

## Tharbogang Borehole Test Results 2023

### 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		2023				
		Frequency require by EPL sample for period	MIN of samples for period	MAX of samples for period	AVERAGE	Publication Date
Mar-23	Sep-23					
12.00	7.65	2	12	12.2	12.1	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
13.80	7.58	2	12.45	13.8	13.125	26/09/2023
5.30	7.27	2	5.3	5.5	5.4	26/09/2023
16.90	7.52	2	16.9	17.65	17.275	26/09/2023
17.80	7.96	2	17.3	17.8	17.55	26/09/2023
19.50	7.59	2	19.5	19.88	19.69	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023

### 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-23	Sep-23					
7.89	7.65	2	7.65	7.89	7.77	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
7.75	7.58	2	7.58	7.75	7.665	26/09/2023
7.72	7.27	2	7.27	7.72	7.495	26/09/2023
7.65	7.52	2	7.52	7.65	7.585	26/09/2023
8.21	7.96	2	7.96	8.21	8.085	26/09/2023
7.75	7.59	2	7.59	7.75	7.67	26/09/2023
8.92	8.77	2	8.77	8.92	8.845	26/09/2023
8.68	8.87	2	8.68	8.87	8.775	26/09/2023

### 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-23	Sep-23					
519.00	515.00	2	515	519	519	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
339.00	341.00	2	339	341	341	26/09/2023
1300.00	1410.00	2	1300	1410	1410	26/09/2023
880.00	827.00	2	827	880	880	26/09/2023
1000.00	1040.00	2	1000	1040	1040	26/09/2023
1140.00	936.00	2	936	1140	1140	26/09/2023
917.00	1010.00	2	917	1010	1010	26/09/2023
283.00	237.00	2	237	283	283	26/09/2023

### 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-23	Sep-23					
0.90	0.90	2	0.9	0.9	0.9	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
0.90	0.80	2	0.8	0.9	0.9	26/09/2023
0.50	0.60	2	0.5	0.6	0.6	26/09/2023
0.90	0.90	2	0.9	0.9	0.9	26/09/2023
1.10	1.00	2	1	1.1	1.1	26/09/2023
0.60	0.70	2	0.6	0.7	0.7	26/09/2023
0.40	0.30	2	0.3	0.4	0.4	26/09/2023
0.40	0.40	2	0.4	0.4	0.4	26/09/2023

### 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-23	Sep-23					
1170.00	1130.00	2	1130	1170	1170	26/09/2023
0.00	0.00	2	0	0	0	26/09/2023
431.00	421.00	2	421	431	431	26/09/2023
5440.00	4960.00	2	4960	5440	5440	26/09/2023
679.00	680.00	2	679	680	680	26/09/2023
1450.00	1330.00	2	1330	1450	1450	26/09/2023
942.00	982.00	2	942	982	982	26/09/2023
825.00	875.00	2	825	875	875	26/09/2023
156.00	108.00	2	108	156	156	26/09/2023

## Tharbogang Borehole Test Results 2023

### Sulphate (mg/L) SO<sub>4</sub>

Test Results						
	Mar-23	Sep-23				
Bore Hole 1	298.00	324.00	2	298	324	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	26/09/2023
Bore Hole 3	29.00	27.00	2	27	29	26/09/2023
Bore Hole 4	666.00	701.00	2	666	701	26/09/2023
Bore Hole 5	17.00	53.00	2	17	53	26/09/2023
Bore Hole 6	246.00	255.00	2	246	255	26/09/2023
Bore Hole 7	460.00	371.00	2	371	460	26/09/2023
Leachate dam 1 Pt 9	69.00	47.00	2	47	69	26/09/2023
Sed Pond dam 2 Pt 8	24.00	31.00	2	24	31	26/09/2023

### Sp.Conductance (uS/cm)

Test Results						
	Mar-23	Sep-23				
Bore Hole 1	5200.00	5350.00	2	5200	5350	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	26/09/2023
Bore Hole 3	1920.00	1960.00	2	1920	16500	26/09/2023
Bore Hole 4	18000.00	18000.00	2	18000	18000	26/09/2023
Bore Hole 5	2720.00	3400.00	2	2720	3400	26/09/2023
Bore Hole 6	6650.00	6570.00	2	6570	6650	26/09/2023
Bore Hole 7	10400.00	8820.00	2	8820	10400	26/09/2023
Leachate dam 1 Pt 9	3540.00	4640.00	2	3540	4640	26/09/2023
Sed Pond dam 2 Pt 8	975.00	837.00	2	837	975	26/09/2023

