solids @180°C	mg/L	**9060**	**638**	**454**	**16200**	**1490**	**425**
Total Alkalinity as CaCO3	mg/L	**253**	**417**	**129**	**294**	**417**	**144**
Sulfate as SO4 - Turbidimetric	mg/L	**346**	<1	<1	**218**	**88**	**1**
Chloride	mg/L	**4830**	**29**	**174**	**7870**	**579**	**161**
Calcium	mg/L	**294**	**9**	**6**	**503**	**28**	**4**
Magnesium	mg/L	**276**	**2**	**7**	**426**	**14**	<1
Sodium	mg/L	**2340**	**188**	**132**	**3850**	**488**	**148**
Potassium	mg/L	**49**	**4**	**8**	**113**	**10**	**5**
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	**0.01**	**0.03**
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	**0.007**	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	**0.219**	**0.015**	**0.226**	**2.05**	**0.056**	**0.028**
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	**0.001**	**0.002**
Nickel	mg/L	**0.009**	**0.002**	**0.007**	**0.026**	<0.001	<0.001
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	**0.013**	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	**0.008**	<0.005	<0.005	**0.028**	<0.005	<0.005
Boron	mg/L	**0.63**	**0.13**	**0.23**	**1.49**	**0.23**	<0.05
Iron	mg/L	**1.23**	**0.05**	**0.82**	**2.11**	**0.43**	<0.05
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	**0.6**	**2.1**	**0.6**	**0.5**	**0.8**	**0.4**
Ammonia as N	mg/L	**0.74**	**0.3**	**0.08**	**0.39**	**1.08**	**0.16**
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	**0.06**	**0.05**	**0.09**	**0.08**	**0.05**	**0.06**
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	**110**	<100
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1