

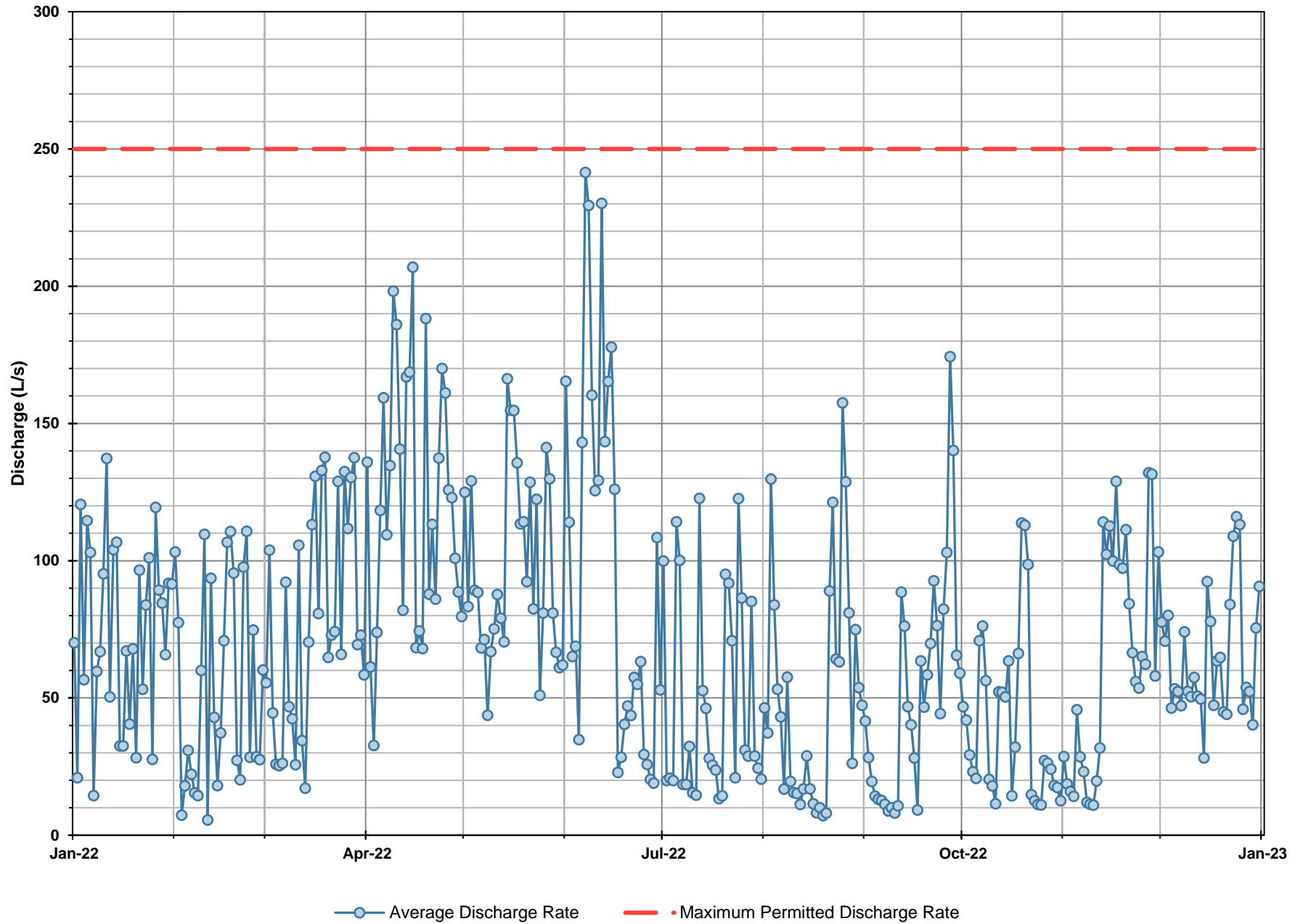
# APPENDIX


# E

## EFFLUENT MONITORING



Figure E-1 2022 Quarry Discharge



<b>Notation</b>	<b>Description</b>
mg/L	milligrams per Litre • values in mg/L unless otherwise noted
pH	provided in Scientific Units
Flow Rate	Daily discharge volume provided in Litres (L) Discharge rates provided in L/s
<b>ECA</b>	Environmental Compliance Approval for Industrial Sewage Works no. 1521-A4VJ4X, issued October 17, 2016.
	shading indicates an exceedance of the ECA Effluent Limit
blank	data not available
< value	parameter not detected above associated laboratory reported detection limit (RDL)

