



# **ANNUAL PUBLIC DISCHARGES REPORT**

**YEAR 2022**

**Borden Gold**  
Highway 101 East  
Chapleau, Ontario, P0M 1K0

June 1<sup>st</sup>, 2023

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**Borden Mine  
Effluent (BME)  
Final Discharge**

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### BME

| Concentrations |           |                   |                          |                       |                      |                    |                      |                    |
|----------------|-----------|-------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|
| Collect Date   | Flow Rate | Lab pH<br>pH unit | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |

### Quarter 1

#### January

**No. Days Discharged**

**31**

|           |          |      |     |       |       |        |       |       |
|-----------|----------|------|-----|-------|-------|--------|-------|-------|
| 4-Jan-22  | 272.1667 | 7.15 | 3   |       |       |        |       |       |
| 5-Jan-22  | 334.4658 | 7.38 | 5   | 0.001 | 0.007 | 0.0008 | 0.02  | 0.024 |
| 7-Jan-22  | 239.8309 | 7.15 | 2.7 |       |       |        |       |       |
| 10-Jan-22 | 254.7202 | 7.09 | 4.3 |       |       |        |       |       |
| 12-Jan-22 | 732.1308 | 7.15 | 1   | 0.001 | 0.005 | 0.001  | 0.021 | 0.022 |
| 14-Jan-22 | 529.39   | 7    | 5   |       |       |        |       |       |
| 17-Jan-22 | 302.36   | 7.03 | 4   |       |       |        |       |       |
| 19-Jan-22 | 308.12   | 7.14 | 3.3 | 0.001 | 0.004 | 0.0008 | 0.02  | 0.021 |
| 21-Jan-22 | 199.17   | 7.31 | 3.7 |       |       |        |       |       |
| 24-Jan-22 | 156.66   | 7    | 3.3 |       |       |        |       |       |
| 26-Jan-22 | 595.31   | 7.22 | 3.7 | 0.001 | 0.004 | 0.0007 | 0.02  | 0.018 |
| 28-Jan-22 | 324.4    | 7.13 | 5.3 |       |       |        |       |       |
| 31-Jan-22 | 239.7    | 7.6  | 5.7 |       |       |        |       |       |

**Average**

**345**

**7.18**

**3.85**

**0.001**

**0.005**

**0.0008**

**0.020**

**0.021**

**Minimum**

**157**

**7.00**

**1.00**

**0.001**

**0.004**

**0.0007**

**0.020**

**0.018**

**Maximum**

**732**

**7.60**

**5.70**

**0.001**

**0.007**

**0.0010**

**0.021**

**0.024**

#### February

**No. Days Discharged**

**28**

|           |        |      |      |       |       |        |       |       |
|-----------|--------|------|------|-------|-------|--------|-------|-------|
| 7-Feb-22  | 242.91 | 6.82 | 12.7 |       |       |        |       |       |
| 9-Feb-22  | 546.5  | 6.77 | 4.7  | 0.001 | 0.004 | 0.0005 | 0.013 | 0.016 |
| 11-Feb-22 | 719.05 | 6.9  | 3.3  |       |       |        |       |       |
| 14-Feb-22 | 239.66 | 6.87 | 4.3  |       |       |        |       |       |
| 16-Feb-22 | 239.79 | 7.02 | 3.5  | 0.001 | 0.003 | 0.0006 | 0.014 | 0.014 |
| 18-Feb-22 | 197.51 | 6.81 | 3.3  |       |       |        |       |       |
| 22-Feb-22 | 245.52 | 6.92 | 6    |       |       |        |       |       |
| 23-Feb-22 | 349.84 | 7.07 | 6.3  | 0.001 | 0.003 | 0.0004 | 0.013 | 0.011 |
| 25-Feb-22 | 344.78 | 7.15 | 3.7  |       |       |        |       |       |
| 28-Feb-22 | 351.43 | 7    | 3.3  |       |       |        |       |       |

**Average**

**348**

**6.93**

**5.11**

**0.001**

**0.003**

**0.0005**

**0.013**

**0.014**

**Minimum**

**198**

**6.77**

**3.30**

**0.001**

**0.003**

**0.0004**

**0.013**

**0.011**

**Maximum**

**719**

**7.15**

**12.70**

**0.001**

**0.004**

**0.0006**

**0.014**

**0.016**

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### BME

| Concentrations   |             |                            |                          |                       |                      |                    |                      |                    |  |
|------------------|-------------|----------------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|--|
| Collect Date     | Flow Rate   | Lab pH<br>pH unit          | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |  |
| <b>March</b>     |             | <b>No. Days Discharged</b> | <b>25</b>                |                       |                      |                    |                      |                    |  |
| 2-Mar-22         | 259.38      | 6.88                       | 3                        | 0.001                 | 0.002                | 0.0004             | 0.018                | 0.021              |  |
| 4-Mar-22         | 247.04      | 6.96                       | 4.3                      |                       |                      |                    |                      |                    |  |
| 7-Mar-22         | 328.25      | 6.89                       | 3.7                      |                       |                      |                    |                      |                    |  |
| 9-Mar-22         | 244.68      | 7.06                       | 2                        | 0.001                 | 0.004                | 0.0004             | 0.02                 | 0.019              |  |
| 11-Mar-22        | 239.76      | 7.04                       | 3                        |                       |                      |                    |                      |                    |  |
| 14-Mar-22        | 231.9       | 7.04                       | 1.3                      |                       |                      |                    |                      |                    |  |
| 16-Mar-22        | 239.68      | 6.87                       | 1                        | 0.001                 | 0.004                | 0.0004             | 0.023                | 0.02               |  |
| 18-Mar-22        |             | 6.96                       | 2.7                      |                       |                      |                    |                      |                    |  |
| 21-Mar-22        |             | 6.97                       | 0.67                     |                       |                      |                    |                      |                    |  |
| 23-Mar-22        |             | 6.87                       | 2                        | 0.001                 | 0.004                | 0.0006             | 0.017                | 0.02               |  |
| 25-Mar-22        |             | 7.04                       | 1.3                      |                       |                      |                    |                      |                    |  |
| 28-Mar-22        |             | 6.83                       | 1.7                      |                       |                      |                    |                      |                    |  |
| 30-Mar-22        | 314.32      | 6.84                       | 1.5                      | 0.001                 | 0.004                | 0.0006             | 0.02                 | 0.019              |  |
| <b>Average</b>   | <b>263</b>  | <b>6.94</b>                | <b>2.17</b>              | <b>0.001</b>          | <b>0.004</b>         | <b>0.0005</b>      | <b>0.020</b>         | <b>0.020</b>       |  |
| <b>Minimum</b>   | <b>232</b>  | <b>6.83</b>                | <b>0.67</b>              | <b>0.001</b>          | <b>0.002</b>         | <b>0.0004</b>      | <b>0.017</b>         | <b>0.019</b>       |  |
| <b>Maximum</b>   | <b>328</b>  | <b>7.06</b>                | <b>4.30</b>              | <b>0.001</b>          | <b>0.004</b>         | <b>0.0006</b>      | <b>0.023</b>         | <b>0.021</b>       |  |
| <b>Quarter 2</b> |             |                            |                          |                       |                      |                    |                      |                    |  |
| <b>April</b>     |             | <b>No. Days Discharged</b> | <b>20</b>                |                       |                      |                    |                      |                    |  |
| 4-Apr-22         | 259.7096    | 7.02                       | 3.7                      |                       |                      |                    |                      |                    |  |
| 6-Apr-22         | 359.8627    | 7                          | 2.3                      | 0.001                 | 0.006                | 0.0007             | 0.023                | 0.022              |  |
| 8-Apr-22         | 1434.26     | 7.14                       | 4                        |                       |                      |                    |                      |                    |  |
| 19-Apr-22        | 251.6412    | 6.86                       | 29                       |                       |                      |                    |                      |                    |  |
| 20-Apr-22        | 598.1526    | 7.01                       | 2.7                      | 0.001                 | 0.006                | 0.0007             | 0.014                | 0.019              |  |
| 22-Apr-22        | 719.5976    | 7.06                       | 3                        |                       |                      |                    |                      |                    |  |
| 25-Apr-22        | 719.14      | 7.08                       | 2.7                      |                       |                      |                    |                      |                    |  |
| 27-Apr-22        | 719.53      | 7.29                       | 2.5                      | 0.001                 | 0.005                | 0.0006             | 0.013                | 0.016              |  |
| 29-Apr-22        | 719.58      | 7.09                       | 3                        |                       |                      |                    |                      |                    |  |
| <b>Average</b>   | <b>642</b>  | <b>7.06</b>                | <b>5.88</b>              | <b>0.001</b>          | <b>0.006</b>         | <b>0.0007</b>      | <b>0.017</b>         | <b>0.019</b>       |  |
| <b>Minimum</b>   | <b>252</b>  | <b>6.86</b>                | <b>2.30</b>              | <b>0.001</b>          | <b>0.005</b>         | <b>0.0006</b>      | <b>0.013</b>         | <b>0.016</b>       |  |
| <b>Maximum</b>   | <b>1434</b> | <b>7.29</b>                | <b>29.00</b>             | <b>0.001</b>          | <b>0.006</b>         | <b>0.0007</b>      | <b>0.023</b>         | <b>0.022</b>       |  |

