Carmichael Coal Mine Project

Groundwater Quality Data

April 2026

Sample Type:		REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
Sample Date:		08/04/2026	08/04/2026	08/04/2026	08/04/2026	08/04/2026	08/04/2026	08/04/2026	08/04/2026	08/04/2026	10/04/2026	10/04/2026	10/04/2026	09/04/2026	09/04/2026	09/04/2026
Client sample ID (1st):		C029P1	C029P2	C14024SP	C19029SP	C555P1	C556P1	C833SP	C9838SPR	Duplicate A	C025P2	C027P1	C027P2	C032P2	C034P3	C035P1
Hydro-stratigraphic unit:		Alluvium	Tertiary	Composite Bore (Clematis / Dunda)	Colinlea Sandstone	Rewan Formation	Rewan Formation	Colinlea Sandstone	Rewan Formation		Tertiary	Alluvium	Dunda Beds	Bandanna Formation	Colinlea Sandstone	Rewan Formation
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	7.6	7.03	6.75	7.67	7.18	6.19	7.59	5.91	7.57	7	6.56	6.85	8.1	6.61	6.99
Electrical Conductivity @ 25°C	µS/cm	30200	10100	524	977	807	240	1060	411	1070	14900	98	265	1100	2060	3390
Total Dissolved Solids @180°C	mg/L	18600	8110	284	545	502	138	580	285	566	8910	191	358	846	1200	2090
Total Alkalinity as CaCO3	mg/L	1900	198	74	300	124	26	209	17	220	377	22	39	330	116	146
Sulfate as SO4 - Turbidimetric	mg/L	875	199	7	<1	<1	10	<1	7	1	425	6	5	<1	42	55
Chloride	mg/L	7990	2880	108	111	172	52	198	111	203	4790	24	56	218	639	986
Calcium	mg/L	31	52	3	5	6	<1	19	2	18	123	3	1	10	31	14
Magnesium	mg/L	240	76	4	4	7	1	6	6	5	124	2	2	3	13	14
Sodium	mg/L	6080	1850	96	212	150	43	187	66	184	3020	13	55	266	404	712
Potassium	mg/L	181	49	9	7	7	2	18	3	18	61	3	4	4	12	5
Aluminium	mg/L	<0.05	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.33	0.21	<0.01	<0.01	<0.01
Arsenic	mg/L	<0.005	0.005	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	0.001	0.006	0.002	0.005	<0.001	0.002
Cadmium	mg/L	<0.0005	<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	<0.005	<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	<0.005	<0.001	0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	<0.005	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	0.002	0.002	<0.001	<0.001	<0.001
Lead	mg/L	<0.005	<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	0.15	0.139	0.195	0.016	0.157	0.034	0.222	0.003	0.233	1.5	0.12	0.036	0.028	0.248	0.107
Molybdenum	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	0.009	<0.001	<0.001
Nickel	mg/L	<0.005	<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
Selenium	mg/L	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	mg/L	<0.005	<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	0.029	<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	<0.05	<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	<0.025	0.026	0.009	0.005	0.005	0.015	<0.005	0.023	<0.005	0.02	<0.005	0.008	<0.005	0.104	0.017
Boron	mg/L	3.88	0.95	0.13	0.31	0.25	0.1	0.19	0.12	0.18	1.42	0.07	0.11	0.34	0.29	0.64
Iron	mg/L	<0.05	1.45	0.85	0.32	2.07	0.64	0.72	<0.05	0.72	6.74	2.74	1.64	0.11	3.47	0.19
Mercury	mg/L	<0.0005	<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	1.3	0.4	0.2	6	0.6	0.2	1.5	<0.1	1.5	0.5	<0.1	0.2	1	0.3	0.6
Ammonia as N	mg/L	0.13	0.06	<0.01	0.17	0.06	<0.01	0.31	0.01	0.31	0.23	0.06	0.05	0.38	0.1	0.09