### Suspended.Solid (mg/L)

Test Results						
	Mar-23	Sep-23				
Bore Hole 1	8.00	12.00	2	8	12	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	26/09/2023
Bore Hole 3	<5	<5	2	<5	<5	26/09/2023
Bore Hole 4	7.00	<5	2	<5	7	26/09/2023
Bore Hole 5	52.00	38.00	2	38	52	26/09/2023
Bore Hole 6	120.00	35.00	2	35	120	26/09/2023
Bore Hole 7	102.00	18.00	2	18	102	26/09/2023
Leachate dam 1 Pt 9	119.00	18.00	2	18	119	26/09/2023
Sed Pond dam 2 Pt 8	448.00	11.00	2	11	448	26/09/2023

### Total Org Carbon-filt (mg/L)

Test Results						
	Mar-23	Sep-23				
Bore Hole 1	35.00	31.00	2	31	35	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	26/09/2023
Bore Hole 3	4.00	2.00	2	2	4	26/09/2023
Bore Hole 4	39.00	28.00	2	28	39	26/09/2023
Bore Hole 5	22.00	16.00	2	16	22	26/09/2023
Bore Hole 6	12.00	6.00	2	6	12	26/09/2023
Bore Hole 7	27.00	15.00	2	15	27	26/09/2023
Leachate dam 1 Pt 9	165.00	136.00	2	136	165	26/09/2023
Sed Pond dam 2 Pt 8	58.00	31.00	2	31	58	26/09/2023

### Total Phenol (mg/L)

Test Results						
	Mar-23	Sep-23				
Bore Hole 1	<1.0		2	<1.0	<1.0	26/09/2023
Bore Hole 2	0.00		2	0	0	26/09/2023
Bore Hole 3	<1.0		2	<1.0	<1.0	26/09/2023
Bore Hole 4	<1.0		2	<1.0	<1.0	26/09/2023
Bore Hole 5	<1.0		2	<1.0	<1.0	26/09/2023
Bore Hole 6	<1.0		2	<1.0	<1.0	26/09/2023
Bore Hole 7	<1.0		2	<1.0	<1.0	26/09/2023
Leachate dam 1 Pt 9	0.00		2	<1.0	<1.0	26/09/2023
Sed Pond dam 2 Pt 8	<1.0		2	<1.0	<1.0	26/09/2023

## Tharbogang Borehole Test Results 2023

### Dissolved Iron (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	0.43	0.63	2	0.43	0.63	0.53	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0.00	0	26/09/2023
Bore Hole 3	0.21	0.08	2	0.08	0.21	0.145	26/09/2023
Bore Hole 4	1.14	0.60	2	0.6	1.14	0.87	26/09/2023
Bore Hole 5	12.30	0.90	2	0.9	12.30	6.6	26/09/2023
Bore Hole 6	1.93	1.00	2	1	1.93	1.465	26/09/2023
Bore Hole 7	3.09	3.35	2	3.09	3.35	3.22	26/09/2023
Leachate dam 1 Pt 9	1.55	0.52	2	0.52	1.55	1.035	26/09/2023
Sed Pond dam 2 Pt 8	4.76	0.50	2	0.5	4.76	2.63	26/09/2023

### Dissolved Manganese (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	100.00	0.11	2	0.097	0.11	0.1035	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	19.00	0.00	2	0.004	0.006	0.005	26/09/2023
Bore Hole 4	348.00	1.28	2	0.942	1.28	1.111	26/09/2023
Bore Hole 5	126.00	0.69	2	0.497	0.688	0.5925	26/09/2023
Bore Hole 6	102.00	0.04	2	0.041	0.046	0.0435	26/09/2023
Bore Hole 7	486.00	0.49	2	0.487	0.783	0.635	26/09/2023
Leachate dam 1 Pt 9	78.00	0.15	2	0.142	0.15	0.146	26/09/2023
Sed Pond dam 2 Pt 8	37.00	0.02	2	0.016	0.41	0.213	26/09/2023

### Dissolved Calcium (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	20.00	22.00	2	20	22	21.00	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0.00	26/09/2023
Bore Hole 3	10.00	11.00	2	10	11	10.50	26/09/2023
Bore Hole 4	209.00	241.00	2	209	241	225.00	26/09/2023
Bore Hole 5	223.00	204.00	2	204	223	213.50	26/09/2023
Bore Hole 6	57.00	72.00	2	57	72	64.50	26/09/2023
Bore Hole 7	419.00	316.00	2	316	419	367.50	26/09/2023
Leachate dam 1 Pt 9	27.00	28.00	2	27	28	27.50	26/09/2023
Sed Pond dam 2 Pt 8	37.00	32.00	2	32	37	34.50	26/09/2023

