Adani Carmichael Coal Mine Project

Groundwater Quality data

June 2021

	Sample Type:	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG	REG
	Sample Date:	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	03/06/2021	02/06/2021	02/06/2021	03/06/2021	03/06/2021
	Client sample ID (1st):	C14017SP	C180123SP	C9180121SPR	Mellaluka Spring	C14031SP	C14032SP	C914108PTR	C14015SP	Duplicate E	C180122SP	C9180124SPR	C025P2	C19001SP	C029P1	C029P2
	Hydro-stratigraphic unit:	Joe-Joe	Joe-Joe	Tertiary		Composite bore	Joe-Joe	Joe-Joe	Joe-Joe		Composite Bore	Joe-Joe	Tertiary	Alluvium	Alluvium	Tertiary
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**7.52**	**8.23**	**6.44**	**6.73**	**6.44**	**6.6**	**6.45**	**7.28**	**7.6**	**6.22**	**6.44**	**7.35**	**7.64**	**7.8**	**7.36**
Electrical Conductivity @ 25°C	µS/cm	**5570**	**850**	**3720**	**1310**	**5900**	**2190**	**535**	**2490**	**5560**	**7490**	**496**	**14400**	**27200**	**31500**	**12300**
Total Dissolved Solids @180°	mg/L	**3150**	**536**	**2140**	**734**	**3620**	**1230**	**306**	**1370**	**3200**	**4180**	**293**	**8210**	**16400**	**17500**	**7060**
Total Alkalinity as CaCO3	mg/L	**261**	**245**	**32**	**30**	**30**	**38**	**27**	**128**	**256**	**20**	**23**	**391**	**833**	**2220**	**257**
Sulfate as SO4 - Turbidimetric	mg/L	**49**	**22**	**85**	**21**	**102**	**31**	**16**	**59**	**49**	**76**	**7**	**405**	**868**	**939**	**278**
Chloride	mg/L	**1620**	**100**	**1090**	**384**	**1820**	**656**	**133**	**686**	**1620**	**2480**	**123**	**4660**	**8980**	**9900**	**4070**
Calcium	mg/L	**111**	**6**	**31**	**8**	**79**	**25**	**4**	**16**	**110**	**104**	**2**	**110**	**260**	**47**	**83**
Magnesium	mg/L	**58**	**4**	**49**	**15**	**96**	**30**	**4**	**14**	**57**	**118**	**3**	**116**	**348**	**324**	**119**
Sodium	mg/L	**928**	**166**	**610**	**188**	**921**	**329**	**87**	**451**	**916**	**1180**	**78**	**2780**	**5630**	**7250**	**2310**
Potassium	mg/L	**15**	**3**	**9**	**10**	**13**	**12**	**5**	**9**	**15**	**19**	**4**	**56**	**102**	**219**	**60**
Aluminium	mg/L	<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01
Arsenic	mg/L	**0.002**	**0.003**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	**0.006**	<0.005	**0.008**
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	<0.0005	<0.0001
Chromium	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	<0.005	<0.005	<0.001
Cobalt	mg/L	**0.001**	<0.001	<0.001	<0.001	<0.001	**0.003**	**0.001**	<0.001	**0.001**	**0.003**	**0.002**	<0.001	<0.005	<0.005	<0.001
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	**0.002**	**0.001**	<0.005	<0.005	<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	<0.005	<0.001
Manganese	mg/L	**0.765**	**0.028**	**0.006**	**0.189**	**0.03**	**0.141**	**0.046**	**0.182**	**0.77**	**0.227**	**0.004**	**1.62**	**0.094**	**0.136**	**0.173**
Molybdenum	mg/L	**0.003**	**0.003**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001
Nickel	mg/L	<0.001	<0.001	**0.001**	**0.001**	**0.001**	**0.002**	**0.002**	<0.001	<0.001	**0.003**	**0.003**	<0.001	**0.007**	<0.005	<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	<0.05	<0.05	<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	<0.005	<0.005	<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	**0.075**	**0.06**	**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	<0.05	<0.01
Zinc	mg/L	**0.055**	<0.005	**0.874**	**0.009**	**0.084**	**0.409**	**0.018**	**0.097**	**0.056**	**0.116**	**0.7**	**0.045**	<0.025	<0.025	**0.079**
Boron	mg/L	**0.69**	**0.35**	**0.24**	**0.15**	**0.38**	**0.14**	**0.1**	**0.38**	**0.71**	**0.42**	**0.08**	**1.3**	**2.14**	**4.56**	**1.02**
Iron	mg/L	**0.58**	<0.05	**0.09**	**0.46**	**0.25**	**1.79**	**0.15**	**0.59**	**0.58**	**1.03**	**0.11**	**7.96**	<0.05	**0.43**	**1.56**
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	**1.1**	**0.6**	**0.1**	**0.1**	**0.1**	**0.3**	**0.2**	**0.5**	**1**	<0.1	**0.1**	**0.5**	**0.4**	**1.4**	**0.4**