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	0.02	0.01	0.03	0.01	0.19	0.01	<0.01	<0.01	0.11	<0.01	<0.01	0.14
Total Phosphorus as P	mg/L	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	0.1	0.14	0.09	0.03	0.04
Sulfide as S2-	mg/L	3.4	<0.10	<0.10	<0.10	<0.10	<0.10	0.35	<0.10	0.42	<0.10	<0.30	<0.10	0.23	<0.10	<0.10
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	<100	<100
Sum of BTEX	µg/L	<1	2	<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:	09/04/2026	09/04/2026	10/04/2026	10/04/2026	09/04/2026	09/04/2026	10/04/2026	10/04/2026	10/04/2026	10/04/2026	09/04/2026	09/04/2026	09/04/2026	10/04/2026	10/04/2026
	Client sample ID (1st):	C035P2	C14029SP	C18009SP	C19001SP	C19003SP	C19004SP	C19007SP	C19008SP	C19019SP	C19022SP	C19028SP	C914030SPR	C9845SPR	Duplicate B	Duplicate C
	Hydro-stratigraphic unit:	Bandanna Formation	Composite Bore (Tertiary / Joe Joe)	Weathered Tertiary	Alluvium	Colinlea Sandstone	Colinlea Sandstone	Dunda Beds	Rewan Formation	Alluvium	Weathered Tertiary	Rewan Formation	Joe Joe Group	Tertiary		
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**6.87**	**6.04**	**7.20**	**7.58**	**7.87**	**7.86**	**8.14**	**8.47**	**5.72**	**6.64**	**7.17**	**6.24**	**6.53**	**6.52**	**6.84**
Electrical Conductivity @ 25°C	µS/cm	**1310**	**10100**	**28500**	**8430**	**2990**	**2780**	**699**	**813**	**5150**	**60300**	**5610**	**492**	**1700**	**268**	**1320**
Total Dissolved Solids @180°C	mg/L	**918**	**6370**	**20800**	**5330**	**1770**	**1690**	**438**	**514**	**3550**	**46000**	**3530**	**336**	**1150**	**364**	**814**
Total Alkalinity as CaCO3	mg/L	**107**	**56**	**142**	**534**	**179**	**232**	**149**	**152**	**13**	**243**	**278**	**30**	**61**	**39**	**109**
Sulfate as SO4 - Turbidimetric	mg/L	**21**	**475**	**951**	**299**	<1	<1	**8**	**1**	**956**	**2400**	**213**	**12**	**57**	**6**	**20**
Chloride	mg/L	**393**	**3230**	**8460**	**2580**	**850**	**763**	**168**	**217**	**1060**	**19100**	**1580**	**151**	**526**	**69**	**399**
Calcium	mg/L	**10**	**187**	**1340**	**48**	**68**	**48**	**4**	**5**	**13**	**2390**	**16**	**5**	**5**	**1**	**10**
Magnesium	mg/L	**7**	**145**	**539**	**53**	**11**	**5**	<1	<1	**92**	**1290**	**53**	**5**	**14**	**2**	**7**
Sodium	mg/L	**269**	**1700**	**3240**	**1770**	**535**	**542**	**171**	**186**	**867**	**8090**	**1190**	**96**	**355**	**58**	**271**
Potassium	mg/L	**6**	**11**	**19**	**36**	**11**	**7**	**5**	**5**	<1	**25**	**13**	**5**	**7**	**4**	**6**
Aluminium	mg/L	**0.01**	<0.01	<0.01	**0.03**	<0.01	<0.01	**0.02**	**0.03**	**0.03**	<0.05	<0.01	<0.01	<0.01	**0.21**	<0.01
Arsenic	mg/L	<0.001	<0.001	<0.001	**0.014**	<0.001	<0.001	<0.001	**0.002**	**0.002**	**0.011**	**0.006**	<0.001	<0.001	**0.002**	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.001	**0.005**	**0.002**	<0.001	<0.001	<0.001	<0.001	**0.006**	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	**0.004**	<0.001	**0.010**	<0.001	<0.001	<0.001	<0.001	**0.059**	<0.005	<0.001	**0.008**	<0.001	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.005	<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	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	**0.097**	**0.065**	**0.013**	**0.296**	**0.100**	**0.107**	**0.044**	**0.027**	**1.08**	**1.93**	**0.194**	**0.140**	**0.009**	**0.037**	**0.099**
