Adani Carmichael Coal Mine Project

Groundwater Quality data

April 2021

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG			
	Sample Date:	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	15/04/2021	18/04/2021			
Client sample ID (1st):		C14017SP	C180123SP	C9180121SPR	C14031SP	C14032SP	C914108PTR	C14015SP	Duplicate E	C180122SP	C9180124SPR	C18005SP			
Hydro-stratigraphic unit:		Joe-Joe	Joe-Joe	Tertiary	Composite bore	Joe-Joe	Joe-Joe	Joe-Joe		Composite Bore	Joe-Joe	Alluvium			
Analyte grouping/Analyte	**Unit**														
pH Value	pH Unit	**6.97**	**8.19**	**5.91**	**5.78**	**5.97**	**5.87**	**6.74**	**5.8**	**5.58**	**5.77**	**6.55**			
Electrical Conductivity @ 25°C	µS/cm	**5310**	**792**	**3530**	**5620**	**2070**	**508**	**2360**	**5620**	**7070**	**462**	**53100**			
Total Dissolved Solids @180°	mg/L	**3060**	**471**	**2280**	**3520**	**1180**	**357**	**1570**	**3420**	**4200**	**280**	**48600**			
Total Alkalinity as CaCO3	mg/L	**249**	**233**	**29**	**27**	**38**	**26**	**124**	**27**	**16**	**19**	**190**			
Sulfate as SO4 - Turbidimetric	mg/L	**46**	**21**	**88**	**108**	**30**	**15**	**63**	**105**	**83**	**6**	**2250**			
Chloride	mg/L	**1590**	**80**	**1090**	**1790**	**649**	**130**	**684**	**1810**	**2400**	**122**	**19800**			
Calcium	mg/L	**100**	**6**	**31**	**73**	**25**	**5**	**15**	**72**	**96**	**2**	**2410**			
Magnesium	mg/L	**54**	**3**	**47**	**94**	**30**	**4**	**14**	**93**	**115**	**3**	**1280**			
Sodium	mg/L	**905**	**166**	**608**	**921**	**333**	**87**	**441**	**909**	**1180**	**75**	**9160**			
Potassium	mg/L	**15**	**3**	**9**	**13**	**11**	**4**	**9**	**13**	**19**	**3**	**16**			
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05			
Arsenic	mg/L	**0.002**	**0.003**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<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	<0.0005			
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005			
Cobalt	mg/L	**0.001**	<0.001	<0.001	<0.001	**0.003**	**0.001**	<0.001	<0.001	**0.003**	**0.001**	**0.014**			
Copper	mg/L	<0.001	<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	<0.005			
Manganese	mg/L	**0.695**	**0.028**	**0.007**	**0.03**	**0.148**	**0.067**	**0.192**	**0.029**	**0.234**	**0.003**	**1.6**			
Molybdenum	mg/L	**0.003**	**0.003**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.009**			
Nickel	mg/L	<0.001	<0.001	**0.001**	**0.001**	**0.003**	**0.002**	<0.001	<0.001	**0.003**	**0.003**	**0.02**			
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05			
Silver	mg/L	<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	**0.088**			
Vanadium	mg/L	<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	**0.035**	<0.005	**0.868**	**0.163**	**0.216**	**0.024**	**0.089**	**0.165**	**0.145**	**0.526**	<0.025			
Boron	mg/L	**0.7**	**0.33**	**0.27**	**0.41**	**0.15**	**0.11**	**0.36**	**0.4**	**0.44**	**0.07**	**4.65**			
Iron	mg/L	**0.48**	<0.05	**0.06**	**0.35**	**1.75**	**0.2**	**0.52**	**0.34**	**0.98**	**0.09**	**0.1**			
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			
Fluoride	mg/L	**1.1**	**0.6**	**0.1**	**0.1**	**0.3**	**0.3**	**0.5**	**0.1**	**0.1**	**0.1**	<0.1			
Ammonia as N	mg/L	**0.1**	**0.05**	**0.02**	<0.01	**0.03**	**0.04**	**0.03**	**0.03**	**0.05**	<0.01	**0.38**			
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			
Nitrate as N	mg/L	<0.01	<0.01	**0.33**	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01	**0.14**	<0.01			
Total Phosphorus as P	mg/L	**0.03**	**0.05**	**0.03**	<0.01	**0.01**	<0.01	**0.03**	<0.01	<0.01	<0.01	**0.14**			
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			
C6 - C9 Fraction	µg/L	<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			
