



Tritton and Girilambone Operations

Monthly Environmental Monitoring
Report

March 2015



MARCH 2015 – GROUNDWATER MONITORING REPORT
TRITTON OPERATIONS LICENCE NO.11254

Licensee: TRITTON RESOURCES LIMITED					
EPL No. 11254					
Sample Point	Monitoring Frequency	Sampled	Parameter	Measurement	Unit
EPA ID No. 12 - PZH001	Quarterly	06/03/2015	Arsenic	<0.001	mg/L
			Barium	0.020	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0003	mg/L
			Chloride	4270	mg/L
			Chromium	<0.001	mg/L
			Cobalt	<0.001	mg/L
			Conductivity (EC)	14800	µS/cm
			Copper	0.007	mg/L
			Iron	<0.05	mg/L
			Lead	<0.001	mg/L
			Manganese	0.097	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.008	mg/L
			pH	7.64	pH Unit
			Sulfate	1930	mg/L
			Vandium	<0.01	mg/L
Zinc	0.044	mg/L			
SWL	20.16	m			
EPA ID No. 13 - PZH002	Quarterly	05/03/2015	Arsenic	0.001	mg/L
			Barium	0.016	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	<0.0001	mg/L
			Chloride	3470	mg/L
			Chromium	<0.001	mg/L
			Cobalt	<0.001	mg/L
			Conductivity (EC)	12500	µS/cm
			Copper	0.004	mg/L
			Iron	1.10	mg/L
			Lead	<0.001	mg/L
			Manganese	0.168	mg/L
			Mercury	<0.0001	mg/L
			Nickel	<0.001	mg/L
			pH	7.64	pH Unit
			Sulfate	1610	mg/L
			Vandium	<0.01	mg/L
Zinc	0.011	mg/L			

			SWL	37.45	m
EPA ID No. 14 - PZH003	Quarterly	04/03/2015	Arsenic	0.002	mg/L
			Barium	0.030	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0003	mg/L
			Chloride	5630	mg/L
			Chromium	<0.001	mg/L
			Cobalt	0.023	mg/L
			Conductivity (EC)	19700	µS/cm
			Copper	0.008	mg/L
			Iron	0.49	mg/L
			Lead	<0.001	mg/L
			Manganese	1.12	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.037	mg/L
			pH	7.46	pH Unit
			Sulfate	4260	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.043	mg/L
			SWL	72	m
EPA ID No. 16 - PZH005	Quarterly	05/03/2015	Arsenic	0.001	mg/L
			Barium	0.020	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0009	mg/L
			Chloride	5410	mg/L
			Chromium	0.002	mg/L
			Cobalt	0.022	mg/L
			Conductivity (EC)	17000	µS/cm
			Copper	0.021	mg/L
			Iron	0.21	mg/L
			Lead	0.002	mg/L
			Manganese	0.348	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.059	mg/L
			pH	7.44	pH Unit
			Sulfate	1510	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.139	mg/L
			SWL	17.91	m
EPA ID No. 17 - PZH006	Quarterly	05/03/2015	Arsenic	<0.001	mg/L
			Barium	0.040	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0002	mg/L
			Chloride	4070	mg/L
			Chromium	<0.001	mg/L

			Cobalt	0.006	mg/L
			Conductivity (EC)	13300	µS/cm
			Copper	0.006	mg/L
			Iron	0.14	mg/L
			Lead	0.003	mg/L
			Manganese	0.123	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.008	mg/L
			pH	7.30	pH Unit
			Sulfate	1450	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.033	mg/L
			SWL	39.81	m
EPA ID No. 18 - PZH007	Quarterly	06/03/2015	Arsenic	0.002	mg/L
			Barium	0.136	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0007	mg/L
			Chloride	3300	mg/L
			Chromium	0.012	mg/L
			Cobalt	0.030	mg/L
			Conductivity (EC)	12200	µS/cm
			Copper	0.105	mg/L
			Iron	0.42	mg/L
			Lead	0.027	mg/L
			Manganese	0.749	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.050	mg/L
			pH	7.75	pH Unit
			Sulfate	1630	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.091	mg/L
			SWL	41.33	m

MARCH 2015 – GROUNDWATER MONITORING REPORT
GIRILAMBONE OPERATIONS LICENCE NO.4501

Licensee: TRITTON RESOURCES LIMITED					
EPL No. 4501					
Sample Point	Monitoring Frequency	Sampled	Parameter	Measurement	Unit
EPA ID No. 2 - GIP224	Monthly	17/03/2015	Arsenic	<0.010	mg/L
			Barium	0.030	mg/L
			Beryllium	<0.010	mg/L

			Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.0010 8020 <0.010 <0.010 30700 0.038 <0.50 <0.010 0.060 <0.0001 0.010 8.05 4230 <0.10 0.074 4.7	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. 3 - GIP225	Monthly	11/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.010 0.013 <0.010 0.0012 5610 <0.010 0.010 33200 0.063 <0.50 <0.010 0.386 <0.0001 0.012 6.48 11800 <0.10 0.145 10.79	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. 7 - GIP274	Monthly	10/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron	<0.010 0.016 <0.010 <0.0010 8970 <0.010 <0.010 32600 <0.010 <0.50	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm mg/L mg/L