Molybdenum	mg/L	<0.001	<0.001	**0.011**	**0.016**	<0.001	<0.001	**0.012**	**0.004**	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	<0.001	**0.009**	**0.014**	**0.006**	<0.001	<0.001	<0.001	<0.001	**0.058**	<0.005	<0.001	**0.011**	<0.001	**0.001**	<0.001
Selenium	mg/L	<0.004	<0.004	**0.004**	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.001	**0.039**	**0.038**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.014**	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	**0.008**	**0.011**	**0.022**	<0.005	<0.005	<0.005	<0.005	<0.005	**0.011**	**0.027**	**0.007**	**0.040**	**0.019**	**0.009**	**0.008**
Boron	mg/L	**0.26**	**1.60**	**1.40**	**1.15**	**0.42**	**0.45**	**0.08**	**0.06**	**1.09**	**3.90**	**1.09**	**0.12**	**0.20**	**0.09**	**0.25**
Iron	mg/L	**0.35**	**1.49**	<0.05	**0.20**	**1.96**	**1.36**	<0.05	<0.05	<0.05	**12.7**	**0.56**	**0.59**	<0.05	**1.66**	**0.36**
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Fluoride	mg/L	**0.2**	<0.1	**0.6**	**0.9**	**2.1**	**3.0**	**0.4**	**0.2**	<0.1	**0.3**	**0.9**	**0.2**	**0.2**	**0.2**	**0.2**
Ammonia as N	mg/L	**0.04**	**0.06**	**0.03**	**0.06**	**0.29**	**0.35**	**0.19**	**0.27**	<0.01	**0.07**	**0.03**	**0.01**	**0.02**	**0.10**	**0.05**
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	**0.24**	<0.01	<0.01	<0.01	<0.01	<0.01	**3.36**	<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01
Total Phosphorus as P	mg/L	**0.05**	**0.15**	**0.11**	**0.15**	**0.04**	**0.08**	**0.04**	**0.07**	**0.05**	**0.04**	**0.20**	**0.04**	**0.04**	**0.13**	**0.05**
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	**0.50**	<0.10	<0.10	<0.10	**0.15**	<0.10	<0.10	<0.10	<0.10
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	<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:	09/04/2026	14/04/2026	13/04/2026	13/04/2026	13/04/2026	13/04/2026	13/04/2026	14/04/2026	13/04/2026	14/04/2026	14/04/2026	13/04/2026	14/04/2026	14/04/2026	14/04/2026
	Client sample ID (1st):	Field Blank A	C014P2	C018P2	C018P3	C14011SP	C14012SP	C14013SP	C14015SP	C14020SP	C14031SP	C14032SP	C14033SP	C18006SP	C180119SP	C180120SP
	Hydro-stratigraphic unit:		Bandanna Formation	Bandanna Formation	Colinlea Sandstone	Clematis Sandstone	Clematis Sandstone	Clematis Sandstone	Joe Joe Group	Moolayember	Composite Bore (Tertiary / Joe Joe)	Joe Joe Group	Clematis Sandstone	Weathered Tertiary	Joe Joe Group	Composite Bore (Tertiary / Joe Joe)
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**5.60**	**8.08**	**7.36**	**7.26**	**6.09**	**7.30**	**5.61**	**7.11**	**6.40**	**6.07**	**6.46**	**5.85**	**6.70**	**6.83**	**6.04**
Electrical Conductivity @ 25°C	µS/cm	<1	**2020**	**2050**	**979**	**286**	**485**	**414**	**2410**	**1510**	**5980**	**2140**	**372**	**61800**	**766**	**8460**
Total Dissolved Solids @180°C	mg/L	<10	**1120**	**1150**	**556**	**171**	**269**	**231**	**1380**	**880**	**3320**	**1200**	**208**	**53500**	**428**	**5260**