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### BME

| Concentrations |                            |                   |                          |                       |                      |                    |                      |                    |              |
|----------------|----------------------------|-------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|--------------|
| Collect Date   | Flow Rate                  | Lab pH<br>pH unit | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |              |
| <b>May</b>     | <b>No. Days Discharged</b> | <b>31</b>         |                          |                       |                      |                    |                      |                    |              |
|                | 2-May-22                   | 686.3             | 7.21                     | 5                     |                      |                    |                      |                    |              |
|                | 4-May-22                   | 719.54            | 7.37                     | 3.7                   | 0.001                | 0.004              | 0.0006               | 0.013              | 0.012        |
|                | 6-May-22                   | 719.55            | 7.29                     | 3.7                   |                      |                    |                      |                    |              |
|                | 9-May-22                   | 718.48            | 7.24                     | 2                     |                      |                    |                      |                    |              |
|                | 11-May-22                  | 719.24            | 7.22                     | 2                     | 0.001                | 0.005              | 0.0005               | 0.016              | 0.015        |
|                | 13-May-22                  | 717.3             | 7.29                     | 3.3                   |                      |                    |                      |                    |              |
|                | 16-May-22                  | 346.47            | 7.3                      | 3                     |                      |                    |                      |                    |              |
|                | 18-May-22                  | 501.51            | 7.18                     | 3.3                   | 0.001                | 0.005              | 0.0004               | 0.02               | 0.022        |
|                | 20-May-22                  | 76.11             | 7.14                     | 2.7                   |                      |                    |                      |                    |              |
|                | 24-May-22                  | 1374.75           | 7.23                     | 4                     |                      |                    |                      |                    |              |
|                | 25-May-22                  | 719.44            | 7.34                     | 2.7                   | 0.002                | 0.006              | 0.0005               | 0.017              | 0.017        |
|                | 27-May-22                  | 719.43            | 7.08                     | 2.3                   |                      |                    |                      |                    |              |
|                | 30-May-22                  | 719.44            | 6.81                     | 2.3                   |                      |                    |                      |                    |              |
| <b>Average</b> |                            | <b>672</b>        | <b>7.21</b>              | <b>3.08</b>           | <b>0.001</b>         | <b>0.005</b>       | <b>0.0005</b>        | <b>0.017</b>       | <b>0.017</b> |
| <b>Minimum</b> |                            | <b>76</b>         | <b>6.81</b>              | <b>2.00</b>           | <b>0.001</b>         | <b>0.004</b>       | <b>0.0004</b>        | <b>0.013</b>       | <b>0.012</b> |
| <b>Maximum</b> |                            | <b>1375</b>       | <b>7.37</b>              | <b>5.00</b>           | <b>0.002</b>         | <b>0.006</b>       | <b>0.0006</b>        | <b>0.020</b>       | <b>0.022</b> |
| <b>June</b>    | <b>No. Days Discharged</b> | <b>23</b>         |                          |                       |                      |                    |                      |                    |              |
|                | 1-Jun-22                   | 321.85            | 7.49                     | 0.67                  | 0.001                | 0.005              | 0.0001               | 0.019              | 0.02         |
|                | 3-Jun-22                   | 328.24            | 7.03                     | 1                     |                      |                    |                      |                    |              |
|                | 6-Jun-22                   | 455.32            | 6.96                     | 1.3                   |                      |                    |                      |                    |              |
|                | 8-Jun-22                   | 342.77            | 6.94                     | 2.3                   | 0.002                | 0.006              | 0.0004               | 0.02               | 0.024        |
|                | 10-Jun-22                  | 373.19            | 7.02                     | 1.7                   |                      |                    |                      |                    |              |
|                | 13-Jun-22                  | 285.71            | 7.02                     | 1.3                   |                      |                    |                      |                    |              |
|                | 15-Jun-22                  | 562.71            | 7.44                     | 11.7                  | 0.002                | 0.012              | 0.0011               | 0.021              | 0.022        |
|                | 17-Jun-22                  | 719.45            | 7.32                     | 3.7                   |                      |                    |                      |                    |              |
|                | 20-Jun-22                  | 76.11             | 6.96                     | 3.3                   |                      |                    |                      |                    |              |
|                | 22-Jun-22                  | 18.28             | 7.02                     | 5                     | 0.001                | 0.005              | 0.0007               | 0.018              | 0.02         |
|                | 28-Jun-22                  | 589.2             | 7.2                      | 3.5                   | 0.002                | 0.005              | 0.0004               | 0.02               | 0.02         |
|                | 29-Jun-22                  | 956.46            | 7.13                     | 4.3                   |                      |                    |                      |                    |              |
|                | 30-Jun-22                  | 959.3             | 7.12                     | 4.3                   |                      |                    |                      |                    |              |
| <b>Average</b> |                            | <b>461</b>        | <b>7.13</b>              | <b>3.39</b>           | <b>0.002</b>         | <b>0.007</b>       | <b>0.0005</b>        | <b>0.020</b>       | <b>0.021</b> |
| <b>Minimum</b> |                            | <b>18</b>         | <b>6.94</b>              | <b>0.67</b>           | <b>0.001</b>         | <b>0.005</b>       | <b>0.0001</b>        | <b>0.018</b>       | <b>0.020</b> |
| <b>Maximum</b> |                            | <b>959</b>        | <b>7.49</b>              | <b>11.70</b>          | <b>0.002</b>         | <b>0.012</b>       | <b>0.0011</b>        | <b>0.021</b>       | <b>0.024</b> |

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### BME

| Concentrations |           |                   |                          |                       |                      |                    |                      |                    |  |
|----------------|-----------|-------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|--|
| Collect Date   | Flow Rate | Lab pH<br>pH unit | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |  |

#### Quarter 3

##### July

**No. Days Discharged**

**27**

|                |            |             |             |              |              |               |              |              |  |
|----------------|------------|-------------|-------------|--------------|--------------|---------------|--------------|--------------|--|
| 5-Jul-22       | 946.76     | 7.2         | 4.3         |              |              |               |              |              |  |
| 6-Jul-22       | 729.78     | 7.08        | 1.7         | 0.001        | 0.006        | 0.0005        | 0.021        | 0.022        |  |
| 8-Jul-22       | 345.34     | 6.91        | 2.7         |              |              |               |              |              |  |
| 11-Jul-22      | 360.65     | 6.81        | 1.3         | 0.001        | 0.007        | 0.0004        | 0.02         | 0.025        |  |
| 12-Jul-22      | 362.67     | 6.9         | 1.3         |              |              |               |              |              |  |
| 15-Jul-22      | 148.16     | 7           | 3           |              |              |               |              |              |  |
| 19-Jul-22      | 65.83      | 7.06        | 5.7         | 0.002        | 0.009        | 0.0004        | 0.024        | 0.027        |  |
| 21-Jul-22      | 148.48     | 7           | 4.7         |              |              |               |              |              |  |
| 22-Jul-22      | 225.61     | 6.78        | 5.3         |              |              |               |              |              |  |
| 25-Jul-22      | 172.98     | 6.64        | 5.3         |              |              |               |              |              |  |
| 27-Jul-22      | 479.65     | 7.31        | 5           | 0.001        | 0.005        | 0.0004        | 0.022        | 0.033        |  |
| 29-Jul-22      | 479.67     | 7.1         | 5           |              |              |               |              |              |  |
| <b>Average</b> | <b>372</b> | <b>6.98</b> | <b>3.78</b> | <b>0.001</b> | <b>0.007</b> | <b>0.0004</b> | <b>0.022</b> | <b>0.027</b> |  |
| <b>Minimum</b> | <b>66</b>  | <b>6.64</b> | <b>1.30</b> | <b>0.001</b> | <b>0.005</b> | <b>0.0004</b> | <b>0.020</b> | <b>0.022</b> |  |
| <b>Maximum</b> | <b>947</b> | <b>7.31</b> | <b>5.70</b> | <b>0.002</b> | <b>0.009</b> | <b>0.0005</b> | <b>0.024</b> | <b>0.033</b> |  |

