

# **CERTIFICATE OF ANALYSIS**

Work Order : ES2321727

Client : DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)

Contact : OEH

Address

Lidcombe 2141

Telephone : ----

Project : 20230233 Order number : 4500806025

C-O-C number : ---Sampler : ---Site : ---Quote number : EN/222
No. of samples received : 32
No. of samples analysed : 32

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Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address

Telephone

Date Samples Received : 29-Jun-2023 15:25

Date Analysis Commenced : 29-Jun-2023

Issue Date : 04-Jul-2023 13:46



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
- Surrogate Control Limits

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

Senior Chemist - Inorganics LCMS Coordinator Sydney Inorganics, Smithfield, NSW Sydney Organics, Smithfield, NSW

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#### **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.
- EP202: Poor matrix spike recoveries for Picloram and Clopyralid due to matrix effects.
- EK271A-CM: Samples for Ultra-Trace Reactive Phosphorus by FIA should be frozen upon sampling. If not, low-level results (below 0.01 mg/L) may bias low.

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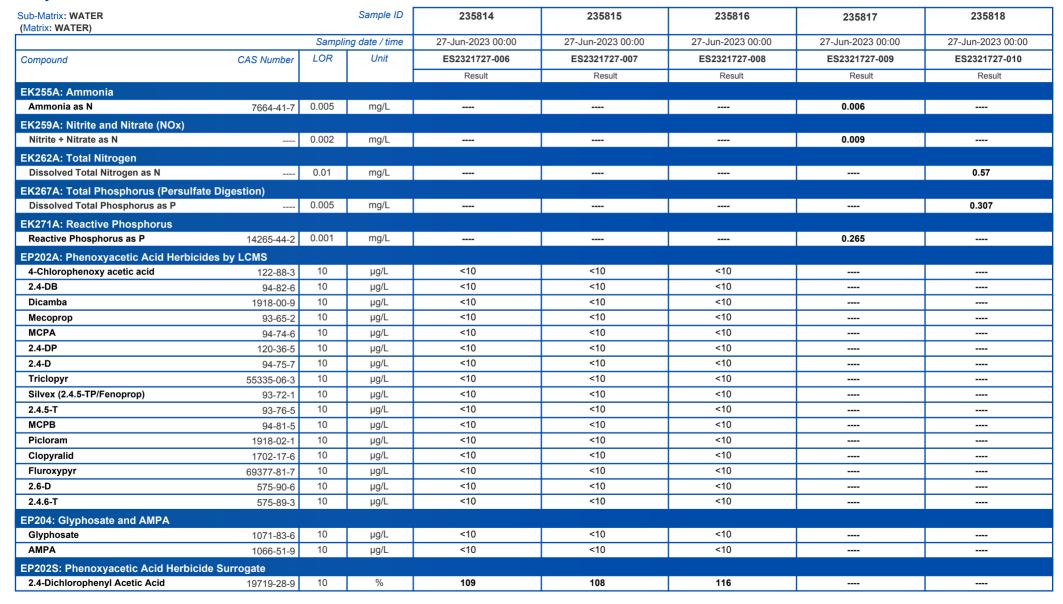




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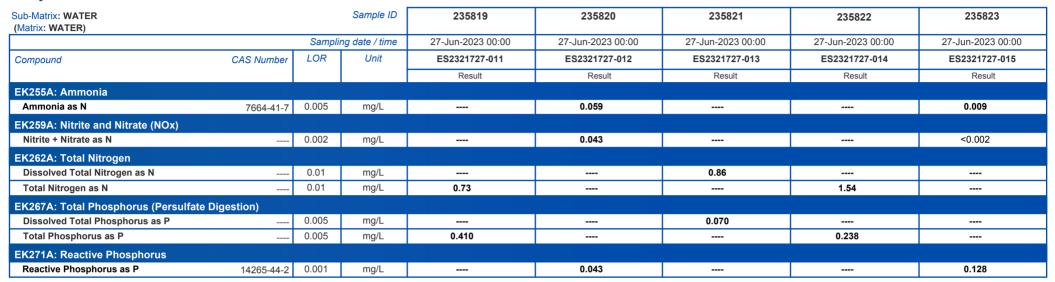




