

Carmichael Coal Mine Project-Groundwater monitoring Data December 2021 (January 2022)
Artesian Bores

Bore ID	Formation	Sample Date	Time	Reference Level	Jan-22		
				Digital pressure	Groundwater level		
				m AHD	kPa	m (converted)	m AHD
Artesian Bores (6.9 kPa = 0.7 m head). m AHD = metres Australia Height Datum							
C034P1	Bandanna Formation	7/01/2022	17:05	228.24	12.49	1.27	229.51
C832SP*	Bandanna Formation	10/01/2022	16:00	224.85	0.67	0.67	225.52
C18001S	Clematis Sandstone	9/01/2022	12:44	247.35	32.47	3.01	250.66
C19014S	Clematis Sandstone	9/01/2022	11:16	240.132	21	2.14	242.27
HD03A	Clematis Sandstone	10/01/2022	9:00	230.16	15.43	1.57	231.73
C034P3	Colinlea Sandstone	8/01/2022	16:23	228.264	12.94	1.32	229.58
C833SP*	Colinlea Sandstone	10/01/2022	16:30	224.61	3.95	3.95	228.56
C834SP*	Colinlea Sandstone	10/01/2022	16:15	224.53	2.88	2.88	227.41
C14005S	Composite Bore (Tertiary / Joe Joe)	7/01/2022	14:40	219.607	27.28	2.78	222.39
C14029S	Composite Bore (Tertiary / Joe Joe)	8/01/2022	16:41	218.17	89.08	9.08	227.25
C14031S	Composite Bore (Tertiary / Joe Joe)	8/01/2022	12:28	222.02	122.8	12.52	234.54
C180120S	Composite Bore (Tertiary / Joe Joe)	11/01/2022	9:28	223.60	155.95	15.90	239.50
C180122S	Composite Bore (Tertiary / Joe Joe)	8/01/2022	13:22	224.14	84.85	8.65	232.79
C19011S	Dunda Beds	13/01/2022	8:33	238.868	43.94	4.48	243.35
C19015S	Dunda Beds	9/01/2022	11:15	240.365	35.99	3.67	244.03
C14006S	Joe Joe Group	8/01/2022	17:16	219.68	33.41	3.41	223.09
C14008S	Joe Joe Group	10/01/2022	14:39	220.66	40.62	4.14	224.80
C14015S	Joe Joe Group	8/01/2022	13:05	229.30	70.1	7.15	236.45
C14016S	Joe Joe Group	8/01/2022	10:09	222.72	86.47	8.82	231.54
C14017S	Joe Joe Group	8/01/2022	14:46	230.428	148.5	15.14	245.57
C14032S	Joe Joe Group	8/01/2022	12:18	222.44	134.69	13.73	236.17
C180119S	Joe Joe Group	11/01/2022	9:04	224.33	107.45	10.96	235.29
C180123S	Joe Joe Group	8/01/2022	14:22	227.85	150.01	15.30	243.15
C914030S	Joe Joe Group	8/01/2022	16:48	218.06	92.91	9.47	227.53
C914108S	Joe Joe Group	8/01/2022	12:13	222.30	134.94	13.76	236.06
C918012S	Joe Joe Group	8/01/2022	13:31	224.29	105.96	10.80	235.09
C918012S	Joe Joe Group	11/01/2022	9:21	223.80	159.76	16.29	240.09
C919016S	Rewan Formation	9/01/2022	15:28	240.23	56.38	5.75	245.98
C918012S	Tertiary	8/01/2022	14:30	227.745	126.75	12.92	240.67
* Groundwater level sub artesian.							