#### Quarter 3

##### August

**No. Days Discharged**

**25**

|                |            |             |              |              |              |               |              |              |  |
|----------------|------------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--|
| 2-Aug-22       | 479.51     | 7.08        | 8.33         |              |              |               |              |              |  |
| 3-Aug-22       | 479.51     | 7.08        | 5.7          | 0.001        | 0.005        | 0.0005        | 0.019        | 0.027        |  |
| 5-Aug-22       | 479.53     | 7.07        | 9            |              |              |               |              |              |  |
| 10-Aug-22      | 0          | 7.05        | 1.3          | 0.001        | 0.005        | 0.0003        | 0.019        | 0.028        |  |
| 11-Aug-22      | 163.1      | 7.07        | 16.7         |              |              |               |              |              |  |
| 12-Aug-22      | 717.61     | 7.16        | 4.7          |              |              |               |              |              |  |
| 15-Aug-22      | 959.1      | 7.15        | 3.7          |              |              |               |              |              |  |
| 17-Aug-22      | 0          | 7.15        | 3            | 0.001        | 0.005        | 0.0003        | 0.021        | 0.036        |  |
| 19-Aug-22      | 959.1848   | 7.11        | 5.5          |              |              |               |              |              |  |
| 22-Aug-22      | 239.8054   | 7.02        | 2.7          |              |              |               |              |              |  |
| 24-Aug-22      | 412.1715   | 6.85        | 4            | 0.001        | 0.026        | 0.0017        | 0.019        | 0.032        |  |
| 25-Aug-22      | 222.0003   | 7.01        | 4.3          |              |              |               |              |              |  |
| 29-Aug-22      | 78.20732   | 6.94        | 3.5          |              |              |               |              |              |  |
| 31-Aug-22      | 436.3026   | 7.01        | 4            | 0.001        | 0.007        | 0.0005        | 0.018        | 0.021        |  |
| <b>Average</b> | <b>402</b> | <b>7.05</b> | <b>5.46</b>  | <b>0.001</b> | <b>0.010</b> | <b>0.0007</b> | <b>0.019</b> | <b>0.029</b> |  |
| <b>Minimum</b> | <b>0</b>   | <b>6.85</b> | <b>1.30</b>  | <b>0.001</b> | <b>0.005</b> | <b>0.0003</b> | <b>0.018</b> | <b>0.021</b> |  |
| <b>Maximum</b> | <b>959</b> | <b>7.16</b> | <b>16.70</b> | <b>0.001</b> | <b>0.026</b> | <b>0.0017</b> | <b>0.021</b> | <b>0.036</b> |  |

## MISA Cover Letter Public Report- Section 35

### (b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

#### BME

| Concentrations   |                            |                   |                          |                       |                      |                    |                      |                    |  |
|------------------|----------------------------|-------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|--|
| Collect Date     | Flow Rate                  | Lab pH<br>pH unit | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |  |
| <b>September</b> | <b>No. Days Discharged</b> | <b>28</b>         |                          |                       |                      |                    |                      |                    |  |
| 2-Sep-22         | 586.7538                   | 7.07              | 3                        |                       |                      |                    |                      |                    |  |
| 6-Sep-22         | 599.4945                   | 7.16              | 2.7                      |                       |                      |                    |                      |                    |  |
| 7-Sep-22         | 599.5067                   | 7.2               | 3.3                      | 0.001                 | 0.007                | 0.0005             | 0.021                | 0.02               |  |
| 9-Sep-22         | 177.7383                   | 7.09              | 3.7                      |                       |                      |                    |                      |                    |  |
| 12-Sep-22        | 163.0722                   | 6.95              | 1.3                      |                       |                      |                    |                      |                    |  |
| 14-Sep-22        | 239.87                     | 7.24              | 1.3                      | 0.002                 | 0.008                | 0.0004             | 0.022                | 0.03               |  |
| 16-Sep-22        | 239.88                     | 6.96              | 4                        |                       |                      |                    |                      |                    |  |
| 19-Sep-22        | 95.55                      | 6.98              | 12                       |                       |                      |                    |                      |                    |  |
| 21-Sep-22        | 362.78                     | 7.22              | 10                       | 0.002                 | 0.007                | 0.0009             | 0.019                | 0.026              |  |
| 23-Sep-22        | 479.76                     | 7.39              | 12.7                     |                       |                      |                    |                      |                    |  |
| 26-Sep-22        | 479.76                     | 7.34              | 7                        |                       |                      |                    |                      |                    |  |
| 28-Sep-22        | 479.76                     | 7.35              | 10.3                     | 0.002                 | 0.01                 | 0.0008             | 0.019                | 0.028              |  |
| 30-Sep-22        | 478.61                     | 7.2               | 11.5                     |                       |                      |                    |                      |                    |  |
| <b>Average</b>   | <b>383</b>                 | <b>7.17</b>       | <b>6.37</b>              | <b>0.002</b>          | <b>0.008</b>         | <b>0.0007</b>      | <b>0.020</b>         | <b>0.026</b>       |  |
| <b>Minimum</b>   | <b>96</b>                  | <b>6.95</b>       | <b>1.30</b>              | <b>0.001</b>          | <b>0.007</b>         | <b>0.0004</b>      | <b>0.019</b>         | <b>0.020</b>       |  |
| <b>Maximum</b>   | <b>600</b>                 | <b>7.39</b>       | <b>12.70</b>             | <b>0.002</b>          | <b>0.010</b>         | <b>0.0009</b>      | <b>0.022</b>         | <b>0.030</b>       |  |
| <b>October</b>   | <b>No. Days Discharged</b> | <b>31</b>         |                          |                       |                      |                    |                      |                    |  |
| 3-Oct-22         | 479.75                     | 7.21              | 7.67                     |                       |                      |                    |                      |                    |  |
| 5-Oct-22         | 479.7685                   | 7.02              | 6.3                      | 0.003                 | 0.009                | 0.001              | 0.022                | 0.027              |  |
| 7-Oct-22         | 479.7455                   | 7.21              | 7.33                     |                       |                      |                    |                      |                    |  |
| 11-Oct-22        | 479.7625                   | 7.13              | 5.7                      |                       |                      |                    |                      |                    |  |
| 12-Oct-22        | 479.7659                   | 7.1               | 5.3                      | 0.001                 | 0.004                | 0.0007             | 0.017                | 0.02               |  |
| 14-Oct-22        | 479.747                    | 7.21              | 4.7                      |                       |                      |                    |                      |                    |  |
| 17-Oct-22        | 259.9644                   | 7.19              | 8.33                     |                       |                      |                    |                      |                    |  |
| 19-Oct-22        | 719.3268                   | 7.19              | 5.5                      | 0.001                 | 0.025                | 0.0007             | 0.016                | 0.023              |  |
| 21-Oct-22        | 719.3103                   | 7.09              | 3.3                      |                       |                      |                    |                      |                    |  |
| 24-Oct-22        | 256.7918                   | 7.15              | 3                        |                       |                      |                    |                      |                    |  |
| 26-Oct-22        | 359.6799                   | 7.46              | 4                        | 0.002                 | 0.007                | 0.0007             | 0.017                | 0.024              |  |
| 28-Oct-22        | 502.44                     | 7.24              | 3.3                      |                       |                      |                    |                      |                    |  |
| 31-Oct-22        | 719.31                     | 7.21              | 3                        |                       |                      |                    |                      |                    |  |
| <b>Average</b>   | <b>493</b>                 | <b>7.19</b>       | <b>5.19</b>              | <b>0.002</b>          | <b>0.011</b>         | <b>0.0008</b>      | <b>0.018</b>         | <b>0.024</b>       |  |
| <b>Minimum</b>   | <b>257</b>                 | <b>7.02</b>       | <b>3.00</b>              | <b>0.001</b>          | <b>0.004</b>         | <b>0.0007</b>      | <b>0.016</b>         | <b>0.020</b>       |  |
| <b>Maximum</b>   | <b>719</b>                 | <b>7.46</b>       | <b>8.33</b>              | <b>0.003</b>          | <b>0.025</b>         | <b>0.0010</b>      | <b>0.022</b>         | <b>0.027</b>       |  |