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
1-Jan-22	6,053,300	70.1	250	No
2-Jan-22	1,805,100	20.9	250	No
3-Jan-22	10,415,900	120.6	250	No
4-Jan-22	4,893,900	56.6	250	No
5-Jan-22	9,902,200	114.6	250	No
6-Jan-22	8,901,200	103.0	250	No
7-Jan-22	1,245,200	14.4	250	No
8-Jan-22	5,156,800	59.7	250	No
9-Jan-22	5,780,500	66.9	250	No
10-Jan-22	8,225,800	95.2	250	No
11-Jan-22	11,860,200	137.3	250	No
12-Jan-22	4,352,700	50.4	250	No
13-Jan-22	8,990,300	104.1	250	No
14-Jan-22	9,218,000	106.7	250	No
15-Jan-22	2,809,400	32.5	250	No
16-Jan-22	2,809,400	32.5	250	No
17-Jan-22	5,797,440	67.1	250	No
18-Jan-22	3,495,800	40.5	250	No
19-Jan-22	5,861,900	67.8	250	No
20-Jan-22	2,433,200	28.2	250	No
21-Jan-22	8,343,500	96.6	250	No
22-Jan-22	4,595,800	53.2	250	No
23-Jan-22	7,249,000	83.9	250	No
24-Jan-22	8,731,800	101.1	250	No
25-Jan-22	2,384,800	27.6	250	No
26-Jan-22	10,321,300	119.5	250	No
27-Jan-22	7,716,500	89.3	250	No
28-Jan-22	7,308,400	84.6	250	No
29-Jan-22	5,680,400	65.7	250	No
30-Jan-22	7,925,500	91.7	250	No
31-Jan-22	7,906,800	91.5	250	No
1-Feb-22	8,914,400	103.2	250	No
2-Feb-22	6,690,200	77.4	250	No
3-Feb-22	628,100	7.3	250	No
4-Feb-22	1,548,800	17.9	250	No
5-Feb-22	2,667,500	30.9	250	No
6-Feb-22	1,917,300	22.2	250	No
7-Feb-22	1,335,400	15.5	250	No
8-Feb-22	1,244,100	14.4	250	No
9-Feb-22	5,188,700	60.1	250	No
10-Feb-22	9,472,100	109.6	250	No
11-Feb-22	475,200	5.5	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
12-Feb-22	8,086,100	93.6	250	No
13-Feb-22	3,705,900	42.9	250	No
14-Feb-22	1,557,600	18.0	250	No
15-Feb-22	3,217,500	37.2	250	No
16-Feb-22	6,118,200	70.8	250	No
17-Feb-22	9,223,500	106.8	250	No
18-Feb-22	9,560,100	110.6	250	No
19-Feb-22	8,248,900	95.5	250	No
20-Feb-22	2,359,500	27.3	250	No
21-Feb-22	1,744,600	20.2	250	No
22-Feb-22	8,439,200	97.7	250	No
23-Feb-22	9,561,200	110.7	250	No
24-Feb-22	2,450,800	28.4	250	No
25-Feb-22	6,455,900	74.7	250	No
26-Feb-22	2,469,500	28.6	250	No
27-Feb-22	2,380,400	27.6	250	No
28-Feb-22	5,200,800	60.2	250	No
1-Mar-22	4,799,300	55.5	250	No
2-Mar-22	8,971,600	103.8	250	No
3-Mar-22	3,848,900	44.5	250	No
4-Mar-22	2,235,200	25.9	250	No
5-Mar-22	2,186,800	25.3	250	No
6-Mar-22	2,263,800	26.2	250	No
7-Mar-22	7,960,700	92.1	250	No
8-Mar-22	4,048,000	46.9	250	No
9-Mar-22	3,668,500	42.5	250	No
10-Mar-22	2,216,500	25.7	250	No
11-Mar-22	9,123,400	105.6	250	No
