

TOMINGLEY GOLD OPERATIONS ANNUAL REVIEW 2019 - TEOM

PM10 Annual Average Criteria exceedance

PM 24 hr Criteria Exceedance

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/01/2019	66.1	26.2
2/01/2019	48.6	26.2
3/01/2019	33.0	26.2
4/01/2019	26.0	26.2
5/01/2019	102.9	26.5
6/01/2019	32.7	26.5
7/01/2019	19.5	26.4
8/01/2019	24.5	26.5
9/01/2019	22.3	26.5
10/01/2019	26.7	26.5
11/01/2019	58.0	26.6
12/01/2019	31.4	26.7
13/01/2019	33.4	26.7
14/01/2019	30.4	26.7
15/01/2019	46.1	26.8
16/01/2019	114.7	27.1
17/01/2019	60.5	27.2
18/01/2019	72.5	27.3
19/01/2019	70.1	27.4
20/01/2019	35.2	27.5
21/01/2019	No Data	27.5
22/01/2019	27.0	27.5
23/01/2019	No Data	27.4
24/01/2019	18.6	27.4
25/01/2019	35.2	27.4
26/01/2019	32.4	27.5
27/01/2019	36.8	27.5
28/01/2019	40.2	27.5
29/01/2019	47.5	27.6
30/01/2019	40.2	27.6
31/01/2019	39.9	27.6
Average	43.9	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/02/2019	60.8	27.7
2/02/2019	31.3	27.8
3/02/2019	25.9	27.9
4/02/2019	36.4	27.9
5/02/2019	33.8	28.0
6/02/2019	14.7	28.1
7/02/2019	23.7	28.1
8/02/2019	19.9	28.2
9/02/2019	33.9	28.2
10/02/2019	51.0	28.4
11/02/2019	18.3	28.4
12/02/2019	78.2	28.6
13/02/2019	138.3	28.9
14/02/2019	39.9	29.0
15/02/2019	35.2	29.1
16/02/2019	26.3	29.2
17/02/2019	31.5	29.2
18/02/2019	49.2	29.3
19/02/2019	57.0	29.5
20/02/2019	57.9	29.6
21/02/2019	35.4	29.7
22/02/2019	16.2	29.7
23/02/2019	19.0	29.8
24/02/2019	20.4	29.8
25/02/2019	28.8	29.9
26/02/2019	28.8	29.9
27/02/2019	No Data	30.0
28/02/2019	No Data	30.1
Average	38.9	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/03/2019	19.1	29.0
2/03/2019	17.2	28.9
3/03/2019	20.5	28.9
4/03/2019	30.1	28.9
5/03/2019	64.7	29.0
6/03/2019	56.0	29.2
7/03/2019	44.0	29.2
8/03/2019	46.8	29.3
9/03/2019	50.0	29.2
10/03/2019	61.8	29.4
11/03/2019	65.2	29.5
12/03/2019	63.2	29.6
13/03/2019	50.8	29.7
14/03/2019	55.3	29.8
15/03/2019	51.5	29.9
16/03/2019	45.1	30.0
17/03/2019	11.9	30.0
18/03/2019	31.8	30.0
19/03/2019	17.4	30.0
20/03/2019	20.6	30.0
21/03/2019	20.6	29.9
22/03/2019	14.3	29.9
23/03/2019	23.5	29.9
24/03/2019	45.1	30.0
25/03/2019	11.2	29.9
26/03/2019	24.4	29.9
27/03/2019	20.4	29.9
28/03/2019	18.8	29.9
29/03/2019	20.6	29.8
30/03/2019	77.9	30.0
31/03/2019	43.4	30.1
Average	36.9	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/04/2019	10.4	30.0
2/04/2019	11.9	30.0
3/04/2019	10.5	29.9
4/04/2019	13.4	29.9
5/04/2019	15.8	29.9
6/04/2019	21.0	29.8
7/04/2019	38.2	29.8
8/04/2019	37.8	29.8
9/04/2019	49.7	29.9
10/04/2019	44.7	29.8
11/04/2019	26.9	29.8
12/04/2019	19.4	29.7
13/04/2019	24.3	29.6
14/04/2019	35.2	29.6
15/04/2019	24.9	29.5
16/04/2019	23.4	29.5
17/04/2019	15.7	29.5
18/04/2019	29.5	29.5
19/04/2019	24.8	29.5
20/04/2019	17.2	29.5
21/04/2019	15.7	29.5
22/04/2019	23.8	29.5
23/04/2019	19.0	29.5
24/04/2019	23.2	29.5
25/04/2019	27.2	29.4
26/04/2019	43.3	29.3
27/04/2019	45.2	29.3
28/04/2019	42.2	29.4
29/04/2019	40.9	29.5
30/04/2019	53.0	29.6
Average	27.6	