>C10 - C40 Fraction (sum)	µg/L	<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	**2**			

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	18/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	18/04/2021	18/04/2021	18/04/2021	18/04/2021	17/04/2021	18/04/2021	18/04/2021	18/04/2021	18/04/2021
Client sample ID (1st):		C18006SP	C9180125SPR	C180120SP	Mellaluka Spring	C180119SP	C14016SP	C14002SP	C914001SPR	C14028SP	C14027SP	C025P2	C029P1	C029P2	C14021SP
Hydro-stratigraphic unit:		Alluvium	Joe-Joe	Composite Bore		Joe-Joe	Joe-Joe	Joe-Joe	Joe-Joe	Alluvium	Alluvium	Tertiary	Alluvium	Tertiary	Clematis SSt
Analyte grouping/Analyte	**Unit**														
pH Value	pH Unit	**6.57**	**8.14**	**5.39**	**6.76**	**6.21**	**7.58**	**6.79**	**6.29**	**6.67**	**6.55**	**6.85**	**7.43**	**6.82**	**6.45**
Electrical Conductivity @ 25°C	µS/cm	**60600**	**897**	**7760**	**1080**	**686**	**2670**	**11000**	**20200**	**45400**	**51100**	**13600**	**29100**	**11600**	**599**
Total Dissolved Solids @180°	mg/L	**49600**	**494**	**4800**	**656**	**390**	**1490**	**7300**	**14000**	**30600**	**38600**	**7900**	**17500**	**7510**	**334**
Total Alkalinity as CaCO3	mg/L	**216**	**272**	**10**	**46**	**39**	**189**	**134**	**192**	**361**	**196**	**386**	**615**	**202**	**37**
Sulfate as SO4 - Turbidimetric	mg/L	**2860**	<1	**160**	**10**	**6**	**58**	**363**	**1330**	**1780**	**2140**	**411**	**833**	**275**	**20**
Chloride	mg/L	**23800**	**118**	**2640**	**313**	**185**	**731**	**3770**	**7150**	**16100**	**18400**	**4560**	**9010**	**3970**	**146**
Calcium	mg/L	**2170**	**10**	**93**	**10**	**4**	**43**	**264**	**790**	**808**	**884**	**107**	**46**	**85**	**5**
Magnesium	mg/L	**1510**	**4**	**134**	**13**	**4**	**11**	**106**	**411**	**1100**	**1270**	**110**	**291**	**114**	**11**
Sodium	mg/L	**11600**	**188**	**1320**	**174**	**122**	**487**	**1930**	**3320**	**8930**	**10100**	**2720**	**6550**	**2270**	**86**
Potassium	mg/L	**28**	**4**	**28**	**14**	**4**	**8**	**29**	**68**	**132**	**121**	**58**	**203**	**61**	**16**
Aluminium	mg/L	<0.05	<0.01	**0.01**	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Arsenic	mg/L	<0.005	<0.001	<0.001	<0.001	**0.001**	**0.006**	**0.002**	**0.002**	<0.005	<0.005	<0.001	<0.005	**0.007**	<0.001
Cadmium	mg/L	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001
Chromium	mg/L	<0.005	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001
Cobalt	mg/L	**0.012**	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.012**	**0.037**	<0.001	<0.005	<0.001	<0.001
Copper	mg/L	<0.005	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.001	**0.149**	<0.005	<0.005	**0.002**	<0.005	<0.001	**0.008**
Lead	mg/L	<0.005	<0.001	**0.001**	<0.001	**0.002**	<0.001	<0.001	**0.009**	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001
Manganese	mg/L	**0.976**	**0.047**	**0.007**	**0.162**	**0.011**	**0.129**	**1**	**0.956**	**2.62**	**2.4**	**1.54**	**0.108**	**0.186**	**0.007**
Molybdenum	mg/L	**0.007**	<0.001	<0.001	<0.001	<0.001	**0.002**	**0.001**	**0.002**	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001
Nickel	mg/L	**0.018**	**0.006**	**0.006**	<0.001	**0.019**	<0.001	**0.001**	**0.01**	**0.006**	**0.036**	<0.001	<0.005	<0.001	**0.001**
Selenium	mg/L	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Silver	mg/L	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001
Uranium	mg/L	**0.046**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.003**	**0.058**	**0.006**	<0.001	**0.037**	<0.001	<0.001
Vanadium	mg/L	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01
Zinc	mg/L	<0.025	**0.009**	**0.54**	**0.007**	**0.787**	**0.024**	**0.013**	**0.166**	**0.052**	**0.068**	**0.024**	<0.025	**0.03**	**0.059**