Total Alkalinity as CaCO3	mg/L	**3**	**304**	**240**	**164**	**28**	**126**	**10**	**118**	**37**	**29**	**36**	**13**	**209**	**79**	**29**
Sulfate as SO4 - Turbidimetric	mg/L	<1	<1	**10**	**14**	**4**	**5**	**9**	**56**	**49**	**104**	**30**	**3**	**2950**	**5**	**160**
Chloride	mg/L	<1	**461**	**501**	**204**	**69**	**67**	**106**	**630**	**413**	**1800**	**613**	**103**	**24300**	**186**	**2790**
Calcium	mg/L	<1	**18**	**53**	**25**	**6**	**3**	**1**	**17**	**7**	**91**	**27**	**2**	**2190**	**7**	**101**
Magnesium	mg/L	<1	**4**	**33**	**6**	**6**	**2**	**10**	**14**	**42**	**103**	**30**	**10**	**1540**	**5**	**138**
Sodium	mg/L	<1	**409**	**317**	**175**	**37**	**103**	**58**	**460**	**211**	**998**	**350**	**47**	**11200**	**134**	**1350**
Potassium	mg/L	<1	**9**	**18**	**9**	**3**	**8**	**7**	**9**	**24**	**14**	**12**	**10**	**27**	**4**	**28**
Aluminium	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	<0.05	<0.01	<0.01
Arsenic	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	<0.005	<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	<0.0005	<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	<0.005	<0.001	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	**0.004**	<0.001	**0.001**	<0.001	**0.003**	**0.002**	**0.008**	<0.001	**0.002**
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	**0.004**	<0.001	**0.007**	<0.001	<0.001	<0.001	<0.001	**0.005**	<0.005	<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	<0.005	<0.001	<0.001
Manganese	mg/L	<0.001	**0.008**	**0.062**	**0.052**	**0.012**	**0.002**	**0.018**	**0.093**	**0.001**	**0.100**	**0.236**	**0.004**	**1.27**	**0.047**	**0.044**
Molybdenum	mg/L	<0.001	**0.004**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.008**	<0.001	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	**0.003**	<0.001	**0.009**	**0.003**	**0.005**	**0.001**	**0.002**	**0.002**	**0.034**	<0.001	**0.003**
Selenium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020	<0.004	<0.004
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	<0.005	<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	**0.028**	<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	<0.05	<0.01	<0.01
Zinc	mg/L	<0.005	<0.005	<0.005	**0.006**	**0.025**	**0.006**	**0.050**	**0.017**	**0.028**	**0.006**	**0.010**	**0.049**	<0.025	**0.626**	**0.026**
Boron	mg/L	<0.05	**0.33**	**0.55**	**0.33**	**0.10**	**0.11**	**0.12**	**0.37**	**0.30**	**0.41**	**0.16**	**0.07**	**5.38**	**0.10**	**0.47**
Iron	mg/L	<0.05	**0.10**	**0.37**	**0.81**	<0.05	<0.05	<0.05	**0.77**	<0.05	**0.68**	**2.40**	<0.05	**2.33**	**12.1**	**7.45**
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	<0.0005	<0.0001	<0.0001
Fluoride	mg/L	<0.1	**1.0**	**0.4**	**1.0**	<0.1	**0.4**	<0.1	**0.5**	**0.2**	**0.1**	**0.3**	<0.1	**0.1**	**0.1**	<0.1
Ammonia as N	mg/L	<0.01	**0.91**	**0.03**	**0.11**	<0.01	**0.01**	**0.01**	**0.05**	**0.01**	**0.03**	**0.07**	<0.01	<0.01	**0.04**	**0.04**
