CERTIFICATE OF ANALYSIS

Work Order	: **EW2404384**	Page	: 1 of 2
Client	: **KIAMA COUNCIL**	Laboratory	: Environmental Division NSW South Coast
Contact	: Guy Stearn	Contact	: Aneta Prosaroski
Address	: 11 MANNING STREET KIAMA NSW, AUSTRALIA 2533	Address	: 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia
Telephone	: ----	Telephone	: 02 42253125
Project	: Minnamurra Landfill Monthly	Date Samples Received	: 26-Sep-2024 12:00
Order number	: PO23779	Date Analysis Commenced	: 26-Sep-2024
C-O-C number	: ----	Issue Date	: 08-Nov-2024 18:24
Sampler	: Robert DaLio		
Site	: ----		
Quote number	: EW2023KIACOU0002 V2		
No. of samples received	: 2		
No. of samples analysed	: 2		

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
Robert DaLio	Sampler	Laboratory - Wollongong, 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.

- pH performed by ALS Wollongong via in-house method EA005FD and EN67 PK.
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- All field analysis performed by ALS Wollongong were completed at the time of sampling.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.4 Lakes and Reservoirs
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.10 Wastewaters

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	Unlined Dam	Holding Tank	----	----	----
			Sampling date / time	26-Sep-2024 09:00	26-Sep-2024 08:45	----	----	----
Compound	CAS Number	LOR	Unit	EW2404384-001	EW2404384-002	--------	--------	--------
				Result	Result	----	----	----
EA005FD: Field pH								
pH	----	0.1	pH Unit	**7.4**	**7.5**	**----**	**----**	**----**
EA005P: pH by PC Titrator								
pH Value	----	0.01	pH Unit	**7.86**	**8.20**	**----**	**----**	**----**
EA010FD: Field Conductivity								
Conductivity @ 25oC	----	1	µS/cm	**1820**	**1890**	**----**	**----**	**----**
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	**13.2**	**20.8**	**----**	**----**	**----**

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EA005P: pH by PC Titrator

(WATER) EK055G: Ammonia as N by Discrete Analyser