

| Parameter | Frequency | Source | Lower Criteria | Upper Criteria | Unit | Description | Month Sample Date | January 12/1/2022 | February 9/2/2022 | March 14/03/2022 | April 13/04/2022 | May 11/5/2022 | June 8/6/2022 | July 11/7/2022 | August 10/8/2022 | September 12/9/2022 | October 12/10/2022 | November 14/11/2022 | December 14/12/2022 | | | | | | |
|------------------------------|-----------|--------|----------------|----------------|-----------------|-------------|-------------------|-------------------|-------------------|------------------|------------------|---------------|---------------|----------------|------------------|---------------------|--------------------|---------------------|---------------------|------------|------------|------------|------------|------------|------------|
| Total biovolume | Result | - | 4 | mm3/L | total biovolume | Result | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | | | | | | |
| Laboratory report issue date | | | | | | | 01/12/2022 | 20/01/2022 | 02/10/2022 | 22/02/2022 | 15/03/2022 | 22/03/2022 | 14/04/2022 | 21/04/2022 | 05/11/2022 | 06/09/2022 | 07/12/2022 | 08/11/2022 | 14/09/2022 | 13/10/2022 | 20/10/2022 | 15/11/2022 | 21/11/2022 | 15/12/2022 | 22/12/2022 |

| 2022 Comments regarding blue green algae monitoring requirements | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Comment 1: | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 2: | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 3: | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 4: | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 5: | 0 | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 6: | 0 | | | | | | | | | | | | | | | | | | | | | | | |

EMP - Monthly Surface Water Monitoring Requirements

| Location | Frequency | Source | Lower Criteria | Upper Criteria | Unit | Description | Month Sample Date | January 12/1/2022 | February 9/2/2022 | March 14/03/2022 | April 13/04/2022 | May 11/5/2022 | June 8/6/2022 | July 11/7/2022 | August 10/8/2022 | September 12/9/2022 | October 12/10/2022 | November 14/11/2022 | December 14/12/2022 | |
|----------------------|-----------|-----------------|------------------------------|----------------|----------|-------------------------|-------------------|-------------------|-------------------|------------------|------------------|---------------|---------------|----------------|------------------|---------------------|--------------------|---------------------|---------------------|------------|
| Pond 1 - Silt Pond | Monthly | EMP Section 6.2 | 5 | 8.5 | pH units | pH | Result | 7.4 | 6.6 | 7.3 | 6.7 | 4.6 | 8 | 6.3 | 4.3 | 7.6 | 8.9 | 7.1 | 7.2 | |
| | | | 0 | 5500 | µS/cm | Electrical Conductivity | Result | 703 | 558 | 111 | 94 | 98 | 104 | 139 | 114 | 96 | 121 | 131 | 1213 | |
| | | | 4 | - | mg/L | Dissolved Oxygen | Result | 5.5 | 5.6 | 4.4 | 4.9 | 6.7 | 7.7 | 7.7 | 7.3 | 8 | 5 | 5.4 | 5.9 | |
| | | | 0 | 20 | NTU | Turbidity | Result | 26.8 | 27.9 | 242 | 29.4 | 47.4 | 61.2 | 34.3 | 22.2 | 10.9 | 162 | 200 | 266 | |
| | | | 5 | 10 | mg/L | Oil & Grease | Result | 2.6 | 5 | 5 | 4.4 | 5 | 5 | 5 | 5 | 5 | 20 | 5 | 13 | |
| | | | 5 | 8.5 | pH units | pH | Result | 7.2 | 6.6 | 6.8 | 6.4 | 6.4 | 8.3 | 4.5 | 3.9 | 4.6 | 6.2 | 5.8 | 4.4 | |
| Pond 2 - Dredge Pond | Monthly | EMP Section 6.2 | 0 | 5500 | µS/cm | Electrical Conductivity | Result | 652 | 559 | 56 | 65 | 47 | 101 | 100 | 76 | 73 | 88 | 103 | 94 | |
| | | | 4 | - | mg/L | Dissolved Oxygen | Result | 5.3 | 6.5 | 4.8 | 4.5 | 7.5 | 7.2 | 6.7 | 8 | 8.7 | 5.5 | 5.8 | 6.1 | |
| | | | 0 | 20 | NTU | Turbidity | Result | 3.1 | 11.6 | 257 | 81.8 | 81.4 | 65.2 | 43.8 | 16.9 | 334 | 4.5 | 11.6 | 7.8 | |
| | | | 0 | 10 | mg/L | Oil & Grease | Result | 6.5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 13 | 5.4 | 12 | | |
| | | | Laboratory report issue date | | | | | | 02/03/2022 | 24/02/2022 | 24/03/2022 | 05/05/2022 | 30/05/2022 | 22/06/2022 | 21/07/2022 | 22/08/2022 | 29/09/2022 | 28/10/2022 | 25/11/2022 | 23/12/2022 |

| 2022 Comments regarding monthly surface water monitoring outcomes | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Comment 1: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 2: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 3: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 4: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 5: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 6: | | | | | | | | | | | | | | | | | | | | | | | | |