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	**0.61**	**0.39**	**0.01**	**0.60**	<0.01	<0.01	<0.01	<0.01	**0.50**	**0.01**	<0.01	**0.07**
Total Phosphorus as P	mg/L	**0.02**	<0.01	**0.12**	**0.06**	<0.01	**0.08**	**0.05**	**0.13**	<0.01	<0.02	<0.01	**0.01**	<0.02	**0.02**	<0.02
Sulfide as S2-	mg/L	<0.10	**0.54**	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
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	<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:		14/04/2026	14/04/2026	14/04/2026	14/04/2026	13/04/2026	14/04/2026	13/04/2026	14/04/2026	14/04/2026	15/04/2026	15/04/2026	15/04/2026	15/04/2026	15/04/2026	15/04/2026
Client sample ID (1st):		C180122SP	C9180121SPR	C9180124SPR	C9180125SPR	C9553P1R	Mellaluka Spring	Duplicate D	Duplicate E	Trip Blank	C011P3	C012P1	C012P2	C016P2	C024P3	C14003SP
Hydro-stratigraphic unit:		Composite Bore (Tertiary / Joe Joe)	Tertiary	Joe Joe Group	Joe Joe Group	Rewan Formation	Spring Discharge Composite				Colinlea Sandstone	Joe Joe Group	Joe Joe Group	Bandanna Formation	Colinlea Sandstone	Joe Joe Group
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**6.00**	**6.28**	**6.09**	**8.27**	**6.34**	**6.78**	**7.46**	**6.48**	**----**	**7.61**	**6.22**	**7.27**	**7.93**	**6.42**	**6.03**
Electrical Conductivity @ 25°C	µS/cm	**7130**	**3530**	**492**	**923**	**360**	**778**	**486**	**2130**	**----**	**955**	**2060**	**2670**	**2510**	**1470**	**52300**
Total Dissolved Solids @180°C	mg/L	**4310**	**1960**	**277**	**490**	**235**	**465**	**269**	**1200**	**----**	**538**	**1180**	**1490**	**1390**	**812**	**45000**
Total Alkalinity as CaCO3	mg/L	**17**	**29**	**19**	**286**	**48**	**56**	**125**	**37**	**----**	**204**	**74**	**252**	**166**	**112**	**55**
Sulfate as SO4 - Turbidimetric	mg/L	**70**	**78**	**6**	<1	**9**	<1	**4**	**30**	**----**	<1	**49**	**45**	**20**	**17**	**2370**
Chloride	mg/L	**2410**	**988**	**137**	**128**	**83**	**221**	**81**	**628**	**----**	**165**	**540**	**628**	**645**	**375**	**19800**
Calcium	mg/L	**105**	**34**	**3**	**10**	<1	**10**	**3**	**27**	**----**	**22**	**29**	**78**	**63**	**12**	**2490**
Magnesium	mg/L	**117**	**48**	**4**	**4**	**6**	**10**	**2**	**31**	**----**	**5**	**32**	**29**	**11**	**26**	**1430**
Sodium	mg/L	**1170**	**610**	**86**	**203**	**63**	**117**	**97**	**338**	**----**	**162**	**302**	**388**	**390**	**218**	**8600**
Potassium	mg/L	**18**	**9**	**4**	**4**	**3**	**14**	**7**	**11**	**----**	**9**	**12**	**15**	**17**	**10**	**31**
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01	**----**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	**----**	<0.001	<0.001	**0.002**	<0.001	**0.004**	<0.005
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	<0.0005
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	<0.005
Cobalt	mg/L	**0.003**	<0.001	**0.002**	<0.001	<0.001	**0.001**	<0.001	**0.003**	**----**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.025**
Copper	mg/L	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	**----**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
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	<0.005
