



## CERTIFICATE OF ANALYSIS

Work Order	: EP2311700	Page	: 1 of 15
Client	: Kimberley Agricultural Investment	Laboratory	: Environmental Division Perth
Contact	: Wayne Paul	Contact	: Customer Services EP
Address	: PO Box 2531 Kunanurra 6743	Address	: 26 Rigali Way Wangara WA Australia 6065
Telephone	: 08 9169 3113	Telephone	: +61-8-9406 1301
Project	: 2023 Goomig high intensity post wet Keep data	Date Samples Received	: 28-Aug-2023 08:00
Order number	: ----	Date Analysis Commenced	: 28-Aug-2023
C-O-C number	: ----	Issue Date	: 04-Sep-2023 13:44
Sampler	: Wayne Paul		
Site	: ----		
Quote number	: EP/823/22		
No. of samples received	: 7		
No. of samples analysed	: 7		



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
Canhuang Ke	Inorganics Supervisor	Perth Inorganics, Wangara, WA
Chris Lemaitre	Laboratory Manager (Perth)	Perth Inorganics, Wangara, WA
Edwandy Fadjar	Organic Coordinator	Sydney Organics, Smithfield, NSW
Franco Lentini	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.

- EP202: Poor matrix spike recovery has been detected due to sample matrix interferences.
- EP234: Poor matrix spike recovery for particular compounds due to matrix interferences and high matrix spike recovery has been noted for particular compounds due to ion enhancement.



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 3	Y 10	Y 11	Y 12	Y 13
Sampling date / time					23-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	01-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		EP2311700-002	EP2311700-003	EP2311700-004	EP2311700-005	EP2311700-006
					Result	Result	Result	Result	Result
<b>EA005P: pH by PC Titrator</b>									
pH Value	----	0.01	pH Unit		<b>7.24</b>	<b>7.65</b>	<b>7.80</b>	<b>7.32</b>	<b>7.51</b>
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L		<b>65</b>	<b>118</b>	<b>167</b>	<b>180</b>	----
<b>EA045: Turbidity</b>									
Turbidity	----	0.1	NTU		<b>21.0</b>	<b>2.0</b>	<b>50.0</b>	<b>100</b>	<b>170</b>
<b>EP068A: Organochlorine Pesticides (OC)</b>									
Ø Dichlobenil	1194-65-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Ø Dicofol	115-32-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>									
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L		<10	<10	<10	<10	----
2,4-DB	94-82-6	10	µg/L		<10	<10	<10	<10	----
Dicamba	1918-00-9	10	µg/L		<10	<10	<10	<10	----
Mecoprop	93-65-2	10	µg/L		<10	<10	<10	<10	----
MCPA	94-74-6	10	µg/L		<10	<10	<10	<10	----
2,4-DP	120-36-5	10	µg/L		<10	<10	<10	<10	----
2,4-D	94-75-7	10	µg/L		<10	<10	<10	<10	----
Triclopyr	55335-06-3	10	µg/L		<10	<10	<10	<10	----
Silvex (2,4,5-TP/Fenoprop)	93-72-1	10	µg/L		<10	<10	<10	<10	----
2,4,5-T	93-76-5	10	µg/L		<10	<10	<10	<10	----
MCPB	94-81-5	10	µg/L		<10	<10	<10	<10	----
Picloram	1918-02-1	10	µg/L		<10	<10	<10	<10	----
Clopyralid	1702-17-6	10	µg/L		<10	<10	<10	<10	----
Fluroxypyr	69377-81-7	10	µg/L		<10	<10	<10	<10	----
2,6-D	575-90-6	10	µg/L		<10	<10	<10	<10	----
2,4,6-T	575-89-3	10	µg/L		<10	<10	<10	<10	----
<b>EP234: Multiresidue Pesticides</b>									
3-Hydroxy Carbofuran	16655-82-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Abamectin	71751-41-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Acephate	30560-19-1	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Alachlor	15972-60-8	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Aldicarb	116-06-3	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Ametryn	834-12-8	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Aminopyralid	150114-71-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Amitraz	33089-61-1	100	µg/L		<100	<100	<100	<100	----



