

CERTIFICATE OF ANALYSIS

Work Order : **EW2101345**
Client : **KIAMA COUNCIL**
Contact : MR PAUL CZULOWSKI
Address : 11 MANNING STREET
 KIAMA NSW, AUSTRALIA 2533

Telephone : +61 02 4232 0444
Project : Gerroa Landfill Ammonia Testing
Order number : 126591
C-O-C number : ----
Sampler : Tom Roose
Site : ----
Quote number : WO/015/18
No. of samples received : 9
No. of samples analysed : 9

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Laboratory : Environmental Division NSW South Coast
Contact : Aneta Prosaroski
Address : 1/19 Ralph Black Dr, North Wollongong 2500
 4/13 Geary Pl, North Nowra 2541
 Australia NSW Australia

Telephone : 02 42253125
Date Samples Received : 25-Mar-2021 14:40
Date Analysis Commenced : 27-Mar-2021
Issue Date : 01-Apr-2021 17:04



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	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 Contact 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.

- Analytical work for this work order will be conducted at ALS Sydney.



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MW 1D	MW 3	MW 5	MW 6D	MW 7D
Sampling date / time					25-Mar-2021 10:47	25-Mar-2021 10:36	25-Mar-2021 10:25	25-Mar-2021 11:38	25-Mar-2021 10:09
Compound	CAS Number	LOR	Unit		EW2101345-001	EW2101345-002	EW2101345-003	EW2101345-004	EW2101345-005
					Result	Result	Result	Result	Result
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L		12.0	0.45	<0.01	45.8	22.0



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	MW 11	MW 12	MW 13	MW 14	----
Sampling date / time				25-Mar-2021 11:56	25-Mar-2021 11:10	25-Mar-2021 10:59	25-Mar-2021 11:21	----	
Compound	CAS Number	LOR	Unit	EW2101345-006	EW2101345-007	EW2101345-008	EW2101345-009	-----	
				Result	Result	Result	Result	----	
EK055G: Ammonia as N by Discrete Analyser									
Ammonia as N	7664-41-7	0.01	mg/L	0.66	36.8	27.6	71.1	----	

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EK055G: Ammonia as N by Discrete Analyser