Ammonia as N	mg/L	**0.12**	**0.02**	<0.01	**0.05**	**0.03**	**0.04**	<0.01	**0.02**	**0.11**	**0.07**	<0.01	**0.36**	<0.01	**0.08**	**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	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	**0.31**	<0.01	<0.01	<0.01	**0.06**	<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	<0.01	**0.51**	<0.01	<0.01	**0.02**	**0.04**	**0.03**	**0.03**	<0.01	**0.06**	**0.05**	**0.24**	<0.05
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	**0.2**	<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	REG	REG
	Sample Date:	02/06/2021	02/06/2021	05/06/2021	06/06/2021	05/06/2021	06/06/2021	05/06/2021	05/06/2021	05/06/2021	05/06/2021	06/06/2021	06/06/2021	06/06/2021	06/06/2021	06/06/2021
	Client sample ID (1st):	C027P1	C027P2	Duplicate A	Duplicate B	C19022SP	C823SP	C180120SP	C9180125SPR	C180119SP	C14016SP	C14002SP	C914001SPR	C14028SP	C14027SP	C14021SP
	Hydro-stratigraphic unit:	Alluvium	Dunda Beds			Tertiary	Bandanna	Composite Bore	Joe-Joe	Joe-Joe	Joe-Joe	Joe-Joe	Joe-Joe	Alluvium	Alluvium	Clematis SSt
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**6.88**	**6.7**	**8.22**	**8.1**	**6.47**	**7.6**	**5.47**	**8.27**	**6.41**	**7.78**	**6.96**	**6.4**	**6.8**	**6.69**	**6.32**
Electrical Conductivity @ 25°C	µS/cm	**6190**	**761**	**1290**	**747**	**46700**	**4520**	**8040**	**926**	**691**	**2690**	**11400**	**21300**	**44900**	**50700**	**612**
Total Dissolved Solids @180°	mg/L	**3500**	**428**	**756**	**419**	**35800**	**2500**	**4910**	**512**	**382**	**1540**	**7740**	**14600**	**30600**	**35600**	**236**
Total Alkalinity as CaCO3	mg/L	**168**	**35**	**352**	**137**	**238**	**413**	**10**	**287**	**39**	**185**	**139**	**191**	**374**	**208**	**39**
Sulfate as SO4 - Turbidimetric	mg/L	**486**	**14**	<1	**2**	**2280**	<1	**167**	<1	**6**	**58**	**375**	**1350**	**1740**	**2200**	**21**
Chloride	mg/L	**1630**	**199**	**218**	**155**	**16700**	**1240**	**2490**	**124**	**192**	**745**	**3480**	**6930**	**16000**	**19200**	**149**
Calcium	mg/L	**21**	**2**	**12**	**3**	**2310**	**133**	**106**	**10**	**4**	**45**	**309**	**805**	**891**	**1000**	**6**
Magnesium	mg/L	**107**	**3**	**4**	**1**	**1180**	**52**	**131**	**4**	**4**	**11**	**103**	**382**	**1040**	**1220**	**12**
Sodium	mg/L	**1020**	**128**	**279**	**151**	**7720**	**706**	**1360**	**194**	**127**	**491**	**2040**	**3340**	**8390**	**9680**	**94**
Potassium	mg/L	**57**	**7**	**5**	**8**	**30**	**27**	**28**	**4**	**4**	**8**	**29**	**65**	**137**	**131**	**18**
Aluminium	mg/L	<0.01	<0.01	**0.02**	<0.01	<0.05	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01
Arsenic	mg/L	**0.006**	**0.001**	**0.006**	<0.001	**0.016**	<0.001	<0.001	<0.001	**0.001**	**0.006**	**0.001**	**0.002**	<0.005	**0.005**	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001
Chromium	mg/L	**0.002**	<0.001	<0.001	<0.001	<0.005	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.012**	**0.036**	<0.001
Copper	mg/L	**0.001**	<0.001	<0.001	<0.001	**0.469**	**0.001**	<0.001	<0.001	<0.001	<0.001	**0.001**	**0.276**	**0.034**	**0.11**	**0.007**
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	**0.006**	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.001	**0.003**	<0.005	**0.006**	<0.001
Manganese	mg/L	**2.34**	**0.077**	**0.047**	**0.053**	**3**	**0.039**	**0.007**	**0.046**	**0.009**	**0.116**	**1.05**	**0.951**	**3.55**	**2.86**	<0.001
Molybdenum	mg/L	**0.002**	<0.001	**0.008**	<0.001	**0.006**	**0.004**	<0.001	<0.001	<0.001	**0.002**	**0.001**	<0.001	<0.005	<0.005	<0.001
Nickel	mg/L	**0.005**	<0.001	<0.001	<0.001	**0.012**	<0.001	**0.005**	**0.002**	**0.004**	<0.001	<0.001	<0.001	**0.006**	**0.026**	<0.001
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.005	<0.005	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	**0.01**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.003**	**0.062**	**0.006**	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01
Zinc	mg/L	**0.01**	**0.064**	<0.005	<0.005	**0.678**	<0.005	**0.396**	**0.02**	**1.08**	**0.012**	**0.007**	**0.225**	**0.065**	**0.268**	**0.064**
Boron	mg/L	**0.62**	**0.18**	**0.24**	**0.08**	**3.61**	**0.52**	**0.47**	**0.23**	**0.12**	**0.35**	**0.91**	**1.41**	**2.64**	**2.41**	**0.12**
