



DEW - Department of Environment and Water
ATTN: Cristina Vicente
81-95 Waymouth Street
Adelaide
SA 5000 AUSTRALIA

09/02/2022

Dear Cristina

Please find attached the Final Analytical Report for

Customer Service Request: 143419-2022-CSR-1
Account: 143419
Project: AWQC-168204 DEW - Healthy Coorong Healthy Basin - non routine - 21/22

This report has also been sent to: Stephen Madigan

AWQC Sample Receipt hours are Monday and Tuesday 8:30am to 8pm and Wednesday, Thursday and Friday 8:30am to 4:30pm.

Yours sincerely,

Kristina Hickson
Customer Service Officer
Kristina.Hickson@sawater.com.au





FINAL REPORT: 330883

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Report Information

| | |
|--------------|---|
| Project Name | AWQC-168204 |
| Customer | DEW - Department of Environment and Water |
| CSR_ID | 143419-2022-CSR-1 |

Analytical Results

| | |
|---------------------------|-------------------------|
| Sampling Point | 31515-EPA - Snipe Point |
| Sampled Date | 20/01/2022 4:10:00PM |
| Sample Received Date | 21/01/2022 4:08:09PM |
| Sample Analysis Completed | 7/02/2022 10:44:22AM |
| Sample ID | 2022-000-7202 |
| Status | Endorsed |
| Collection Type | Customer Collected |

| Biology Operations | LOR | Result | Test Start Date |
|---|-----|-----------|-----------------|
| <i>Sample temperature at time of receipt 0.8°C</i> | | | |
| Chlorophyll a & Phaeophytin a T0380-02(ADEL) | | | 21/01/2022 |
| Chlorophyll a | 0.1 | 82.4 µg/L | |
| Phaeophytin a | 0.1 | 19.7 µg/L | |

| Inorganic Chemistry - Nutrients | LOR | Result | Test Start Date |
|---|-------|-------------|-----------------|
| <i>Sample temperature at time of receipt 0.8°C</i> | | | |
| Ammonia as N T0100-01(ADEL) | | | 01/02/2022 |
| Ammonia as N | 0.005 | 0.051 mg/L | |
| Nitrate + Nitrite as N T0161-01(ADEL) | | | 04/02/2022 |
| Nitrate + Nitrite as N | 0.003 | <0.003 mg/L | |
| Nitrogen - Total TMZ-M06(ADEL) | | | 21/01/2022 |
| Nitrogen - Total | | 1.54 mg/L | |
| Phosphorus - Filterable Reactive as P T0108-01(ADEL) | | | 04/02/2022 |
| Phosphorus - Filterable Reactive as P | 0.003 | 0.006 mg/L | |
| TKN as N T0112-01(ADEL) | | | 01/02/2022 |
| TKN as Nitrogen | 0.05 | 1.54 mg/L | |



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Analytical Results

| | |
|---------------------------|------------------------------------|
| Sampling Point | 31513-EPA - Parnka Point Boat Ramp |
| Sampled Date | 21/01/2022 7:50:00AM |
| Sample Received Date | 21/01/2022 4:08:03PM |
| Sample Analysis Completed | 7/02/2022 10:44:21AM |
| Sample ID | 2022-000-7189 |
| Status | Endorsed |
| Collection Type | Customer Collected |

| Biology Operations | LOR | Result | Test Start Date |
|---|-----|-----------|-----------------|
| Sample temperature at time of receipt 0.8°C | | | |
| Chlorophyll a & Phaeophytin a T0380-02(ADEL) | | | 21/01/2022 |
| Chlorophyll a | 0.1 | 13.5 µg/L | |
| Phaeophytin a | 0.1 | 4.76 µg/L | |

| Inorganic Chemistry - Nutrients | LOR | Result | Test Start Date |
|---|-------|-------------|-----------------|
| Sample temperature at time of receipt 0.8°C | | | |
| Ammonia as N T0100-01(ADEL) | | | 01/02/2022 |
| Ammonia as N | 0.005 | <0.005 mg/L | |
| Nitrate + Nitrite as N T0161-01(ADEL) | | | 04/02/2022 |
| Nitrate + Nitrite as N | 0.003 | <0.003 mg/L | |
| Nitrogen - Total TMZ-M06(ADEL) | | | 21/01/2022 |
| Nitrogen - Total | | 1.52 mg/L | |
| Phosphorus - Filterable Reactive as P T0108-01(ADEL) | | | 04/02/2022 |
| Phosphorus - Filterable Reactive as P | 0.003 | 0.003 mg/L | |
| TKN as N T0112-01(ADEL) | | | 01/02/2022 |
| TKN as Nitrogen | 0.05 | 1.52 mg/L | |



