



Tritton and Girilambone Operations

Monthly Environmental Monitoring Report

[July] [2025]

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YARRANDALE ROAD, HERMIDALE, NSW, 2831

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BOORAMUGGA ROAD, GIRILAMBONE, NSW, 2831

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[JULY] [2025] – 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: 25/07/2025	Arsenic	0.01	mg/L ¹
			Barium	0.016	mg/L
			Beryllium	<0.001	mg/L
		Obtained: 01/08/2025	Cadmium	0.0016	mg/L
			Chloride	3780	mg/L
			Chromium	0.002	mg/L
		Published: 27/08/2025	Cobalt	0.016	mg/L
			Conductivity (EC)	14200	µS/cm ²
			Copper	0.152	mg/L
			Iron	2.11	mg/L
			Lead	0.005	mg/L
			Manganese	0.229	mg/L
			Mercury	0.0008	mg/L
			Nickel	0.012	mg/L
			pH	7.19	pH Unit
			Sulfate	2130	mg/L
			Vanadium	<0.01	mg/L
			Zinc	0.249	mg/L
			SWL	11.08	m
EPA ID No. 13 - PZH002	Quarterly	Sampled: 25/07/2025	Arsenic	0.003	mg/L
			Barium	0.012	mg/L
			Beryllium	<0.001	mg/L
		Obtained: 01/08/2025	Cadmium	0.002	mg/L
			Chloride	2860	mg/L
			Chromium	0.002	mg/L
		Published: 27/08/2025	Cobalt	0.021	mg/L
			Conductivity (EC)	13900	µS/cm
			Copper	0.104	mg/L
			Iron	4.16	mg/L
			Lead	0.002	mg/L
			Manganese	0.3	mg/L
			Mercury	0.0003	mg/L
			Nickel	0.014	mg/L
			pH	7.13	pH Unit
			Sulfate	3770	mg/L

¹ Milligrams per litre

² Microsiemens per centimetre

			Vanadium	<0.01	mg/L
			Zinc	0.278	mg/L
			SWL	25.68	m
EPA ID No. 14 - PZH003	Quarterly	Sampled: 25/07/2025	Arsenic	0.01	mg/L
			Barium	0.025	mg/L
			Beryllium	<0.001	mg/L
		Obtained: 01/08/2025	Cadmium	0.0021	mg/L
			Chloride	5430	mg/L
			Chromium	<0.001	mg/L
		Published: 27/08/2025	Cobalt	0.028	mg/L
			Conductivity (EC)	19400	µS/cm
			Copper	0.122	mg/L
			Iron	3.52	mg/L
			Lead	0.003	mg/L
			Manganese	1.2	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.032	mg/L
			pH	7.09	pH Unit
			Sulfate	3390	mg/L
			Vanadium	<0.01	mg/L
			Zinc	0.344	mg/L
			SWL	53.17	m
EPA ID No. 15 - PZH004	Quarterly	Sampled: 25/07/2025	Arsenic		mg/L
			Barium		mg/L
			Beryllium		mg/L
		Obtained:	Cadmium		mg/L
			Chloride		mg/L
			Chromium		mg/L
		Published: 27/08/2025	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	72.98	m
EPA ID No. 16 - PZH005	Quarterly	Sampled: 25/07/2025	Arsenic	0.04	mg/L
			Barium	0.027	mg/L
			Beryllium	<0.001	mg/L
		Obtained: 01/08/2025	Cadmium	0.0023	mg/L
			Chloride	4670	mg/L

		Published: 27/08/2025	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.003 0.068 14700 0.214 4.74 0.027 0.988 0.0006 0.037 7.08 872 <0.01 0.315 9.41	mg/L mg/L $\mu\text{S/cm}$ mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 17 - PZH006	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	 32.96	mg/L mg/L mg/L mg/L mg/L mg/L $\mu\text{S/cm}$ mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 18 - PZH007	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	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 $\mu\text{S/cm}$ mg/L mg/L mg/L mg/L mg/L

			Nickel pH Sulfate Vanadium Zinc SWL	35.99	mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 19 - PZH008	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	14.49	mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 20 - PZH009	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	10.73	mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m