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Date	24 Hr Averages	Running Average
	(µg/m3)	
1/05/2019	47.5	29.7
2/05/2019	37.4	29.7
3/05/2019	15.2	29.6
4/05/2019	12.0	29.5
5/05/2019	10.2	29.5
6/05/2019	19.8	29.5
7/05/2019	13.2	29.4
8/05/2019	28.2	29.5
9/05/2019	21.5	29.4
10/05/2019	18.2	29.4
11/05/2019	10.4	29.4
12/05/2019	8.1	29.4
13/05/2019	13.2	29.4
14/05/2019	14.7	29.4
15/05/2019	28.4	29.3
16/05/2019	19.1	29.3
17/05/2019	16.2	29.3
18/05/2019	20.0	29.3
19/05/2019	18.2	29.3
20/05/2019	19.1	29.3
21/05/2019	18.7	29.2
22/05/2019	18.5	29.2
23/05/2019	21.7	29.2
24/05/2019	33.9	29.2
25/05/2019	22.8	29.2
26/05/2019	15.0	29.2
27/05/2019	18.2	29.1
28/05/2019	13.6	29.1
29/05/2019	15.2	29.1
30/05/2019	19.1	29.1
31/05/2019	14.8	29.1
Average	19.4	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/07/2019	12.4	29.1
2/07/2019	11.7	29.0
3/07/2019	13.5	29.0
4/07/2019	17.2	29.0
5/07/2019	10.7	29.0
6/07/2019	10.9	29.0
7/07/2019	11.3	29.0
8/07/2019	6.8	29.0
9/07/2019	5.6	28.9
10/07/2019	7.1	28.9
11/07/2019	12.5	28.9
12/07/2019	14.3	28.9
13/07/2019	15.1	28.9
14/07/2019	10.4	28.9
15/07/2019	16.0	28.9
16/07/2019	12.8	28.9
17/07/2019	13.3	28.8
18/07/2019	13.1	28.7
19/07/2019	12.4	28.6
20/07/2019	13.2	28.5
21/07/2019	14.6	28.5
22/07/2019	19.3	28.6
23/07/2019	17.0	28.6
24/07/2019	No Data	28.6
25/07/2019	23.4	28.6
26/07/2019	21.7	28.6
27/07/2019	15.1	28.5
28/07/2019	14.3	28.5
29/07/2019	17.8	28.5
30/07/2019	8.0	28.5
31/07/2019	12.4	28.5
Average	13.5	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/06/2019	11.9	29.1
2/06/2019	18.9	29.1
3/06/2019	7.7	29.1
4/06/2019	8.3	29.1
5/06/2019	8.1	29.0
6/06/2019	13.6	29.0
7/06/2019	15.7	29.0
8/06/2019	15.5	29.0
9/06/2019	11.9	29.0
10/06/2019	12.1	29.0
11/06/2019	14.1	29.0
12/06/2019	32.0	29.1
13/06/2019	14.1	29.1
14/06/2019	9.8	29.1
15/06/2019	9.0	29.1
16/06/2019	8.4	29.1
17/06/2019	6.7	29.1
18/06/2019	12.2	29.1
19/06/2019	11.3	29.1
20/06/2019	10.9	29.1
21/06/2019	12.5	29.1
22/06/2019	10.6	29.1
23/06/2019	11.3	29.0
24/06/2019	9.4	29.0
25/06/2019	11.2	29.0
26/06/2019	8.5	28.9
27/06/2019	No Data	29.0
28/06/2019	8.8	29.0
29/06/2019	51.5	29.1
30/06/2019	8.7	29.1
Average	13.3	