Iron	mg/L	**10**	**1.62**	**0.19**	<0.05	**19.4**	**1.05**	**0.14**	**0.05**	**0.85**	**0.09**	**2.99**	**7.05**	**1.23**	**5.5**	<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	**0.3**	**0.2**	**1.1**	**0.4**	**0.3**	**0.7**	**0.1**	**0.5**	**0.1**	**0.6**	**0.2**	**0.2**	**0.3**	**0.2**	**0.1**
Ammonia as N	mg/L	**0.19**	**0.03**	**0.3**	**0.1**	**0.16**	**0.79**	<0.01	**0.04**	**0.03**	**0.31**	**0.25**	**0.26**	**0.13**	**0.25**	<0.01
Nitrite as N	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	<0.01	<0.01
Nitrate as N	mg/L	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.23**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.01**	**0.16**
Total Phosphorus as P	mg/L	<0.05	<0.05	**0.04**	<0.01	<0.10	<0.01	**0.01**	<0.01	<0.01	**0.04**	**0.03**	<0.05	<0.05	<0.10	<0.01
Sulfide as S2-	mg/L	<0.1	<0.1	**0.5**	<0.1	<0.1	**0.2**	<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	<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:	06/06/2021	06/06/2021	06/06/2021	06/06/2021	06/06/2021	06/06/2021	05/06/2021	05/06/2021	05/06/2021	05/06/2021	05/06/2021	06/06/2021	06/06/2021	05/06/2021	05/06/2021
	Client sample ID (1st):	C14023SP	C14024SP	C180117SP	C556P1	C9838SPR	C19029SP	C14006SP	C14008SP	C14029SP	C914030SPR	C034P3	C035P1	C035P2	C032P2	C9845SPR
	Hydro-stratigraphic unit:	Dunda Beds	Composite bore	Dunda Beds	Rewan	Rewan	Colinlea SSt	Joe-Joe	Joe-Joe	Composite bore	Joe Joe	Colinlea SSt	Rewan	Bandanna	Bandanna	Tertiary
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**8.02**	**6.71**	**6.42**	**6.31**	**6.04**	**7.68**	**6.97**	**6.46**	**6.6**	**6.52**	**7.05**	**7.29**	**7.1**	**8.18**	**6.63**
Electrical Conductivity @ 25°C	µS/cm	**752**	**492**	**235**	**240**	**407**	**1020**	**8460**	**669**	**10100**	**617**	**1820**	**3690**	**1520**	**1280**	**1970**
Total Dissolved Solids @180°	mg/L	**441**	**303**	**140**	**167**	**225**	**570**	**5160**	**379**	**6670**	**353**	**1010**	**2060**	**894**	**760**	**1090**
Total Alkalinity as CaCO3	mg/L	**136**	**67**	**38**	**25**	**16**	**365**	**124**	**32**	**54**	**32**	**103**	**157**	**114**	**352**	**60**
Sulfate as SO4 - Turbidimetric	mg/L	**2**	**10**	**10**	**10**	**7**	<1	**199**	**13**	**492**	**11**	**25**	**54**	**20**	<1	**59**
Chloride	mg/L	**153**	**102**	**36**	**45**	**104**	**108**	**2590**	**182**	**3030**	**152**	**531**	**1070**	**422**	**216**	**577**
Calcium	mg/L	**4**	**3**	**1**	<1	**2**	**6**	**194**	**8**	**220**	**7**	**26**	**16**	**11**	**11**	**5**
Magnesium	mg/L	**2**	**6**	**2**	**2**	**6**	**4**	**78**	**6**	**143**	**5**	**12**	**15**	**8**	**4**	**16**
Sodium	mg/L	**151**	**84**	**42**	**46**	**65**	**220**	**1460**	**107**	**1740**	**98**	**331**	**740**	**287**	**279**	**367**
Potassium	mg/L	**9**	**9**	**2**	**2**	**4**	**8**	**24**	**5**	**12**	**5**	**13**	**5**	**6**	**5**	**8**
Aluminium	mg/L	<0.01	<0.01	**0.04**	**0.02**	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	<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	**0.002**	<0.001	**0.007**	<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	**0.002**
Cobalt	mg/L	<0.001	<0.001	<0.001	**0.004**	**0.001**	<0.001	<0.001	**0.009**	**0.004**	**0.007**	<0.001	**0.001**	<0.001	<0.001	<0.001
Copper	mg/L	<0.001	<0.001	**0.024**	**0.013**	**0.003**	<0.001	<0.001	<0.001	**0.005**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	mg/L	**0.056**	**0.009**	**0.009**	**0.024**	**0.002**	**0.019**	**0.412**	**0.096**	**0.064**	**0.188**	**0.213**	**0.113**	**0.099**	**0.047**	**0.002**
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	**0.008**	<0.001
Nickel	mg/L	<0.001	<0.001	**0.003**	**0.001**	**0.002**	<0.001	<0.001	**0.011**	**0.01**	**0.013**	<0.001	<0.001	<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	**0.003**	<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	<0.005	**0.059**	**0.044**	**0.013**	<0.005	**0.11**	**0.17**	**0.051**	**0.329**	**0.313**	**0.027**	<0.005	<0.005	**0.034**