Boron	mg/L	**5.3**	**0.31**	**0.46**	**0.22**	**0.17**	**0.38**	**0.86**	**1.49**	**2.97**	**2.86**	**1.3**	**4.12**	**1.11**	**0.19**
Iron	mg/L	**0.57**	<0.05	**0.14**	**0.74**	**0.78**	**0.08**	**2.85**	**6.97**	**0.97**	**4.17**	**7.33**	**0.46**	**1.32**	<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
Fluoride	mg/L	**0.2**	**0.6**	**0.1**	**0.2**	**0.1**	**0.7**	**0.2**	**0.3**	**0.3**	**0.2**	**0.5**	**1.3**	**0.4**	**0.1**
Ammonia as N	mg/L	**0.19**	**0.1**	**0.02**	**0.12**	**0.06**	**0.33**	**0.29**	**0.46**	**0.16**	**0.34**	**0.5**	**0.1**	**0.09**	<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
Nitrate as N	mg/L	<0.01	<0.01	**0.21**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.08**	<0.01	<0.01	<0.01	**0.16**
Total Phosphorus as P	mg/L	<0.10	**0.16**	<0.01	**2.05**	**0.18**	**0.05**	**0.1**	<0.05	**0.06**	<0.10	**0.24**	**0.38**	**0.12**	**0.07**
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	**0.9**	<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	**320**	<100	<100	<100	<100	<100	<100	**120**	<100	<100	<100
Sum of BTEX	µg/L	**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:	18/04/2021	18/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	17/04/2021	18/04/2021	18/04/2021	18/04/2021
Client sample ID (1st):		C14023SP	C9838SPR	C14006SP	C14008SP	C14029SP	C914030SPR	C034P3	C035P1	C035P2	C032P2	C9845SPR	C19028SP	C19004SP	C19003SP	C027P1
Hydro-stratigraphic unit:		Dunda Beds	Rewan	Joe-Joe	Joe-Joe	Composite bore	Joe Joe	Colinlea SSt	Rewan	Bandanna	Bandanna	Tertiary	Rewan	Sub-E Seam	Sub-E Seam	Alluvium
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	8.09	6.01	7.14	6.5	6.94	6.52	6.76	7.12	7.12	8.23	6.76	7.82	8.52	8.27	6.73
Electrical Conductivity @ 25°C	µS/cm	739	403	8310	660	9820	571	1780	3630	1530	1270	1940	5320	2890	3100	5530
Total Dissolved Solids @180°	mg/L	414	241	5090	366	6730	323	1010	2020	872	708	1070	2940	1600	1580	3140
Total Alkalinity as CaCO3	mg/L	134	17	113	33	60	34	94	149	110	343	62	284	223	167	147
Sulfate as SO4 - Turbidimetric	mg/L	2	8	189	14	490	11	24	52	20	<1	58	190	<1	<1	435
Chloride	mg/L	150	105	2660	174	3250	143	510	1050	411	209	562	1430	808	902	1470
Calcium	mg/L	4	2	174	7	195	5	23	15	10	10	5	20	32	63	20
Magnesium	mg/L	1	6	82	6	151	5	10	14	7	4	15	42	5	10	93
Sodium	mg/L	144	63	1430	102	1670	88	301	699	266	262	358	996	530	539	924
Potassium	mg/L	8	3	22	5	11	5	12	5	6	5	7	12	8	11	56
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	<0.01	<0.01	<0.01
Arsenic	mg/L	<0.001	<0.001	0.001	<0.001	0.001	<0.001	<0.001	0.003	<0.001	0.007	<0.001	0.007	<0.001	0.002	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	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.003	<0.001	0.002	<0.001	0.005
Cobalt	mg/L	<0.001	<0.001	<0.001	0.01	0.004	0.008	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Copper	mg/L	<0.001	0.018	<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
Lead	mg/L	<0.001	0.003	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.055	0.003	0.426	0.102	0.076	0.133	0.235	0.118	0.103	0.054	<0.001	0.237	0.035	0.059	2.23
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.009	0.001	0.001	0.003	0.003	0.005
Nickel	mg/L	<0.001	0.002	0.002	0.013	0.011	0.012	<0.001	<0.001	<0.001	0.01	0.004	0.002	0.009	0.001	0.022
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	<0.005	0.05	0.157	0.223	0.087	0.129	0.337	0.017	<0.005	<0.005	0.014	0.018	<0.005	<0.005	<0.005
Boron	mg/L	0.11	0.15	0.4	0.12	1.41	0.12	0.22	0.65	0.26	0.36	0.25	0.9	0.44	0.42	0.57
Iron	mg/L	<0.05	<0.05	7.63	1.92	0.7	0.4	2.62	0.23	0.39	0.13	<0.05	0.51	0.16	0.28	11
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	0.4	<0.1	0.7	0.2	0.1	0.2	0.2	0.7	0.2	1.1	0.2	1	3	2.3	0.3
