



Tritton and Girilambone Operations

Monthly Environmental Monitoring Report

[August] [2022]

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YARRANDALE ROAD, HERMIDALE, NSW, 2831

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BOORAMUGGA ROAD, GIRILAMBONE, NSW, 2831

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[AUGUST] [2022] – GROUNDWATER MONITORING REPORT
TRITTON OPERATIONS LICENCE NO.11254

Licensee: TRITTON RESOURCES LIMITED EPL No. 11254					
Sample Point	Monitoring Frequency	Date	Parameter	Measurement	Unit
EPA ID No. 12 - PZH001	Quarterly	Sampled: 19/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic	0.001	mg/L ¹
			Barium	0.01	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0003	mg/L
			Chloride	4140	mg/L
			Chromium	0.002	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	14800	µS/cm ²
			Copper	0.03	mg/L
			Iron	0.23	mg/L
			Lead	0.001	mg/L
			Manganese	0.013	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.004	mg/L
			pH	8.02	pH Unit
			Sulfate	1930	mg/L
			Vanadium	0.01	mg/L
Zinc	0.055	mg/L			
SWL	8.33	m ³			
EPA ID No. 13 - PZH002	Quarterly	Sampled: 19/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic	0.001	mg/L
			Barium	0.015	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0001	mg/L
			Chloride	3500	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	13100	µS/cm
			Copper	0.009	mg/L
			Iron	0.05	mg/L
			Lead	0.001	mg/L
			Manganese	0.097	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.002	mg/L
pH	7.98	pH Unit			

¹ Milligrams per litre

² Microsiemens per centimetre

³ Metres

			Sulfate	1680	mg/L
			Vanadium	0.01	mg/L
			Zinc	0.013	mg/L
			SWL	28.49	m
EPA ID No. 14 - PZH003	Quarterly	Sampled: 19/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic	0.001	mg/L
			Barium	0.019	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0001	mg/L
			Chloride	5670	mg/L
			Chromium	0.002	mg/L
			Cobalt	0.006	mg/L
			Conductivity (EC)	18700	µS/cm
			Copper	0.015	mg/L
			Iron	1.22	mg/L
			Lead	0.002	mg/L
			Manganese	0.233	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.006	mg/L
			pH	7.92	pH Unit
			Sulfate	2010	mg/L
			Vanadium	0.01	mg/L
			Zinc	0.035	mg/L
			SWL	59.15	m
EPA ID No. 15 - PZH004	Quarterly	Sampled: 19/8/22 Obtained: DRY Published: 23/09/2022	Arsenic		mg/L
			Barium		mg/L
			Beryllium		mg/L
			Cadmium		mg/L
			Chloride		mg/L
			Chromium		mg/L
			Cobalt		mg/L
			Conductivity (EC)		µS/cm
			Copper		mg/L
			Iron		mg/L
			Lead		mg/L
			Manganese		mg/L
			Mercury		mg/L
			Nickel		mg/L
			pH		pH Unit
			Sulfate		mg/L
			Vanadium		mg/L
			Zinc		mg/L
			SWL		m
EPA ID No. 16 - PZH005	Quarterly	Sampled: 19/8/22 Obtained: 12/9/22	Arsenic	0.001	mg/L
			Barium	0.016	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0004	mg/L

		Published: 23/09/2022	Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	4500 0.002 0.008 15900 0.044 0.85 0.003 0.162 0.0001 0.008 8.01 1850 0.01 0.083 13.19	mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 17 - PZH006	Quarterly	Sampled: 19/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.001 0.014 0.001 0.0011 4070 0.002 0.01 14800 0.094 0.33 0.002 0.116 0.0001 0.007 8.12 1880 0.01 0.159 37.52	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 18 - PZH007	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese		mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L

			Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 19 - PZH008	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 20 - PZH009	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID	Quarterly	Sampled:	Arsenic		mg/L

No. 22 - PZH013		D/M/Y Obtained: D/M/Y Published: 23/09/2022	Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 23 - PZH014	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 24 - PZH015	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L

			Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 25 - PZH017	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 26 - PZH018	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L

			Zinc SWL		mg/L m
EPA ID No. 27 - PZH019	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 28 - PZH020	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 29 - PZH021	Quarterly	Sampled: D/M/Y Obtained: D/M/Y	Arsenic Barium Beryllium Cadmium Chloride Chromium		mg/L mg/L mg/L mg/L mg/L mg/L

		Published: 23/09/2022	Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 30 - PZH022	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 31 - PZH023	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L