EMP - Quarterly Surface Water Monitoring Requirements

| Location | Frequency | Source | Lower Criteria | Upper Criteria | Unit | Description | Month Sample Date | 2022 Q1 10/2/2022 | 2022 Q2 10/05/2022 | 2023 Q2 11/08/2022 | 2022 Q4 14/11/2022 |
|------------------------------|-----------|-----------------|----------------|----------------|--------------|-------------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| SW3 Northern Creek | Quarterly | EMP Section 6.2 | 5 | 7.5 | pH units | pH | Result | 4.3 | 5.4 | 6.9 | 6 |
| | | | 1800 | 2400 | µS/cm | Electrical Conductivity | Result | 266 | 177 | 12000 | 1890 |
| | | | 0 | 25 | mg/L | Suspended Solids | Result | 9 | 30 | 20 | 8.8 |
| | | | 6 | - | mg/L | Dissolved Oxygen | Result | 1.8 | 4.8 | 4.9 | 2.3 |
| | | | 0 | 1 | mg/L | Total Nitrogen | Result | 1.7 | 0.2 | 5.72 | 1.8 |
| | | | 0 | 0.08 | mg/L | Total Phosphorus | Result | 0.01 | 0.03 | 0.39 | 0.11 |
| SW4 Northern Creek | Quarterly | EMP Section 6.2 | - | - | Ebb or flood | Flow direction | Result | Ebbing | Ebbing | Flooding | Flooding |
| | | | 5 | 7.5 | pH units | pH | Result | 5.3 | 5.2 | 7.1 | 6.5 |
| | | | 1800 | 2400 | µS/cm | Electrical Conductivity | Result | 424 | 312 | 16500 | 4120 |
| | | | 0 | 25 | mg/L | Suspended Solids | Result | 16 | 16 | 7.9 | 8.3 |
| | | | 6 | - | mg/L | Dissolved Oxygen | Result | 1.4 | 3.9 | 6.4 | 4.9 |
| | | | 0 | 1 | mg/L | Total Nitrogen | Result | 0.8 | 0.82 | 4.22 | 0.8 |
| SW9 Southern Creek | Quarterly | EMP Section 6.2 | 0 | 0.08 | mg/L | Total Phosphorus | Result | 0.03 | 0.03 | 0.34 | 0.02 |
| | | | - | - | Ebb or flood | Flow direction | Result | Ebbing | Ebbing | Flooding | Flooding |
| | | | 5 | 7.5 | pH units | pH | Result | 5.9 | 6 | 6.8 | 6.4 |
| | | | 1800 | 2400 | µS/cm | Electrical Conductivity | Result | 2010 | 930 | 10900 | 5020 |
| | | | 0 | 25 | mg/L | Suspended Solids | Result | 10 | 15 | 6.8 | 96 |
| | | | 6 | - | mg/L | Dissolved Oxygen | Result | 2.7 | 3.9 | 5.3 | 4.3 |
| SW10 Southern Creek | Quarterly | EMP Section 6.2 | 0 | 1 | mg/L | Total Nitrogen | Result | 0.58 | 0.5 | 1.52 | 1.4 |
| | | | 0 | 0.08 | mg/L | Total Phosphorus | Result | 0.01 | 0.02 | 0.33 | 0.26 |
| | | | - | - | Ebb or flood | Flow direction | Result | Ebbing | Ebbing | Flooding | Flooding |
| | | | 5 | 7.5 | pH units | pH | Result | 5.1 | 5 | 5.8 | 6.9 |
| | | | 1800 | 2400 | µS/cm | Electrical Conductivity | Result | 498 | 261 | 3560 | 4250 |
| | | | 0 | 25 | mg/L | Suspended Solids | Result | 18 | 17 | 13 | 15 |
| Laboratory report issue date | | | | | | 24/02/2022 | 06/06/2022 | 23/08/2022 | 28/11/2022 | | |