## MISA Cover Letter Public Report- Section 35

(b) Summary of Plant Concentrations calculated under Sections 15, 16, 17

### BME

| Concentrations |           |                   |                          |                       |                      |                    |                      |                    |  |
|----------------|-----------|-------------------|--------------------------|-----------------------|----------------------|--------------------|----------------------|--------------------|--|
| Collect Date   | Flow Rate | Lab pH<br>pH unit | Suspended Solids<br>mg/L | Total Arsenic<br>mg/L | Total Copper<br>mg/L | Total Lead<br>mg/L | Total Nickel<br>mg/L | Total Zinc<br>mg/L |  |

### November

No. Days Discharged

28

|                |             |             |              |              |              |               |              |              |  |
|----------------|-------------|-------------|--------------|--------------|--------------|---------------|--------------|--------------|--|
| 2-Nov-22       | 719.3       | 7.43        | 2.7          | 0.001        | 0.005        | 0.0007        | 0.019        | 0.022        |  |
| 4-Nov-22       | 716.9055    | 7.23        | 3.7          |              |              |               |              |              |  |
| 7-Nov-22       | 719.7329    | 7.17        | 7.33         |              |              |               |              |              |  |
| 9-Nov-22       | 715.8757    | 7.26        | 3            | 0.001        | 0.005        | 0.0007        | 0.021        | 0.022        |  |
| 10-Nov-22      | 587.2688    | 7.25        | 6.5          |              |              |               |              |              |  |
| 15-Nov-22      | 1199.58     | 6.83        | 13.3         |              |              |               |              |              |  |
| 16-Nov-22      | 1198.873    | 7           | 9.67         | 0.002        | 0.004        | 0.0007        | 0.018        | 0.021        |  |
| 18-Nov-22      | 1124.92     | 7.02        | 9            |              |              |               |              |              |  |
| 21-Nov-22      | 1198.853    | 7.14        | 7.67         |              |              |               |              |              |  |
| 23-Nov-22      | 1198.848    | 7.12        | 4            | 0.001        | 0.003        | 0.0004        | 0.019        | 0.025        |  |
| 25-Nov-22      | 1173.496    | 6.88        | 4.3          |              |              |               |              |              |  |
| 28-Nov-22      | 1198.858    | 6.97        | 4            |              |              |               |              |              |  |
| 30-Nov-22      | 1198.861    | 6.69        | 3            | 0.001        | 0.006        | 0.0003        | 0.021        | 0.033        |  |
| <b>Average</b> | <b>996</b>  | <b>7.08</b> | <b>6.01</b>  | <b>0.001</b> | <b>0.005</b> | <b>0.0006</b> | <b>0.020</b> | <b>0.025</b> |  |
| <b>Minimum</b> | <b>587</b>  | <b>6.69</b> | <b>2.70</b>  | <b>0.001</b> | <b>0.003</b> | <b>0.0003</b> | <b>0.018</b> | <b>0.021</b> |  |
| <b>Maximum</b> | <b>1200</b> | <b>7.43</b> | <b>13.30</b> | <b>0.002</b> | <b>0.006</b> | <b>0.0007</b> | <b>0.021</b> | <b>0.033</b> |  |

### December

No. Days Discharged

26

|                |            |             |             |              |              |               |              |              |  |
|----------------|------------|-------------|-------------|--------------|--------------|---------------|--------------|--------------|--|
| 2-Dec-22       | 359.68     | 7.1         | 3           |              |              |               |              |              |  |
| 5-Dec-22       | 359.66     | 7.07        | 3           |              |              |               |              |              |  |
| 7-Dec-22       | 359.66     | 7.25        | 1.7         | 0.001        | 0.004        | 0.0005        | 0.029        | 0.043        |  |
| 9-Dec-22       | 359.67     | 6.85        | 2.7         |              |              |               |              |              |  |
| 12-Dec-22      | 359.65     | 7.16        | 2           |              |              |               |              |              |  |
| 14-Dec-22      | 359.67     | 6.96        | 1           | 0.002        | 0.005        | 0.0004        | 0.026        | 0.033        |  |
| 16-Dec-22      | 359.67     | 6.97        | 2           |              |              |               |              |              |  |
| 19-Dec-22      | 359.66     | 6.87        | 2           |              |              |               |              |              |  |
| 21-Dec-22      | 317.49     | 6.72        | 2           | 0.002        | 0.008        | 0.0005        | 0.024        | 0.027        |  |
| 28-Dec-22      | 245.93     | 6.93        | 5           |              |              |               |              |              |  |
| 29-Dec-22      | 359.69     | 7.03        | 2           | 0.002        | 0.005        | 0.0007        | 0.03         | 0.052        |  |
| <b>Average</b> | <b>345</b> | <b>6.99</b> | <b>2.40</b> | <b>0.002</b> | <b>0.006</b> | <b>0.0005</b> | <b>0.027</b> | <b>0.039</b> |  |
| <b>Minimum</b> | <b>246</b> | <b>6.72</b> | <b>1.00</b> | <b>0.001</b> | <b>0.004</b> | <b>0.0004</b> | <b>0.024</b> | <b>0.027</b> |  |
| <b>Maximum</b> | <b>360</b> | <b>7.25</b> | <b>5.00</b> | <b>0.002</b> | <b>0.008</b> | <b>0.0007</b> | <b>0.030</b> | <b>0.052</b> |  |

Notes: Value Below MDL



## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Collect Date                 | Loadings                   |  |                         |                        |                      |                        |                      |
|------------------------------|----------------------------|--|-------------------------|------------------------|----------------------|------------------------|----------------------|
|                              | Suspended Solids<br>kg/day | Total Arsenic<br>Calculation<br>kg/day | Total Arsenic<br>kg/day | Total Copper<br>kg/day | Total Lead<br>kg/day | Total Nickel<br>kg/day | Total Zinc<br>kg/day |
| <b><u>Quarter 1</u></b>      |                            |  |                         |                        |                      |                        |                      |
| <b><u>January</u></b>        |                            |  |                         |                        |                      |                        |                      |
| 4-Jan-22                     | 0.8165                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 5-Jan-22                     | 1.6723                     | 0.0003                                 | 0.0003                  | 0.0023                 | 0.0003               | 0.0067                 | 0.0080               |
| 7-Jan-22                     | 0.6475                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 10-Jan-22                    | 1.0953                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 12-Jan-22                    | 0.7321                     | 0.0007                                 | 0.0007                  | 0.0037                 | 0.0007               | 0.0154                 | 0.0161               |
| 14-Jan-22                    | 2.6470                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 17-Jan-22                    | 1.2094                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 19-Jan-22                    | 1.0168                     | 0.0003                                 | 0.0003                  | 0.0012                 | 0.0002               | 0.0062                 | 0.0065               |
| 21-Jan-22                    | 0.7369                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 24-Jan-22                    | 0.5170                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 26-Jan-22                    | 2.2026                     | 0.0006                                 | 0.0006                  | 0.0024                 | 0.0004               | 0.0119                 | 0.0107               |
| 28-Jan-22                    | 1.7193                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 31-Jan-22                    | 1.3663                     | 0.0000                                 |                         |                        |                      |                        |                      |
| <b>Average Daily Load</b>    | <b>1.2599</b>              | <b>0.0002</b>                          | <b>0.0005</b>           | <b>0.0024</b>          | <b>0.0004</b>        | <b>0.0100</b>          | <b>0.0103</b>        |
| <b>Monthly Load (kg/mo.)</b> | <b>39.0580</b>             | <b>0.0047</b>                          | <b>0.0153</b>           | <b>0.0745</b>          | <b>0.0129</b>        | <b>0.3110</b>          | <b>0.3202</b>        |

