



# CERTIFICATE OF ANALYSIS

**Work Order** : **ES2320247**  
**Client** : **DEPARTMENT OF PLANNING AND ENVIRONMENT (NSW-DPE)**  
**Contact** : **OEH**  
**Address** : **[REDACTED]**  
**Telephone** : **[REDACTED]**  
**Project** : **20230213**  
**Order number** : **4500806025**  
**C-O-C number** : **[REDACTED]**  
**Sampler** : **[REDACTED]**  
**Site** : **[REDACTED]**  
**Quote number** : **EN/222**  
**No. of samples received** : **7**  
**No. of samples analysed** : **7**

**Page** : 1 of 5  
**Laboratory** : Environmental Division Sydney  
**Contact** : Customer Services ES  
**Address** : **[REDACTED]**  
**Telephone** : **[REDACTED]**  
**Date Samples Received** : 19-Jun-2023 14:15  
**Date Analysis Commenced** : 21-Jun-2023  
**Issue Date** : 26-Jun-2023 13:00



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
- 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
[REDACTED]	LCMS Coordinator	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.



## Analytical Results

Sub-Matrix: LIQUID  
 (Matrix: WATER)

Sample ID

				E8-4 235204	E9-4 235205	E10-4 235206	B4-4 235207	E6-4 235208
Sampling date / time				14-Jun-2023 00:00	14-Jun-2023 00:00	14-Jun-2023 00:00	14-Jun-2023 00:00	14-Jun-2023 00:00
Compound	CAS Number	LOR	Unit	ES2320247-001	ES2320247-002	ES2320247-003	ES2320247-004	ES2320247-005
				Result	Result	Result	Result	Result
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>								
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	<10	<10	<10
2,4-DB	94-82-6	10	µg/L	<10	<10	<10	<10	<10
Dicamba	1918-00-9	10	µg/L	<10	<10	<10	<10	<10
Mecoprop	93-65-2	10	µg/L	<10	<10	<10	<10	<10
MCPA	94-74-6	10	µg/L	<10	<10	<10	<10	<10
2,4-DP	120-36-5	10	µg/L	<10	<10	<10	<10	<10
2,4-D	94-75-7	10	µg/L	<10	<10	<10	<10	<10
Triclopyr	55335-06-3	10	µg/L	<10	<10	<10	<10	<10
Silvex (2,4,5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	<10	<10	<10
2,4,5-T	93-76-5	10	µg/L	<10	<10	<10	<10	<10
MCPB	94-81-5	10	µg/L	<10	<10	<10	<10	<10
Picloram	1918-02-1	10	µg/L	<10	<10	<10	<10	<10
Clopyralid	1702-17-6	10	µg/L	<10	<10	<10	<10	<10
Fluroxypyr	69377-81-7	10	µg/L	<10	<10	<10	<10	<10
2,6-D	575-90-6	10	µg/L	<10	<10	<10	<10	<10
2,4,6-T	575-89-3	10	µg/L	<10	<10	<10	<10	<10
<b>EP204: Glyphosate and AMPA</b>								
Glyphosate	1071-83-6	10	µg/L	<10	<10	<10	<10	<10
AMPA	1066-51-9	10	µg/L	<10	<10	<10	<10	<10
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>								
2,4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	114	113	118	111	101



## Analytical Results

Sub-Matrix: LIQUID (Matrix: WATER)		Sample ID		E6.5-4 235209	E7-4 235210	----	----	----
Sampling date / time		14-Jun-2023 00:00		14-Jun-2023 00:00		----	----	----
Compound	CAS Number	LOR	Unit	ES2320247-006	ES2320247-007	-----	-----	-----
				Result	Result	----	----	----
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>								
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	<10	<10	----	----	----
2.4-DB	94-82-6	10	µg/L	<10	<10	----	----	----
Dicamba	1918-00-9	10	µg/L	<10	<10	----	----	----
Mecoprop	93-65-2	10	µg/L	<10	<10	----	----	----
MCPA	94-74-6	10	µg/L	<10	<10	----	----	----
2.4-DP	120-36-5	10	µg/L	<10	<10	----	----	----
2.4-D	94-75-7	10	µg/L	<10	<10	----	----	----
Triclopyr	55335-06-3	10	µg/L	<10	<10	----	----	----
Silvex (2.4.5-TP/Fenoprop)	93-72-1	10	µg/L	<10	<10	----	----	----
2.4.5-T	93-76-5	10	µg/L	<10	<10	----	----	----
MCPB	94-81-5	10	µg/L	<10	<10	----	----	----
Picloram	1918-02-1	10	µg/L	<10	<10	----	----	----
Clopyralid	1702-17-6	10	µg/L	<10	<10	----	----	----
Fluroxypyr	69377-81-7	10	µg/L	<10	<10	----	----	----
2.6-D	575-90-6	10	µg/L	<10	<10	----	----	----
2.4.6-T	575-89-3	10	µg/L	<10	<10	----	----	----
<b>EP204: Glyphosate and AMPA</b>								
Glyphosate	1071-83-6	10	µg/L	<10	<10	----	----	----
AMPA	1066-51-9	10	µg/L	<10	<10	----	----	----
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>								
2.4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	108	102	----	----	----



### Surrogate Control Limits

Sub-Matrix: LIQUID		Recovery Limits (%)	
Compound	CAS Number	Low	High
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>			
2,4-Dichlorophenyl Acetic Acid	19719-28-9	64	140