Ammonia as N	mg/L	0.16	<0.01	0.46	0.01	0.05	<0.01	0.09	0.08	0.03	0.39	<0.01	0.07	0.44	0.3	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	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.14	<0.01	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	<0.01	<0.01	0.03	0.44	0.2	0.34	0.08	<0.01	0.03	0.05	0.05	0.09	0.07	<0.05	0.09
Sulfide as S2-	mg/L	<0.1	<0.1	<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
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
	Sample Date:	18/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021	19/04/2021
Client sample ID (1st):		C027P2	C14003SP	C14004SP	C18009SP	C18004SP	C823SP	C19001SP	C14024SP	C180117SP	C556P1	C847SP	C848SP	C9849SPR
Hydro-stratigraphic unit:		Dunda Beds	Joe Joe	Joe Joe	Alluvium	Alluvium	Bandanna	Alluvium	Composite bore	Dunda Beds	Rewan	Bandanna	Colinlea SSt	Colinlea SSt
Analyte grouping/Analyte	**Unit**													
pH Value	pH Unit	6.7	5.84	6.73	7.08	6.59	7.47	7.01	6.34	6.15	5.94	5.98	6.6	6.85
Electrical Conductivity @ 25°C	µS/cm	709	53400	53600	25000	39900	4260	24900	477	240	239	347	2930	3100
Total Dissolved Solids @180°	mg/L	461	45200	47200	18800	33400	2350	14800	267	138	159	236	1630	1740
Total Alkalinity as CaCO3	mg/L	34	64	89	88	181	402	781	73	43	26	24	198	285
Sulfate as SO4 - Turbidimetric	mg/L	13	2030	1790	723	647	<1	670	11	11	11	8	19	<1
Chloride	mg/L	186	19800	20200	8560	14400	1200	7990	95	31	40	79	814	829
Calcium	mg/L	2	2580	3010	1680	3160	133	228	2	<1	<1	<1	28	41
Magnesium	mg/L	3	1480	1240	438	1220	63	321	6	2	1	2	24	19
Sodium	mg/L	124	8650	8460	3510	4740	765	5280	85	42	43	63	535	564
Potassium	mg/L	7	28	45	23	20	28	96	8	2	2	2	16	20
Aluminium	mg/L	0.03	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Arsenic	mg/L	0.001	0.006	<0.005	0.001	<0.005	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cadmium	mg/L	<0.0001	<0.0005	<0.0005	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	mg/L	<0.001	<0.005	<0.005	0.011	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	<0.001	0.034	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001
Copper	mg/L	0.001	<0.005	0.08	<0.001	<0.005	0.002	0.002	<0.001	0.003	0.012	0.01	<0.001	<0.001
Lead	mg/L	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Manganese	mg/L	0.093	2.37	7.21	0.042	0.084	0.046	0.117	0.029	0.011	0.024	0.002	0.315	0.357
Molybdenum	mg/L	<0.001	<0.005	<0.005	0.031	<0.005	0.003	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	mg/L	0.002	0.028	<0.005	0.013	0.029	<0.001	0.016	0.001	0.004	0.002	<0.001	<0.001	<0.001
Selenium	mg/L	<0.01	<0.05	<0.05	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Uranium	mg/L	<0.001	<0.005	<0.005	0.012	0.033	<0.001	0.071	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Vanadium	mg/L	<0.01	<0.05	<0.05	<0.01	<0.05	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	mg/L	0.039	0.156	0.058	0.034	<0.025	0.04	0.005	0.044	0.054	0.044	0.056	0.022	0.006
Boron	mg/L	0.2	2.91	0.43	1.23	1.21	0.54	1.24	0.12	0.09	0.13	0.13	0.22	0.22
Iron	mg/L	2.08	17.5	1.68	0.08	<0.05	0.96	<0.05	0.06	1.61	<0.05	<0.05	1.5	5.08
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
Fluoride	mg/L	0.2	<0.5	0.1	0.5	0.2	0.8	0.4	0.2	0.2	0.2	0.1	0.3	0.4
Ammonia as N	mg/L	0.06	0.49	1.87	0.06	0.18	1.16	0.12	0.01	0.06	<0.01	0.02	0.06	0.06
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
Nitrate as N	mg/L	0.02	<0.01	<0.01	0.17	0.02	<0.01	0.02	0.07	<0.01	0.08	0.12	<0.01	<0.01
Total Phosphorus as P	mg/L	0.07	<0.10	<0.10	<0.05	0.08	0.02	0.08	<0.01	0.02	0.03	0.07	0.03	0.03
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	0.2	<0.1
C6 - C9 Fraction	µg/L	<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
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	140	<100	<100	140	<100	<100	<100	<100