Boron	mg/L	**0.09**	**0.14**	**0.07**	**0.12**	**0.12**	**0.32**	**0.44**	**0.1**	**1.32**	**0.1**	**0.25**	**0.65**	**0.29**	**0.37**	**0.21**
Iron	mg/L	<0.05	<0.05	**1.75**	<0.05	<0.05	**0.32**	**7.79**	**1.96**	**0.66**	**0.75**	**2.54**	**0.24**	**0.4**	**0.2**	<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	**0.4**	**0.2**	**0.3**	**0.2**	<0.1	**6.2**	**0.8**	**0.2**	<0.1	**0.2**	**0.2**	**0.6**	**0.2**	**1.1**	**0.2**
Ammonia as N	mg/L	**0.1**	<0.01	**0.02**	<0.01	<0.01	**0.12**	**0.5**	<0.01	**0.02**	<0.01	**0.05**	<0.01	**0.01**	**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	**0.07**	<0.01	**0.08**	**0.21**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.14**
Total Phosphorus as P	mg/L	**0.01**	<0.01	**0.01**	**0.02**	<0.01	**0.08**	<0.05	<0.01	**0.18**	<0.01	<0.01	<0.01	**0.02**	**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	<0.1	<0.1	**0.5**	<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	**110**	<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:	05/06/2021	05/06/2021	06/06/2021	06/06/2021	06/06/2021	05/06/2021	05/06/2021	05/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021
	Client sample ID (1st):	C19028SP	C19004SP	C19003SP	C833SP	Duplicate J	C847SP	C848SP	C9849SPR	C022P1	C18012SP	C18013SP	C18002SP	C18003SP	Joshua Spring	C18011SP
	Hydro-stratigraphic unit:	Rewan	Sub-E Seam	Sub-E Seam	Colinlea SSt		Bandanna	Colinlea SSt	Colinlea SSt	Dunda Beds	DSC Spearpoint	DSC Spearpoint	Clematis SSt	Moolayember		DSC Spearpoint
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**7.58**	**8.44**	**8.26**	**10.1**	**7.2**	**6.36**	**7**	**7.22**	**5.7**	**7.3**	**7**	**7.84**	**7.24**	**7.96**	**7.31**
Electrical Conductivity @ 25°C	µS/cm	**5380**	**2910**	**3120**	**1190**	**1510**	**360**	**2920**	**3060**	**285**	**410**	**629**	**381**	**561**	**528**	**638**
Total Dissolved Solids @180°	mg/L	**3010**	**1610**	**1830**	**682**	**888**	**249**	**1650**	**1800**	**160**	**228**	**780**	**228**	**334**	**291**	**392**
Total Alkalinity as CaCO3	mg/L	**294**	**244**	**177**	**262**	**116**	**24**	**213**	**281**	**18**	**158**	**212**	**138**	**159**	**118**	**125**
Sulfate as SO4 - Turbidimetric	mg/L	**199**	<1	<1	<1	**20**	**7**	**19**	<1	**6**	**2**	<1	<1	**9**	**7**	**4**
Chloride	mg/L	**1480**	**826**	**921**	**210**	**422**	**85**	**838**	**850**	**65**	**30**	**71**	**34**	**70**	**83**	**121**
Calcium	mg/L	**25**	**41**	**71**	**2**	**12**	**1**	**27**	**42**	**1**	**2**	**1**	**1**	**6**	**10**	**2**
Magnesium	mg/L	**42**	**5**	**11**	<1	**7**	**2**	**23**	**18**	**3**	<1	<1	<1	**4**	**3**	<1
Sodium	mg/L	**1080**	**565**	**554**	**216**	**286**	**65**	**540**	**562**	**45**	**85**	**121**	**78**	**99**	**84**	**124**
Potassium	mg/L	**13**	**8**	**12**	**46**	**6**	**2**	**18**	**22**	**2**	**13**	**19**	**12**	**14**	**19**	**11**
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	**0.007**	<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	**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	<0.0001	<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	<0.001	**0.024**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	mg/L	**0.001**	<0.001	**0.001**	<0.001	<0.001	**0.019**	<0.001	<0.001	**0.013**	<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	**0.211**	**0.05**	**0.088**	<0.001	**0.103**	**0.002**	**0.292**	**0.332**	**0.008**	**0.002**	**0.06**	**0.135**	**0.946**	**0.03**	**0.007**
Molybdenum	mg/L	**0.002**	<0.001	**0.003**	**0.009**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.001	<0.001	**0.002**	<0.001	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	<0.001	**0.006**	<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	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<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	**0.018**	<0.005	<0.005	<0.005	<0.005	**0.032**	**0.021**	**0.03**	**0.085**	<0.005	<0.005	**0.008**	**0.076**	<0.005	<0.005
Boron	mg/L	**0.97**	**0.44**	**0.41**	**0.18**	**0.26**	**0.12**	**0.19**	**0.2**	**0.13**	**0.08**	**0.08**	**0.05**	**0.11**	**0.07**	**0.1**