## Analytical Results

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Compound	CAS Number	LOR	Unit		EP2311700-002	EP2311700-003	EP2311700-004	EP2311700-005	EP2311700-006
					Result	Result	Result	Result	Result
<b>EP234: Multiresidue Pesticides - Continued</b>									
Asulam	3337-71-1	2	µg/L		<2	<2	<2	<2	----
Atrazine	1912-24-9	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Atrazine-desethyl	6190-65-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Atrazine-desisopropyl	1007-28-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Azinphos-ethyl	2642-71-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Azinphos-methyl	86-50-0	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Azoxystrobin	131860-33-8	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Bendiocarb	22781-23-3	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	----
Benomyl	17804-35-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Bensulfuron methyl	83055-99-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Bensulide	741-58-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Boscalid	188425-85-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Brodifacoum	56073-10-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Bromacil	314-40-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Bromophos-ethyl	4824-78-6	0.10	µg/L		<0.10	<0.10	<0.10	<0.10	----
Bromoxynil	1689-84-5	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Butachlor	23184-66-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Carbaryl	63-25-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Carbendazim (Thiophanate methyl)	10605-21-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Carbofenothion	786-19-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Carbofuran	1563-66-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Carboxin	5234-68-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Carfentrazone-ethyl	128639-02-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Chlorantraniliprole	500008-45-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Chlorfenvinphos	470-90-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Chloroxuron	1982-47-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Chlorpyrifos	2921-88-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Chlorpyrifos-methyl	5598-13-0	0.2	µg/L		<0.2	<0.2	<0.2	<0.2	----
Chlorsulfuron	64902-72-3	0.2	µg/L		<0.2	<0.2	<0.2	<0.2	----
Coumaphos	56-72-4	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Cyanazine	21725-46-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Cyproconazole	94361-06-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Cyprodinil	121552-61-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Cyromazine	66215-27-8	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----



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					Result	Result	Result	Result	Result
<b>EP234: Multiresidue Pesticides - Continued</b>									
Demeton-O	298-03-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Demeton-O & Demeton-S	298-03-3/126-75-0	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Demeton-S	126-75-0	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Demeton-S-methyl	919-86-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Diazinon	333-41-5	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Dichlorprop-P	15165-67-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Dichlorvos	62-73-7	0.20	µg/L		<0.20	<0.20	<0.20	<0.20	----
Diclofop-methyl	51338-27-3	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Difenoconazole	119446-68-3	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Diffubenzuron	35367-38-5	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Diffufenican	83164-33-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Dimethoate	60-51-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Diphenamid	957-51-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Disulfoton	298-04-4	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Diuron	330-54-1	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Endothal	145-73-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
EPN	2104-64-5	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
EPTC	759-94-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Ethion	563-12-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Ethoprophos	13194-48-4	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Etridiazole	2593-15-9	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Fenamiphos	22224-92-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Fenarimol	60168-88-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Fenchlorphos (Ronnel)	299-84-3	10	µg/L		<10	<10	<10	<10	----
Fenitrothion	122-14-5	2	µg/L		<2	<2	<2	<2	----
Fenoxycarb	79127-80-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Fensulfothion	115-90-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Fenthion	55-38-9	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Fipronil	120068-37-3	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Flamprop methyl	52756-25-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Fluometuron	2164-17-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Flupropanate	756-09-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Flusilazole	85509-19-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Formothion	2540-82-1	20	µg/L		<20	<20	<20	<20	----
Fosetyl Aluminium	39148-24-8	10	µg/L		<10	<10	<10	<10	----