12-Mar-22	2,977,700	34.5	250	No
13-Mar-22	1,479,500	17.1	250	No
14-Mar-22	6,075,300	70.3	250	No
15-Mar-22	9,774,600	113.1	250	No
16-Mar-22	11,294,800	130.7	250	No
17-Mar-22	6,975,100	80.7	250	No
18-Mar-22	11,480,700	132.9	250	No
19-Mar-22	11,897,600	137.7	250	No
20-Mar-22	5,594,600	64.8	250	No
21-Mar-22	6,298,600	72.9	250	No
22-Mar-22	6,405,300	74.1	250	No
23-Mar-22	11,138,600	128.9	250	No
24-Mar-22	5,692,500	65.9	250	No
25-Mar-22	11,442,200	132.4	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
26-Mar-22	9,655,800	111.8	250	No
27-Mar-22	11,258,500	130.3	250	No
28-Mar-22	11,880,000	137.5	250	No
29-Mar-22	5,996,100	69.4	250	No
30-Mar-22	6,295,300	72.9	250	No
31-Mar-22	5,047,900	58.4	250	No
1-Apr-22	11,746,900	136.0	250	No
2-Apr-22	5,296,500	61.3	250	No
3-Apr-22	2,825,900	32.7	250	No
4-Apr-22	6,386,600	73.9	250	No
5-Apr-22	10,225,600	118.4	250	No
6-Apr-22	13,767,600	159.3	250	No
7-Apr-22	9,455,600	109.4	250	No
8-Apr-22	11,635,800	134.7	250	No
9-Apr-22	17,125,900	198.2	250	No
10-Apr-22	16,068,800	186.0	250	No
11-Apr-22	12,150,600	140.6	250	No
12-Apr-22	7,079,600	81.9	250	No
13-Apr-22	14,426,500	167.0	250	No
14-Apr-22	14,569,500	168.6	250	No
15-Apr-22	17,879,400	206.9	250	No
16-Apr-22	5,901,500	68.3	250	No
17-Apr-22	6,430,600	74.4	250	No
18-Apr-22	5,869,600	67.9	250	No
19-Apr-22	16,264,600	188.2	250	No
20-Apr-22	7,584,500	87.8	250	No
21-Apr-22	9,784,500	113.2	250	No
22-Apr-22	7,431,600	86.0	250	No
23-Apr-22	11,867,900	137.4	250	No
24-Apr-22	14,691,600	170.0	250	No
25-Apr-22	13,924,900	161.2	250	No
26-Apr-22	10,863,600	125.7	250	No
27-Apr-22	10,623,800	123.0	250	No
28-Apr-22	8,714,200	100.9	250	No
29-Apr-22	7,653,800	88.6	250	No
30-Apr-22	6,884,900	79.7	250	No
1-May-22	10,796,500	125.0	250	No
2-May-22	7,198,400	83.3	250	No
3-May-22	11,149,600	129.0	250	No
4-May-22	7,707,700	89.2	250	No
5-May-22	7,640,600	88.4	250	No
6-May-22	5,894,900	68.2	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
7-May-22	6,155,600	71.2	250	No
8-May-22	3,773,000	43.7	250	No
9-May-22	5,777,200	66.9	250	No
10-May-22	6,491,100	75.1	250	No
11-May-22	7,577,900	87.7	250	No
12-May-22	6,833,200	79.1	250	No
13-May-22	6,081,900	70.4	250	No
14-May-22	14,371,500	166.3	250	No
15-May-22	13,374,900	154.8	250	No
16-May-22	13,365,000	154.7	250	No
17-May-22	11,723,800	135.7	250	No
18-May-22	9,799,900	113.4	250	No
19-May-22	9,865,900	114.2	250	No