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Analytical Results

| | |
|---------------------------|------------------------|
| Sampling Point | 31523-EPA - Long Point |
| Sampled Date | 21/01/2022 9:50:00AM |
| Sample Received Date | 21/01/2022 4:08:14PM |
| Sample Analysis Completed | 7/02/2022 10:44:22AM |
| Sample ID | 2022-000-7188 |
| Status | Endorsed |
| Collection Type | Customer Collected |

| Biology Operations | LOR | Result | Test Start Date |
|---|-----|-----------|-----------------|
| Sample temperature at time of receipt 0.8°C | | | |
| Chlorophyll a & Phaeophytin a T0380-02(ADEL) | | | 21/01/2022 |
| Chlorophyll a | 0.1 | 3.43 µg/L | |
| Phaeophytin a | 0.1 | 1.63 µg/L | |

| Inorganic Chemistry - Nutrients | LOR | Result | Test Start Date |
|---|-------|-------------|-----------------|
| Sample temperature at time of receipt 0.8°C | | | |
| Ammonia as N T0100-01(ADEL) | | | 01/02/2022 |
| Ammonia as N | 0.005 | <0.005 mg/L | |
| Nitrate + Nitrite as N T0161-01(ADEL) | | | 04/02/2022 |
| Nitrate + Nitrite as N | 0.003 | 0.004 mg/L | |
| Nitrogen - Total TMZ-M06(ADEL) | | | 21/01/2022 |
| Nitrogen - Total | | 1.55 mg/L | |
| Phosphorus - Filterable Reactive as P T0108-01(ADEL) | | | 04/02/2022 |
| Phosphorus - Filterable Reactive as P | 0.003 | <0.003 mg/L | |
| TKN as N T0112-01(ADEL) | | | 01/02/2022 |
| TKN as Nitrogen | 0.05 | 1.55 mg/L | |



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AWQC Signatories

David Evans - Technical Officer Chemistry

Dean Newman - Senior Technical Officer Biology

Gayle Polley - Supervisor Nutrients and Waste



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Analytical Method

| Analytical Method Code | Description | Reference Method |
|------------------------|---|------------------|
| T0380-02 | Chlorophyll a & b and phaeophytin | ISO10260 |
| TMZ-M06 | Derived Results and Data Checks | AP4500NORGA |
| T0100-01 | Ammonia/Ammonium - Automated Flow Colorimetry | AP4500NH3G |
| T0108-01 | Filterable Reactive Phosphorus - Automated Flow Colorimetry | AP4500PG |
| T0112-01 | Nitrogen- Total Kjeldahl by discrete analyser | AP4500NORGA |
| T0161-01 | Nitrate + Nitrate (NOx) - Automated Flow Colorimetry | AP4500NO3I |

Laboratory Information

| Laboratory | NATA accreditation ID |
|---------------------------------|-----------------------|
| Inorganic Chemistry - Nutrients | 1115 |
| Biology Operations | 1115 |



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- Notes
1. The last figure of the result value is a significant figure.
 2. # determination of the component is not covered by NATA Accreditation.
 3. ^ indicates result is out of specification according to the reference guideline. Refer to report footer.
 4. * indicates an incident has been recorded against the sample. Refer to report footer.
 5. & Indicates the results have changed since the last issued report.
 6. Where a result is required to meet compliance limits the associated measurement uncertainty must be considered. Measurement uncertainty is available at <https://www.awqc.com.au/our-services/Water-quality-testing-and-analysis/measurement-uncertainty>
 7. Uncertainty of Measurement is reported with a coverage factor of 2 providing approximately 95% confidence interval
 8. The Limit of Reporting (LOR) is the lowest concentration of analyte which is reported at the AWQC and is based on the LOQ rounded up to a more readily used value. The Limit of Quantitation (LOQ) is the lowest concentration of analyte for which quantitative results may be obtained within a specified degree of confidence.
 9. Where collection type is AWQC Collect, NATA has confirmed that due to a robust system in place for maintaining the temperature integrity for samples collected by AWQC's Field Laboratory Services, the recording of temperature when samples arrive at the AWQC is out of scope.
 10. If pH has been tested then the pH will be outside of its holding time unless measured in the field.
 11. (ADEL) indicates analysed in Adelaide, (MELB) indicates analysed in Melbourne.