## Analytical Results

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Sampling date / time					23-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	01-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		EP2311700-002	EP2311700-003	EP2311700-004	EP2311700-005	EP2311700-006
					Result	Result	Result	Result	Result
<b>EP234: Multiresidue Pesticides - Continued</b>									
Haloxypop	69806-34-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Hexaconazole	79983-71-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Hexaflurate	17029-22-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Hexazinone	51235-04-2	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Imazapyr	94795-74-1	10.0	µg/L		<10.0	<10.0	<10.0	<10.0	----
Indoxacarb	173584-44-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Iodosulfuron methyl	144550-36-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Iprodione	36734-19-7	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Irgarol	28159-98-0	0.002	µg/L		<0.002	<0.002	<0.002	<0.002	----
Isoproturon	34123-59-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Malathion	121-75-5	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Metalaxyl	57837-19-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Metalaxyl-M	70630-17-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Metaldehyde	108-62-3	10	µg/L		<10	<10	<10	<10	----
Methidathion	950-37-8	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Methiocarb	2032-65-7	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Methomyl	16752-77-5	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Metolachlor	51218-45-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Metribuzin	21087-64-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Mevinphos	7786-34-7	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Molinate	2212-67-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Monocrotophos	6923-22-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Naftalofos	1491-41-4	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Napropamide	15299-99-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Nicarbazin	399-95-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Nitralin	4726-14-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Norflurazon	27314-13-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Myclobutanil	88671-89-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Novaluron	116714-46-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Omethoate	1113-02-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Oryzalin	19044-88-3	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Oxamyl	23135-22-0	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Oxyfluorfen	42874-03-3	1.0	µg/L		<1.0	<1.0	<1.0	<1.0	----
Paclobutrazole	76738-62-0	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----



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					Result	Result	Result	Result	Result
<b>EP234: Multiresidue Pesticides - Continued</b>									
Parathion	56-38-2	0.2	µg/L		<0.2	<0.2	<0.2	<0.2	----
Parathion-methyl	298-00-0	2.0	µg/L		<2.0	<2.0	<2.0	<2.0	----
Pebulate	1114-71-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Penconazole	66246-88-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Pendimethalin	40487-42-1	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Phorate	298-02-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pirimicarb	23103-98-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pirimiphos-ethyl	23505-41-1	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Pirimiphos-methyl	29232-93-7	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Prochloraz	67747-09-5	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Profenofos	41198-08-7	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Prometryn	7287-19-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Propachlor	1918-16-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Promecarb	2631-37-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Propamocarb	24579-73-5	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Propanil	709-98-8	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Propargite	2312-35-8	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Propazine	139-40-2	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Propiconazole	60207-90-1	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Propyzamide	23950-58-5	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Prothiofos	34643-46-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pyraclostrobin	175013-18-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pyrasulfatole	365400-11-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pyrazophos	13457-18-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pyrimethanil	53112-28-0	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Pyriproxyfen	95737-68-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Pyroxsulam	422556-08-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Quinclorac	84087-01-4	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Rimsulfuron	122931-48-0	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Siduron	1982-49-6	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Simazine	122-34-9	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Spirotetramat	203313-25-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Sulfotep	3689-24-5	0.005	µg/L		<0.005	<0.005	<0.005	<0.005	----
Sulprofos	35400-43-2	0.05	µg/L		<0.05	<0.05	<0.05	<0.05	----
Tebuconazole	107534-96-3	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 3	Y 10	Y 11	Y 12	Y 13
Sampling date / time					23-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	21-Aug-2023 00:00	01-Aug-2023 00:00
Compound	CAS Number	LOR	Unit		EP2311700-002	EP2311700-003	EP2311700-004	EP2311700-005	EP2311700-006
					Result	Result	Result	Result	Result
<b>EP234: Multiresidue Pesticides - Continued</b>									
Tebuthiuron	34014-18-1	0.02	µg/L		<0.02	1.01	<0.02	<0.02	----
Temephos	3383-96-8	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Terbufos	13071-79-9	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Terbuthylazine	5915-41-3	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Terbutryn	886-50-0	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Tetrachlorvinphos	22248-79-9	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Tetraconazole	112281-77-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Thiamethoxam	153719-23-4	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Thiobencarb	28249-77-6	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Thiodicarb	59669-26-0	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
Thiometon	640-15-3	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Toltrazuril	69004-03-1	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Triadimefon	43121-43-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Triadimenol	55219-65-3	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Triazophos	24017-47-8	0.005	µg/L		<0.005	<0.005	<0.005	<0.005	----
Trichlorfon	52-68-6	0.02	µg/L		<0.02	<0.02	<0.02	<0.02	----
Trichloronate	327-98-0	0.5	µg/L		<0.5	<0.5	<0.5	<0.5	----
Trifloxystrobin	141517-21-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Trifloxysulfuron-sodium	199119-58-9	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
Trifluralin	1582-09-8	10.0	µg/L		<10.0	<10.0	<10.0	<10.0	----
Trinexapac Ethyl	95266-40-3	1	µg/L		<1	<1	<1	<1	----
Vernolate	1929-77-7	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
<b>EP234I: Miscellaneous (ESI Positive Mode) Pesticides</b>									
Imidacloprid	----	0.01	µg/L		<0.01	<0.01	<0.01	<0.01	----
<b>EP234J: Miscellaneous (ESI Negative Mode) Pesticides</b>									
4OH-TPN as Chlorothalonil	1897-45-6	2	µg/L		<2	<2	<2	<2	----
Terbacil	5902-51-2	0.1	µg/L		<0.1	<0.1	<0.1	<0.1	----
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>									
2,4-Dichlorophenyl Acetic Acid	19719-28-9	10	%		90.7	93.1	112	80.5	----





## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time				01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EP2311700-007	EP2311700-008	-----	-----	-----	
				Result	Result	----	----	----	
<b>EA005P: pH by PC Titrator</b>									
pH Value	----	0.01	pH Unit	<b>7.70</b>	<b>7.05</b>	----	----	----	
<b>EA025: Total Suspended Solids dried at 104 ± 2°C</b>									
Suspended Solids (SS)	----	5	mg/L	----	<b>28</b>	----	----	----	
<b>EA045: Turbidity</b>									
Turbidity	----	0.1	NTU	<b>500</b>	<b>16.0</b>	----	----	----	
<b>EP068A: Organochlorine Pesticides (OC)</b>									
Ø Dichlobenil	1194-65-6	0.1	µg/L	----	<0.1	----	----	----	
Ø Dicofol	115-32-2	0.1	µg/L	----	<0.1	----	----	----	
<b>EP202A: Phenoxyacetic Acid Herbicides by LCMS</b>									
4-Chlorophenoxy acetic acid	122-88-3	10	µg/L	----	<10	----	----	----	
2,4-DB	94-82-6	10	µg/L	----	<10	----	----	----	
Dicamba	1918-00-9	10	µg/L	----	<10	----	----	----	
Mecoprop	93-65-2	10	µg/L	----	<10	----	----	----	
MCPA	94-74-6	10	µg/L	----	<10	----	----	----	
2,4-DP	120-36-5	10	µg/L	----	<10	----	----	----	
2,4-D	94-75-7	10	µg/L	----	<10	----	----	----	
Triclopyr	55335-06-3	10	µg/L	----	<10	----	----	----	
Silvex (2,4,5-TP/Fenoprop)	93-72-1	10	µg/L	----	<10	----	----	----	
2,4,5-T	93-76-5	10	µg/L	----	<10	----	----	----	
MCPB	94-81-5	10	µg/L	----	<10	----	----	----	
Picloram	1918-02-1	10	µg/L	----	<10	----	----	----	
Clopyralid	1702-17-6	10	µg/L	----	<10	----	----	----	
Fluroxypyr	69377-81-7	10	µg/L	----	<10	----	----	----	
2,6-D	575-90-6	10	µg/L	----	<10	----	----	----	
2,4,6-T	575-89-3	10	µg/L	----	<10	----	----	----	
<b>EP234: Multiresidue Pesticides</b>									
3-Hydroxy Carbofuran	16655-82-6	0.02	µg/L	----	<0.02	----	----	----	
Abamectin	71751-41-2	0.1	µg/L	----	<0.1	----	----	----	
Acephate	30560-19-1	0.5	µg/L	----	<0.5	----	----	----	
Alachlor	15972-60-8	0.1	µg/L	----	<0.1	----	----	----	
Aldicarb	116-06-3	0.05	µg/L	----	<0.05	----	----	----	
Ametryn	834-12-8	0.01	µg/L	----	<0.01	----	----	----	
Aminopyralid	150114-71-9	0.1	µg/L	----	<0.1	----	----	----	
Amitraz	33089-61-1	100	µg/L	----	<100	----	----	----	