Subartesian Bores

Bore ID	Formation	Sample Date	Time	Reference	Jan-22	
				Level	DTW	SWL
				m AHD	m bRL	m AHD
m AHD = metres Australia Height Datum, m bRL = metres below Reference Level.						
C027P1	Alluvium	10/01/2022	9:59	227.615	5.95	221.67
C029P1	Alluvium	11/01/2022	16:08	226.048	11.86	214.19
C14027S	Alluvium	10/01/2022	10:26	218.126	14.53	203.60
C14028S	Alluvium	10/01/2022	11:36	219.629	14.08	205.55
C19001S	Alluvium	10/01/2022	15:51	227.93	12.92	215.01
C19019S	Alluvium	7/01/2022	15:24	255.91	15	240.91
C19021S	Alluvium	7/01/2022	15:03	265.55	15	250.55
C19023S	Alluvium	11/01/2022	8:40	225.91	15	210.91
C19024S	Alluvium	10/01/2022	16:45	254.527	15	239.53
C19025S	Alluvium	10/01/2022	16:50	248.413	15	233.41
HD03B	Alluvium	10/01/2022	8:07	230.16	4.1	226.06
C006P1	Bandanna Formation	11/01/2022	12:37	234.11	28.6	205.51
C007P2	Bandanna Formation	11/01/2022	14:24	238.61	54.86	183.75
C008P2	Bandanna Formation	13/01/2022	8:03	238.805	47.27	191.54
C011P1	Bandanna Formation	12/01/2022	11:30	255.22	24.5	230.72
C014P2	Bandanna Formation	13/01/2022	8:09	256.90	47.4	209.50
C016P2	Bandanna Formation	12/01/2022	12:38	295.08	46.58	248.50
C018P1	Bandanna Formation	12/01/2022	13:35	281.89	37	244.89
C018P2	Bandanna Formation	12/01/2022	13:54	282.06	39.91	242.15
C032P2	Bandanna Formation	8/01/2022	14:34	256.92	24.91	232.01
C035P2	Bandanna Formation	8/01/2022	15:47	236.67	5.02	231.65
C19018S	Bandanna Formation	9/01/2022	8:08	239.559	17.62	221.94
C19027S	Bandanna Formation	12/01/2022	8:46	263.34	42.95	220.39
C823SP	Bandanna Formation	13/01/2022	9:23	247.33	56.66	190.67
C844SP	Bandanna Formation	8/01/2022	16:44	236.46	6.59	229.87
C847SP	Bandanna Formation	8/01/2022	11:13	237.92	6.61	231.31
C9839SP	Bandanna Formation	10/01/2022	15:44	229.59	3.41	226.18
C14011S	Clematis Sandstone	9/01/2022	13:34	312.435	69.78	242.66
C14012S	Clematis Sandstone	9/01/2022	12:24	287.063	44.52	242.54
C14013S	Clematis Sandstone	9/01/2022	12:56	287.256	45	242.26
C14021S	Clematis Sandstone	10/01/2022	8:39	278.591	32.88	245.71
C14033S	Clematis Sandstone	12/01/2022	8:24	297.35	46.85	250.50
C18002S	Clematis Sandstone	9/01/2022	10:11	249.28	5.57	243.71
C19002S	Clematis Sandstone	12/01/2022	14:57	306.266	57.44	248.83
C19010S	Clematis Sandstone	12/01/2022	16:09	239.70	1.15	238.55
HD02	Clematis Sandstone	9/01/2022	15:58	237.42	2.88	234.54
C006P3R	Colinlea Sandstone	11/01/2022	13:12	234.36	46.29	188.07
C011P3	Colinlea Sandstone	12/01/2022	12:16	255.08	27.87	227.21
C018P3	Colinlea Sandstone	12/01/2022	13:32	281.98	39.82	242.16
C024P3	Colinlea Sandstone	12/01/2022	11:06	259.16	30.28	228.88
C180112S	Colinlea Sandstone	10/01/2022	16:17	227.17	54.13	173.04
C19003S	Colinlea Sandstone	8/01/2022	9:48	231.36	0.16	231.20
C19004S	Colinlea Sandstone	8/01/2022	9:06	239.355	7.71	231.65
C19026S	Colinlea Sandstone	11/01/2022	16:06	239.28	53.87	185.41
C19029S	Colinlea Sandstone	11/01/2022	16:49	225.445	34.61	190.84
C827SP	Colinlea Sandstone	10/01/2022	16:32	232.65	53.18	179.47
C840SP	Colinlea Sandstone	10/01/2022	15:45	229.85	4.44	225.41

VWP Bores

VWP ID	Wire number	Formation	Sample date	Ground surface level	Depth below ground	Jan-22	
						Equivalent metres of head	Relative water level
				m AHD	m	m bRL	m AHD
m AHD = metres Australia Height Datum.							
C056VWP	VWP3	Rewan	7/01/2022	283.86	240	195.30	239.17
	VWP2	AB Seam			312	253.00	224.89
	VWP1	CD Sandstone			408	285.10	161.00
C555VWP	VWP2	Rewan	11/01/2022	241.15	260.5	218.60	199.23
	VWP1	AB Seam			346	335.70	230.90
C558VWP	VWP3	AB Seam	12/01/2022	250.05	73	38.90	215.94
	VWP2	C Seam Interburden			120	78.60	208.67
	VWP1	D Seam			178	137.50	209.60
C842VWP	VWP3	Rewan	13/01/2022	238.89	130	104.20	213.11
	VWP2	AB Seam			177.5	158.40	219.78
	VWP1	C Seam Interburden			235	216.10	220.00
C851VWP	VWP3	Rewan	8/01/2022	244.67	103.7	87.90	228.90
	VWP2	AB Seam			145.7	125.70	224.68
	VWP1	CD Sandstone			209.7	190.10	225.10
C966VWP	VWP4	Rewan	7/01/2022	288.7	258	221.80	252.52
	VWP3	Rewan			302.5	227.10	213.31
	VWP2	AB Seam			348.5	190.50	130.74
	VWP1	AB Seam Interburden			355	183.40	117.05
C968VWP	VWP5	AB Seam	7/01/2022	279.18	244	156.50	191.63
	VWP4	AB Interburden			258	178.10	199.30
	VWP3	C Seam			302.5	252.90	177.06
	VWP2	D Seam			348.5	332.60	263.31
	VWP1	D Seam Interburden			355	358.8	282.99
C9553VWP	VWP3	Rewan	12/01/2022	294.56	265.43	207.10	236.24
	VWP2	AB Seam			348.43	309.10	255.20
	VWP1	D Seam			467.43	401.00	228.20
C9556VWP	VWP3	Rewan	10/01/2022	260.4	216	174.00	218.38
	VWP1	D Seam			410	294.60	245.00
V9836VWP	VWP3	Rewan	13/01/2022	236.8	130	112.20	219.01
	VWP1	CD Sandstone			296	275.80	216.60
C14200VWP	VWP3	Rewan	8/01/2022	247.08	101	101.60	247.68
	VWP2	Rewan			199	184.50	232.56
	VWP1	AB Seam			224	209.80	232.93
C14203VWP	VWP2	Rewan	13/01/2022	230.55	77	113.40	266.96
	VWP1	CD Sandstone			247	240.40	223.90
C14206VWP	VWP2	Rewan	10/01/2022	277.15	355	312.20	234.30
	VWP1	AB Seam			464	435.60	248.80
C14207VWP	VWP2	Rewan	12/01/2022	305.17	400	340.70	245.85
	VWP1	AB Seam			504	412.20	213.33
C19842C	VWP1	Rewan	9/01/2022	239.771	313.5	304.80	213.11
C19031S	VWP1	Linlea Sandstone	9/01/2022	238.919	601.4	576.90	214.42