

Tharbogang Borehole Test Results 2016-17

Depth (m)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results		2016/2017				
Mar-17	Aug-17	COUNT of samples for period	MIN of samples for period	MAX of samples for period	AVERAGE	Publication Date
14.51	14.5	2	14.5	14.51	14.505	11/09/2017
0	0	2	0	0	0	11/09/2017
14.96	14.8	2	14.8	14.96	14.88	11/09/2017
7.74	8.35	2	7.74	8.35	8.045	11/09/2017
18.35	19.35	2	18.35	19.35	18.85	11/09/2017
17.47	17.68	2	17.47	17.68	17.575	11/09/2017
21.73	21.35	2	21.35	21.73	21.54	11/09/2017
0	0	2	0	0	0	11/09/2017
0	0	2	0	0	0	11/09/2017

pH

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
7.86	8.14	2	7.86	8.14	8	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
7.62	7.75	2	7.62	7.75	7.685	11/09/2017
7.94	8.08	2	7.94	8.08	8.01	11/09/2017
7.72	7.81	2	7.72	7.81	7.765	11/09/2017
8.11	8.38	2	8.11	8.38	8.245	11/09/2017
7.67	8.06	2	7.67	8.06	7.865	11/09/2017
8.98	9.60	2	8.98	9.6	9.29	11/09/2017
8.76	8.71	2	8.71	8.76	8.735	11/09/2017

Alkalinity (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
851.00	434.00	2	434	851	851	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
369.00	282.00	2	282	369	369	11/09/2017
1300.00	1100.00	2	1100	1300	1300	11/09/2017
799.00	844.00	2	799	844	844	11/09/2017
1080.00	1100.00	2	1080	1100	1100	11/09/2017
1300.00	1200.00	2	1200	1300	1300	11/09/2017
2370.00	2310.00	2	2310	2370	2370	11/09/2017
264.00	290.00	2	264	290	290	11/09/2017

Fluoride (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
1.20	1.20	2	1.2	1.2	1.2	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
0.90	0.90	2	0.9	0.9	0.9	11/09/2017
0.80	0.80	2	0.8	0.8	0.8	11/09/2017
0.80	0.80	2	0.8	0.8	0.8	11/09/2017
0.90	1.00	2	0.9	1	1	11/09/2017
0.60	0.60	2	0.6	0.6	0.6	11/09/2017
0.30	0.20	2	0.2	0.3	0.3	11/09/2017
0.50	0.60	2	0.5	0.6	0.6	11/09/2017

Chloride (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
1760.00	1800.00	2	1760	1800	1800	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
363.00	392.00	2	363	392	392	11/09/2017
3200.00	4070.00	2	3200	4070	4070	11/09/2017
1270.00	1150.00	2	1150	1270	1270	11/09/2017
1510.00	1440.00	2	1440	1510	1510	11/09/2017
1100.00	1230.00	2	1100	1230	1230	11/09/2017
7130.00	7750.00	2	7130	7750	7750	11/09/2017
166.00	168.00	2	166	168	168	11/09/2017

Tharbogang Borehole Test Results 2016-17

Sulphate (mg/L) SO₄

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
508.00	537.00	2	508	537	537	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
23.00	28.00	2	23	28	28	11/09/2017
404.00	528.00	2	404	528	528	11/09/2017
130.00	70.00	2	70	130	130	11/09/2017
237.00	176.00	2	176	237	237	11/09/2017
457.00	488.00	2	457	488	488	11/09/2017
1980.00	1620.00	2	1620	1980	1980	11/09/2017
59.00	55.00	2	55	59	59	11/09/2017

Sp.Conductance (uS/cm)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
7590.00	8020.00	2	7590	8020	8020	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
1730.00	1800.00	2	1730	1800	1800	11/09/2017
11300.00	14100.00	2	11300	14100	14100	11/09/2017
4900.00	5340.00	2	4900	5340	5340	11/09/2017
6640.00	6400.00	2	6400	6640	6640	11/09/2017
12700.00	12300.00	2	12300	12700	12700	11/09/2017
24500.00	26400.00	2	24500	26400	26400	11/09/2017
1040.00	1110.00	2	1040	1110	1110	11/09/2017

