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APPENDIX 8-1

**LABORATORY REPORTS FOR
SURFACE WATER**



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CERTIFICATE OF ANALYSIS

| | |
|----------------------|------------|
| Date Received | 23/06/2021 |
| Date Reported | 02/07/2021 |
| Order Number | P1508 |

Sample Type Surface Water
Client ID Clonbern SW1 Date sampled: 22.06.2021
Date Tested 24/06/2021
ALS ID 4540523

| <u>Test</u> | <u>Result</u> | <u>Unit</u> | <u>Method</u> |
|--------------------------|---------------|-------------|---------------|
| Suspended Solids | <5 | mg / l | P202 |
| Phosphorus | <0.10 | mg/l P | P207 |
| BOD 5 day Total with ATU | <1 | mg/l O2 | P280 |
| Orthophosphate | 0.03 | mg/l P | P281 |
| Chloride | 15.9 | mg/l Cl | P281 |
| Nitrate | 6.0 | mg/l NO3 | P281 |
| Nitrite | <0.05 | mg/l NO2 | P281 |
| Ammonia | 0.03 | mg/l NH3-N | P281 |
| Nitrogen (Total) | 1.6 | mg/L N | P285 |

Sample Type Surface Water
Client ID Clonbern SW1 07.04.2022
Date Tested 08/04/2022
ALS ID 4971720

| <u>Test</u> | <u>Result</u> | <u>Unit</u> | <u>Method</u> |
|--------------------------|---------------|-------------|---------------|
| Suspended Solids | <5 | mg / l | P202 |
| Phosphorus | <0.10 | mg/l P | P207 |
| BOD 5 day Total with ATU | <2 | mg/l O2 | P280 |
| Orthophosphate | <0.02 | mg/l P | P281 |
| Chloride | 18.2 | mg/l Cl | P281 |
| Nitrate | 10.3 | mg/l NO3 | P281 |
| Nitrite | <0.05 | mg/l NO2 | P281 |
| Ammonia | 0.03 | mg/l NH3-N | P281 |
| Nitrogen (Total) | 2.5 | mg/L N | P285 |

Sample Type Surface Water
Client ID Clonbern SW1 08/06/2023
Date Tested 09/06/2023
ALS ID 5606959

| <u>Test</u> | <u>Result</u> | <u>Unit</u> | <u>Method</u> |
|-------------------------|---------------|-------------|---------------|
| Suspended Solids | 6 | mg / l | P202 |
| Phosphorus | <0.10 | mg/l P | P207 |
| BOD 5 day Total | 3 | mg/l O2 | P280* |
| Ammonia | 0.06 | mg/l NH3-N | P281 |
| Chloride | 15.0 | mg/l Cl | P281 |
| Nitrate | <5.0 | mg/l NO3 | P281 |
| Nitrite | <0.05 | mg/l NO2 | P281 |
| Orthophosphate | <0.02 | mg/l P | P281 |
| Total Oxidised Nitrogen | 0.94 | mg/L N | P281 |
| Nitrogen (Total) | <1.0 | mg/L N | P285 |