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b><u>February</u></b>       |                |               |               |               |               |               |               |
| 7-Feb-22                     | 3.0850         | 0.0000        |               |               |               |               |               |
| 9-Feb-22                     | 2.5686         | 0.0005        | 0.0005        | 0.0022        | 0.0003        | 0.0071        | 0.0087        |
| 11-Feb-22                    | 2.3729         | 0.0000        |               |               |               |               |               |
| 14-Feb-22                    | 1.0305         | 0.0000        |               |               |               |               |               |
| 16-Feb-22                    | 0.8393         | 0.0002        | 0.0002        | 0.0007        | 0.0001        | 0.0034        |               |
| 18-Feb-22                    | 0.6518         | 0.0000        |               |               |               |               |               |
| 22-Feb-22                    | 1.4731         | 0.0000        |               |               |               |               |               |
| 23-Feb-22                    | 2.2040         | 0.0003        | 0.0003        | 0.0010        | 0.0001        | 0.0045        | 0.0038        |
| 25-Feb-22                    | 1.2757         | 0.0000        |               |               |               |               |               |
| 28-Feb-22                    | 1.1597         | 0.0000        |               |               |               |               |               |
| <b>Average Daily Load</b>    | <b>1.6660</b>  | <b>0.0001</b> | <b>0.0004</b> | <b>0.0013</b> | <b>0.0002</b> | <b>0.0050</b> | <b>0.0063</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>46.6493</b> | <b>0.0032</b> | <b>0.0106</b> | <b>0.0369</b> | <b>0.0052</b> | <b>0.1401</b> | <b>0.1763</b> |

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Collect Date                 | Loadings                   |  |                         |                        |                      |                        |                      |
|------------------------------|----------------------------|--|-------------------------|------------------------|----------------------|------------------------|----------------------|
|                              | Suspended Solids<br>kg/day | Total Arsenic<br>Calculation<br>kg/day | Total Arsenic<br>kg/day | Total Copper<br>kg/day | Total Lead<br>kg/day | Total Nickel<br>kg/day | Total Zinc<br>kg/day |
| <b>March</b>                 |                            |  |                         |                        |                      |                        |                      |
| 2-Mar-22                     | 0.7781                     | 0.0003                                 | 0.0003                  | 0.0005                 | 0.0001               | 0.0047                 | 0.0054               |
| 4-Mar-22                     | 1.0623                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 7-Mar-22                     | 1.2145                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 9-Mar-22                     | 0.4894                     | 0.0002                                 | 0.0002                  | 0.0010                 | 0.0001               | 0.0049                 |                      |
| 11-Mar-22                    | 0.7193                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 14-Mar-22                    | 0.3015                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 16-Mar-22                    | 0.2397                     | 0.0002                                 | 0.0002                  | 0.0010                 | 0.0001               | 0.0055                 | 0.0048               |
| 18-Mar-22                    |                            | 0.0000                                 |                         |                        |                      |                        |                      |
| 21-Mar-22                    |                            | 0.0000                                 |                         |                        |                      |                        |                      |
| 23-Mar-22                    |                            | 0.0000                                 |                         |                        |                      |                        |                      |
| 25-Mar-22                    |                            | 0.0000                                 |                         |                        |                      |                        |                      |
| 28-Mar-22                    |                            | 0.0000                                 |                         |                        |                      |                        |                      |
| 30-Mar-22                    | 0.4715                     | 0.0003                                 | 0.0003                  | 0.0013                 | 0.0002               | 0.0063                 | 0.0060               |
| <b>Average Daily Load</b>    | <b>0.6595</b>              | <b>0.0001</b>                          | <b>0.0003</b>           | <b>0.0009</b>          | <b>0.0001</b>        | <b>0.0053</b>          | <b>0.0054</b>        |
| <b>Monthly Load (kg/mo.)</b> | <b>16.4881</b>             | <b>0.0020</b>                          | <b>0.0066</b>           | <b>0.0232</b>          | <b>0.0030</b>        | <b>0.1335</b>          | <b>0.1351</b>        |

### Quarter 2

#### April

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 4-Apr-22                     | 0.9609         | 0.0000        |               |               |               |               |               |
| 6-Apr-22                     | 0.8277         | 0.0004        | 0.0004        | 0.0022        | 0.0003        | 0.0083        | 0.0079        |
| 8-Apr-22                     | 5.7370         | 0.0000        |               |               |               |               |               |
| 19-Apr-22                    | 7.2976         | 0.0000        |               |               |               |               |               |
| 20-Apr-22                    | 1.6150         | 0.0006        | 0.0006        | 0.0036        | 0.0004        | 0.0084        | 0.0114        |
| 22-Apr-22                    | 2.1588         | 0.0000        |               |               |               |               |               |
| 25-Apr-22                    | 1.9417         | 0.0000        |               |               |               |               |               |
| 27-Apr-22                    | 1.7988         | 0.0007        | 0.0007        | 0.0036        | 0.0004        | 0.0094        | 0.0115        |
| 29-Apr-22                    | 2.1587         | 0.0000        |               |               |               |               |               |
| <b>Average Daily Load</b>    | <b>2.7218</b>  | <b>0.0002</b> | <b>0.0006</b> | <b>0.0031</b> | <b>0.0004</b> | <b>0.0087</b> | <b>0.0103</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>54.4362</b> | <b>0.0037</b> | <b>0.0112</b> | <b>0.0623</b> | <b>0.0073</b> | <b>0.1734</b> | <b>0.2053</b> |

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Collect Date                 | Loadings                |                           |                      |                     |                   |                     |                   |
|------------------------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|---------------------|-------------------|
|                              | Suspended Solids kg/day | Total Arsenic Calculation | Total Arsenic kg/day | Total Copper kg/day | Total Lead kg/day | Total Nickel kg/day | Total Zinc kg/day |
| <b>May</b>                   |                         |                           |                      |                     |                   |                     |                   |
| 2-May-22                     | 3.4315                  | 0.0000                    |                      |                     |                   |                     |                   |
| 4-May-22                     | 2.6623                  | 0.0007                    | 0.0007               | 0.0029              | 0.0004            | 0.0094              | 0.0086            |
| 6-May-22                     | 2.6623                  | 0.0000                    |                      |                     |                   |                     |                   |
| 9-May-22                     | 1.4370                  | 0.0000                    |                      |                     |                   |                     |                   |
| 11-May-22                    | 1.4385                  | 0.0007                    | 0.0007               | 0.0036              | 0.0004            | 0.0115              | 0.0108            |
| 13-May-22                    | 2.3671                  | 0.0000                    |                      |                     |                   |                     |                   |
| 16-May-22                    | 1.0394                  | 0.0000                    |                      |                     |                   |                     |                   |
| 18-May-22                    | 1.6550                  | 0.0005                    | 0.0005               | 0.0025              | 0.0002            | 0.0100              | 0.0110            |
| 20-May-22                    | 0.2055                  | 0.0000                    |                      |                     |                   |                     |                   |
| 24-May-22                    | 5.4990                  | 0.0000                    |                      |                     |                   |                     |                   |
| 25-May-22                    | 1.9425                  | 0.0014                    | 0.0014               | 0.0043              | 0.0004            | 0.0122              | 0.0122            |
| 27-May-22                    | 1.6547                  | 0.0000                    |                      |                     |                   |                     |                   |
| 30-May-22                    | 1.6547                  | 0.0000                    |                      |                     |                   |                     |                   |
| <b>Average Daily Load</b>    | <b>2.1269</b>           | <b>0.0003</b>             | <b>0.0008</b>        | <b>0.0033</b>       | <b>0.0003</b>     | <b>0.0108</b>       | <b>0.0107</b>     |
| <b>Monthly Load (kg/mo.)</b> | <b>65.9333</b>          | <b>0.0081</b>             | <b>0.0262</b>        | <b>0.1031</b>       | <b>0.0105</b>     | <b>0.3342</b>       | <b>0.3308</b>     |