20-May-22	7,981,600	92.4	250	No
21-May-22	11,104,500	128.5	250	No
22-May-22	7,125,800	82.5	250	No
23-May-22	10,573,200	122.4	250	No
24-May-22	4,400,000	50.9	250	No
25-May-22	6,994,900	81.0	250	No
26-May-22	12,202,300	141.2	250	No
27-May-22	11,215,600	129.8	250	No
28-May-22	6,994,900	81.0	250	No
29-May-22	5,758,500	66.6	250	No
30-May-22	5,275,600	61.1	250	No
31-May-22	5,355,900	62.0	250	No
1-Jun-22	14,284,600	165.3	250	No
2-Jun-22	9,847,200	114.0	250	No
3-Jun-22	5,625,400	65.1	250	No
4-Jun-22	5,948,800	68.9	250	No
5-Jun-22	3,009,600	34.8	250	No
6-Jun-22	12,361,800	143.1	250	No
7-Jun-22	20,858,200	241.4	250	No
8-Jun-22	19,823,000	229.4	250	No
9-Jun-22	13,847,900	160.3	250	No
10-Jun-22	10,841,600	125.5	250	No
11-Jun-22	11,162,800	129.2	250	No
12-Jun-22	19,885,000	230.2	250	No
13-Jun-22	12,389,300	143.4	250	No
14-Jun-22	14,280,200	165.3	250	No
15-Jun-22	15,361,500	177.8	250	No
16-Jun-22	10,885,600	126.0	250	No
17-Jun-22	1,976,700	22.9	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
18-Jun-22	2,451,900	28.4	250	No
19-Jun-22	3,492,500	40.4	250	No
20-Jun-22	4,064,500	47.0	250	No
21-Jun-22	3,768,600	43.6	250	No
22-Jun-22	4,963,200	57.4	250	No
23-Jun-22	4,747,600	54.9	250	No
24-Jun-22	5,461,500	63.2	250	No
25-Jun-22	2,536,600	29.4	250	No
26-Jun-22	2,223,100	25.7	250	No
27-Jun-22	1,755,600	20.3	250	No
28-Jun-22	1,637,900	19.0	250	No
29-Jun-22	9,367,600	108.4	250	No
30-Jun-22	4,570,500	52.9	250	No
1-Jul-22	8,630,600	99.9	250	No
2-Jul-22	1,719,300	19.9	250	No
3-Jul-22	1,795,200	20.8	250	No
4-Jul-22	1,719,300	19.9	250	No
5-Jul-22	9,865,900	114.2	250	No
6-Jul-22	8,648,200	100.1	250	No
7-Jul-22	1,596,100	18.5	250	No
8-Jul-22	1,596,100	18.5	250	No
9-Jul-22	2,795,100	32.4	250	No
10-Jul-22	1,329,900	15.4	250	No
11-Jul-22	1,262,800	14.6	250	No
12-Jul-22	10,601,800	122.7	250	No
13-Jul-22	4,551,800	52.7	250	No
14-Jul-22	3,995,200	46.2	250	No
15-Jul-22	2,423,300	28.0	250	No
16-Jul-22	2,204,400	25.5	250	No
17-Jul-22	2,048,200	23.7	250	No
18-Jul-22	1,149,500	13.3	250	No
19-Jul-22	1,235,300	14.3	250	No
20-Jul-22	8,215,900	95.1	250	No
21-Jul-22	7,934,300	91.8	250	No
22-Jul-22	6,119,300	70.8	250	No
23-Jul-22	1,809,500	20.9	250	No
24-Jul-22	10,597,400	122.7	250	No
25-Jul-22	7,467,900	86.4	250	No
26-Jul-22	2,679,600	31.0	250	No
27-Jul-22	2,489,300	28.8	250	No
28-Jul-22	7,357,900	85.2	250	No
29-Jul-22	2,489,300	28.8	250	No



