



Tritton and Girilambone Operations

Monthly Environmental Monitoring Report

[November] [2021]

Environmental Protection License 11254

TRITTON COPPER MINE

YARRANDALE ROAD, HERMIDALE, NSW, 2831

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TRITTON COPPER MINE

BOORAMUGGA ROAD, GIRILAMBONE, NSW, 2831

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[NOVEMBER] [2021] – 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: 24/11/21	Arsenic	0.001	mg/L ¹
			Barium	0.009	mg/L
			Beryllium	0.001	mg/L
		Obtained: 9/12/21	Cadmium	0.0001	mg/L
			Chloride	3880	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	15600	µS/cm ²
		Published: 23/12/2021	Copper	0.014	mg/L
			Iron	0.05	mg/L
			Lead	0.001	mg/L
			Manganese	0.006	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.003	mg/L
			pH	7.77	pH Unit
		Sulfate	2260	mg/L	
		Vanadium	0.01	mg/L	
Zinc	0.024	mg/L			
SWL	9.18	m ³			
EPA ID No. 13 - PZH002	Quarterly	Sampled: 24/11/21	Arsenic	0.001	mg/L
			Barium	0.014	mg/L
			Beryllium	0.001	mg/L
		Obtained: 9/12/21	Cadmium	0.0001	mg/L
			Chloride	3290	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	13300	µS/cm
		Published: 23/12/2021	Copper	0.002	mg/L
			Iron	0.05	mg/L
			Lead	0.001	mg/L
			Manganese	0.195	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.001	mg/L
			pH	7.78	pH Unit

¹ Milligrams per litre

² Microsiemens per centimetre

³ Metres

			Sulfate	1920	mg/L
			Vanadium	0.01	mg/L
			Zinc	0.005	mg/L
			SWL	34.42	m
EPA ID No. 14 - PZH003	Quarterly	Sampled: 24/11/21	Arsenic	0.001	mg/L
			Barium	0.016	mg/L
		Obtained: 9/12/21	Beryllium	0.001	mg/L
			Cadmium	0.0001	mg/L
			Chloride	5350	mg/L
			Chromium	0.001	mg/L
		Published: 23/12/2021	Cobalt	0.003	mg/L
			Conductivity (EC)	18900	µS/cm
			Copper	0.003	mg/L
			Iron	0.84	mg/L
			Lead	0.001	mg/L
			Manganese	0.189	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.002	mg/L
			pH	7.75	pH Unit
			Sulfate	2340	mg/L
Vanadium	0.01	mg/L			
Zinc	0.043	mg/L			
SWL	62.86	m			
EPA ID No. 15 - PZH004	Quarterly	Sampled: 24/11/21	Arsenic		mg/L
			Barium		mg/L
		Obtained: DRY	Beryllium		mg/L
			Cadmium		mg/L
			Chloride		mg/L
			Chromium		mg/L
		Published: 23/12/2021	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: 24/11/21	Arsenic	0.001	mg/L
			Barium	0.011	mg/L
			Beryllium	0.001	mg/L
		Obtained:	Cadmium	0.0001	mg/L

		9/12/21 Published: 23/12/2021	Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	4700 0.002 0.003 16100 0.02 0.08 0.001 0.158 0.0001 0.033 7.7 1160 0.01 0.041 14.13	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. 17 - PZH006	Quarterly	Sampled: 24/11/21 Obtained: 9/12/21 Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.001 0.021 0.001 0.0001 2680 0.001 0.007 11200 0.008 0.05 0.001 0.207 0.0001 0.004 7.49 2150 0.01 0.028 38.15	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: 23/12/2021	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: 23/12/2021	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 pH Unit mg/L mg/L mg/L mg/L m
EPA ID No. 20 - PZH009	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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 pH Unit mg/L mg/L mg/L mg/L m

EPA ID No. 22 - PZH013	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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. 23 - PZH014	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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. 24 - PZH015	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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

			Vanadium Zinc SWL		mg/L mg/L m
EPA ID No. 27 - PZH019	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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: 23/12/2021	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		mg/L mg/L mg/L mg/L mg/L