Iron	mg/L	**0.5**	**0.51**	**0.42**	<0.05	**0.41**	<0.05	**1.75**	**4.44**	<0.05	<0.05	<0.05	<0.05	**1.28**	<0.05	**0.36**
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	**1.1**	**3**	**2.3**	**1.4**	**0.2**	**0.1**	**0.3**	**0.4**	**0.1**	<1.0	**0.5**	**0.4**	**0.6**	**0.6**	**0.2**
Ammonia as N	mg/L	<0.01	**0.36**	**0.26**	**0.53**	**0.02**	<0.01	**0.04**	**0.05**	<0.01	<0.01	**0.22**	**0.06**	**0.03**	<0.01	**0.03**
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	**0.12**	<0.01	<0.01	**0.19**	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01
Total Phosphorus as P	mg/L	**0.11**	<0.01	**0.01**	**0.01**	**0.02**	**0.01**	**0.02**	**0.04**	**0.02**	**0.04**	**1.86**	**0.18**	**0.15**	**0.08**	**0.4**
Sulfide as S2-	mg/L	<0.1	<0.1	<0.1	**2.3**	<0.1	<0.1	**0.2**	<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	<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:	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021
	Client sample ID (1st):	C18010SP	Moses Spring	C18014SP	Little Moses Sprin	HD03A	HD03B	HD02	C19014SP	C19015SP	C919016SPR	C19017SP	C19018SP	C14012SP	C14013SP	C14011SP
	Hydro-stratigraphic unit:	DSC Spearpoint		DSC Spearpoint		Clematis SSt	Alluvium	Clematis Sst	Clematis SSt	Dunda Beds	Rewan	Rewan	Bandanna	Clematis Sst	Clematis Sst	Clematis Sst
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	7.05	7.38	6.86	6.59	7.44	7.44	7.4	8.4	8.16	8.64	12.2	12.2	7.56	5.65	5.7
Electrical Conductivity @ 25°C	µS/cm	633	534	630	551	720	776	400	656	714	766	6020	6550	508	420	260
Total Dissolved Solids @180°	mg/L	348	337	370	309	408	443	254	401	415	424	1660	1820	299	241	196
Total Alkalinity as CaCO3	mg/L	201	145	104	28	114	130	83	152	148	203	1220	1210	138	10	10
Sulfate as SO4 - Turbidimetric	mg/L	<1	<1	1	6	11	10	2	<1	<1	<1	18	107	5	10	5
Chloride	mg/L	77	76	134	150	150	161	69	116	139	121	199	203	69	108	61
Calcium	mg/L	9	<1	4	2	4	2	2	2	3	3	87	147	3	1	1
Magnesium	mg/L	2	<1	18	10	2	2	2	<1	<1	<1	<1	<1	2	9	5
Sodium	mg/L	122	111	78	78	131	143	72	133	143	159	552	438	96	55	35
Potassium	mg/L	12	9	12	10	14	15	9	7	5	3	41	251	7	6	2
Aluminium	mg/L	<0.01	0.02	<0.01	0.01	<0.01	<0.01	0.05	<0.01	<0.01	0.04	2.88	0.63	<0.01	<0.01	<0.01
Arsenic	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	0.003	0.006	<0.001	<0.001	0.001	0.003	0.005	<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	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.002	<0.001	0.002	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.004	0.002
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	0.002	<0.001	0.006	0.006
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	0.159	0.001	0.108	0.016	0.435	0.326	0.465	0.014	0.056	0.031	0.01	0.002	0.004	0.021	0.014
Molybdenum	mg/L	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.084	0.278	0.004	<0.001	<0.001
Nickel	mg/L	0.02	<0.001	0.005	0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	0.004	<0.001	0.01	0.004
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	0.042	<0.005	<0.005	<0.005	0.023	0.008	0.005	<0.005	<0.005	0.028	0.011	0.581	<0.005	0.043	0.015
Boron	mg/L	0.1	0.08	0.11	0.12	0.12	0.14	0.05	0.07	0.08	<0.05	<0.05	0.08	0.1	0.11	0.08
Iron	mg/L	8.2	<0.05	2.42	0.22	0.64	1.39	1.54	<0.05	<0.05	<0.05	0.22	<0.05	<0.05	<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	0.3	0.2	0.1	0.2	0.4	0.2	0.4	0.5	0.3	1.1	1.8	0.5	<0.1	<0.1
Ammonia as N	mg/L	<0.01	<0.01	2.2	<0.01	0.13	0.1	0.1	0.09	0.13	0.2	6.96	1.73	<0.01	<0.01	<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	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	0.66	0.43
Total Phosphorus as P	mg/L	0.17	0.1	0.49	0.02	0.1	0.12	0.12	0.23	0.04	0.05	0.15	0.03	0.08	0.08	0.06
Sulfide as S2-	mg/L	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.1	0.2	<0.1	<0.1	<0.1
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	<20
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30	<20	<20	<20	<20
>C10 - C40 Fraction (sum)	µg/L	<100	<100	150	<100	<100	<100	<100	<100	<100	<100	1000	510	<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:	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	07/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021