**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
30-Jul-22	2,106,500	24.4	250	No
31-Jul-22	1,767,700	20.5	250	No
1-Aug-22	4,009,500	46.4	250	No
2-Aug-22	3,218,600	37.3	250	No
3-Aug-22	11,207,900	129.7	250	No
4-Aug-22	7,247,900	83.9	250	No
5-Aug-22	4,590,300	53.1	250	No
6-Aug-22	3,724,600	43.1	250	No
7-Aug-22	1,453,100	16.8	250	No
8-Aug-22	4,973,100	57.6	250	No
9-Aug-22	1,689,600	19.6	250	No
10-Aug-22	1,337,600	15.5	250	No
11-Aug-22	1,307,900	15.1	250	No
12-Aug-22	969,100	11.2	250	No
13-Aug-22	1,454,200	16.8	250	No
14-Aug-22	2,495,900	28.9	250	No
15-Aug-22	1,457,500	16.9	250	No
16-Aug-22	985,600	11.4	250	No
17-Aug-22	701,800	8.1	250	No
18-Aug-22	867,900	10.0	250	No
19-Aug-22	614,900	7.1	250	No
20-Aug-22	699,600	8.1	250	No
21-Aug-22	7,687,900	89.0	250	No
22-Aug-22	10,481,900	121.3	250	No
23-Aug-22	5,540,700	64.1	250	No
24-Aug-22	5,459,300	63.2	250	No
25-Aug-22	13,605,900	157.5	250	No
26-Aug-22	11,121,000	128.7	250	No
27-Aug-22	6,999,300	81.0	250	No
28-Aug-22	2,261,600	26.2	250	No
29-Aug-22	6,472,400	74.9	250	No
30-Aug-22	4,644,200	53.8	250	No
31-Aug-22	4,086,500	47.3	250	No
1-Sep-22	3,588,200	41.5	250	No
2-Sep-22	2,445,300	28.3	250	No
3-Sep-22	1,689,600	19.6	250	No
4-Sep-22	1,233,100	14.3	250	No
5-Sep-22	1,125,300	13.0	250	No
6-Sep-22	1,087,900	12.6	250	No
7-Sep-22	975,700	11.3	250	No
8-Sep-22	764,500	8.8	250	No
9-Sep-22	867,900	10.0	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
10-Sep-22	695,200	8.0	250	No
11-Sep-22	921,800	10.7	250	No
12-Sep-22	7,651,600	88.6	250	No
13-Sep-22	6,581,300	76.2	250	No
14-Sep-22	4,048,000	46.9	250	No
15-Sep-22	3,474,900	40.2	250	No
16-Sep-22	2,426,600	28.1	250	No
17-Sep-22	788,700	9.1	250	No
18-Sep-22	5,487,900	63.5	250	No
19-Sep-22	4,032,600	46.7	250	No
20-Sep-22	5,047,900	58.4	250	No
21-Sep-22	6,034,600	69.8	250	No
22-Sep-22	8,004,700	92.6	250	No
23-Sep-22	6,595,600	76.3	250	No
24-Sep-22	3,826,900	44.3	250	No
25-Sep-22	7,114,800	82.3	250	No
26-Sep-22	8,896,800	103.0	250	No
27-Sep-22	15,061,200	174.3	250	No
28-Sep-22	12,107,700	140.1	250	No
29-Sep-22	5,662,800	65.5	250	No
30-Sep-22	5,095,200	59.0	250	No
1-Oct-22	4,048,000	46.9	250	No
2-Oct-22	3,620,100	41.9	250	No
3-Oct-22	2,525,600	29.2	250	No
4-Oct-22	2,000,900	23.2	250	No
5-Oct-22	1,785,300	20.7	250	No
6-Oct-22	6,118,200	70.8	250	No
7-Oct-22	6,584,600	76.2	250	No
8-Oct-22	4,863,100	56.3	250	No
9-Oct-22	1,757,800	20.3	250	No
10-Oct-22	1,553,200	18.0	250	No
11-Oct-22	985,600	11.4	250	No
12-Oct-22	4,512,200	52.2	250	No
13-Oct-22	4,497,900	52.1	250	No
14-Oct-22	4,351,600	50.4	250	No
15-Oct-22	5,484,600	63.5	250	No
16-Oct-22	1,235,300	14.3	250	No
17-Oct-22	2,774,200	32.1	250	No
18-Oct-22	5,721,100	66.2	250	No
19-Oct-22	9,829,600	113.8	250	No
20-Oct-22	9,751,500	112.9	250	No
21-Oct-22	8,519,500	98.6	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
22-Oct-22	1,272,700	14.7	250	No
23-Oct-22	1,084,600	12.6	250	No
24-Oct-22	970,200	11.2	250	No
25-Oct-22	954,800	11.1	250	No
26-Oct-22	2,349,600	27.2	250	No
27-Oct-22	2,264,900	26.2	250	No
28-Oct-22	2,076,800	24.0	250	No
29-Oct-22	1,558,700	18.0	250	No
30-Oct-22	1,501,500	17.4	250	No
31-Oct-22	1,084,600	12.6	250	No
1-Nov-22	2,475,000	28.6	250	No
2-Nov-22	1,612,600	18.7	250	No
3-Nov-22	1,378,300	16.0	250	No
4-Nov-22	1,222,100	14.1	250	No
5-Nov-22	3,947,900	45.7	250	No
6-Nov-22	2,469,500	28.6	250	No
7-Nov-22	2,000,900	23.2	250	No
8-Nov-22	1,036,200	12.0	250	No
9-Nov-22	976,800	11.3	250	No
10-Nov-22	948,200	11.0	250	No
11-Nov-22	1,703,900	19.7	250	No
12-Nov-22	2,746,700	31.8	250	No
13-Nov-22	9,859,300	114.1	250	No
14-Nov-22	8,838,500	102.3	250	No
15-Nov-22	9,731,700	112.6	250	No
16-Nov-22	8,629,500	99.9	250	No
17-Nov-22	11,135,300	128.9	250	No
18-Nov-22	8,515,100	98.6	250	No
19-Nov-22	8,400,700	97.2	250	No
20-Nov-22	9,619,500	111.3	250	No
21-Nov-22	7,285,300	84.3	250	No
22-Nov-22	5,739,800	66.4	250	No
23-Nov-22	4,836,700	56.0	250	No
24-Nov-22	4,627,700	53.6	250	No
25-Nov-22	5,623,200	65.1	250	No
26-Nov-22	5,385,600	62.3	250	No
27-Nov-22	11,405,900	132.0	250	No
28-Nov-22	11,361,900	131.5	250	No
29-Nov-22	5,008,300	58.0	250	No
30-Nov-22	8,914,400	103.2	250	No
1-Dec-22	6,704,500	77.6	250	No
2-Dec-22	6,107,200	70.7	250	No

