



Tritton and Girilambone Operations

Monthly Environmental Monitoring Report

[March] [2022]

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[MARCH] [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: Obtained: Published: 11/05/2022	Arsenic		mg/L ¹
			Barium		mg/L
			Beryllium		mg/L
			Cadmium		mg/L
			Chloride		mg/L
			Chromium		mg/L
			Cobalt		mg/L
			Conductivity (EC)		µS/cm ²
			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 ³			
EPA ID No. 13 - PZH002	Quarterly	Sampled: Obtained: Published: 11/05/2022	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			

¹ Milligrams per litre

² Microsiemens per centimetre

³ Metres

			Sulfate Vanadium Zinc SWL		mg/L mg/L mg/L m
EPA ID No. 14 - PZH003	Quarterly	Sampled: Obtained: Published: 11/05/2022	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. 15 - PZH004	Quarterly	Sampled: Obtained: Published: 11/05/2022	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. 16 - PZH005	Quarterly	Sampled: Obtained:	Arsenic Barium Beryllium Cadmium		mg/L mg/L mg/L mg/L

		Published: 11/05/2022	Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL		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: Obtained: Published: 11/05/2022	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. 18 - PZH007	Quarterly	Sampled: 29/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese	0.003 0.275 0.001 0.0002 1440 0.006 0.008 7610 0.003 5.84 0.014 1.73	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	0.0001	mg/L
			Nickel	0.012	mg/L
			pH	7.73	pH Unit
			Sulfate	721	mg/L
			Vanadium	0.03	mg/L
			Zinc	0.067	mg/L
			SWL	42.44	m
EPA ID No. 19 - PZH008	Quarterly	Sampled: 29/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic	0.028	mg/L
			Barium	0.021	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0001	mg/L
			Chloride	3550	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	14000	µS/cm
			Copper	0.037	mg/L
			Iron	1.17	mg/L
			Lead	0.001	mg/L
			Manganese	0.083	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.001	mg/L
			pH	7.27	pH Unit
			Sulfate	1660	mg/L
			Vanadium	0.01	mg/L
			Zinc	0.053	mg/L
			SWL	17.29	m
EPA ID No. 20 - PZH009	Quarterly	Sampled: 29/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic	0.001	mg/L
			Barium	0.048	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0008	mg/L
			Chloride	4840	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.001	mg/L
			Conductivity (EC)	18200	µS/cm
			Copper	0.07	mg/L
			Iron	0.09	mg/L
			Lead	0.001	mg/L
			Manganese	0.035	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.016	mg/L
			pH	7.76	pH Unit
			Sulfate	2210	mg/L
			Vanadium	0.01	mg/L
			Zinc	0.098	mg/L
			SWL	12.88	m
EPA ID	Quarterly	Sampled:	Arsenic		mg/L

No. 22 - PZH013		29/3/22 Obtained: DRY Published: 11/05/2022	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 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: 30/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.004 0.036 0.001 0.0004 4250 0.001 0.002 16100 0.014 0.05 0.001 0.067 0.0001 0.013 7.8 1960 0.01 0.039 46.37	mg/L mg/L mg/L mg/L mg/L mg/L mg/L μS/cm mg/L mg/L mg/L mg/L mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 24 - PZH015	Quarterly	Sampled: 30/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper	0.015 0.037 0.001 0.0005 4260 0.001 0.002 16200 0.084	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	0.97 0.001 0.077 0.0001 0.009 7.81 1930 0.01 0.232 50.38	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: 11/05/2022	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 pH Unit mg/L mg/L mg/L m
EPA ID No. 26 - PZH018	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 11/05/2022	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 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: 11/05/2022	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: 11/05/2022	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

		Published: 11/05/2022	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 m
EPA ID No. 30 - PZH022	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 11/05/2022	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. 31 - PZH023	Quarterly	Sampled: D/M/Y Obtained: D/M/Y Published: 11/05/2022	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

			<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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[MARCH] [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
			Chromium		mg/L
		Published:	Cobalt		mg/L
		11/05/2022	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
			Chromium		mg/L
		Published:	Cobalt		mg/L
		11/05/2022	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. 4 - GIP234	Quarterly	Sampled: 23/3/22 Obtained: Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	24.72	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. 5 - GIP273	Quarterly	Sampled: 21/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.01 0.016 0.01 0.001 9730 0.01 0.01 34500 0.062 0.25 0.026 0.024 0.0001 0.01 7.24 3180 0.1 0.089	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. 7 - GIP274	Monthly	Sampled: 21/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC)	0.01 0.011 0.01 0.0015 9460 0.01 0.011 33400	mg/L mg/L mg/L mg/L mg/L mg/L mg/L µS/cm

