

CERTIFICATE OF ANALYSIS

Work Order : **ES2029462** Page : 1 of 2

Amendment : 1

Client : Paraway Pastoral Company Limited : Environmental Division Sydney

Contact : Paul McDougall Contact : Customer Services ES

Address : 70 McNamara Street Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Orange 2800

 Telephone
 : -- Telephone
 : +61-2-8784 8555

 Project
 : 13143-20
 Date Samples Received
 : 21-Aug-2020 10:39

 Order number
 : -- Date Analysis Commenced
 : 22-Aug-2020

 C-O-C number
 : -- Issue Date
 : 02-Sep-2020 16:18

Sampler ; Paul McDougall

Site : ----

Quote number : EN/333

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. 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 Inorganic Chemist Sydney Inorganics, Smithfield, NSW Ashesh Patel Senior Chemist Sydney Inorganics, Smithfield, NSW Sydney Inorganics, Smithfield, NSW

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ALS

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.
- EK067G: LOR raised for TP on samples 2, 3 and 4 due to sample matrix.
- EK055G: It has been noted that Ammonia is greater than TKN on sample 3, however this difference is within the limits of experimental variation.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Client sample ID			EPA5 Lateral	EPA6 Feedlot	EPA7 Tip	EPA8 NW of feedlot	
	CI	ient sampl	ing date / time	20-Aug-2020 00:00	20-Aug-2020 00:00	20-Aug-2020 00:00	20-Aug-2020 00:00	
Compound	CAS Number	LOR	Unit	ES2029462-001	ES2029462-002	ES2029462-003	ES2029462-004	
				Result	Result	Result	Result	
EA005P: pH by PC Titrator								
pH Value		0.01	pH Unit	7.64	4.34	3.73	3.91	
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C		1	μS/cm	9420	21400	23700	22800	
EK055G: Ammonia as N by Discrete A	nalyser							
Ammonia as N	7664-41-7	0.01	mg/L	0.05	0.91	1.81	1.14	
EK058G: Nitrate as N by Discrete Anal	lyser							
Nitrate as N	14797-55-8	0.01	mg/L	48.3	0.27	0.12	44.3	
EK059G: Nitrite plus Nitrate as N (NOx	t) by Discrete Ana	lyser						
Nitrite + Nitrate as N		0.01	mg/L	48.4	0.27	0.12	44.3	
EK061G: Total Kjeldahl Nitrogen By Di	screte Analyser							
Total Kjeldahl Nitrogen as N		0.1	mg/L	3.5	3.0	1.8	3.0	
EK062G: Total Nitrogen as N (TKN + No	Ox) by Discrete Ar	alyser						
^ Total Nitrogen as N		0.1	mg/L	51.9	3.3	1.9	47.3	
EK067G: Total Phosphorus as P by Dis	screte Analyser							
Total Phosphorus as P		0.01	mg/L	0.14	<0.05	<0.05	<0.05	