EPA ID No. 22 - PZH013	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	32.83	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. 23 - PZH014	Quarterly	Sampled: Obtained: Published:	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 - PZH015	Quarterly	Sampled: Obtained: Published:	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC)		mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm

			Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		mg/L 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: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	35.34	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: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate		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

			Vanadium Zinc SWL	11.99	mg/L mg/L m
EPA ID No. 27 - PZH019	Quarterly	Sampled: Obtained: Published:	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: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	57.47	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: Obtained:	Arsenic Barium Beryllium Cadmium Chloride		mg/L mg/L mg/L mg/L mg/L

		Published:	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		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. 30 - PZH022	Quarterly	Sampled: 12/07/2025 Obtained: DRY Published: 27/08/2025	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 mg/L m
EPA ID No. 31 - PZH023	Quarterly	Sampled: 12/07/2025 Obtained: DRY Published: 27/08/2025	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

			Nickel pH Sulfate Vanadium Zinc SWL		mg/L pH Unit mg/L mg/L mg/L m
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[JULY] [2025] – 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: 14/07/2025	Arsenic	<0.010	mg/L
			Barium	0.03	mg/L
			Beryllium	<0.010	mg/L
		Obtained: 23/07/2025	Cadmium	<0.0010	mg/L
			Chloride	8410	mg/L
			Chromium	0.042	mg/L
		Published: 27/08/2025	Cobalt	<0.010	mg/L
			Conductivity (EC)	29000	µS/cm
			Copper	0.108	mg/L
			Iron	1.61	mg/L
			Lead	<0.010	mg/L
			Manganese	0.064	mg/L
			Mercury	0.0018	mg/L
			Nickel	0.014	mg/L
			pH	7.4	pH Unit
			Sulfate	5090	mg/L
			Vanadium	<0.10	mg/L
			Zinc	<0.052	mg/L
			SWL	6.05	m
EPA ID No. 3 - GIP225	Monthly	Sampled: 12/07/2025	Arsenic		mg/L
			Barium		mg/L
			Beryllium		mg/L
		Obtained: 23/07/2025	Cadmium		mg/L
			Chloride		mg/L
			Chromium		mg/L
		Published: 27/08/2025	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	12.25	m

EPA ID No. 4 - GIP234	Quarterly	Sampled: 11/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	24.37	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 5 - GIP273	Quarterly	Sampled: 12/07/2025 Obtained:- Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	17.29	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 6 - GIP276	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC)		mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm

			Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	22.56	mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 8 - GIP277	Quarterly	Sampled: 11/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	17.75	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 9 - GIP278	Quarterly	Sampled: 14/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate		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

			Vanadium Zinc SWL	24.31	mg/L mg/L m
EPA ID No. 10 - GIP279A	Quarterly	Sampled: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	25.20	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: 12/07/2025 Obtained: Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	22.59	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. 14 - GIP292A	Monthly	Sampled: 13/07/2025 Obtained: 23/07/2025	Arsenic Barium Beryllium Cadmium Chloride	0.078 0.013 0.318 5.76 1600	mg/L mg/L mg/L mg/L mg/L

		Published: 27/08/2025	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.42 90.8 30500 419 746 0.051 500 0.0009 27.7 3.37 60100 0.68 536 10.99	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. 16 - GIP292AS	Monthly	Sampled: 13/07/2025 Obtained: DRY Published: 27/08/2025	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. 18 - GIP294	Monthly	Sampled: 13/07/2025 Obtained: 23/07/2025 Published: 27/08/2025	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury	<0.010 0.016 0.019 4.86 1770 <0.010 53.1 47100 354 1.52 0.015 359 0.0011	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