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>June</b>                  |                |               |               |               |               |               |               |
| 1-Jun-22                     | 0.2156         | 0.0003        | 0.0003        | 0.0016        | 0.0000        | 0.0061        | 0.0064        |
| 3-Jun-22                     | 0.3282         | 0.0000        |               |               |               |               |               |
| 6-Jun-22                     | 0.5919         | 0.0000        |               |               |               |               |               |
| 8-Jun-22                     | 0.7884         | 0.0007        | 0.0007        | 0.0021        | 0.0001        | 0.0069        | 0.0082        |
| 10-Jun-22                    | 0.6344         | 0.0000        |               |               |               |               |               |
| 13-Jun-22                    | 0.3714         | 0.0000        |               |               |               |               |               |
| 15-Jun-22                    | 6.5837         | 0.0011        | 0.0011        | 0.0068        | 0.0006        | 0.0118        | 0.0124        |
| 17-Jun-22                    | 2.6620         | 0.0000        |               |               |               |               |               |
| 20-Jun-22                    | 0.2512         | 0.0000        |               |               |               |               |               |
| 22-Jun-22                    | 0.0914         | 0.0000        | 0.0000        | 0.0001        | 0.0000        | 0.0003        | 0.0004        |
| 28-Jun-22                    | 2.0622         | 0.0012        | 0.0012        | 0.0029        | 0.0002        | 0.0118        | 0.0118        |
| 29-Jun-22                    | 4.1128         | 0.0000        |               |               |               |               |               |
| 30-Jun-22                    | 4.1250         | 0.0000        |               |               |               |               |               |
| <b>Average Daily Load</b>    | <b>1.7552</b>  | <b>0.0003</b> | <b>0.0007</b> | <b>0.0027</b> | <b>0.0002</b> | <b>0.0074</b> | <b>0.0078</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>40.3707</b> | <b>0.0059</b> | <b>0.0153</b> | <b>0.0619</b> | <b>0.0048</b> | <b>0.1697</b> | <b>0.1803</b> |

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Collect Date                 | Loadings                   |  |                         |                        |                      |                        |                      |
|------------------------------|----------------------------|--|-------------------------|------------------------|----------------------|------------------------|----------------------|
|                              | Suspended Solids<br>kg/day | Total Arsenic<br>Calculation<br>kg/day | Total Arsenic<br>kg/day | Total Copper<br>kg/day | Total Lead<br>kg/day | Total Nickel<br>kg/day | Total Zinc<br>kg/day |
| <b>Quarter 3</b>             |                            |  |                         |                        |                      |                        |                      |
| <b>July</b>                  |                            |  |                         |                        |                      |                        |                      |
| 5-Jul-22                     | 4.0711                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 6-Jul-22                     | 1.2406                     | 0.0007                                 | 0.0007                  | 0.0044                 | 0.0004               | 0.0153                 | 0.0161               |
| 8-Jul-22                     | 0.9324                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 11-Jul-22                    | 0.4688                     | 0.0004                                 | 0.0004                  | 0.0025                 | 0.0001               | 0.0072                 | 0.0090               |
| 12-Jul-22                    | 0.4715                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 15-Jul-22                    | 0.4445                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 19-Jul-22                    | 0.3752                     | 0.0001                                 | 0.0001                  | 0.0006                 | 0.0000               | 0.0016                 | 0.0018               |
| 21-Jul-22                    | 0.6979                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 22-Jul-22                    | 1.1957                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 25-Jul-22                    | 0.9168                     | 0.0000                                 |                         |                        |                      |                        |                      |
| 27-Jul-22                    | 2.3983                     | 0.0005                                 | 0.0005                  | 0.0024                 | 0.0002               | 0.0106                 | 0.0158               |
| 29-Jul-22                    | 2.3984                     | 0.0000                                 |                         |                        |                      |                        |                      |
| <b>Average Daily Load</b>    | <b>1.3009</b>              | <b>0.0001</b>                          | <b>0.0004</b>           | <b>0.0025</b>          | <b>0.0002</b>        | <b>0.0087</b>          | <b>0.0107</b>        |
| <b>Monthly Load (kg/mo.)</b> | <b>35.1250</b>             | <b>0.0038</b>                          | <b>0.0115</b>           | <b>0.0668</b>          | <b>0.0049</b>        | <b>0.2340</b>          | <b>0.2881</b>        |

### Quarter 3

#### August

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2-Aug-22                     | 3.9943         | 0.0000        |               |               |               |               |               |
| 3-Aug-22                     | 2.7332         | 0.0005        | 0.0005        | 0.0024        | 0.0002        | 0.0091        | 0.0129        |
| 5-Aug-22                     | 4.3158         | 0.0000        |               |               |               |               |               |
| 10-Aug-22                    | 0.0000         | 0.0000        |               |               |               |               |               |
| 11-Aug-22                    | 2.7238         | 0.0000        |               |               |               |               |               |
| 12-Aug-22                    | 3.3728         | 0.0000        |               |               |               |               |               |
| 15-Aug-22                    | 3.5487         | 0.0000        |               |               |               |               |               |
| 17-Aug-22                    | 0.0000         | 0.0000        |               |               |               |               |               |
| 19-Aug-22                    | 5.2755         | 0.0000        |               |               |               |               |               |
| 22-Aug-22                    | 0.6475         | 0.0000        |               |               |               |               |               |
| 24-Aug-22                    | 1.6487         | 0.0004        | 0.0004        | 0.0107        | 0.0007        | 0.0078        | 0.0132        |
| 25-Aug-22                    | 0.9546         | 0.0000        |               |               |               |               |               |
| 29-Aug-22                    | 0.2737         | 0.0000        |               |               |               |               |               |
| 31-Aug-22                    | 1.7452         | 0.0004        | 0.0004        | 0.0031        | 0.0002        | 0.0079        | 0.0092        |
| <b>Average Daily Load</b>    | <b>2.2310</b>  | <b>0.0001</b> | <b>0.0004</b> | <b>0.0054</b> | <b>0.0004</b> | <b>0.0083</b> | <b>0.0118</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>55.7745</b> | <b>0.0024</b> | <b>0.0111</b> | <b>0.1347</b> | <b>0.0097</b> | <b>0.2066</b> | <b>0.2942</b> |

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Loadings                     |                         |                           |                      |                     |                   |                     |                   |
|------------------------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|---------------------|-------------------|
| Collect Date                 | Suspended Solids kg/day | Total Arsenic Calculation | Total Arsenic kg/day | Total Copper kg/day | Total Lead kg/day | Total Nickel kg/day | Total Zinc kg/day |
| <b><u>September</u></b>      |                         |                           |                      |                     |                   |                     |                   |
| 2-Sep-22                     | 1.7603                  | 0.0000                    |                      |                     |                   |                     |                   |
| 6-Sep-22                     | 1.6186                  | 0.0000                    |                      |                     |                   |                     |                   |
| 7-Sep-22                     | 1.9784                  | 0.0006                    | 0.0006               | 0.0042              | 0.0003            | 0.0126              | 0.0120            |
| 9-Sep-22                     | 0.6576                  | 0.0000                    |                      |                     |                   |                     |                   |
| 12-Sep-22                    | 0.2120                  | 0.0000                    |                      |                     |                   |                     |                   |
| 14-Sep-22                    | 0.3118                  | 0.0005                    | 0.0005               | 0.0019              | 0.0001            | 0.0053              | 0.0072            |
| 16-Sep-22                    | 0.9595                  | 0.0000                    |                      |                     |                   |                     |                   |
| 19-Sep-22                    | 1.1466                  | 0.0000                    |                      |                     |                   |                     |                   |
| 21-Sep-22                    | 3.6278                  | 0.0007                    | 0.0007               | 0.0025              | 0.0003            | 0.0069              | 0.0094            |
| 23-Sep-22                    | 6.0930                  | 0.0000                    |                      |                     |                   |                     |                   |
| 26-Sep-22                    | 3.3583                  | 0.0000                    |                      |                     |                   |                     |                   |
| 28-Sep-22                    | 4.9415                  | 0.0010                    | 0.0010               | 0.0048              | 0.0004            | 0.0091              | 0.0134            |
| 30-Sep-22                    | 5.5040                  | 0.0000                    |                      |                     |                   |                     |                   |
| <b>Average Daily Load</b>    | <b>2.4746</b>           | <b>0.0002</b>             | <b>0.0007</b>        | <b>0.0034</b>       | <b>0.0003</b>     | <b>0.0085</b>       | <b>0.0105</b>     |
| <b>Monthly Load (kg/mo.)</b> | <b>69.2881</b>          | <b>0.0060</b>             | <b>0.0194</b>        | <b>0.0942</b>       | <b>0.0077</b>     | <b>0.2371</b>       | <b>0.2944</b>     |

