# CERTIFICATE OF ANALYSIS

| | | | |
|---|---|---|---|
| **Work Order** | : **ES2408072** | Page | : 1 of 4 |
| Client | : **INTEGRA WATER TREATMENT SOLUTIONS** | Laboratory | : Environmental Division Sydney |
| Contact | : SAMPLE RESULTS | Contact | : Wael Saleh |
| Address | : UNIT B 195 PORT HACKING ROAD<br>MIRANDA NSW, AUSTRALIA 2228 | Address | : 277-289 Woodpark Road Smithfield NSW Australia 2164 |
| Telephone | : ---- | Telephone | : +61 2 8784 8555 |
| Project | : Alexander Downs Wholesale Meats | Date Samples Received | : 12-Mar-2024 15:35 |
| Order number | : ---- | Date Analysis Commenced | : 12-Mar-2024 |
| C-O-C number | : ---- | Issue Date | : 20-Mar-2024 11:50 |
| Sampler | : MICHAEL AXE | | |
| Site | : AD/ Kurri Meats | | |
| Quote number | : EN/222 | | |
| No. of samples received | : 4 | | |
| No. of samples analysed | : 4 | | |

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

**Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.**

## *Signatories*

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

| *Signatories* | *Position* | *Accreditation Category* |
|---|---|---|
| Ankit Joshi | Senior Chemist - Inorganics | Sydney Inorganics, Smithfield, NSW |

## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EK057G, EK059G: NOx and Nitrite on sample no.4 confirmed by re-analysis
- TDS by method EA-015 may bias high for sample1 due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

## Analytical Results

Sub-Matrix: WATER
(Matrix: WATER)

| Compound | CAS Number | LOR | Unit | Sample ID | wastewater treatment plant in | wastewater treatment plant out | Pond Number 2 | Pond Number 3 | ---- |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Sampling date / time | 12-Mar-2024 13:15 | 12-Mar-2024 13:20 | 12-Mar-2024 13:25 | 12-Mar-2024 13:35 | ---- |
| | | | | | ES2408072-001 | ES2408072-002 | ES2408072-003 | ES2408072-004 | -------- |
| | | | | | Result | Result | Result | Result | ---- |
| **EA005P: pH by PC Titrator** | | | | | | | | | |
| pH Value | ---- | 0.01 | pH Unit | | **7.27** | **7.43** | **7.99** | **8.11** | **----** |
| **EA006: Sodium Adsorption Ratio (SAR)** | | | | | | | | | |
| ^ Sodium Adsorption Ratio | ---- | 0.01 | - | | **8.76** | **11.6** | **10.0** | **10.8** | **----** |
| **EA010P: Conductivity by PC Titrator** | | | | | | | | | |
| Electrical Conductivity @ 25°C | ---- | 1 | µS/cm | | **1320** | **2120** | **1730** | **2090** | **----** |
| **EA015: Total Dissolved Solids dried at 180 ± 5 °C** | | | | | | | | | |
| Total Dissolved Solids @180°C | ---- | 10 | mg/L | | **1260** | **1380** | **899** | **1060** | **----** |
| **EA025: Total Suspended Solids dried at 104 ± 2°C** | | | | | | | | | |
| Suspended Solids (SS) | ---- | 5 | mg/L | | **1430** | **1070** | **154** | **162** | **----** |
| **ED093F: Dissolved Major Cations** | | | | | | | | | |
| Calcium | 7440-70-2 | 1 | mg/L | | **----** | **----** | **----** | **21** | **----** |
| Magnesium | 7439-95-4 | 1 | mg/L | | **----** | **----** | **----** | **12** | **----** |
| Sodium | 7440-23-5 | 1 | mg/L | | **----** | **----** | **----** | **250** | **----** |
| Potassium | 7440-09-7 | 1 | mg/L | | **----** | **----** | **----** | **118** | **----** |
| **EK055G: Ammonia as N by Discrete Analyser** | | | | | | | | | |
| Ammonia as N | 7664-41-7 | 0.01 | mg/L | | **----** | **----** | **----** | **89.8** | **----** |
| **EK057G: Nitrite as N by Discrete Analyser** | | | | | | | | | |
| Nitrite as N | 14797-65-0 | 0.01 | mg/L | | **----** | **----** | **----** | **0.28** | **----** |
| **EK058G: Nitrate as N by Discrete Analyser** | | | | | | | | | |
| Nitrate as N | 14797-55-8 | 0.01 | mg/L | | **----** | **----** | **----** | <0.01 | **----** |
| **EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser** | | | | | | | | | |
| Nitrite + Nitrate as N | ---- | 0.01 | mg/L | | **----** | **----** | **----** | **0.06** | **----** |
| **EK061G: Total Kjeldahl Nitrogen By Discrete Analyser** | | | | | | | | | |
| Total Kjeldahl Nitrogen as N | ---- | 0.1 | mg/L | | **----** | **----** | **----** | **91.4** | **----** |
| **EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser** | | | | | | | | | |
| ^ Total Nitrogen as N | ---- | 0.1 | mg/L | | **----** | **----** | **----** | **91.5** | **----** |
| **EK067G: Total Phosphorus as P by Discrete Analyser** | | | | | | | | | |
| Total Phosphorus as P | ---- | 0.01 | mg/L | | **----** | **----** | **----** | **4.88** | **----** |

## Analytical Results

| Sub-Matrix: WATER (Matrix: WATER) | | | Sample ID | wastewater treatment plant in | wastewater treatment plant out | Pond Number 2 | Pond Number 3 | ---- |
|---|---|---|---|---|---|---|---|---|
| | | | Sampling date / time | 12-Mar-2024 13:15 | 12-Mar-2024 13:20 | 12-Mar-2024 13:25 | 12-Mar-2024 13:35 | ---- |
| Compound | CAS Number | LOR | Unit | ES2408072-001 | ES2408072-002 | ES2408072-003 | ES2408072-004 | -------- |
| | | | | Result | Result | Result | Result | ---- |
| **EP020: Oil and Grease (O&G)** | | | | | | | | |
| **Oil & Grease** | ---- | 5 | mg/L | **----** | **----** | **----** | **8** | **----** |
| **EP030: Biochemical Oxygen Demand (BOD)** | | | | | | | | |
| **Biochemical Oxygen Demand** | ---- | 2 | mg/L | **----** | **----** | **----** | **11** | **----** |
| **EP030: Carbonaceous Biochemical Oxygen Demand (CBOD)** | | | | | | | | |
| **CBOD** | ---- | 2 | mg/L | **----** | **----** | **----** | **10** | **----** |