Date	24 Hr Averages	Running Average
	(µg/m3)	
1/08/2019	14.5	28.5
2/08/2019	18.0	28.5
3/08/2019	12.9	27.5
4/08/2019	11.3	27.4
5/08/2019	16.8	27.4
6/08/2019	18.1	27.4
7/08/2019	17.8	27.3
8/08/2019	24.3	27.4
9/08/2019	38.0	27.4
10/08/2019	11.8	27.4
11/08/2019	8.1	27.4
12/08/2019	7.3	27.3
13/08/2019	9.0	27.3
14/08/2019	8.6	27.3
15/08/2019	8.3	27.3
16/08/2019	12.4	27.3
17/08/2019	15.4	27.3
18/08/2019	117.0	27.5
19/08/2019	64.5	27.6
20/08/2019	22.5	27.6
21/08/2019	36.0	27.7
22/08/2019	76.8	27.8
23/08/2019	23.9	27.8
24/08/2019	33.3	27.9
25/08/2019	26.3	27.9
26/08/2019	19.9	27.9
27/08/2019	30.0	28.0
28/08/2019	30.3	28.0
29/08/2019	37.9	28.1
30/08/2019	8.4	28.1
31/08/2019	11.8	27.8
Average	25.5	

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Date	24-hour Average	Running Average
1/09/2019	13.5	27.8
2/09/2019	24.4	27.8
3/09/2019	28.5	27.9
4/09/2019	40.1	28.0
5/09/2019	17.4	28.0
6/09/2019	80.8	28.2
7/09/2019	23.1	28.2
8/09/2019	21.4	28.2
9/09/2019	56.0	28.3
10/09/2019	20.8	28.4
11/09/2019	22.1	28.4
12/09/2019	21.0	28.3
13/09/2019	29.8	28.4
14/09/2019	27.9	28.4
15/09/2019	22.8	28.3
16/09/2019	52.1	28.4
17/09/2019	9.2	28.3
18/09/2019	6.4	28.3
19/09/2019	14.0	28.2
20/09/2019	42.6	28.3
21/09/2019	594.4	29.9
22/09/2019	15.8	29.8
23/09/2019	27.4	29.8
24/09/2019	18.9	29.8
25/09/2019	18.5	29.8
26/09/2019	20.5	29.9
27/09/2019	17.6	29.9
28/09/2019	21.8	29.8
29/09/2019	29.8	29.8
30/09/2019	28.5	29.9
Average	45.6	n/a
Criteria	50.0	

Date	24 Hr Averages	Running Average
	(µg/m ³)	
1/10/2019	38.5	29.9
2/10/2019	29.6	29.9
3/10/2019	27.3	29.9
4/10/2019	31.2	30.0
5/10/2019	40.9	30.1
6/10/2019	51.0	30.2
7/10/2019	57.1	30.3
8/10/2019	130.8	30.7
9/10/2019	19.9	30.7
10/10/2019	24.6	30.7
11/10/2019	28.7	30.7
12/10/2019	9.2	30.6
13/10/2019	7.3	30.6
14/10/2019	16.2	30.6
15/10/2019	30.2	30.7
16/10/2019	45.8	30.7
17/10/2019	69.3	30.9
18/10/2019	28.7	31.0
19/10/2019	74.8	31.1
20/10/2019	27.6	31.1
21/10/2019	33.9	31.2
22/10/2019	33.5	31.2
23/10/2019	45.4	31.3
24/10/2019	49.2	31.4
25/10/2019	321.9	32.2
26/10/2019	126.7	32.5
27/10/2019	33.7	32.5
28/10/2019	23.0	32.5
29/10/2019	70.7	32.6
30/10/2019	34.0	32.6
31/10/2019	28.7	32.6
Average	51.3	