Sum of BTEX	µg/L	<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:	19/04/2021	19/04/2021	19/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021	20/04/2021
Client sample ID (1st):		C833SP	C006P3R	C555P1	C558P1	C012P1	C012P2	C011P3	C024P3	C975SP	C022P1	C19027SP	C14020SP	C14033SP	C016P2	C9553P1R
Hydro-stratigraphic unit:		Colinlea SSt	Colinlea SSt	Rewan	Tertiary	Joe-Joe	Joe-Joe	Colinlea SSt	Colinlea SSt	Colinlea SSt	Dunda Beds	Bandanna	Moolayember	Clematis Sst	Bandanna	Rewan
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	10.3	7.95	7.02	6.48	6.15	7.23	7.32	6.4	5.92	5.65	8.06	6.06	5.49	7.46	6.19
Electrical Conductivity @ 25°C	µS/cm	1190	1030	787	9620	1980	2570	913	1390	590	281	1760	1510	368	2840	388
Total Dissolved Solids @180°	mg/L	688	680	456	6760	1100	1460	824	792	356	155	994	848	208	1580	231
Total Alkalinity as CaCO3	mg/L	251	417	128	231	76	278	215	115	38	16	216	37	12	182	51
Sulfate as SO4 - Turbidimetric	mg/L	1	1	<1	251	50	37	<1	21	22	5	25	52	3	40	15
Chloride	mg/L	202	76	172	2890	572	669	161	381	142	62	432	433	95	814	72
Calcium	mg/L	2	13	6	75	32	80	22	12	2	1	18	6	2	88	<1
Magnesium	mg/L	<1	4	7	234	32	30	5	26	6	3	4	44	10	19	5
Sodium	mg/L	216	230	147	1680	310	424	172	230	106	47	365	215	47	460	68
Potassium	mg/L	48	5	7	28	11	15	9	10	6	2	4	24	10	9	3
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	<0.01	<0.01	<0.01
Arsenic	mg/L	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001	0.006	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	0.002
Cadmium	mg/L	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	<0.0001	0.0002	<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	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	0.024	<0.001	0.001	0.002	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	<0.001	0.11	<0.001	<0.001	<0.001	0.001	0.006	0.007	<0.001	0.018	0.018	<0.001	<0.001
Lead	mg/L	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.001	0.002	<0.001	0.001	0.002	<0.001	<0.001
Manganese	mg/L	0.002	0.022	0.237	0.011	0.01	0.18	0.033	0.148	0.063	0.005	0.036	<0.001	0.003	0.078	0.092
Molybdenum	mg/L	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	<0.001	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	0.034	<0.001	<0.001	<0.001	0.035	<0.001	0.002	<0.001	0.006	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	0.002	<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	<0.005	0.009	0.034	0.088	0.105	0.007	0.006	0.124	0.246	0.047	<0.005	0.054	0.051	0.014	0.029
Boron	mg/L	0.19	0.16	0.29	0.86	0.41	0.54	0.51	0.37	0.19	0.16	0.54	0.37	0.09	0.42	0.13
Iron	mg/L	<0.05	0.07	1.76	<0.05	<0.05	0.37	0.48	13.7	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	1.46
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	1.3	2.3	0.5	0.4	0.2	0.3	1.3	0.4	0.2	<0.1	0.5	0.2	<0.1	0.2	0.2
Ammonia as N	mg/L	0.57	0.23	0.1	0.04	0.02	0.01	0.22	0.27	0.04	0.01	0.6	0.01	0.01	0.56	0.15
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	0.05	<0.01	<0.01	<0.01	0.07	0.19	<0.01	0.05	0.58	<0.01	<0.01
Total Phosphorus as P	mg/L	0.02	0.02	0.08	0.02	0.01	0.03	0.05	0.14	<0.01	0.01	0.04	<0.01	<0.01	0.06	0.11
Sulfide as S2-	mg/L	1.1	<0.1	<0.1	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8
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	240	<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
	Sample Date:	20/04/2021	20/04/2021	20/04/2021	20/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021
Client sample ID (1st):		C018P2	C018P3	C19029SP	C19002SP	C014P2	C18012SP	C18013SP	C18002SP	C18003SP	Joshua Spring	C18011SP	C18010SP	Moses Spring
Hydro-stratigraphic unit:		Bandanna	Colinlea SSt	Colinlea SSt	Clematis SSt	Bandanna	DSC Spearpoint	DSC Spearpoint	Clematis SSt	Moolayember		DSC Spearpoint	DSC Spearpoint	
Analyte grouping/Analyte	**Unit**													