		Published: 23/12/2021	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: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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. 31 - PZH023	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 23/12/2021	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
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[NOVEMBER] [2021] – 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: 18/11/21	Arsenic	0.01	mg/L
			Barium	0.03	mg/L
			Beryllium	0.01	mg/L
		Obtained: 9/12/21	Cadmium	0.001	mg/L
			Chloride	8070	mg/L
			Chromium	0.019	mg/L
		Published: 23/12/2021	Cobalt	0.012	mg/L
			Conductivity (EC)	29400	µS/cm
			Copper	0.02	mg/L
			Iron	0.1	mg/L
			Lead	0.01	mg/L
			Manganese	0.228	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.223	mg/L
			pH	7.61	pH Unit
			Sulfate	3980	mg/L
			Vanadium	0.1	mg/L
Zinc	0.066	mg/L			
SWL	8.71	m			
EPA ID No. 3 - GIP225	Monthly	Sampled: 18/11/21	Arsenic	0.01	mg/L
			Barium	0.01	mg/L
			Beryllium	0.01	mg/L
		Obtained: 9/12/21	Cadmium	0.0025	mg/L
			Chloride	6750	mg/L
			Chromium	0.01	mg/L
		Published: 23/12/2021	Cobalt	0.037	mg/L
			Conductivity (EC)	32600	µS/cm
			Copper	0.116	mg/L
			Iron	0.1	mg/L
			Lead	0.01	mg/L
			Manganese	0.739	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.026	mg/L
			pH	7.36	pH Unit
			Sulfate	11300	mg/L
			Vanadium	0.1	mg/L
Zinc	0.19	mg/L			
SWL	13.56	m			

			Vanadium Zinc SWL	17.51	mg/L mg/L m
EPA ID No. 9 - GIP278	Quarterly	Sampled: 25/11/21 Obtained: D/M/Y Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	25.66	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 10 - GIP279A	Quarterly	Sampled: 25/11/21 Obtained: D/M/Y Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	24.98	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. 11 - GIP280A	Quarterly	Sampled: 25/11/21 Obtained: D/M/Y	Arsenic Barium Beryllium Cadmium Chloride		mg/L mg/L mg/L mg/L mg/L

		Published: 23/12/2021	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	22.67	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. 12 - GIP290	Monthly	Sampled: 11/11/21 Obtained: 9/12/21 Published: 23/12/2021	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 0.0252 3680 0.001 0.162 17200 0.176 0.12 0.002 8.49 0.0001 0.017 7.11 3870 0.01 0.376 15.46	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. 13 - GIP291	Monthly	Sampled: 11/11/21 Obtained: 9/12/21 Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury	0.01 0.023 0.01 0.0018 7820 0.01 0.032 27300 0.135 0.23 0.01 0.401 0.0001	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	0.016	mg/L
			pH	7.45	pH Unit
			Sulfate	2630	mg/L
			Vanadium	0.1	mg/L
			Zinc	0.174	mg/L
			SWL	11.09	m
EPA ID No. 14 - GIP292A	Monthly	Sampled: 11/11/21	Arsenic	0.053	mg/L
			Barium	0.01	mg/L
		Obtained: 9/12/21	Beryllium	0.104	mg/L
			Cadmium	4.31	mg/L
		Published: 23/12/2021	Chloride	2390	mg/L
			Chromium	0.202	mg/L
			Cobalt	70.9	mg/L
			Conductivity (EC)	35000	µS/cm
			Copper	304	mg/L
			Iron	146	mg/L
			Lead	0.01	mg/L
			Manganese	627	mg/L
			Mercury	0.0001	mg/L
			Nickel	23.6	mg/L
		pH	3.55	pH Unit	
		Sulfate	41000	mg/L	
		Vanadium	0.19	mg/L	
Zinc	324	mg/L			
SWL	10.14	m			
EPA ID No. 16 - GIP292AS	Monthly	Sampled: 11/11/21	Arsenic		mg/L
			Barium		mg/L
		Obtained: DRY	Beryllium		mg/L
			Cadmium		mg/L
		Published: 23/12/2021	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	10.32	m			

EPA ID No. 17 - GIP293	Monthly	Sampled: 18/11/21	Arsenic	0.045	mg/L
			Barium	0.01	mg/L
		Obtained: 9/12/21	Beryllium	0.024	mg/L
			Cadmium	3.15	mg/L
		Published: 23/12/2021	Chloride	3860	mg/L
			Chromium	0.01	mg/L
			Cobalt	47.6	mg/L
			Conductivity (EC)	42800	µS/cm
			Copper	103	mg/L
			Iron	0.33	mg/L
			Lead	0.01	mg/L
			Manganese	646	mg/L
			Mercury	0.0005	mg/L
			Nickel	16.8	mg/L
		pH	3.86	pH Unit	
		Sulfate	39200	mg/L	
Vanadium	0.1	mg/L			
Zinc	185	mg/L			
SWL	15.35	m			
EPA ID No. 18 - GIP294	Monthly	Sampled: 11/11/21	Arsenic	0.01	mg/L
			Barium	0.01	mg/L
		Obtained: 9/12/21	Beryllium	0.01	mg/L
			Cadmium	0.365	mg/L
		Published: 23/12/2021	Chloride	2470	mg/L
			Chromium	0.01	mg/L
			Cobalt	4.48	mg/L
			Conductivity (EC)	32200	µS/cm
			Copper	9.74	mg/L
			Iron	0.1	mg/L
			Lead	0.01	mg/L
			Manganese	31.2	mg/L
			Mercury	0.0001	mg/L
			Nickel	1.66	mg/L
		pH	6.81	pH Unit	
		Sulfate	19400	mg/L	
Vanadium	0.1	mg/L			
Zinc	21	mg/L			
SWL	13.41	m			
EPA ID No. 19 - GIP295	Monthly	Sampled: 18/11/21	Arsenic	0.01	mg/L
			Barium	0.041	mg/L
		Obtained: 9/12/21	Beryllium	0.01	mg/L
			Cadmium	0.001	mg/L
		Published: 23/12/2021	Chloride	9010	mg/L
			Chromium	0.01	mg/L
Conductivity (EC)	30500	µS/cm			

			Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.017 0.1 0.01 0.51 0.0001 0.01 7.52 2680 0.1 0.05 18.81	mg/L mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 20 - GIP296	Monthly	Sampled: 11/11/21 Obtained: 9/12/21 Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.001 0.01 0.001 0.0002 835 0.001 0.002 13600 0.013 0.05 0.001 0.04 0.0001 0.006 7.42 5960 0.01 0.03 9.56	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. 21 - GIP297	Monthly	Sampled: 18/11/21 Obtained: 9/12/21 Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate	0.004 0.001 0.001 0.0002 114 0.001 0.003 1180 0.041 0.09 0.001 0.071 0.0001 0.001 7.74 191	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

			Vanadium	0.01	mg/L
			Zinc	0.05	mg/L
			SWL	26.78	m
EPA ID No. 22 - GIP298	Monthly	Sampled: 18/11/21	Arsenic	0.01	mg/L
			Barium	0.01	mg/L
			Beryllium	0.01	mg/L
		Obtained: 9/12/21	Cadmium	0.001	mg/L
			Chloride	9380	mg/L
			Chromium	0.01	mg/L
		Published: 23/12/2021	Cobalt	0.01	mg/L
			Conductivity (EC)	31000	µS/cm
			Copper	0.039	mg/L
			Iron	0.31	mg/L
			Lead	0.01	mg/L
			Manganese	0.119	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.01	mg/L
			pH	7.61	pH Unit
			Sulfate	2830	mg/L
Vanadium	0.1	mg/L			
Zinc	0.066	mg/L			
SWL	22.57	m			
EPA ID No. 23 - GIP299	Monthly	Sampled: 15/11/21	Arsenic	0.01	mg/L
			Barium	0.01	mg/L
			Beryllium	0.01	mg/L
		Obtained: 9/12/21	Cadmium	0.0033	mg/L
			Chloride	6330	mg/L
			Chromium	0.01	mg/L
		Published: 23/12/2021	Cobalt	0.01	mg/L
			Conductivity (EC)	32300	µS/cm
			Copper	0.01	mg/L
			Iron	0.13	mg/L
			Lead	0.01	mg/L
			Manganese	0.318	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.01	mg/L
			pH	7.38	pH Unit
			Sulfate	12300	mg/L
Vanadium	0.1	mg/L			
Zinc	0.05	mg/L			
SWL	34.42	m			
EPA ID No. 24 - GIP300	Monthly	Sampled: 15/11/21	Arsenic	0.01	mg/L
			Barium	0.031	mg/L
			Beryllium	0.01	mg/L
		Obtained: 9/12/21	Cadmium	0.0017	mg/L
			Chloride	10300	mg/L

		Published: 23/12/2021	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.01 0.01 34900 0.012 0.1 0.01 0.071 0.0001 0.033 7.39 4320 0.1 0.05 22.21	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. 25 - GIP301	Monthly	Sampled: 23/11/21 Obtained: 9/12/21 Published: 23/12/2021	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 0.0027 1710 0.001 0.002 9160 0.033 0.05 0.001 0.142 0.0001 0.008 7.95 1260 0.01 0.135 15.41	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 - GIP302	Monthly	Sampled: 15/11/21 Obtained: 9/12/21 Published: 23/12/2021	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury	0.01 0.01 0.01 0.0151 8500 0.027 0.187 31900 1.17 0.1 0.01 1.77 0.0001	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	0.527	mg/L
			pH	7.55	pH Unit
			Sulfate	5820	mg/L
			Vanadium	0.1	mg/L
			Zinc	0.934	mg/L
			SWL	17.65	m