	Client sample ID (1st):	C19007SP	C19008SP	Duplicate H	Duplicate I	C18001SP	Duplicate C	C558P1	C012P1	C012P2	C011P3	C024P3	C975SP	C19027SP	C14020SP	C14033SP
	Hydro-stratigraphic unit:	Dunda Beds	Rewan					Tertiary	Joe-Joe	Joe-Joe	Colinlea SSt	Colinlea SSt	Colinlea SSt	Bandanna	Moolayember	Clematis Sst
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**8.35**	**10.3**	**8.27**	**8.41**	**7.48**	**7.93**	**6.57**	**6.24**	**7.37**	**7.45**	**6.44**	**6.08**	**8.79**	**6.18**	**5.71**
Electrical Conductivity @ 25°C	µS/cm	**1320**	**1370**	**1270**	**664**	**673**	**530**	**10100**	**2070**	**2650**	**956**	**1660**	**617**	**1770**	**1560**	**388**
Total Dissolved Solids @180°	mg/L	**752**	**746**	**720**	**370**	**373**	**294**	**5990**	**1180**	**1460**	**536**	**914**	**340**	**988**	**866**	**241**
Total Alkalinity as CaCO3	mg/L	**133**	**276**	**136**	**153**	**102**	**119**	**241**	**80**	**277**	**221**	**116**	**39**	**225**	**39**	**13**
Sulfate as SO4 - Turbidimetric	mg/L	**26**	**7**	**24**	<1	**8**	**7**	**252**	**47**	**41**	<1	**23**	**24**	**25**	**50**	**3**
Chloride	mg/L	**339**	**265**	**322**	**114**	**138**	**82**	**3300**	**595**	**693**	**168**	**400**	**148**	**435**	**445**	**100**
Calcium	mg/L	**9**	**4**	**9**	**2**	**3**	**9**	**79**	**27**	**81**	**22**	**12**	**2**	**16**	**6**	**2**
Magnesium	mg/L	**2**	<1	**2**	<1	**1**	**3**	**226**	**32**	**29**	**5**	**25**	**6**	**3**	**41**	**9**
Sodium	mg/L	**247**	**252**	**244**	**133**	**120**	**81**	**1600**	**311**	**402**	**165**	**221**	**102**	**339**	**201**	**45**
Potassium	mg/L	**6**	**33**	**6**	**7**	**15**	**18**	**28**	**11**	**14**	**9**	**10**	**6**	**5**	**24**	**10**
Aluminium	mg/L	**0.05**	**0.28**	**0.04**	<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	**0.004**	**0.005**	**0.004**	<0.001	**0.002**	<0.001	<0.001	<0.001	**0.002**	<0.001	**0.005**	<0.001	**0.006**	<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	**0.0002**	<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	<0.001	<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	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	**0.001**	**0.002**
Copper	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	**0.113**	<0.001	**0.001**	<0.001	<0.001	**0.016**	<0.001	**0.007**	**0.003**
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	**0.058**	**0.002**	**0.057**	**0.014**	**0.016**	**0.028**	**0.011**	**0.012**	**0.172**	**0.034**	**0.15**	**0.06**	**0.017**	**0.001**	**0.005**
Molybdenum	mg/L	**0.032**	**0.022**	**0.032**	**0.002**	<0.001	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.001
Nickel	mg/L	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.001	**0.03**	<0.001	**0.006**	<0.001	**0.028**	<0.001	<0.001	**0.006**	**0.002**
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	**0.003**	<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	<0.005	<0.005	<0.005	**0.066**	<0.005	**0.17**	**0.083**	**0.008**	**0.015**	**0.088**	**0.163**	<0.005	**0.053**	**0.065**
Boron	mg/L	<0.05	<0.05	<0.05	**0.07**	**0.11**	**0.07**	**0.82**	**0.42**	**0.48**	**0.45**	**0.34**	**0.17**	**0.48**	**0.35**	**0.09**
Iron	mg/L	**0.05**	**0.07**	**0.05**	<0.05	**1.54**	<0.05	<0.05	**0.05**	**0.36**	**0.47**	**14.7**	<0.05	<0.05	<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	**0.6**	**0.3**	**0.5**	**0.4**	**0.2**	**0.5**	**0.4**	**0.2**	**0.3**	**1.2**	**0.4**	**0.2**	**0.5**	**0.2**	<0.1
Ammonia as N	mg/L	**0.38**	**0.45**	**0.4**	**0.12**	**0.16**	<0.01	**0.02**	<0.01	**0.03**	**0.22**	**0.32**	<0.01	**0.65**	<0.01	**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	**0.01**	<0.01	<0.01	<0.01	**0.05**	**0.07**	<0.01	<0.01	<0.01	**0.08**	<0.01	**0.08**	**0.52**
Total Phosphorus as P	mg/L	**0.05**	**0.08**	**0.05**	**0.28**	**0.07**	**0.06**	**0.04**	**0.04**	**0.02**	**0.04**	**0.13**	**0.01**	**0.08**	**0.03**	**0.04**