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time					01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EP2311700-007	EP2311700-008	-----	-----	-----
					Result	Result	----	----	----
<b>EP234: Multiresidue Pesticides - Continued</b>									
Asulam	3337-71-1	2	µg/L		----	<2	----	----	----
Atrazine	1912-24-9	0.01	µg/L		----	<0.01	----	----	----
Atrazine-desethyl	6190-65-4	0.1	µg/L		----	<0.1	----	----	----
Atrazine-desisopropyl	1007-28-9	0.1	µg/L		----	<0.1	----	----	----
Azinphos-ethyl	2642-71-9	0.02	µg/L		----	<0.02	----	----	----
Azinphos-methyl	86-50-0	0.02	µg/L		----	<0.02	----	----	----
Azoxystrobin	131860-33-8	0.1	µg/L		----	<0.1	----	----	----
Bendiocarb	22781-23-3	0.10	µg/L		----	<0.10	----	----	----
Benomyl	17804-35-2	0.01	µg/L		----	<0.01	----	----	----
Bensulfuron methyl	83055-99-6	0.1	µg/L		----	<0.1	----	----	----
Bensulide	741-58-2	0.1	µg/L		----	<0.1	----	----	----
Boscalid	188425-85-6	0.1	µg/L		----	<0.1	----	----	----
Brodifacoum	56073-10-0	0.05	µg/L		----	<0.05	----	----	----
Bromacil	314-40-9	0.02	µg/L		----	<0.02	----	----	----
Bromophos-ethyl	4824-78-6	0.10	µg/L		----	<0.10	----	----	----
Bromoxynil	1689-84-5	0.05	µg/L		----	<0.05	----	----	----
Butachlor	23184-66-9	0.1	µg/L		----	<0.1	----	----	----
Carbaryl	63-25-2	0.01	µg/L		----	<0.01	----	----	----
Carbendazim (Thiophanate methyl)	10605-21-7	0.1	µg/L		----	<0.1	----	----	----
Carbofenothion	786-19-6	0.02	µg/L		----	<0.02	----	----	----
Carbofuran	1563-66-2	0.01	µg/L		----	<0.01	----	----	----
Carboxin	5234-68-4	0.1	µg/L		----	<0.1	----	----	----
Carfentrazone-ethyl	128639-02-1	0.1	µg/L		----	<0.1	----	----	----
Chlorantraniliprole	500008-45-7	0.1	µg/L		----	<0.1	----	----	----
Chlorfenvinphos	470-90-6	0.02	µg/L		----	<0.02	----	----	----
Chloroxuron	1982-47-4	0.1	µg/L		----	<0.1	----	----	----
Chlorpyrifos	2921-88-2	0.02	µg/L		----	<0.02	----	----	----
Chlorpyrifos-methyl	5598-13-0	0.2	µg/L		----	<0.2	----	----	----
Chlorsulfuron	64902-72-3	0.2	µg/L		----	<0.2	----	----	----
Coumaphos	56-72-4	0.01	µg/L		----	<0.01	----	----	----
Cyanazine	21725-46-2	0.02	µg/L		----	<0.02	----	----	----
Cyproconazole	94361-06-5	0.02	µg/L		----	<0.02	----	----	----
Cyprodinil	121552-61-2	0.01	µg/L		----	<0.01	----	----	----
Cyromazine	66215-27-8	0.05	µg/L		----	<0.05	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time					01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EP2311700-007	EP2311700-008	-----	-----	-----
					Result	Result	----	----	----
