

## CERTIFICATE OF ANALYSIS

Work Order	ES2314134	Page	: 1 of 4		
Client	: NSW OFFICE OF ENVIRONMENT AND HERITAGE	Laboratory	Environmental Division Sydney		
Contact	: Oeh Forensics	Contact	: Customer Services ES		
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Project	: 20230135	Date Samples Received	: 01-May-2023 13:00		
Order number	: 4500806025	Date Analysis Commenced	: 01-May-2023		
C-O-C number	:	Issue Date	03-May-2023 17:52		
Sampler	:				
Site	:				
Quote number	: EN/222		Accreditation No. 825		
No. of samples received	: 3		Accredited for compliance with		
No. of samples analysed	: 3		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
- 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



#### **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.

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## Analytical Results

Sub-Matrix: WATER			Sample ID	232686	232690	232694	 
(Matrix: WATER) Sampling date / time			27-Apr-2023 00:00	27-Apr-2023 00:00	27-Apr-2023 00:00	 	
Compound	CAS Number	LOR	Unit	ES2314134-001	ES2314134-002	ES2314134-003	 
Compound	CAS Nulliber	LON	Onne	Result	Result	Result	 
EK055G: Ammonia as N by Discrete	Analyzar			Result	Result	Result	 
Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	<0.01	 
			ilig/L	<b>\U.U1</b>	<b>VU.U1</b>	<b>NO.01</b>	 
EK059G: Nitrite plus Nitrate as N (N Nitrite + Nitrate as N	NOX) by Discrete Ana	0.01	mg/l	<0.01	<0.01	<0.01	
		0.01	mg/L	<0.01	<0.01	<0.01	 
EK061G: Total Kjeldahl Nitrogen By	/ Discrete Analyser	0.4					
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.9	5.4	2.0	 
EK062G: Total Nitrogen as N (TKN +	+ NOx) by Discrete Ar						
^ Total Nitrogen as N		0.1	mg/L	0.9	5.4	2.0	 
EK067G: Total Phosphorus as P by	Discrete Analyser						
Total Phosphorus as P		0.01	mg/L	0.46	0.53	0.40	 
EK071G: Reactive Phosphorus as P	by discrete analyser						
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.22	<0.01	0.16	 
EP202A: Phenoxyacetic Acid Herbio	cides by LCMS						
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	<10	 
2.4-DB	94-82-6	10	µg/L	<10	<10	<10	 
Dicamba	1918-00-9	10	µg/L	<10	<10	<10	 
Mecoprop	93-65-2	10	µg/L	<10	<10	<10	 
MCPA	<mark>9</mark> 4-74-6	10	µg/L	<10	<10	<10	 
2.4-DP	120-36-5	10	µg/L	<10	<10	<10	 
2.4-D	94-75-7	10	µg/L	<10	<10	<10	 
Triclopyr	55335-06-3	10	µg/L	<10	<10	<10	 
Silvex (2.4.5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	<10	 
2.4.5-T	93-76-5	10	µg/L	<10	<10	<10	 
МСРВ	94-81-5	10	µg/L	<10	<10	<10	 
Picloram	1918-02-1	10	µg/L	<10	<10	<10	 
Clopyralid	1702-17-6	10	µg/L	<10	<10	<10	 
Fluroxypyr	69377-81-7	10	µg/L	<10	<10	<10	 
2.6-D	575-90-6	10	µg/L	<10	<10	<10	 
2.4.6-T	575-89-3	10	µg/L	<10	<10	<10	 
EP204: Glyphosate and AMPA							
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	 
AMPA	1066-51-9	10	µg/L	<10	<10	<10	 
EP202S: Phenoxyacetic Acid Herbio	cide Surrogate						
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	103	109	106	 



### Surrogate Control Limits

Sub-Matrix: WATER	Recovery Limits (%)						
Compound	CAS Number	Low	High				
EP202S: Phenoxyacetic Acid Herbicide Surrogate							
2.4-Dichlorophenyl Acetic Acid	19719-28-9	64	140				