Sulfide as S2-	mg/L	**0.8**	**0.2**	**0.6**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.4**	<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	**150**	<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:	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	08/06/2021	09/06/2021	09/06/2021	09/06/2021
	Client sample ID (1st):	C016P2	C9553P1R	C018P2	C018P3	C014P2	C19002SP	C14004SP	Duplicate D	C18005SP	C18006SP	Duplicate G	C008P1	C18009SP	C18004SP	Duplicate F
	Hydro-stratigraphic unit:	Bandanna	Rewan	Bandanna	Colinlea SSt	Bandanna	Clematis SSt	Joe Joe		Alluvium	Alluvium		Rewan	Alluvium	Alluvium	
Analyte grouping/Analyte	**Unit**															
pH Value	pH Unit	**7.68**	**6.27**	**7.48**	**7.21**	**8.08**	**6.08**	**6.99**	**7.51**	**6.74**	**6.83**	**6.08**	**7**	**7.59**	**6.88**	**8.37**
Electrical Conductivity @ 25°C	µS/cm	**2920**	**402**	**1760**	**1020**	**1930**	**352**	**53600**	**1770**	**53500**	**61300**	**347**	**22800**	**25200**	**40200**	**647**
Total Dissolved Solids @180°	mg/L	**1650**	**252**	**1030**	**600**	**1080**	**201**	**42850**	**1000**	**43200**	**49000**	**209**	**15600**	**20600**	**36400**	**349**
Total Alkalinity as CaCO3	mg/L	**184**	**52**	**267**	**182**	**334**	**24**	**93**	**267**	**193**	**218**	**24**	**306**	**59**	**196**	**164**
Sulfate as SO4 - Turbidimetric	mg/L	**40**	**16**	**6**	**14**	<1	**6**	**1990**	**6**	**2310**	**2830**	**6**	**204**	**890**	**768**	<1
Chloride	mg/L	**834**	**76**	**432**	**211**	**451**	**78**	**20800**	**432**	**20000**	**23300**	**78**	**7970**	**8740**	**15200**	**100**
Calcium	mg/L	**96**	<1	**49**	**23**	**15**	**6**	**2390**	**47**	**2050**	**1750**	**6**	**471**	**1840**	**3300**	**2**
Magnesium	mg/L	**18**	**5**	**26**	**6**	**3**	**5**	**1380**	**25**	**1400**	**1570**	**5**	**396**	**463**	**1340**	<1
Sodium	mg/L	**448**	**65**	**275**	**166**	**382**	**44**	**9230**	**266**	**9730**	**11800**	**47**	**3890**	**3660**	**5180**	**135**
Potassium	mg/L	**10**	**3**	**18**	**9**	**7**	**4**	**43**	**18**	**23**	**27**	**5**	**92**	**24**	**21**	**6**
Aluminium	mg/L	<0.01	<0.01	<0.01	<0.01	**0.01**	**0.01**	<0.05	<0.01	<0.05	<0.05	**0.01**	<0.01	<0.05	<0.05	**0.02**
Arsenic	mg/L	<0.001	**0.002**	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	**0.007**	**0.006**	<0.001	**0.002**	<0.005	<0.005	<0.001
Cadmium	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0005	<0.0005	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001
Chromium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	**0.001**	<0.005	<0.001	<0.005	<0.005	**0.002**	<0.001	**0.014**	<0.005	<0.001
Cobalt	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	**0.015**	**0.011**	<0.001	**0.007**	<0.005	<0.005	<0.001
Copper	mg/L	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.001	**0.042**	<0.001	<0.005	<0.005	<0.001	**0.005**	**0.016**	<0.005	<0.001
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001
Manganese	mg/L	**0.075**	**0.092**	**0.087**	**0.05**	**0.008**	**0.012**	**6.1**	**0.085**	**1.68**	**0.969**	**0.012**	**1.94**	**0.015**	**0.091**	**0.016**
Molybdenum	mg/L	<0.001	<0.001	<0.001	<0.001	**0.002**	<0.001	<0.005	<0.001	**0.011**	**0.011**	<0.001	<0.001	**0.033**	<0.005	<0.001
Nickel	mg/L	<0.001	**0.001**	<0.001	<0.001	<0.001	**0.003**	<0.005	<0.001	**0.026**	**0.02**	**0.002**	**0.029**	**0.013**	**0.024**	<0.001
Selenium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01
Silver	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.005	<0.005	<0.001
Uranium	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	**0.105**	**0.048**	<0.001	**0.014**	**0.01**	**0.035**	<0.001
Vanadium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.01
Zinc	mg/L	**0.018**	**0.041**	**0.005**	**0.014**	**0.007**	**0.042**	**0.03**	<0.005	<0.025	<0.025	**0.044**	**0.11**	<0.025	<0.025	**0.016**
Boron	mg/L	**0.37**	**0.11**	**0.5**	**0.34**	**0.35**	**0.1**	**0.66**	**0.49**	**5.01**	**5.16**	**0.11**	**1.3**	**1.11**	**1.02**	**0.06**
Iron	mg/L	**0.22**	**1.62**	**0.54**	**0.85**	**0.13**	<0.05	**1.81**	**0.51**	**0.21**	**0.82**	<0.05	**1.78**	<0.05	<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**	**0.2**	**0.4**	**1.1**	**1.1**	<0.1	**0.1**	**0.4**	<0.1	**0.2**	<0.1	**0.5**	**0.4**	**0.2**	**0.4**