| Location | Frequency | Source | Lower Criteria | Upper Criteria | Unit | Description | Month Sample Date | 2022 Q1 9/2/2022 | 2022 Q2 11/5/2022 | 2022 Q3 10/8/2022 | 2022 Q4 14/11/2022 |
|------------------------------|-----------|------------------|----------------------|----------------|------------------|---------------------|-------------------|------------------|------------------------|-------------------------|------------------------|
| Pond 1 - Silt Pond | Quarterly | EMP Section 6.2 | 0 | 40 | mg/L | Manganese | Result | 0.12 | 0.21 | 0.24 | 0.12 |
| | | | 0 | 100 | mg/L | Magnesium | Result | 10 | 1.5 | 1.8 | 2 |
| | | | 0 | 500 | mg/L | Sodium | Result | 49 | 5.4 | 6.8 | 7.6 |
| | | | 0 | 40 | mg/L | Potassium | Result | 4.5 | 1.6 | 1.7 | 1.6 |
| | | | 0 | 400 | mg/L | Bicarbonate | Result | 20 | 380 | 20 | 20 |
| | | | 0 | 1000 | mg/L | Chloride | Result | 76 | 8.2 | 11 | 33 |
| | | | 0 | 800 | mg/L | Sulfate / Sulphate | Result | 210 | 35 | 52 | 58 |
| | | | 0 | 0.5 | mg/L | Aluminium (Soluble) | Result | 0.05 | 0.35 | 0.86 | 0.05 |
| | | | 0 | 0.005 | µg/L | Arsenic | Result | 0.003 | 0.001 | 0.002 | 0.001 |
| | | | 0 | 20 | mg/L | Ammonium | Result | 0.03 | 0.14 | 0.04 | 0.06 |
| | | | 0 | 20 | µg/L | Iron (Soluble) | Result | 0.09 | 0.09 | 0.19 | 0.05 |
| | | | 2 | 10 | ug/L | Chlorophyll a | Result | 5 | 5 | 5 | 5 |
| | | | 0 | 1000 | Median no./100mL | Faecal coliforms | Result | 10 | 10 | 10 | 180 |
| | | | 0 | 230 | Median no./100mL | Enterococci | Result | 10 | 30 | 20 | 10 |
| | | | Pond 2 - Dredge Pond | Quarterly | EMP Section 6.2 | 0 | 40 | mg/L | Manganese | Result | 0.11 |
| 0 | 100 | mg/L | | | | Magnesium | Result | 9.6 | 1.3 | 1.5 | 1.6 |
| 0 | 500 | mg/L | | | | Sodium | Result | 48 | 5.4 | 5.8 | 6.6 |
| 0 | 40 | mg/L | | | | Potassium | Result | 4.5 | 1.4 | 1.5 | 1.3 |
| 0 | 400 | mg/L | | | | Bicarbonate | Result | 20 | 290 | 20 | 20 |
| 0 | 1000 | mg/L | | | | Chloride | Result | 78 | 7.4 | 8.2 | 16 |
| 0 | 800 | mg/L | | | | Sulphate | Result | 200 | 13 | 32 | 34 |
| 0 | 0.5 | mg/L | | | | Soluble Aluminium | Result | 0.05 | 0.11 | 0.5 | 0.11 |
| 0 | 0.005 | µg/L | | | | Arsenic | Result | 0.001 | 0.001 | 0.001 | 0.001 |
| 0 | 20 | mg/L | | | | Ammonium | Result | 0.02 | 0.12 | 0.3 | 0.01 |
| 0 | 20 | µg/L | | | | Soluble Iron | Result | 0.05 | 0.14 | 0.13 | 0.11 |
| 2 | 10 | ug/L | | | | Chlorophyll a | Result | 5 | 5 | 5 | 5 |
| 0 | 1000 | Median no./100mL | | | | Faecal coliforms | Result | 10 | 140 | 10 | 10 |
| 0 | 230 | Median no./100mL | | | | Enterococci | Result | 10 | 230 | 10 | 10 |
| Laboratory report issue date | | | | | | | | | 1/02/2022 & 24/02/2022 | 13/05/2022 & 30/05/2022 | 2/08/2022 & 22/08/2022 |

| 2022 Comments regarding quarterly surface water monitoring outcomes | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Comment 1: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 2: | | | | | | | | | | | | | | | | | | | | | | | | |
| Comment 3: | | | | | | | | | | | | | | | | | | | | | | | | |