<b>EP234: Multiresidue Pesticides - Continued</b>									
Demeton-O	298-03-3	0.02	µg/L		----	<0.02	----	----	----
Demeton-O & Demeton-S	298-03-3/126-75-0	0.02	µg/L		----	<0.02	----	----	----
Demeton-S	126-75-0	0.02	µg/L		----	<0.02	----	----	----
Demeton-S-methyl	919-86-8	0.02	µg/L		----	<0.02	----	----	----
Diazinon	333-41-5	0.01	µg/L		----	<0.01	----	----	----
Dichlorprop-P	15165-67-0	0.1	µg/L		----	<0.1	----	----	----
Dichlorvos	62-73-7	0.20	µg/L		----	<0.20	----	----	----
Diclofop-methyl	51338-27-3	0.05	µg/L		----	<0.05	----	----	----
Difenoconazole	119446-68-3	0.02	µg/L		----	<0.02	----	----	----
Diflubenzuron	35367-38-5	0.1	µg/L		----	<0.1	----	----	----
Diflufenican	83164-33-4	0.02	µg/L		----	<0.02	----	----	----
Dimethoate	60-51-5	0.02	µg/L		----	<0.02	----	----	----
Diphenamid	957-51-7	0.1	µg/L		----	<0.1	----	----	----
Disulfoton	298-04-4	0.05	µg/L		----	<0.05	----	----	----
Diuron	330-54-1	0.02	µg/L		----	<0.02	----	----	----
Endothal	145-73-3	1.0	µg/L		----	<1.0	----	----	----
EPN	2104-64-5	0.05	µg/L		----	<0.05	----	----	----
EPTC	759-94-4	0.1	µg/L		----	<0.1	----	----	----
Ethion	563-12-2	0.02	µg/L		----	<0.02	----	----	----
Ethoprophos	13194-48-4	0.01	µg/L		----	<0.01	----	----	----
Etridiazole	2593-15-9	0.5	µg/L		----	<0.5	----	----	----
Fenamiphos	22224-92-6	0.01	µg/L		----	<0.01	----	----	----
Fenarimol	60168-88-9	0.02	µg/L		----	<0.02	----	----	----
Fenchlorphos (Ronnell)	299-84-3	10	µg/L		----	<10	----	----	----
Fenitrothion	122-14-5	2	µg/L		----	<2	----	----	----
Fenoxycarb	79127-80-3	0.1	µg/L		----	<0.1	----	----	----
Fensulfothion	115-90-2	0.01	µg/L		----	<0.01	----	----	----
Fenthion	55-38-9	0.05	µg/L		----	<0.05	----	----	----
Fipronil	120068-37-3	0.01	µg/L		----	<0.01	----	----	----
Flamprop methyl	52756-25-9	0.1	µg/L		----	<0.1	----	----	----
Fluometuron	2164-17-2	0.01	µg/L		----	<0.01	----	----	----
Flupropanate	756-09-2	0.1	µg/L		----	<0.1	----	----	----
Flusilazole	85509-19-9	0.02	µg/L		----	<0.02	----	----	----
Formothion	2540-82-1	20	µg/L		----	<20	----	----	----
Fosetyl Aluminium	39148-24-8	10	µg/L		----	<10	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time					01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EP2311700-007	EP2311700-008	-----	-----	-----
					Result	Result	----	----	----
<b>EP234: Multiresidue Pesticides - Continued</b>									
Haloxypop	69806-34-4	0.1	µg/L		----	<0.1	----	----	----
Hexaconazole	79983-71-4	0.02	µg/L		----	<0.02	----	----	----