Date	24-hour Average	Running Average
	(µg/m ³)	
1/11/2019	56.8	32.7
2/11/2019	245.3	33.1
3/11/2019	74.4	33.2
4/11/2019	11.7	33.2
5/11/2019	42.4	33.2
6/11/2019	16.4	33.2
7/11/2019	27.6	33.3
8/11/2019	140.9	33.6
9/11/2019	32.8	33.7
10/11/2019	23.7	33.7
11/11/2019	18.3	33.7
12/11/2019	225.0	34.3
13/11/2019	36.7	34.3
14/11/2019	30.2	34.3
15/11/2019	31.9	34.4
16/11/2019	29.2	34.4
17/11/2019	39.4	34.5
18/11/2019	40.3	34.5
19/11/2019	45.3	34.6
20/11/2019	124.3	34.8
21/11/2019	106.0	35.0
22/11/2019	297.3	35.4
23/11/2019	128.2	35.5
24/11/2019	65.8	35.6
25/11/2019	140.4	35.9
26/11/2019	531.3	37.4
27/11/2019	34.6	37.4
28/11/2019	47.9	37.5
29/11/2019	91.4	37.7
30/11/2019	129.2	38.1
Average	95.5	

Date	24-hour Average	Running Average
	(µg/m ³)	
1/12/2019	66.7	38.2
2/12/2019	88.1	38.3
3/12/2019	28.7	38.2
4/12/2019	37.6	38.2
5/12/2019	57.5	38.3
6/12/2019	44.9	38.3
7/12/2019	45.8	38.4
8/12/2019	74.0	38.5
9/12/2019	164.1	38.9
10/12/2019	68.5	39.0
11/12/2019	137.9	39.4
12/12/2019	68.0	39.5
13/12/2019	43.2	39.6
14/12/2019	48.4	39.5
15/12/2019	40.9	39.2
16/12/2019	76.6	39.3
17/12/2019	185.6	39.7
18/12/2019	129.2	40.0
19/12/2019	73.2	40.1
20/12/2019	199.6	40.5
21/12/2019	211.2	40.9
22/12/2019	232.8	41.4
23/12/2019	128.8	41.8
24/12/2019	122.1	42.1
25/12/2019	92.1	42.3
26/12/2019	45.9	42.3
27/12/2019	62.5	42.4
28/12/2019	77.9	42.5
29/12/2019	48.5	42.5
30/12/2019	60.4	42.4
31/12/2019	241.0	42.5
Average	96.8	

TOMINGLEY GOLD OPERATIONS ANNUAL REVIEW 2019 - TSP

TSP Criteria Exceedance

Date		5/01/2019	11/01/2019	17/01/2019	23/01/2019	29/01/2019	
TSP	Âµg/mÂ³	251.0	141.0	143.0	54.7	78.1	
Date		4/02/2019	10/02/2019	16/02/2019	22/02/2019		
TSP	mg/filter	124.0	150.0	127.0	83.1		
Date		28/02/2019	6/03/2019	12/03/2019	18/03/2019	24/03/2019	30/03/2019
TSP	Âµg/mÂ³	59.9	142.0	145.0	91.6	84.1	215.0
Date		5/04/2019	11/04/2019	17/04/2019	23/04/2019		
TSP	Âµg/mÂ³	44.5	68.8	41.2	48.4		
Date		29/04/2019	5/05/2019	11/05/2019	17/05/2019	23/05/2019	29/05/2019
TSP	Âµg/mÂ³	98.3	32.6	20.0	36.3	53.9	44.9
Date		4/06/2019	10/06/2019	16/06/2019	22/06/2019	28/06/2019	
TSP	Âµg/mÂ³	14.4	30.6	10.9	18.7	30.8	
Date		4/07/2019	10/07/2019	16/07/2019	22/07/2019	28/07/2019	
TSP	Âµg/mÂ³	47.4	21.8	36.9	42.8	32.7	
Date		3/08/2019	9/08/2019	15/08/2019	21/08/2019	27/08/2019	
TSP	Âµg/mÂ³	30.1	21.2	42.1	182.0	5.1	
Date		2/09/2019	8/09/2019	14/09/2019	20/09/2019	26/09/2019	
TSP	Âµg/mÂ³	71.4	66.6	64.5	156.0	67.4	
Date		2/10/2019	8/10/2019	14/10/2019	20/10/2019	26/10/2019	
TSP	Âµg/mÂ³	75.9	263.0	61.0	75.0	274.0	
Date		1/11/2019	7/11/2019	13/11/2019	19/11/2019	25/11/2019	
TSP	Âµg/mÂ³	183.0	97.0	113.0	123.0	311.0	
Date		1/12/2019	7/12/2019	13/12/2019	19/12/2019	25/12/2019	
TSP	Âµg/mÂ³	231.0	95.2	120.0	176.0	227.0	
Count > 4.0		5	5	5	5	3	1
Annual Average							89.96