pH Value	pH Unit	**7.29**	**6.78**	**7.41**	**5.89**	**7.91**	**7**	**6.96**	**7.44**	**6.99**	**6.91**	**7.04**	**8.08**	**7.04**
Electrical Conductivity @ 25°C	µS/cm	**1730**	**990**	**1030**	**325**	**1900**	**423**	**758**	**370**	**450**	**519**	**608**	**632**	**518**
Total Dissolved Solids @180°	mg/L	**998**	**556**	**580**	**180**	**1030**	**283**	**2200**	**213**	**252**	**295**	**362**	**405**	**298**
Total Alkalinity as CaCO3	mg/L	**261**	**173**	**331**	**20**	**318**	**165**	**287**	**129**	**153**	**115**	**126**	**213**	**143**
Sulfate as SO4 - Turbidimetric	mg/L	**5**	**14**	<1	**6**	<1	<1	<1	<1	**8**	**7**	**3**	<1	<1
Chloride	mg/L	**417**	**202**	**119**	**71**	**446**	**29**	**68**	**32**	**40**	**82**	**119**	**65**	**73**
Calcium	mg/L	**44**	**23**	**5**	**5**	**16**	**1**	**3**	**1**	**5**	**10**	**2**	**5**	<1
Magnesium	mg/L	**26**	**6**	**4**	**5**	**4**	<1	**1**	<1	**2**	**3**	<1	<1	<1
Sodium	mg/L	**273**	**172**	**229**	**45**	**352**	**83**	**125**	**75**	**82**	**80**	**113**	**122**	**104**
Potassium	mg/L	**17**	**9**	**7**	**4**	**8**	**16**	**23**	**12**	**15**	**20**	**13**	**14**	**10**
Aluminium	mg/L	<0.01	<0.01	<0.01	**0.01**	**0.02**	**0.02**	**0.03**	**0.01**	**0.01**	<0.01	**0.01**	**0.05**	**0.04**
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	**0.015**	**0.004**	<0.001	**0.003**	<0.001	**0.003**	**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
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
Cobalt	mg/L	<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
Copper	mg/L	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	**0.002**	<0.001	**0.001**	<0.001	<0.001	**0.018**	<0.001
Lead	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
Manganese	mg/L	**0.077**	**0.047**	**0.017**	**0.011**	**0.009**	**0.022**	**0.322**	**0.121**	**1.21**	**0.112**	**0.004**	**0.032**	<0.001
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	**0.003**	**0.003**	<0.001	<0.001	**0.002**	<0.001	<0.001	**0.004**	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	**0.005**	<0.001	<0.001	**0.003**	<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
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	**0.002**
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
Vanadium	mg/L	<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
Zinc	mg/L	**0.014**	**0.017**	**0.015**	**0.088**	<0.005	<0.005	<0.005	**0.008**	**0.006**	<0.005	<0.005	**0.011**	<0.005
Boron	mg/L	**0.58**	**0.39**	**0.38**	**0.11**	**0.41**	**0.13**	**0.13**	**0.08**	**0.12**	**0.09**	**0.13**	**0.12**	**0.12**
Iron	mg/L	**0.49**	**0.8**	**0.35**	<0.05	**0.09**	<0.05	**3.66**	<0.05	**1.09**	<0.05	**0.54**	**0.14**	**0.07**
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
Fluoride	mg/L	**0.4**	**1.1**	**6.4**	<0.1	**1.1**	**0.5**	**0.7**	**0.4**	**0.6**	**0.5**	**0.2**	**0.3**	**0.3**
Ammonia as N	mg/L	**0.06**	**0.1**	**0.15**	**0.02**	**0.96**	**0.18**	**0.66**	**0.1**	**0.04**	**0.04**	**0.07**	**0.03**	**0.07**
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
Nitrate as N	mg/L	**0.01**	**0.01**	<0.01	**0.22**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	**0.06**	**0.04**	**0.08**	<0.01	<0.01	**0.09**	**0.63**	**0.15**	**0.04**	**0.54**	**0.16**	**0.15**	**0.07**
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1	<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	**50**	**40**	<20	<20	<20	<20	**40**	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	**50**	**40**	<20	<20	<20	<20	**40**	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	<100	**120**	<100	<100	<100	<100	<100	<100
Sum of BTEX	µg/L	<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
	Sample Date:	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	22/04/2021	22/04/2021