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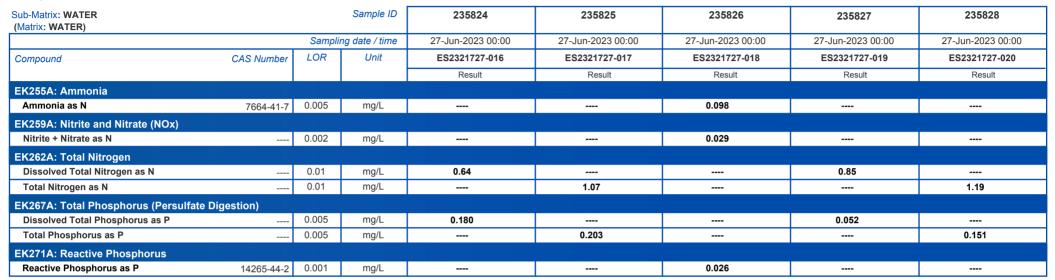




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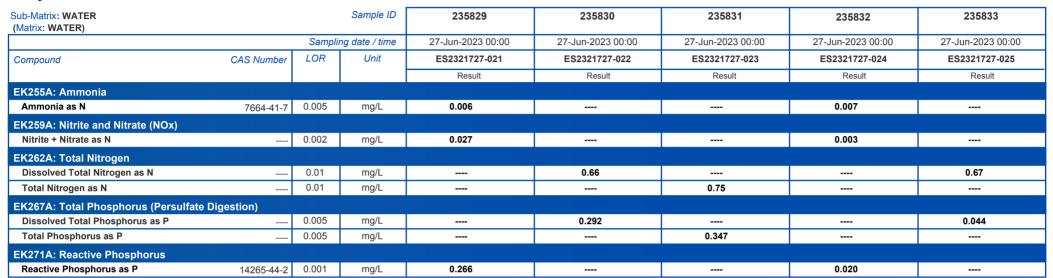




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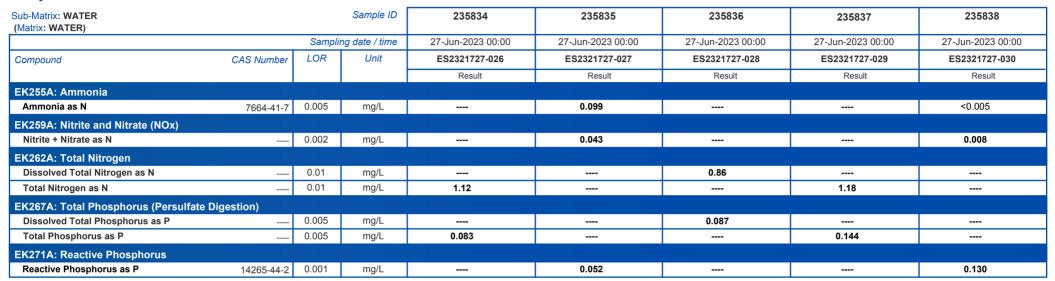




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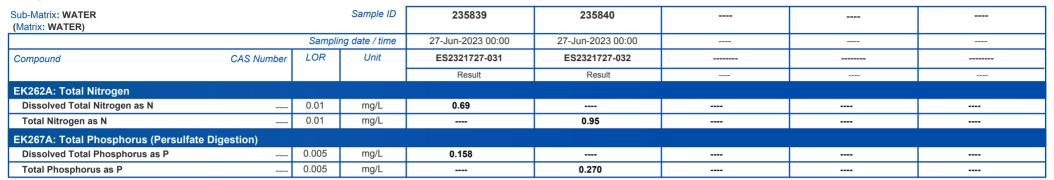




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# **Surrogate Control Limits**