Manganese	mg/L	**0.239**	**0.005**	**0.006**	**0.049**	**0.074**	**0.159**	**0.002**	**0.234**	**----**	**0.035**	**0.013**	**0.193**	**0.046**	**0.151**	**2.68**
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	<0.005
Nickel	mg/L	**0.003**	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	**0.002**	**----**	<0.001	<0.001	<0.001	<0.001	**0.008**	**0.029**
Selenium	mg/L	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	**----**	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020
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	<0.005
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	<0.005
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	<0.05
Zinc	mg/L	**0.022**	**0.032**	**0.034**	**0.058**	**0.053**	<0.005	<0.005	**0.010**	**----**	**0.008**	**0.050**	**0.024**	<0.005	**0.052**	**0.056**
Boron	mg/L	**0.49**	**0.29**	**0.10**	**0.26**	**0.11**	**0.13**	**0.12**	**0.16**	**----**	**0.44**	**0.43**	**0.51**	**0.30**	**0.33**	**2.42**
Iron	mg/L	**1.11**	**2.13**	**0.71**	**0.19**	**1.19**	**0.37**	<0.05	**2.40**	**----**	**0.42**	<0.05	**0.30**	**0.09**	**13.5**	**21.8**
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	<0.0005
Fluoride	mg/L	<0.1	<0.1	**0.1**	**0.5**	**0.2**	**0.1**	**0.4**	**0.3**	**----**	**1.1**	**0.2**	**0.3**	**0.1**	**0.4**	**0.1**
Ammonia as N	mg/L	**0.08**	<0.01	**0.01**	**0.19**	**0.11**	**0.71**	<0.01	**0.03**	**----**	**0.25**	**0.03**	<0.01	**5.12**	**0.15**	**0.32**
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
Nitrate as N	mg/L	<0.01	**0.25**	**0.09**	<0.01	<0.01	<0.01	**0.01**	<0.01	**----**	<0.01	**0.04**	<0.01	**0.03**	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.02	<0.01	**0.01**	<0.01	**0.09**	**1.48**	**0.07**	**0.03**	**----**	**0.02**	<0.01	<0.01	<0.01	**0.05**	<0.02
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	**0.47**	<0.50	<0.10	<0.10	**----**	<0.10	<0.10	**0.21**	**4.05**	<0.10	<0.10
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	**780**	<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	<1

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	15/04/2026	15/04/2026	15/04/2026	15/04/2026	15/04/2026	15/04/2026	16/04/2026	16/04/2026	16/04/2026	16/04/2026	16/04/2026	16/04/2026	16/04/2026	16/04/2026	15/04/2026
	Client sample ID (1st):	C14004SP	C14006SP	C14008SP	C14027SP	C975SP	Joshua Spring	C008P1	C18004SP	C18005SP	C022P1	C14016SP	C848SP	C847SP	C9845SPR	Duplicate F
	Hydro-stratigraphic unit:	Joe Joe Group	Joe Joe Group	Joe Joe Group	Alluvium	Colinlea Sandstone	Spring Discharge Clematis SSt	Rewan Formation	Weathered Tertiary	Weathered Tertiary	Dunda Beds	Joe Joe Group	Colinlea Sandstone	Bandanna Formation	Tertiary	
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**7.06**	**6.75**	**6.15**	**6.70**	**6.18**	**7.19**	**7.03**	**6.69**	**6.60**	**5.93**	**7.70**	**6.71**	**6.11**	**6.88**	**5.91**
Electrical Conductivity @ 25°C	µS/cm	**53000**	**8810**	**678**	**51700**	**618**	**547**	**22200**	**41400**	**52100**	**317**	**2780**	**2990**	**360**	**3140**	**52100**