Client sample ID (1st):		C18014SP	Little Moses Spring	HD03A	HD03B	HD02	C14012SP	C14013SP	C14011SP	C19008SP	C007P2	C008P1	C19017SP	C19009SP
Hydro-stratigraphic unit:		DSC Spearpoint		Clematis SSt	Alluvium	Clematis Sst	Clematis Sst	Clematis Sst	Clematis Sst	Rewan	Bandanna	Rewan	Rewan	Rewan
Analyte grouping/Analyte	**Unit**													
pH Value	pH Unit	**6.88**	**6.42**	**7.01**	**7.09**	**6.84**	**7.02**	**5.39**	**5.41**	**10.4**	**7.06**	**6.73**	**12.1**	**12.2**
Electrical Conductivity @ 25°C	µS/cm	**729**	**539**	**692**	**752**	**240**	**483**	**405**	**248**	**1440**	**13200**	**21000**	**6330**	**7690**
Total Dissolved Solids @180°	mg/L	**406**	**303**	**394**	**448**	**166**	**294**	**223**	**144**	**802**	**8630**	**15500**	**1790**	**4670**
Total Alkalinity as CaCO3	mg/L	**193**	**35**	**108**	**125**	**54**	**128**	**9**	**9**	**293**	**256**	**295**	**1310**	**1640**
Sulfate as SO4 - Turbidimetric	mg/L	**3**	**3**	**11**	**9**	**2**	**5**	**10**	**5**	**7**	**339**	**212**	**29**	**4**
Chloride	mg/L	**116**	**146**	**141**	**154**	**35**	**66**	**104**	**58**	**258**	**4760**	**7850**	**207**	**482**
Calcium	mg/L	**7**	**3**	**4**	**2**	**2**	**3**	**1**	<1	**5**	**286**	**479**	**85**	**36**
Magnesium	mg/L	**28**	**10**	**2**	**2**	**1**	**2**	**9**	**5**	<1	**265**	**400**	<1	**16**
Sodium	mg/L	**87**	**77**	**121**	**131**	**40**	**92**	**54**	**35**	**235**	**2200**	**3640**	**554**	**1020**
Potassium	mg/L	**16**	**11**	**15**	**16**	**7**	**8**	**7**	**3**	**40**	**45**	**100**	**51**	**83**
Aluminium	mg/L	**0.02**	**0.01**	<0.01	**0.01**	**0.01**	<0.01	**0.02**	**0.01**	**0.28**	<0.01	<0.01	**3.14**	**77.3**
Arsenic	mg/L	<0.001	<0.001	<0.001	**0.002**	**0.006**	<0.001	<0.001	<0.001	**0.006**	<0.001	**0.003**	**0.004**	**0.025**
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
Chromium	mg/L	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.069**
Cobalt	mg/L	**0.002**	**0.002**	<0.001	<0.001	**0.001**	<0.001	**0.004**	**0.002**	<0.001	<0.001	**0.007**	<0.001	**0.014**
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	**0.016**	**0.021**	<0.001	**0.006**	**0.001**	**0.004**	**0.018**
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	**0.014**
Manganese	mg/L	**0.12**	**0.11**	**0.395**	**0.297**	**0.364**	**0.002**	**0.019**	**0.012**	<0.001	**0.225**	**1.83**	**0.003**	**1.06**
Molybdenum	mg/L	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.022**	<0.001	<0.001	**0.08**	**0.203**
Nickel	mg/L	**0.008**	**0.003**	<0.001	<0.001	<0.001	<0.001	**0.011**	**0.005**	<0.001	<0.001	**0.006**	**0.007**	**0.044**
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
Silver	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
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.013**	<0.001	**0.002**
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	**0.11**
Zinc	mg/L	<0.005	<0.005	**0.02**	**0.011**	<0.005	**0.02**	**0.093**	**0.083**	<0.005	**0.036**	**0.047**	<0.005	**0.099**
Boron	mg/L	**0.12**	**0.13**	**0.15**	**0.16**	**0.05**	**0.12**	**0.12**	**0.11**	**0.05**	**0.71**	**1.76**	<0.05	**0.13**
Iron	mg/L	**1.39**	**0.22**	**0.52**	**1.26**	**1.31**	<0.05	<0.05	<0.05	<0.05	**1.24**	**1.56**	**0.18**	**51**
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
Fluoride	mg/L	**0.2**	**0.1**	**0.2**	**0.4**	**0.2**	**0.4**	<0.1	<0.1	**0.3**	**0.6**	**0.5**	**1.2**	**2.3**
Ammonia as N	mg/L	**2.61**	**0.05**	**0.15**	**0.13**	**0.24**	<0.01	<0.01	<0.01	**0.58**	**0.73**	**0.4**	**7.46**	**9.2**
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
Nitrate as N	mg/L	**0.08**	<0.01	<0.01	<0.01	<0.01	**0.03**	**0.63**	**0.42**	<0.01	<0.01	<0.01	**0.02**	**0.02**