			<p>pH</p> <p>Sulfate</p> <p>Vanadium</p> <p>Zinc</p> <p>SWL</p>		<p>pH Unit</p> <p>mg/L</p> <p>mg/L</p> <p>mg/L</p> <p>m</p>
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[AUGUST] [2022] – GROUNDWATER MONITORING REPORT
GIRILAMBONE OPERATIONS LICENCE NO.4501

Licensee: TRITTON RESOURCES LIMITED EPL No. 4501					
Sample Point	Monitoring Frequency	Date	Parameter	Measurement	Unit
EPA ID No. 2 - GIP224	Monthly	Sampled:	Arsenic		mg/L
			Barium		mg/L
			Beryllium		mg/L
		Obtained:	Cadmium		mg/L
			Chloride		mg/L
		Published:	Chromium		mg/L
		23/09/2022	Cobalt		mg/L
			Conductivity (EC)		µS/cm
			Copper		mg/L
			Iron		mg/L
			Lead		mg/L
			Manganese		mg/L
			Mercury		mg/L
			Nickel		mg/L
			pH		pH Unit
			Sulfate		mg/L
			Vanadium		mg/L
	Zinc		mg/L		
	SWL		m		
EPA ID No. 3 - GIP225	Monthly	Sampled:	Arsenic		mg/L
			Barium		mg/L
			Beryllium		mg/L
		Obtained:	Cadmium		mg/L
			Chloride		mg/L
		Published:	Chromium		mg/L
		23/09/2022	Cobalt		mg/L
			Conductivity (EC)		µS/cm
			Copper		mg/L
			Iron		mg/L
			Lead		mg/L
			Manganese		mg/L
			Mercury		mg/L
			Nickel		mg/L
			pH		pH Unit
			Sulfate		mg/L
			Vanadium		mg/L
	Zinc		mg/L		
	SWL		m		

			Vanadium Zinc SWL	17.66	mg/L mg/L m
EPA ID No. 9 - GIP278	Quarterly	Sampled: 31/8/22 Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	25.75	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 10 - GIP279A	Quarterly	Sampled: 31/8/22 Obtained: D/M/Y Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	24.86	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 11 - GIP280A	Quarterly	Sampled: 31/8/22 Obtained: D/M/Y	Arsenic Barium Beryllium Cadmium Chloride		mg/L mg/L mg/L mg/L mg/L

		Published: 23/09/2022	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	22.91	mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 12 - GIP290	Monthly	Sampled: 8/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.001 0.014 0.001 0.0264 3850 0.001 0.16 16800 0.166 0.16 0.002 7.92 0.0001 0.02 7.61 3610 0.01 0.426 15.66	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 13 - GIP291	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury		mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L

			Nickel pH Sulfate Vanadium Zinc SWL		mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 14 - GIP292A	Monthly	Sampled: 8/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.062 0.01 0.11 3.81 1910 0.164 61.6 33400 267 107 0.01 527 0.0001 21.5 3.59 38600 0.18 292 7.24	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 16 - GIP292AS	Monthly	Sampled: 8/8/22 Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 17 -	Monthly	Sampled: 8/8/22	Arsenic Barium	0.059 0.01	mg/L mg/L

GIP293		Obtained: 12/9/22 Published: 23/09/2022	Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.038 3.27 4290 0.012 49.1 41600 106 0.24 0.018 595 0.0007 17.5 3.9 38000 0.1 202 14.09	mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 18 - GIP294	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 19 - GIP295	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L

			Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 20 - GIP296	Monthly	Sampled: 8/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.001 0.009 0.001 0.001 793 0.001 0.015 12600 0.057 0.05 0.001 0.136 0.0001 0.009 7.94 5590 0.01 0.093 6.21	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μ S/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 21 - GIP297	Monthly	Sampled: 8/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc	0.005 0.002 0.001 0.0004 124 0.001 0.003 1160 0.047 0.23 0.001 0.068 0.0001 0.002 7.92 185 0.01 0.076	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μ S/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L

			SWL	27.11	m
EPA ID No. 22 - GIP298	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 23 - GIP299	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 24 - GIP300	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt		mg/L mg/L mg/L mg/L mg/L mg/L mg/L

			Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		µS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 25 - GIP301	Monthly	Sampled: Obtained: Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 26 - GIP302	Monthly	Sampled: 16/8/22 Obtained: 12/9/22 Published: 23/09/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH	0.01 0.01 0.01 0.0072 8970 0.026 0.067 31000 0.334 0.24 0.01 1.44 0.0001 0.15 7.67	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L pH Unit

			Sulfate	5160	mg/L
			Vanadium	0.1	mg/L
			Zinc	0.335	mg/L
			SWL	16.26	m