Suspended.Solid (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
12.00	20.00	2	12	20	16	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
98.00	160.00	2	98	160	129	11/09/2017
56.00	81.00	2	56	81	68.5	11/09/2017
9.00	98.00	2	9	98	53.5	11/09/2017
344.00	446.00	2	344	446	395	11/09/2017
30.00	156.00	2	30	156	93	11/09/2017
38.00	27.00	2	27	38	32.5	11/09/2017
16.00	22.00	2	16	22	19	11/09/2017

Total Org Carbon-filt (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
6.00	9.00	2	6	9	7.5	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
2.00	2.00	2	2	2	2	11/09/2017
12.00	27.00	2	12	27	19.5	11/09/2017
23.00	38.00	2	23	38	30.5	11/09/2017
10.00	10.00	2	10	10	10	11/09/2017
26.00	18.00	2	18	26	22	11/09/2017
316.00	426.00	2	316	426	371	11/09/2017
30.00	32.00	2	30	32	31	11/09/2017

Total Phenol (mg/L)

Bore Hole 1
Bore Hole 2
Bore Hole 3
Bore Hole 4
Bore Hole 5
Bore Hole 6
Bore Hole 7
Leachate dam 1 Pt 9
Sed Pond dam 2 Pt 8

Test Results						
Mar-17	Aug-17					
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
0.00	0.00	2	0	0	0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017
0.00	0.00	2	<1.0	<1.0	<1.0	11/09/2017
<1.0	<1.0	2	<1.0	<1.0	<1.0	11/09/2017

Tharbogang Borehole Test Results 2016-17

Dissolved Iron (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	0.28	0.12	2	0.12	0.28	0.2	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0.00	0	11/09/2017
Bore Hole 3	2.66	2.19	2	2.19	2.66	2.425	11/09/2017
Bore Hole 4	0.34	0.55	2	0.34	0.55	0.445	11/09/2017
Bore Hole 5	0.79	5.75	2	0.79	5.75	3.27	11/09/2017
Bore Hole 6	2.14	3.04	2	2.14	3.04	2.59	11/09/2017
Bore Hole 7	0.42	0.54	2	0.42	0.54	0.48	11/09/2017
Leachate dam 1 Pt 9	0.20	0.25	2	0.2	0.25	0.225	11/09/2017
Sed Pond dam 2 Pt 8	0.64	0.94	2	0.64	0.94	0.79	11/09/2017

Dissolved Manganese (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	0.008	0.004	2	0.008	0.012	0.01	11/09/2017
Bore Hole 2	0	0	2	0	0	0	11/09/2017
Bore Hole 3	0.071	0.081	2	0.108	0.152	0.13	11/09/2017
Bore Hole 4	0.077	0.132	2	0.025	0.089	0.057	11/09/2017
Bore Hole 5	0.691	1.55	2	0.108	0.344	0.226	11/09/2017
Bore Hole 6	0.131	0.354	2	0.076	0.084	0.08	11/09/2017
Bore Hole 7	0.507	0.38	2	0.088	0.088	0.088	11/09/2017
Leachate dam 1 Pt 9	0.038	0.053	2	0	0.032	0.016	11/09/2017
Sed Pond dam 2 Pt 8	0.078	0.031	2	0.037	0.275	0.156	11/09/2017

Dissolved Calcium (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	53.00	37.00	2	37	53	45.00	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0.00	11/09/2017
Bore Hole 3	11.00	7.00	2	7	11	9.00	11/09/2017
Bore Hole 4	121.00	80.00	2	80	121	100.50	11/09/2017
Bore Hole 5	142.00	103.00	2	103	142	122.50	11/09/2017
Bore Hole 6	76.00	46.00	2	46	76	61.00	11/09/2017
Bore Hole 7	495.00	358.00	2	358	495	426.50	11/09/2017
Leachate dam 1 Pt 9	13.00	13.00	2	13	13	13.00	11/09/2017
Sed Pond dam 2 Pt 8	28.00	25.00	2	25	28	26.50	11/09/2017

Dissolved Magnesium (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	202.00	185.00	2	185	202	193.5	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0	11/09/2017
Bore Hole 3	18.00	14.00	2	14	18	16	11/09/2017
Bore Hole 4	187.00	195.00	2	187	195	191	11/09/2017
Bore Hole 5	154.00	132.00	2	132	154	143	11/09/2017
Bore Hole 6	160.00	119.00	2	119	160	139.5	11/09/2017
Bore Hole 7	706.00	652.00	2	652	706	679	11/09/2017
Leachate dam 1 Pt 9	611.00	477.00	2	477	611	544	11/09/2017
Sed Pond dam 2 Pt 8	32.00	27.00	2	27	32	29.5	11/09/2017