TOMINGLEY GOLD OPERATIONS ANNUAL REVIEW 2019 - DD

Depositional Dust Criteria Exceedance

Site	Parameter	DDG1	DDG2	DDG3	DDG4	DDG5
Date		31/01/2019				
Ash Content	g/m ² .month	6.6	5.7	6.1	6.5	10.0
Combustible Matter	g/m ² .month	1.8	0.6	0.9	0.6	0.8
Total Insoluble Matter	g/m ² .month	8.4	6.3	7.0	7.1	10.8
Date		1/03/2019				
Ash Content	g/m ² .month	2.6	1.9	2.5	1.6	3.0
Combustible Matter	g/m ² .month	0.8	0.4	0.5	0.2	0.6
Total Insoluble Matter	g/m ² .month	3.4	2.3	3.0	1.8	3.6
Date		4/04/2019				
Ash Content	g/m ² .month	2.4	1.8	2.1	2.1	2.9
Combustible Matter	g/m ² .month	0.9	0.7	0.5	1.4	1.5
Total Insoluble Matter	g/m ² .month	3.3	2.5	2.6	3.5	4.4
Date		30/04/2019				
Ash Content	g/m ² .month	0.4	0.6	0.2	0.7	1.2
Combustible Matter	g/m ² .month	0.2	0.1	0.1	0.3	0.3
Total Insoluble Matter	g/m ² .month	0.6	0.7	0.3	1.0	1.5
Date		3/06/2019				
Ash Content	g/m ² .month	1.0	1.3	1.6	1.2	1.5
Combustible Matter	g/m ² .month	0.3	0.2	0.3	0.4	0.2
Total Insoluble Matter	g/m ² .month	1.3	1.5	1.9	1.6	1.7
Date		1/07/2019				
Ash Content	g/m ² .month	1.3	0.7	0.8	4.3	1.3
Combustible Matter	g/m ² .month	0.2	0.1	0.3	0.3	<0.1
Total Insoluble Matter	g/m ² .month	1.5	0.8	1.1	4.6	1.3
Date		31/07/2019				
Ash Content	g/m ² .month	0.3	0.5	0.5	0.7	0.4
Combustible Matter	g/m ² .month	<0.1	<0.1	<0.1	0.1	<0.1
Total Insoluble Matter	g/m ² .month	0.3	0.5	0.5	0.8	0.4
Date		2/09/2019				
Ash Content	g/m ² .month	0.7	0.6	1.4	1.4	0.8
Combustible Matter	g/m ² .month	0.2	0.1	0.6	2.7	1.9
Total Insoluble Matter	g/m ² .month	0.9	0.7	2.0	4.1	2.7
Date		30/09/2019				
Ash Content	g/m ² .month	3.4	3.1	2.6	3.5	2.8
Combustible Matter	g/m ² .month	0.5	0.4	0.4	0.7	0.3
Total Insoluble Matter	g/m ² .month	3.9	3.5	3.0	4.2	3.1
Date		31/10/2019				
Ash Content	g/m ² .month	4.8	3.7	3.9	4.3	3.8
Combustible Matter	g/m ² .month	0.6	0.5	0.5	0.6	0.5
Total Insoluble Matter	g/m ² .month	5.4	4.2	4.4	4.9	4.3
Date		3/12/2019				
Ash Content	g/m ² .month	4.2	2.6	3.3	3.1	2.9
Combustible Matter	g/m ² .month	0.6	0.4	0.5	0.5	0.4
Total Insoluble Matter	g/m ² .month	4.8	3.0	3.8	3.6	3.3
Date		6/01/2020				
Ash Content	g/m ² .month	4.8	1.1	3.7	12.2	2.0
Combustible Matter	g/m ² .month	0.8	0.3	0.3	0.6	0.2
Total Insoluble Matter	g/m ² .month	5.6	1.4	4.0	12.8	2.2
Maximum		8.4	6.3	7.0	12.8	10.8
Minimum		0.3	0.5	0.3	0.8	0.4
Annual Average		3.3	2.3	2.8	4.2	3.3