**Table E-1 2022 Quarry Discharge Summary Table**

DATE	Daily Discharge Volume	Average Discharge Rate	Maximum Permitted Discharge Rate	Maximum Discharge Rate Exceeded?
3-Dec-22	6,917,900	80.1	250	No
4-Dec-22	4,000,700	46.3	250	No
5-Dec-22	4,607,900	53.3	250	No
6-Dec-22	4,523,200	52.4	250	No
7-Dec-22	4,076,600	47.2	250	No
8-Dec-22	6,397,600	74.0	250	No
9-Dec-22	4,529,800	52.4	250	No
10-Dec-22	4,360,400	50.5	250	No
11-Dec-22	4,967,600	57.5	250	No
12-Dec-22	4,371,400	50.6	250	No
13-Dec-22	4,285,600	49.6	250	No
14-Dec-22	2,426,600	28.1	250	No
15-Dec-22	7,982,700	92.4	250	No
16-Dec-22	6,730,900	77.9	250	No
17-Dec-22	4,086,500	47.3	250	No
18-Dec-22	5,484,600	63.5	250	No
19-Dec-22	5,593,500	64.7	250	No
20-Dec-22	3,877,500	44.9	250	No
21-Dec-22	3,801,600	44.0	250	No
22-Dec-22	7,260,000	84.0	250	No
23-Dec-22	9,414,900	109.0	250	No
24-Dec-22	10,027,600	116.1	250	No
25-Dec-22	9,776,800	113.2	250	No
26-Dec-22	3,962,200	45.9	250	No
27-Dec-22	4,651,900	53.8	250	No
28-Dec-22	4,523,200	52.4	250	No
29-Dec-22	3,478,200	40.3	250	No
30-Dec-22	6,524,100	75.5	250	No
31-Dec-22	7,829,800	90.6	250	No



**Table E-2 2022 Monthly Quarry Discharge Chemical Results**

Date	Field Parameters			General Parameters						Major Ions				Nutrients and Organic Indicators						
	pH (su)	EC (µS/cm)	T (°C)	pH (su)	EC (µS/cm)	TSS	TDS	Hardness	Turbidity	Alkalinity	Chloride	Sulphate	Sodium	Potassium	Nitrate	Nitrite	Ammonia	Un-ionized Ammonia	T P	Phenols
											Cl	SO <sub>4</sub>	Na	K	NO <sub>3</sub>	NO <sub>2</sub>	NH <sub>3</sub>		P	
PWQO	6.5 - 8.5	nc	nc	6.5 - 8.5	nc	nc	nc	nc	a	b	nc	nc	nc	nc	nc	nc	nc	0.02 c	0.03 i d	0.001
ECA Effluent Limit	6.0 - 9.5	nc	nc	nc	nc	25	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
20-Jan-22	7.9		2.5	8.01	800	<10	405	340	1.3	260	95	7.7	26	2.9	1.5	<0.01	0.082	0.001	<0.004	<0.001
28-Feb-22	8.2	851	2.2	8.02	660	<10	340	300	0.5	230	72	6.1	24	2.2	2.64	<0.01	0.11	0.002	<0.004	<0.001
24-Mar-22	8.2		2.1	8.22	570	61	270	250	52	200	61	6.3	19	1.9	1.72	<0.01	0.094	0.001	0.009	<0.001
28-Apr-22	7.8		10.2	7.95	770	<10	450	260	0.2	200	110	25	52	2.3	<0.1	<0.01	<0.05	<0.001	0.006	<0.001
26-May-22	7.7	846	15.3	10.6	860	<10	475	330	0.6	240	120	8.5	31	3.9	1.69	0.023	0.19	0.003	<0.004	<0.001
2-Jun-22	7.8		15.2	8.07	870	<10	460	350	1.6	240	130	9	31	4.4	1.81	0.036	0.18	0.003	<0.004	<0.001
28-Jul-22	8.2		18.7	8.14	1000	<10	620	370	1.1	210	170	8.1	40	5.7	2.08	0.044	0.16	0.009	<0.004	<0.001
31-Aug-22	7.5	509	20.1	11.3	960	<10	530	400	1.2	210	170	8.8	41	5.9	1.92	0.02	0.16	0.002	0.011	<0.001
15-Sep-22	7.7		14.7	8.02	980	<10	555	430	0.8	220	160	8.1	43	5.8	1.44	0.028	0.099	0.001	<0.004	<0.001
28-Oct-22	7.7	759	8.8	7.98	960	<10	495	400	1	230	160	8.9	38	5.1	1.99	0.013	0.13	0.001	0.005	<0.001
23-Nov-22	7.8	636	5.3	7.98	720	<10	335	310	1.2	260	73	9.1	15	1.9	1.36	<0.01	0.079	0.001	0.006	<0.001
21-Dec-22	7.8	479	3.3	7.99	910	<10	400	360	3.1	250	130	7.7	32	3.6	1.52	<0.01	0.16	0.001	0.004	<0.001