			Vanadium Zinc SWL	17.55	mg/L mg/L m
EPA ID No. 9 - GIP278	Quarterly	Sampled: 23/3/22 Obtained: Published: 11/05/2022	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. 10 - GIP279A	Quarterly	Sampled: 23/3/22 Obtained: Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	25.68	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: 23/3/22 Obtained:	Arsenic Barium Beryllium Cadmium Chloride	24.99	mg/L mg/L mg/L mg/L mg/L

		Published: 11/05/2022	Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	22.78	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: 22/3/22 Obtained: 7/4/22 Published: 11/05/2022	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 0.025 3470 0.001 0.171 17000 0.176 0.06 0.001 8.86 0.0001 0.021 7.04 3940 0.01 0.41 15.68	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: Obtained: Published: 11/05/2022	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

			Nickel pH Sulfate Vanadium Zinc SWL		mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 14 - GIP292A	Monthly	Sampled: 16/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.06 0.01 0.139 4.38 1960 0.192 72 34600 319 146 0.01 649 0.0001 22.9 3.62 41400 0.21 346 9.58	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: 16/3/22 Obtained: DRY Published: 11/05/2022	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: 16/3/22	Arsenic Barium	0.052 0.01	mg/L mg/L

GIP293		Obtained: 7/4/22 Published: 11/05/2022	Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH Sulfate Vanadium Zinc SWL	0.039 3.34 3680 0.047 49.5 43100 108 0.32 0.01 683 0.0004 17.1 3.83 40700 0.1 198 14.86	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. 18 - GIP294	Monthly	Sampled: Obtained: Published: 11/05/2022	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 mg/L pH Unit mg/L mg/L mg/L m
EPA ID No. 19 - GIP295	Monthly	Sampled: Obtained: Published: 11/05/2022	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		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. 20 - GIP296	Monthly	Sampled: 16/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic	0.001	mg/L
			Barium	0.009	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0003	mg/L
			Chloride	737	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.003	mg/L
			Conductivity (EC)	13100	µS/cm
			Copper	0.03	mg/L
			Iron	0.05	mg/L
			Lead	0.001	mg/L
			Manganese	0.029	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.005	mg/L
			pH	7.08	pH Unit
			Sulfate	5960	mg/L
			Vanadium	0.01	mg/L
Zinc	0.033	mg/L			
SWL	8.35	m			
EPA ID No. 21 - GIP297	Monthly	Sampled: 22/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic	0.005	mg/L
			Barium	0.002	mg/L
			Beryllium	0.001	mg/L
			Cadmium	0.0003	mg/L
			Chloride	123	mg/L
			Chromium	0.001	mg/L
			Cobalt	0.002	mg/L
			Conductivity (EC)	1190	µS/cm
			Copper	0.043	mg/L
			Iron	0.08	mg/L
			Lead	0.001	mg/L
			Manganese	0.065	mg/L
			Mercury	0.0001	mg/L
			Nickel	0.002	mg/L
			pH	7.57	pH Unit
			Sulfate	222	mg/L
			Vanadium	0.01	mg/L
Zinc	0.061	mg/L			

			SWL	26.63	m
EPA ID No. 22 - GIP298	Monthly	Sampled: Obtained: Published: 11/05/2022	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: 11/05/2022	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: 11/05/2022	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 m
EPA ID No. 25 - GIP301	Monthly	Sampled: Obtained: Published: 11/05/2022	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 - GIP302	Monthly	Sampled: 22/3/22 Obtained: 7/4/22 Published: 11/05/2022	Arsenic Barium Beryllium Cadmium Chloride Chromium Cobalt Conductivity (EC) Copper Iron Lead Manganese Mercury Nickel pH	0.01 0.01 0.01 0.0077 8240 0.045 0.083 31600 0.533 0.1 0.01 1.02 0.0001 0.35 7.18	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

			Sulfate	5410	mg/L
			Vanadium	0.1	mg/L
			Zinc	0.404	mg/L
			SWL	17.06	m