Total Phosphorus as P	mg/L	**0.49**	**0.02**	**0.21**	**0.38**	**0.08**	**0.04**	<0.01	<0.01	**0.11**	**0.07**	**0.18**	**0.04**	**0.33**
Sulfide as S2-	mg/L	**0.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	**0.8**
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**30**
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	**30**
>C10 - C40 Fraction (sum)	µg/L	**1130**	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	**300**	**1740**
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**4**	**8**

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	23/04/2021	23/04/2021	23/04/2021	19/04/2021	21/04/2021	21/04/2021	21/04/2021	21/04/2021	22/04/2021	22/04/2021	23/04/2021	23/04/2021
Client sample ID (1st):		C19026SP	C008P2	C919013SPR	C19022SP	C19014SP	C19015SP	C19007SP	C19010SP	C919016SPR	C19018SP	C19011SP	C19012SP
Hydro-stratigraphic unit:		Colinlea SSt	Bandanna	Rewan	Tertiary	Clematis SSt	Dunda Beds	Dunda Beds	Clematis SSt	Rewan	Bandanna	Dunda Beds	Rewan
Analyte grouping/Analyte	**Unit**												
pH Value	pH Unit	8.11	7.87	12	6.44	8.37	7.9	8.08	8.28	8.63	12.3	8.37	12.4
Electrical Conductivity @ 25°C	µS/cm	855	2710	5250	46800	644	701	1160	615	748	8530	772	15000
Total Dissolved Solids @180°	mg/L	484	1510	1940	35700	365	387	666	344	413	2520	425	5370
Total Alkalinity as CaCO3	mg/L	416	399	900	258	144	139	139	154	199	1730	145	2950
Sulfate as SO4 - Turbidimetric	mg/L	<1	88	60	1960	<1	<1	20	<1	1	112	<1	236
Chloride	mg/L	33	642	459	17100	110	133	282	98	116	221	158	802
Calcium	mg/L	9	31	12	2370	2	3	9	2	3	242	3	62
Magnesium	mg/L	2	15	<1	1180	<1	<1	2	<1	<1	<1	<1	2
Sodium	mg/L	182	492	679	7910	122	132	209	120	145	493	142	1500
Potassium	mg/L	4	9	80	27	8	6	7	6	3	342	5	427
Aluminium	mg/L	0.01	0.01	5.12	<0.05	0.01	0.01	0.05	0.03	0.03	0.3	0.02	13.9
Arsenic	mg/L	<0.001	<0.001	0.005	0.016	<0.001	0.001	0.004	<0.001	0.001	0.003	<0.001	0.007
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0005	<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	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.176
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003
Copper	mg/L	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	0.093
Lead	mg/L	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005
Manganese	mg/L	0.014	0.046	<0.001	2.58	0.011	0.054	0.067	0.019	0.01	<0.001	0.032	0.283
Molybdenum	mg/L	<0.001	0.002	0.148	<0.005	<0.001	<0.001	0.023	<0.001	0.006	0.293	0.003	0.251
Nickel	mg/L	<0.001	<0.001	0.016	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	0.009
Selenium	mg/L	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Silver	mg/L	<0.001	0.003	<0.001	<0.005	<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	0.01	<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	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
Zinc	mg/L	<0.005	<0.005	<0.005	<0.025	<0.005	<0.005	<0.005	<0.005	0.037	0.76	<0.005	0.053
Boron	mg/L	0.12	0.2	0.07	3.37	0.08	0.09	0.06	0.08	<0.05	<0.05	<0.05	0.11
Iron	mg/L	<0.05	<0.05	<0.05	17.9	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6.9
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
Fluoride	mg/L	2.2	0.9	1.3	0.3	0.4	0.5	0.5	0.4	0.3	1.6	0.3	1.5
Ammonia as N	mg/L	0.29	1.17	3.76	0.29	0.2	0.14	0.27	0.14	0.28	1.87	0.19	2.83
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
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.09	<0.01	0.02	<0.01	0.02
Total Phosphorus as P	mg/L	<0.01	<0.01	<0.01	0.26	0.18	<0.01	0.01	0.16	<0.01	<0.01	<0.01	0.06
Sulfide as S2-	mg/L	<0.1	0.5	0.2	----	0.1	<0.1	0.2	<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
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	370	<100	<100	<100	<100	<100	<100	490	<100	410
Sum of BTEX	µg/L	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	6