### Dissolved Magnesium (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	100.00	124.00	2	100	124	112	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	19.00	21.00	2	19	21	20	26/09/2023
Bore Hole 4	348.00	440.00	2	348	440	394	26/09/2023
Bore Hole 5	126.00	140.00	2	126	140	133	26/09/2023
Bore Hole 6	102.00	132.00	2	102	132	117	26/09/2023
Bore Hole 7	486.00	424.00	2	424	486	455	26/09/2023
Leachate dam 1 Pt 9	78.00	104.00	2	78	104	91	26/09/2023
Sed Pond dam 2 Pt 8	37.00	24.00	2	24	37	30.5	26/09/2023

### Dissolved Potassium (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	59.00	62.00	2	59	62	60.5	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	10.00	12.00	2	10	12	11	26/09/2023
Bore Hole 4	132.00	158.00	2	132	158	145	26/09/2023
Bore Hole 5	32.00	32.00	2	32	32	32	26/09/2023
Bore Hole 6	57.00	60.00	2	57	60	58.5	26/09/2023
Bore Hole 7	153.00	139.00	2	139	153	146	26/09/2023
Leachate dam 1 Pt 9	233.00	299.00	2	233	299	266	26/09/2023
Sed Pond dam 2 Pt 8	64.00	46.00	2	46	64	55	26/09/2023

## Tharbogang Borehole Test Results 2023

### Dissolved Sodium (mg/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	731.00	896.00	2	731	896	813.5	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	318.00	369.00	2	318	369	343.5	26/09/2023
Bore Hole 4	2700.00	3310.00	2	2700	3310	3005	26/09/2023
Bore Hole 5	264.00	320.00	2	264	320	292	26/09/2023
Bore Hole 6	996.00	1160.00	2	996	1160	1078	26/09/2023
Bore Hole 7	826.00	918.00	2	826	918	872	26/09/2023
Leachate dam 1 Pt 9	484.00	658.00	2	484	658	571	26/09/2023
Sed Pond dam 2 Pt 8	117.00	87.00	2	87	117	102	26/09/2023

### Ammonia (as N) (mg/L) N

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	<0.01	<0.01	2	<0.01	<0.01	#DIV/0!	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	<0.01	<0.01	2	<0.01	<0.01	#DIV/0!	26/09/2023
Bore Hole 4	0.19	2.60	2	0.19	2.6	1.395	26/09/2023
Bore Hole 5	<0.01	0.02	2	<0.01	0.02	0.02	26/09/2023
Bore Hole 6	0.04	0.08	2	0.04	0.08	0.06	26/09/2023
Bore Hole 7	23.20	12.60	2	12.6	23.2	17.9	26/09/2023
Leachate dam 1 Pt 9	7.50	13.40	2	7.5	13.4	10.45	26/09/2023
Sed Pond dam 2 Pt 8	0.08	0.10	2	0.08	0.1	0.09	26/09/2023

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

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	27.10	28.00	2	27.1	28	27.55	26/09/2023
Bore Hole 2	0.00	0.00	2	0	0	0	26/09/2023
Bore Hole 3	0.58	0.28	2	0.28	0.58	0.43	26/09/2023
Bore Hole 4	0.61	0.08	2	0.08	0.61	0.345	26/09/2023
Bore Hole 5	0.49	0.48	2	0.48	0.49	0.485	26/09/2023
Bore Hole 6	5.34	4.15	2	4.15	5.34	4.745	26/09/2023
Bore Hole 7	792.00	531.00	2	531	792	661.5	26/09/2023
Leachate dam 1 Pt 9	<0.01	0.08	2	0.08	0.08	0.08	26/09/2023
Sed Pond dam 2 Pt 8	<0.01	531.00	2	0.61	0.61	0.61	26/09/2023

### Volatile Organics (ug/L)

	Test Results						
	Mar-23	Sep-23					
Bore Hole 1	<50		2	<50	<50	<50	26/09/2023
Bore Hole 2	0		2				26/09/2023
Bore Hole 3	<50		2	<50	<50	<50	26/09/2023
Bore Hole 4	<50		2	<50	<50	<50	26/09/2023
Bore Hole 5	<50		2	<50	<50	<50	26/09/2023
Bore Hole 6	<50		2	<50	<50	<50	26/09/2023
Bore Hole 7	<50		2	<50	<50	<50	26/09/2023
Leachate dam 1 Pt 9	<50		2	<50	<50	<50	26/09/2023
Sed Pond dam 2 Pt 8	<50		2	<50	<50	<50	26/09/2023