**Table E-2 2022 Monthly Quarry Discharge Chemical Results**

Date	Total Metals										Oil & Grease			
	Boron	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Nickel	Silicon	Silver	Zinc	Animal / Vegetable	Mineral	Total
	<b>B</b>	<b>Cd</b>	<b>Cr</b>	<b>Co</b>	<b>Cu</b>	<b>Fe</b>	<b>Pb</b>	<b>Ni</b>	<b>Si</b>	<b>Ag</b>	<b>Zn</b>			
PWQO	0.2	0.0005 <i>i</i>	0.0089	0.0009	0.005 <i>i</i>	0.3	0.005 <i>i</i>	0.025	nc	0.0001	0.03	e	e	e
ECA Effluent Limit	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	15
20-Jan-22	0.035	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	0.0014	2	<0.00009	<0.005	<0.5	<0.5	<0.5
28-Feb-22	0.023	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.5	<0.00009	<0.005	<0.5	<0.5	<0.5
24-Mar-22	0.02	<0.00009	<0.005	<0.0005	<0.0009	0.14	0.00054	<0.001	1.4	<0.00009	<0.005	<0.5	<0.5	<0.5
28-Apr-22	0.019	<0.00009	<0.005	<0.005	<0.0005	0.32	<0.0005	<0.0005	8.4	<0.00009	0.0063	<0.5	<0.5	<0.5
26-May-22	0.053	<0.00009	<0.005	<0.0005	<0.0009	<0.1	<0.0005	<0.001	1.5	<0.00009	<0.005	<0.5	<0.5	<0.5
2-Jun-22	0.053	<0.00009	<0.005	<0.0005	0.0018	<0.1	<0.0005	<0.001	1.4	<0.00009	<0.005	<0.5	<0.5	<0.5
28-Jul-22	0.074	<0.00009	<0.005	<0.0005	<0.0009	0.13	<0.0005	<0.001	1.3	<0.00009	<0.005	<0.5	<0.5	<0.5
31-Aug-22	0.077	<0.00009	<0.005	<0.0005	<0.0009	0.18	<0.0005	<0.001	1.6	<0.00009	<0.005	<0.5	<0.5	<0.5
15-Sep-22	0.077	<0.00009	<0.005	<0.0005	0.0014	0.18	<0.0005	<0.001	1.7	<0.00009	<0.005	<0.5	<0.5	<0.5
28-Oct-22	0.065	<0.00009	<0.005	<0.0005	<0.0009	0.2	<0.0005	<0.001	1.7	<0.00009	<0.005	0.7	<0.5	0.7
23-Nov-22	0.027	<0.00009	<0.005	<0.0005	<0.0009	0.11	<0.0005	<0.001	1.8	<0.00009	<0.005	<0.5	<0.5	<0.5
21-Dec-22	0.05	<0.00009	<0.005	0.00053	0.0019	0.43	<0.0005	0.0019	2	<0.00009	0.006	<0.5	<0.5	<0.5