Ammonia as N	mg/L	**0.57**	**0.17**	**0.05**	**0.14**	**0.9**	<0.01	**1.78**	**0.05**	**0.33**	**0.32**	<0.01	**0.47**	**0.05**	**0.33**	**0.17**
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	**0.06**	<0.01	<0.01	<0.01
Nitrate as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	**0.23**	<0.01	<0.01	<0.01	<0.01	**0.22**	**0.1**	**0.19**	**0.01**	<0.01
Total Phosphorus as P	mg/L	**0.04**	**0.14**	**0.08**	**0.05**	**0.03**	**0.03**	<0.10	**0.08**	**0.36**	<0.05	**0.02**	**0.1**	<0.05	**0.06**	**0.2**
Sulfide as S2-	mg/L	<0.1	**0.9**	<0.1	<0.1	**0.2**	<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	<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	**110**	<100	<100	<100	<100	<100	<100	<100	<100	<100	**140**	<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				
	Sample Date:	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021	09/06/2021				
	Client sample ID (1st):	C007P2	C555P1	C008P2	C19010SP	C19011SP	C19012SP	C919013SPR	C14003SP				
	Hydro-stratigraphic unit:	Bandanna	Rewan	Bandanna	Clematis SSt	Dunda Beds	Rewan	Rewan	Joe Joe				
Analyte grouping/Analyte	**Unit**												
pH Value	pH Unit	**7.35**	**7.59**	**8.13**	**8.36**	**8.42**	**12.4**	**12**	**6.39**				
Electrical Conductivity @ 25°C	µS/cm	**16100**	**860**	**2750**	**648**	**804**	**14100**	**5440**	**53500**				
Total Dissolved Solids @180°	mg/L	**9790**	**492**	**1520**	**361**	**546**	**5250**	**2220**	**41250**				
Total Alkalinity as CaCO3	mg/L	**243**	**135**	**428**	**167**	**145**	**2720**	**2040**	**65**				
Sulfate as SO4 - Turbidimetric	mg/L	**412**	<1	**86**	<1	<1	**245**	**78**	**2360**				
Chloride	mg/L	**5100**	**181**	**608**	**97**	**166**	**781**	**563**	**20400**				
Calcium	mg/L	**379**	**6**	**27**	**2**	**3**	<1	**38**	**2590**				
Magnesium	mg/L	**306**	**7**	**16**	<1	<1	<1	<1	**1560**				
Sodium	mg/L	**2590**	**144**	**545**	**129**	**159**	**1550**	**1550**	**9270**				
Potassium	mg/L	**42**	**8**	**8**	**6**	**4**	**399**	**405**	**28**				
Aluminium	mg/L	<0.01	<0.01	<0.01	**0.02**	**0.01**	**0.71**	**0.72**	<0.05				
Arsenic	mg/L	<0.001	**0.003**	<0.001	<0.001	<0.001	**0.007**	**0.006**	<0.005				
Cadmium	mg/L	<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	**0.057**	**0.057**	<0.005				
Cobalt	mg/L	<0.001	**0.001**	<0.001	<0.001	<0.001	<0.001	<0.001	**0.036**				
Copper	mg/L	**0.007**	<0.001	**0.006**	<0.001	<0.001	**0.065**	**0.064**	<0.005				
Lead	mg/L	<0.001	<0.001	**0.004**	<0.001	<0.001	<0.001	<0.001	<0.005				
Manganese	mg/L	**0.236**	**0.228**	**0.046**	**0.016**	**0.036**	**0.006**	**0.005**	**2.36**				
Molybdenum	mg/L	<0.001	<0.001	**0.001**	<0.001	**0.004**	**0.424**	**0.392**	<0.005				
Nickel	mg/L	<0.001	**0.002**	**0.007**	<0.001	<0.001	**0.002**	**0.002**	**0.022**				
Selenium	mg/L	<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	<0.005				
Uranium	mg/L	<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	<0.05				
Zinc	mg/L	**0.014**	**0.031**	**0.155**	**0.01**	<0.005	<0.005	<0.005	**0.084**				
Boron	mg/L	**0.56**	**0.23**	**0.21**	**0.06**	<0.05	**0.1**	**0.1**	**2.47**				
Iron	mg/L	**1.72**	**1.8**	**0.14**	<0.05	<0.05	**0.07**	**0.08**	**17.1**				
Mercury	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001				
Fluoride	mg/L	**393**	**0.5**	**0.8**	**0.4**	**0.3**	**1.6**	**1**	**0.2**				
Ammonia as N	mg/L	**1.49**	**0.06**	**1.26**	**0.16**	**0.22**	**2.94**	**2.79**	**0.65**				
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01				
Nitrate as N	mg/L	<0.01	<0.01	<0.01	**0.02**	**0.01**	**0.02**	**0.01**	<0.01				
Total Phosphorus as P	mg/L	<0.05	**0.06**	**0.01**	**0.21**	**0.01**	**0.08**	**3.76**	<0.10				
Sulfide as S2-	mg/L	<0.1	<0.1	**0.8**	<0.1	<0.1	<0.1	<0.1	<0.1				
C6 - C9 Fraction	µg/L	<20	<20	<20	<20	<20	<20	**30**	<20				
C6 - C10 Fraction	µg/L	<20	<20	<20	<20	<20	<20	**30**	<20				
>C10 - C40 Fraction (sum)	µg/L	<100	<100	<100	<100	<100	**1350**	**11000**	<100				
Sum of BTEX	µg/L	<1	<1	<1	<1	<1	**6**	**1**	<1				