			Nickel	18.9	mg/L
			pH	4.41	pH Unit
			Sulfate	48700	mg/L
			Vanadium	<0.10	mg/L
			Zinc	330	mg/L
			SWL	14.45	m
EPA ID No. 19 - GIP295	Monthly	Sampled: 12/07/2025	Arsenic		mg/L
			Barium		mg/L
		Obtained:	Beryllium		mg/L
			Cadmium		mg/L
		Published: 27/08/2025	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	18.35	m
EPA ID No. 20 - GIP296	Monthly	Sampled: 13/07/2025	Arsenic	0.003	mg/L
			Barium	0.037	mg/L
		Obtained: 23/07/2025	Beryllium	<0.001	mg/L
			Cadmium	0.0028	mg/L
		Published: 27/08/2025	Chloride	3100	mg/L
			Chromium	0.016	mg/L
			Cobalt	0.033	mg/L
			Conductivity (EC)	17100	µS/cm
			Copper	0.227	mg/L
			Iron	10.6	mg/L
			Lead	0.008	mg/L
			Manganese	0.283	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.038	mg/L
			pH	7.2	pH Unit
			Sulfate	6400	mg/L
			Vanadium	<0.01	mg/L
			Zinc	0.375	mg/L
			SWL	9.08	m

EPA ID No. 27 - GIP313	Monthly	Sampled: 13/7/2025	Arsenic	0.038	mg/L
			Barium	0.042	mg/L
		Obtained: 23/07/2025	Beryllium	0.107	mg/L
			Cadmium	5.14	mg/L
			Chloride	3480	mg/L
		Published: 27/08/2025	Chromium	0.016	mg/L
			Cobalt	79.8	mg/L
			Conductivity (EC)	40400	µS/cm
			Copper	268	mg/L
			Iron	0.92	mg/L
			Lead	0.018	mg/L
			Manganese	845	mg/L
			Mercury	0.006	mg/L
			Nickel	26.4	mg/L
			pH	3.59	pH Unit
			Sulfate	57600	mg/L
			Vanadium	<0.10	mg/L
			Zinc	410	mg/L
			SWL	11.10	m
EPA ID No. 28 – AT001	Monthly	Sampled: 13/07/2025	Arsenic	<0.001	mg/L
			Barium	0.037	mg/L
		Obtained: 23/07/2025	Beryllium	<0.001	mg/L
			Cadmium	0.0006	mg/L
			Chloride	6180	mg/L
		Published: 27/08/2025	Chromium	0.003	mg/L
			Cobalt	0.005	mg/L
			Conductivity (EC)	17500	µS/cm
			Copper	0.057	mg/L
			Iron	1.74	mg/L
			Lead	0.002	mg/L
			Manganese	0.071	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.01	mg/L
			pH	7.49	pH Unit
			Sulfate	1570	mg/L
			Vanadium	<0.01	mg/L
			Zinc	0.222	mg/L
			SWL	47.26	m
EPA ID No. 29 – AT002	Monthly	Sampled: 13/7/2025	Arsenic	0.002	mg/L
			Barium	0.055	mg/L
		Obtained: 23/07/2025	Beryllium	<0.001	mg/L
			Cadmium	0.0007	mg/L
			Chloride	7930	mg/L
		Published: 27/08/2025	Chromium	0.006	mg/L
			Cobalt	0.004	mg/L
			Conductivity (EC)	21900	µS/cm

		27/08/2025	Copper	0.065	mg/L
			Iron	3.76	mg/L
			Lead	0.002	mg/L
			Manganese	0.069	mg/L
			Mercury	0.0004	mg/L
			Nickel	0.014	mg/L
			pH	7.36	pH Unit
			Sulfate	1990	mg/L
			Vanadium	<0.01	mg/L
			Zinc	0.254	mg/L
			SWL	42.01	m
EPA ID No. 30 – AT003	Monthly	Sampled: 13/07/2025	Arsenic	0.021	mg/L
			Barium	0.006	mg/L
			Beryllium	<0.001	mg/L
		Obtained: 23/07/2025	Cadmium	0.0002	mg/L
			Chloride	6570	mg/L
			Chromium	0.004	mg/L
		Published: 27/08/2025	Cobalt	0.006	mg/L
			Conductivity (EC)	19800	µS/cm
			Copper	0.055	mg/L
			Iron	0.6	mg/L
			Lead	<0.001	mg/L
			Manganese	0.038	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.015	mg/L
			pH	7.67	pH Unit
			Sulfate	1640	mg/L
			Vanadium	0.04	mg/L
			Zinc	0.137	mg/L
			SWL	39.44	m