### October

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 3-Oct-22                     | 3.6797         | 0.0000        |               |               |               |               |               |
| 5-Oct-22                     | 3.0225         | 0.0014        | 0.0014        | 0.0043        | 0.0005        | 0.0106        | 0.0130        |
| 7-Oct-22                     | 3.5165         | 0.0000        |               |               |               |               |               |
| 11-Oct-22                    | 2.7346         | 0.0000        |               |               |               |               |               |
| 12-Oct-22                    | 2.5428         | 0.0005        | 0.0005        | 0.0019        | 0.0003        | 0.0082        | 0.0096        |
| 14-Oct-22                    | 2.2548         | 0.0000        |               |               |               |               |               |
| 17-Oct-22                    | 2.1655         | 0.0000        |               |               |               |               |               |
| 19-Oct-22                    | 3.9563         | 0.0007        | 0.0007        | 0.0180        | 0.0005        | 0.0115        | 0.0165        |
| 21-Oct-22                    | 2.3737         | 0.0000        |               |               |               |               |               |
| 24-Oct-22                    | 0.7704         | 0.0000        |               |               |               |               |               |
| 26-Oct-22                    | 1.4387         | 0.0007        | 0.0007        | 0.0025        | 0.0003        | 0.0061        | 0.0086        |
| 28-Oct-22                    | 1.6581         | 0.0000        |               |               |               |               |               |
| 31-Oct-22                    | 2.1579         | 0.0000        |               |               |               |               |               |
| <b>Average Daily Load</b>    | <b>2.4824</b>  | <b>0.0003</b> | <b>0.0008</b> | <b>0.0067</b> | <b>0.0004</b> | <b>0.0091</b> | <b>0.0119</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>76.9553</b> | <b>0.0080</b> | <b>0.0260</b> | <b>0.2072</b> | <b>0.0122</b> | <b>0.2816</b> | <b>0.3699</b> |

## MISA Cover Letter Public Report Section- 35

(a) Summary of Plant Loadings calculated under Sections 12, 13, 14

### BME

| Collect Date | Loadings                |                           |                      |                     |                   |                     |                   |
|--------------|-------------------------|---------------------------|----------------------|---------------------|-------------------|---------------------|-------------------|
|              | Suspended Solids kg/day | Total Arsenic Calculation | Total Arsenic kg/day | Total Copper kg/day | Total Lead kg/day | Total Nickel kg/day | Total Zinc kg/day |

### November

|                              |                 |               |               |               |               |               |               |
|------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2-Nov-22                     | 1.9421          | 0.0007        | 0.0007        | 0.0036        | 0.0005        | 0.0137        | 0.0158        |
| 4-Nov-22                     | 2.6526          | 0.0000        |               |               |               |               |               |
| 7-Nov-22                     | 5.2756          | 0.0000        |               |               |               |               |               |
| 9-Nov-22                     | 2.1476          | 0.0007        | 0.0007        | 0.0036        | 0.0005        | 0.0150        | 0.0157        |
| 10-Nov-22                    | 3.8172          | 0.0000        |               |               |               |               |               |
| 15-Nov-22                    | 15.9544         | 0.0000        |               |               |               |               |               |
| 16-Nov-22                    | 11.5931         | 0.0024        | 0.0024        | 0.0048        | 0.0008        | 0.0216        | 0.0252        |
| 18-Nov-22                    | 10.1243         | 0.0000        |               |               |               |               |               |
| 21-Nov-22                    | 9.1952          | 0.0000        |               |               |               |               |               |
| 23-Nov-22                    | 4.7954          | 0.0012        | 0.0012        | 0.0036        | 0.0005        | 0.0228        | 0.0300        |
| 25-Nov-22                    | 5.0460          | 0.0000        |               |               |               |               |               |
| 28-Nov-22                    | 4.7954          | 0.0000        |               |               |               |               |               |
|                              | 3.5966          | 0.0012        | 0.0012        | 0.0072        | 0.0004        | 0.0252        | 0.0396        |
| <b>Average Daily Load</b>    | <b>6.2258</b>   | <b>0.0005</b> | <b>0.0012</b> | <b>0.0046</b> | <b>0.0005</b> | <b>0.0196</b> | <b>0.0253</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>174.3229</b> | <b>0.0134</b> | <b>0.0349</b> | <b>0.1275</b> | <b>0.0150</b> | <b>0.5501</b> | <b>0.7072</b> |

### December

|                              |                |               |               |               |               |               |               |
|------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 2-Dec-22                     | 1.0790         | 0.0000        |               |               |               |               |               |
| 5-Dec-22                     | 1.0790         | 0.0000        |               |               |               |               |               |
| 7-Dec-22                     | 0.6114         | 0.0004        | 0.0004        | 0.0014        | 0.0002        | 0.0104        | 0.0155        |
| 9-Dec-22                     | 0.9711         | 0.0000        |               |               |               |               |               |
| 12-Dec-22                    | 0.7193         | 0.0000        |               |               |               |               |               |
| 14-Dec-22                    | 0.3597         | 0.0007        | 0.0007        | 0.0018        | 0.0001        | 0.0094        | 0.0119        |
| 16-Dec-22                    | 0.7193         | 0.0000        |               |               |               |               |               |
| 19-Dec-22                    | 0.7193         | 0.0000        |               |               |               |               |               |
| 21-Dec-22                    | 0.6350         | 0.0006        | 0.0006        | 0.0025        | 0.0002        | 0.0076        | 0.0086        |
| 28-Dec-22                    | 1.2297         | 0.0000        |               |               |               |               |               |
| 29-Dec-22                    | 0.7194         | 0.0007        | 0.0007        | 0.0018        | 0.0003        | 0.0108        | 0.0187        |
| <b>Average Daily Load</b>    | <b>0.8038</b>  | <b>0.0002</b> | <b>0.0006</b> | <b>0.0019</b> | <b>0.0002</b> | <b>0.0095</b> | <b>0.0137</b> |
| <b>Monthly Load (kg/mo.)</b> | <b>20.8997</b> | <b>0.0058</b> | <b>0.0158</b> | <b>0.0492</b> | <b>0.0048</b> | <b>0.2482</b> | <b>0.3550</b> |

|                                  |                 |               |               |               |               |               |               |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Total Annual Load kg/year</b> | <b>695.3011</b> | <b>0.0669</b> | <b>0.2038</b> | <b>1.0415</b> | <b>0.0980</b> | <b>3.0197</b> | <b>3.6567</b> |
|----------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|

## MISA Cover Letter Public Report Section 35

### (c) Summary of Plant Retention Times calculated under Sections 15, 16, 17

#### BME

Daily Flowrates (dates when samples were collected for weekly and thrice weekly tests) for 90 day period prior to calculation of retention time (July, August, September)

|                              |                   |
|------------------------------|-------------------|
| <b>Date of Calculation:</b>  | <b>2020/10/01</b> |
| <b>90 Day Period Begins:</b> | <b>2020/07/01</b> |