Total Dissolved Solids @180°C	mg/L	**44100**	**5200**	**376**	**38800**	**420**	**306**	**16100**	**38200**	**44400**	**183**	**1580**	**1700**	**267**	**1730**	**44000**
Total Alkalinity as CaCO3	mg/L	**186**	**122**	**32**	**192**	**39**	**112**	**305**	**182**	**157**	**18**	**157**	**197**	**22**	**245**	**57**
Sulfate as SO4 - Turbidimetric	mg/L	**1810**	**199**	**13**	**2170**	**22**	**7**	**208**	**786**	**2290**	**6**	**61**	**19**	**7**	<1	**2440**
Chloride	mg/L	**21500**	**2740**	**175**	**18900**	**144**	**84**	**7480**	**15100**	**21000**	**61**	**706**	**762**	**88**	**776**	**21300**
Calcium	mg/L	**2890**	**179**	**8**	**923**	**2**	**12**	**435**	**3200**	**2430**	**3**	**37**	**26**	**1**	**34**	**2440**
Magnesium	mg/L	**1220**	**89**	**6**	**1240**	**6**	**4**	**384**	**1250**	**1180**	**4**	**11**	**25**	**2**	**18**	**1380**
Sodium	mg/L	**8630**	**1510**	**111**	**10100**	**101**	**96**	**3770**	**4730**	**8820**	**59**	**511**	**556**	**67**	**567**	**8280**
Potassium	mg/L	**41**	**23**	**5**	**122**	**6**	**20**	**85**	**19**	**16**	**3**	**8**	**17**	**2**	**21**	**31**
Aluminium	mg/L	<0.05	<0.01	<0.01	<0.05	**0.07**	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Arsenic	mg/L	<0.005	**0.001**	<0.001	<0.005	<0.001	<0.001	**0.008**	<0.005	**0.005**	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.005
Cadmium	mg/L	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Chromium	mg/L	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	**0.006**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Cobalt	mg/L	<0.005	<0.001	**0.007**	**0.008**	<0.001	<0.001	**0.019**	<0.005	**0.012**	**0.015**	<0.001	<0.001	<0.001	<0.001	**0.024**
Copper	mg/L	<0.005	<0.001	<0.001	<0.005	**0.001**	<0.001	**0.479**	<0.005	<0.005	**0.004**	<0.001	<0.001	**0.001**	<0.001	<0.005
Lead	mg/L	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Manganese	mg/L	**7.41**	**0.425**	**0.072**	**1.24**	**0.036**	**0.080**	**2.12**	**0.426**	**2.76**	**0.011**	**0.173**	**0.300**	**0.002**	**0.342**	**2.71**
Molybdenum	mg/L	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	**0.006**	<0.005	**0.008**	<0.001	**0.004**	<0.001	<0.001	<0.001	<0.005
Nickel	mg/L	**0.010**	<0.001	**0.009**	**0.011**	<0.001	<0.001	**0.175**	**0.014**	**0.209**	**0.002**	<0.001	<0.001	<0.001	<0.001	**0.029**
Selenium	mg/L	<0.020	<0.004	<0.004	<0.020	<0.004	<0.004	<0.004	<0.020	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.020
Silver	mg/L	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Uranium	mg/L	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	**0.013**	**0.013**	**0.034**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Vanadium	mg/L	<0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05
Zinc	mg/L	<0.025	**0.015**	**0.032**	**0.032**	**0.052**	<0.005	**0.076**	<0.025	<0.025	**0.037**	**0.051**	**0.014**	**0.018**	**0.007**	**0.056**
Boron	mg/L	**0.33**	**0.46**	**0.11**	**2.43**	**0.17**	**0.12**	**1.53**	**1.05**	**3.80**	**0.21**	**0.41**	**0.21**	**0.13**	**0.20**	**2.37**
Iron	mg/L	**2.50**	**8.46**	**1.78**	**2.82**	<0.05	<0.05	<0.05	**1.05**	**1.65**	<0.05	**0.35**	**1.57**	<0.05	**3.28**	**21.7**