			Lead	<0.010	mg/L
			Manganese	0.071	mg/L
			Mercury	<0.0001	mg/L
			Nickel	<0.010	mg/L
			pH	7.59	pH Unit
			Sulfate	2950	mg/L
			Vandium	<0.10	mg/L
			Zinc	<0.050	mg/L
			SWL	17.58	m
EPA ID No. 12 - GIP290	Monthly	13/03/2015	Arsenic	<0.001	mg/L
			Barium	0.014	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0182	mg/L
			Chloride	3280	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.066	mg/L
			Conductivity (EC)	16000	µS/cm
			Copper	0.061	mg/L
			Iron	0.08	mg/L
			Lead	0.005	mg/L
			Manganese	7.19	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.010	mg/L
			pH	6.24	pH Unit
			Sulfate	3430	mg/L
			Vandium	<0.01	mg/L
			Zinc	0.279	mg/L
			SWL	15.31	m
EPA ID No. 13 - GIP291	Monthly	13/03/2015	Arsenic	0.002	mg/L
			Barium	0.022	mg/L
			Beryllium	<0.001	mg/L
			Cadmium	0.0020	mg/L
			Chloride	7320	mg/L
			Chromium	0.022	mg/L
			Cobalt	0.021	mg/L
			Conductivity (EC)	27000	µS/cm
			Copper	0.114	mg/L
			Iron	0.48	mg/L
			Lead	0.005	mg/L
			Manganese	0.280	mg/L
			Mercury	<0.0001	mg/L
			Nickel	0.011	mg/L
			pH	7.35	pH Unit
			Sulfate	2760	mg/L
			Vandium	<0.01	mg/L

			Zinc SWL	0.181 9.65	mg/L m
EPA ID No. 14 - GIP292A	Monthly	12/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.031 <0.010 0.060 3.07 2400 0.044 44.7 32800 194 121 <0.010 519 0.0005 11.4 3.75 29300 0.11 185 5.11	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	12/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.172 <0.010 0.325 5.82 1280 0.117 79.0 30400 743 1220 <0.010 590 0.0017 14.8 3.22 35300 0.84 342 5.7	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. 17 - GIP293	Monthly	17/03/2015	Arsenic Barium Beryllium Cadmium Chloride	0.022 <0.010 <0.010 2.10 3960	mg/L mg/L mg/L mg/L mg/L

			Chromium	<0.010	mg/L
			Cobalt	22.5	mg/L
			Conductivity (EC)	41100	µS/cm
			Copper	24.4	mg/L
			Iron	<0.50	mg/L
			Lead	0.012	mg/L
			Manganese	421	mg/L
			Mercury	0.0006	mg/L
			Nickel	5.73	mg/L
			pH	4.61	pH Unit
			Sulfate	34000	mg/L
			Vandium	<0.10	mg/L
			Zinc	81.4	mg/L
			SWL	12.24	m
EPA ID No. 18 - GIP294	Monthly	16/03/2015	Arsenic	<0.010	mg/L
			Barium	<0.010	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	3.08	mg/L
			Chloride	1740	mg/L
			Chromium	<0.010	mg/L
			Cobalt	35.6	mg/L
			Conductivity (EC)	49300	µS/cm
			Copper	135	mg/L
			Iron	<0.50	mg/L
			Lead	<0.010	mg/L
			Manganese	269	mg/L
			Mercury	0.0007	mg/L
			Nickel	8.98	mg/L
			pH	5.31	pH Unit
			Sulfate	41200	mg/L
			Vandium	<0.10	mg/L
			Zinc	209	mg/L
			SWL	12.46	m
EPA ID No. 19 - GIP295	Monthly	11/03/2015	Arsenic	<0.010	mg/L
			Barium	0.055	mg/L
			Beryllium	<0.010	mg/L
			Cadmium	<0.0010	mg/L
			Chloride	8430	mg/L
			Chromium	<0.010	mg/L
			Cobalt	<0.010	mg/L
			Conductivity (EC)	30100	µS/cm
			Copper	<0.010	mg/L
			Iron	<0.50	mg/L
			Lead	<0.010	mg/L
			Manganese	0.652	mg/L

			Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.0001 <0.010 7.15 2790 <0.10 <0.050 18.45	mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 20 - GIP296	Monthly	16/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.001 0.013 <0.001 0.0006 2910 0.001 0.009 19200 0.055 0.09 <0.001 0.055 <0.0001 0.006 7.09 5930 <0.01 0.063 7.45	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. 21 - GIP297	Monthly	10/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	0.006 <0.001 <0.001 <0.0001 86 <0.001 <0.001 1060 0.009 <0.05 <0.001 0.008 <0.0001 <0.001 7.83 176 <0.01 0.016 25.38	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. 22 - GIP298	Monthly	11/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.010 <0.010 <0.010 <0.0010 8790 <0.010 <0.010 31300 0.060 0.56 <0.010 0.092 <0.0001 <0.010 7.01 2930 <0.10 <0.050 21.11	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. 23 - GIP299	Monthly	10/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vandium Zinc SWL	<0.010 0.011 <0.010 0.0027 5950 <0.010 <0.010 27100 0.016 <0.50 <0.010 0.051 <0.0001 <0.010 7.00 6100 <0.10 <0.050 27.02	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. 24 - GIP300	Monthly	16/03/2015	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt	<0.010 0.021 <0.010 0.0016 5350 <0.010 <0.010	mg/L mg/L mg/L mg/L mg/L mg/L mg/L

			pH	7.57	pH Unit
			Sulfate	9260	mg/L
			Vandium	<0.10	mg/L
			Zinc	0.058	mg/L
			SWL	14.73	m