Flowrates for 90 day period prior to calculation of retention time:

| Date<br>2020 | Flowrate<br>(m3/day) | Date<br>2020 | Flowrate<br>(m3/day) |
|--------------|----------------------|--------------|----------------------|
| 1-Jul-22     | 932.92               | 15-Aug-22    | 959.1                |
| 2-Jul-22     | 959.28               | 16-Aug-22    | 692.85               |
| 3-Jul-22     | 560.32               | 17-Aug-22    | 0                    |
| 4-Jul-22     | 372.16               | 18-Aug-22    | 959.1624             |
| 5-Jul-22     | 946.76               | 19-Aug-22    | 959.1848             |
| 6-Jul-22     | 729.78               | 20-Aug-22    | 901.5067             |
| 7-Jul-22     | 343.52               | 21-Aug-22    | 603.854              |
| 8-Jul-22     | 345.34               | 22-Aug-22    | 239.8054             |
| 9-Jul-22     | 263.86               | 23-Aug-22    | 239.8077             |
| 10-Jul-22    | 239.86               | 24-Aug-22    | 412.1715             |
| 11-Jul-22    | 360.65               | 25-Aug-22    | 222.0003             |
| 12-Jul-22    | 362.67               | 26-Aug-22    | 0                    |
| 13-Jul-22    | 75.03                | 27-Aug-22    | 0                    |
| 14-Jul-22    | 0                    | 28-Aug-22    | 0                    |
| 15-Jul-22    | 148.16               | 29-Aug-22    | 78.20732             |
| 16-Jul-22    | 16.52                | 30-Aug-22    | 242.7098             |
| 17-Jul-22    | 0                    | 31-Aug-22    | 436.3026             |
| 18-Jul-22    | 0                    | 1-Sep-22     | 599.5192             |
| 19-Jul-22    | 65.83                | 2-Sep-22     | 586.7538             |
| 20-Jul-22    | 0                    | 3-Sep-22     | 599.4908             |
| 21-Jul-22    | 148.48               | 4-Sep-22     | 566.1117             |
| 22-Jul-22    | 225.61               | 5-Sep-22     | 599.4854             |
| 23-Jul-22    | 239.83               | 6-Sep-22     | 599.4945             |
| 24-Jul-22    | 101.2                | 7-Sep-22     | 599.5067             |
| 25-Jul-22    | 172.98               | 8-Sep-22     | 576.8013             |
| 26-Jul-22    | 389.36               | 9-Sep-22     | 177.7383             |
| 27-Jul-22    | 479.65               | 10-Sep-22    | 0                    |
| 28-Jul-22    | 479.64               | 11-Sep-22    | 0                    |
| 29-Jul-22    | 479.67               | 12-Sep-22    | 163.0722             |
| 30-Jul-22    | 479.51               | 13-Sep-22    | 239.905              |
| 31-Jul-22    | 378.89               | 14-Sep-22    | 239.87               |
| 1-Aug-22     | 479.55               | 15-Sep-22    | 239.9                |
| 2-Aug-22     | 479.51               | 16-Sep-22    | 239.88               |
| 3-Aug-22     | 479.51               | 17-Sep-22    | 239.89               |
| 4-Aug-22     | 470.1                | 18-Sep-22    | 223.77               |
| 5-Aug-22     | 479.53               | 19-Sep-22    | 95.55                |
| 6-Aug-22     | 479.54               | 20-Sep-22    | 157.3                |
| 7-Aug-22     | 479.52               | 21-Sep-22    | 362.78               |
| 8-Aug-22     | 484.85               | 22-Sep-22    | 479.75               |
| 9-Aug-22     | 0                    | 23-Sep-22    | 479.76               |
| 10-Aug-22    | 0                    | 24-Sep-22    | 479.74               |
| 11-Aug-22    | 163.1                | 25-Sep-22    | 479.75               |
| 12-Aug-22    | 717.61               | 26-Sep-22    | 479.76               |
| 13-Aug-22    | 959.06               | 27-Sep-22    | 479.73               |
| 14-Aug-22    | 959.09               | 28-Sep-22    | 479.76               |

**30 Maximum flows during  
90 Day Period:**

| Date<br>2020 | Flowrate<br>(m3/day) |
|--------------|----------------------|
| 2-Jul-22     | 959.2800             |
| 19-Aug-22    | 959.1848             |
| 18-Aug-22    | 959.1624             |
| 15-Aug-22    | 959.1000             |
| 14-Aug-22    | 959.0900             |
| 13-Aug-22    | 959.0600             |
| 5-Jul-22     | 946.7600             |
| 1-Jul-22     | 932.9200             |
| 20-Aug-22    | 901.5067             |
| 6-Jul-22     | 729.7800             |
| 12-Aug-22    | 717.6100             |
| 16-Aug-22    | 692.8500             |
| 21-Aug-22    | 603.8540             |
| 1-Sep-22     | 599.5192             |
| 7-Sep-22     | 599.5067             |
| 6-Sep-22     | 599.4945             |
| 3-Sep-22     | 599.4908             |
| 5-Sep-22     | 599.4854             |
| 2-Sep-22     | 586.7538             |
| 8-Sep-22     | 576.8013             |
| 4-Sep-22     | 566.1117             |
| 3-Jul-22     | 560.3200             |
| 8-Aug-22     | 484.8500             |
| 23-Sep-22    | 479.7600             |
| 26-Sep-22    | 479.7600             |
| 28-Sep-22    | 479.7600             |
| 22-Sep-22    | 479.7500             |
| 25-Sep-22    | 479.7500             |
| 24-Sep-22    | 479.7400             |
| 27-Sep-22    | 479.7300             |

|  |           |             |
|--|-----------|-------------|
| Average Flowrate                                     | 680       | m3/day      |
| <i>(of 30 maximum flows<br/>in previous 90 days)</i> |           |             |
| Volume of pond                                       | 59,100    | m3          |
| <b>Calculated<br/>Retention Time</b>                 | <b>87</b> | <b>days</b> |

**MISA Cover Letter Public Report Section 35**

(d) Summary of Process Effluent- Weekly and Thrice Weekly Monitoring, pH measurement, Lethality Monitoring and Chronic Toxicity Testing under Sections 22, 23, 25, 26, 27, 28

Summary of results from monitoring performed under sections 22, 23, 25

*All samples were collected as per requirements of Sections 22, 23 & 25 of the regulation during discharge periods.*

Summary of results from monitoring performed under sections 26, 27, & 28

*All samples were collected as per requirements of Sections 26, 27 & 28 of the regulation during discharge periods.*

**Results**

| Date      | Rainbow Trout           | Daphnia Magna | Ceriodaphnia Dubia |          | Fathead Minnow |
|-----------|-------------------------|---------------|--------------------|----------|----------------|
|           | % mortality @ 100% Conc |               | Reproduction       | Survival | Growth         |
| 5-Jan-22  | 0%                      | 0%            |                    |          |                |
| 23-Feb-22 | 0%                      | 0%            |                    |          |                |
| 16-Mar-22 | 0%                      | 0%            |                    |          |                |
| 6-Apr-22  | 0%                      | 0%            | 75.0%              | >100%    | >100%          |
| 4-May-22  | 0%                      | 0%            |                    |          |                |
| 1-Jun-22  | 0%                      | 0%            |                    |          |                |
| 6-Jul-22  | 0%                      | 0%            |                    |          |                |
| 19-Jul-22 | 0%                      | 0%            |                    |          |                |
| 3-Aug-22  | 0%                      | 0%            |                    |          |                |
| 7-Sep-22  | 0%                      | 0%            |                    |          |                |
| 5-Oct-22  | 0%                      | 0%            | 63.9%              | >100%    | >100%          |
| 2-Nov-22  | 0%                      | 0%            |                    |          |                |
| 17-Dec-22 | 0%                      | 0%            |                    |          |                |

**BME**

**MISA Cover Letter Public Report Section 35**

(e) Summary of calculations performed under Sections 31(6), 32(1) and 32(4)

*All flow monitoring results are recorded by a calibrated transducer and recorder.  
Flow monitoring calibrations are completed and certified annually.*

(f) Summary of concentrations or other results that exceeded a limit under Sections 18 or 19

*No exceedances reported during the period*

(g)(h) Summary of incidents

*No incidents reported during the period*