Mercury	mg/L	<0.0005	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005
Fluoride	mg/L	**0.1**	**0.6**	**0.1**	**0.2**	**0.2**	**0.4**	**0.4**	**0.1**	<0.1	<0.1	**0.6**	**0.3**	**0.1**	**0.3**	**0.1**
Ammonia as N	mg/L	**1.58**	**0.49**	<0.01	**0.10**	<0.01	**0.03**	**2.95**	<0.01	**0.02**	**0.01**	**0.39**	**0.09**	<0.01	**0.05**	**0.33**
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.41**	<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	**0.05**	<0.01	<0.01	**60.4**	<0.01	**0.10**	<0.01	<0.01	**0.10**	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.02	<0.02	<0.01	**0.06**	<0.01	**0.01**	**0.06**	<0.05	**0.04**	<0.01	**0.05**	**0.01**	**0.03**	**0.01**	<0.02
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
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	<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												
Sample Date:		15/04/2026	16/04/2026	15/04/2026												
Client sample ID (1st):		Duplicate G	Duplicate H	C18014SP												
Hydro-stratigraphic unit:				Spring Discharge Clematis SSt												
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**6.95**	**6.71**	**7.50**												
Electrical Conductivity @ 25°C	µS/cm	**8700**	**2980**	**610**												
Total Dissolved Solids @180°C	mg/L	**5260**	**1760**	**362**												
Total Alkalinity as CaCO3	mg/L	**120**	**196**	**79**												
Sulfate as SO4 - Turbidimetric	mg/L	**202**	**19**	**6**												
Chloride	mg/L	**2750**	**774**	**141**												
Calcium	mg/L	**179**	**27**	**6**												
Magnesium	mg/L	**88**	**24**	**16**												
Sodium	mg/L	**1510**	**541**	**81**												
Potassium	mg/L	**22**	**17**	**14**												
Aluminium	mg/L	<0.01	<0.01	**0.10**												
Arsenic	mg/L	**0.001**	<0.001	<0.001												
Cadmium	mg/L	<0.0001	<0.0001	<0.0001												
Chromium	mg/L	<0.001	<0.001	<0.001												
Cobalt	mg/L	<0.001	<0.001	**0.014**												
Copper	mg/L	<0.001	<0.001	**0.002**												
Lead	mg/L	<0.001	<0.001	<0.001												
Manganese	mg/L	**0.425**	**0.310**	**0.006**												
Molybdenum	mg/L	<0.001	<0.001	<0.001												
Nickel	mg/L	<0.001	<0.001	**0.050**												
Selenium	mg/L	<0.004	<0.004	<0.004												
Silver	mg/L	<0.001	<0.001	<0.001												
Uranium	mg/L	<0.001	<0.001	<0.001												
Vanadium	mg/L	<0.01	<0.01	<0.01												
Zinc	mg/L	**0.014**	**0.014**	**0.009**												
Boron	mg/L	**0.50**	**0.21**	**0.10**												
Iron	mg/L	**8.39**	**1.60**	**0.15**												
Mercury	mg/L	<0.0001	<0.0001	<0.0001												
Fluoride	mg/L	**0.6**	**0.3**	<0.1												
Ammonia as N	mg/L	**0.53**	**0.06**	**0.16**												
Nitrite as N	mg/L	<0.01	<0.01	<0.01												
Nitrate as N	mg/L	<0.01	<0.01	**0.05**												
Total Phosphorus as P	mg/L	**0.04**	**0.01**	**0.10**												
Sulfide as S2-	mg/L	<0.10	<0.10	<0.10												
C6 - C9 Fraction	µg/L	<20	<20	<20												
C6 - C10 Fraction	µg/L	<20	<20	<20												
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100												
Sum of BTEX	µg/L	<1	<1	<1												