Dissolved Potassium (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	66.00	72.00	2	66	72	69	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0	11/09/2017
Bore Hole 3	11.00	9.00	2	9	11	10	11/09/2017
Bore Hole 4	115.00	144.00	2	115	144	129.5	11/09/2017
Bore Hole 5	45.00	46.00	2	45	46	45.5	11/09/2017
Bore Hole 6	65.00	58.00	2	58	65	61.5	11/09/2017
Bore Hole 7	212.00	185.00	2	185	212	198.5	11/09/2017
Leachate dam 1 Pt 9	1410.00	1330.00	2	1330	1410	1370	11/09/2017
Sed Pond dam 2 Pt 8	38.00	32.00	2	32	38	35	11/09/2017

Tharbogang Borehole Test Results 2016-17

Dissolved Sodium (mg/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	1290.00	1320.00	2	1290	1320	1305	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0	11/09/2017
Bore Hole 3	349.00	336.00	2	336	349	342.5	11/09/2017
Bore Hole 4	2300.00	2530.00	2	2300	2530	2415	11/09/2017
Bore Hole 5	655.00	655.00	2	655	655	655	11/09/2017
Bore Hole 6	1230.00	1060.00	2	1060	1230	1145	11/09/2017
Bore Hole 7	1320.00	1150.00	2	1150	1320	1235	11/09/2017
Leachate dam 1 Pt 9	5140.00	4640.00	2	4640	5140	4890	11/09/2017
Sed Pond dam 2 Pt 8	136.00	131.00	2	131	136	133.5	11/09/2017

Ammonia (as N) (mg/L) N

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	0.04	<.01	2	0.04	0.04	0.04	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0	11/09/2017
Bore Hole 3	3.58	0.93	2	0.93	3.58	2.255	11/09/2017
Bore Hole 4	0.72	0.14	2	0.14	0.72	0.43	11/09/2017
Bore Hole 5	0.73	41.70	2	0.73	41.7	21.215	11/09/2017
Bore Hole 6	2.21	0.70	2	0.7	2.21	1.455	11/09/2017
Bore Hole 7	75.60	55.60	2	55.6	75.6	65.6	11/09/2017
Leachate dam 1 Pt 9	3.32	9.22	2	3.32	9.22	6.27	11/09/2017
Sed Pond dam 2 Pt 8	0.03	0.47	2	0.03	0.47	0.25	11/09/2017

Total Oxidised Nitrogen (as N) (mg/L)

	Test Results						
	Aug-17	Aug-17					
Bore Hole 1	9.01	11.90	2	9.01	11.9	10.455	11/09/2017
Bore Hole 2	0.00	0.00	2	0	0	0	11/09/2017
Bore Hole 3	0.01	1.18	2	0.01	1.18	0.595	11/09/2017
Bore Hole 4	0.88	0.40	2	0.4	0.88	0.64	11/09/2017
Bore Hole 5	0.59	0.03	2	0.03	0.59	0.31	11/09/2017
Bore Hole 6	0.14	0.12	2	0.12	0.14	0.13	11/09/2017
Bore Hole 7	1040.00	957.00	2	957	1040	998.5	11/09/2017
Leachate dam 1 Pt 9	0.54	0.07	2	0.07	0.54	0.305	11/09/2017
Sed Pond dam 2 Pt 8	<.01	0.49	2	0.49	0.49	0.49	11/09/2017

Volatile Organics (ug/L)

	Test Results						
	Mar-17	Aug-17					
Bore Hole 1	<50	<50	2	<50	<50	<50	11/09/2017
Bore Hole 2	0	0	2				11/09/2017
Bore Hole 3	<50	<50	2	<50	<50	<50	11/09/2017
Bore Hole 4	<50	<50	2	<50	<50	<50	11/09/2017
Bore Hole 5	<50	<50	2	<50	<50	<50	11/09/2017
Bore Hole 6	<50	<50	2	<50	<50	<50	11/09/2017
Bore Hole 7	<50	<50	2	<50	<50	<50	11/09/2017
Leachate dam 1 Pt 9	<50	<50	2	<50	<50	<50	11/09/2017
Sed Pond dam 2 Pt 8	<50	<50	2	<50	<50	<50	11/09/2017