Hexaflurate	17029-22-0	0.1	µg/L		----	<0.1	----	----	----
Hexazinone	51235-04-2	0.02	µg/L		----	<0.02	----	----	----
Imazapyr	94795-74-1	10.0	µg/L		----	<10.0	----	----	----
Indoxacarb	173584-44-6	0.1	µg/L		----	<0.1	----	----	----
Iodosulfuron methyl	144550-36-7	0.1	µg/L		----	<0.1	----	----	----
Iprodione	36734-19-7	0.05	µg/L		----	<0.05	----	----	----
Irgarol	28159-98-0	0.002	µg/L		----	<0.002	----	----	----
Isoproturon	34123-59-6	0.1	µg/L		----	<0.1	----	----	----
Malathion	121-75-5	0.02	µg/L		----	<0.02	----	----	----
Metalaxyl	57837-19-1	0.1	µg/L		----	<0.1	----	----	----
Metalaxyl-M	70630-17-0	0.1	µg/L		----	<0.1	----	----	----
Metaldehyde	108-62-3	10	µg/L		----	<10	----	----	----
Methidathion	950-37-8	0.1	µg/L		----	<0.1	----	----	----
Methiocarb	2032-65-7	0.01	µg/L		----	<0.01	----	----	----
Methomyl	16752-77-5	0.01	µg/L		----	<0.01	----	----	----
Metolachlor	51218-45-2	0.01	µg/L		----	<0.01	----	----	----
Metribuzin	21087-64-9	0.02	µg/L		----	<0.02	----	----	----
Mevinphos	7786-34-7	0.02	µg/L		----	<0.02	----	----	----
Molinate	2212-67-1	0.1	µg/L		----	<0.1	----	----	----
Monocrotophos	6923-22-4	0.02	µg/L		----	<0.02	----	----	----
Naftalofos	1491-41-4	1.0	µg/L		----	<1.0	----	----	----
Napropamide	15299-99-7	0.1	µg/L		----	<0.1	----	----	----
Nicarbazin	399-95-0	0.1	µg/L		----	<0.1	----	----	----
Nitralin	4726-14-1	0.1	µg/L		----	<0.1	----	----	----
Norflurazon	27314-13-2	0.1	µg/L		----	<0.1	----	----	----
Myclobutanil	88671-89-0	0.1	µg/L		----	<0.1	----	----	----
Novaluron	116714-46-6	0.1	µg/L		----	<0.1	----	----	----
Omethoate	1113-02-6	0.01	µg/L		----	<0.01	----	----	----
Oryzalin	19044-88-3	0.05	µg/L		----	<0.05	----	----	----
Oxamyl	23135-22-0	0.01	µg/L		----	<0.01	----	----	----
Oxyfluorfen	42874-03-3	1.0	µg/L		----	<1.0	----	----	----
Paclobutrazole	76738-62-0	0.05	µg/L		----	<0.05	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time					01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EP2311700-007	EP2311700-008	-----	-----	-----
					Result	Result	----	----	----
<b>EP234: Multiresidue Pesticides - Continued</b>									
Parathion	56-38-2	0.2	µg/L		----	<0.2	----	----	----
Parathion-methyl	298-00-0	2.0	µg/L		----	<2.0	----	----	----
Pebulate	1114-71-2	0.1	µg/L		----	<0.1	----	----	----
Penconazole	66246-88-6	0.01	µg/L		----	<0.01	----	----	----
Pendimethalin	40487-42-1	0.05	µg/L		----	<0.05	----	----	----
Phorate	298-02-2	0.1	µg/L		----	<0.1	----	----	----
Pirimicarb	23103-98-2	0.1	µg/L		----	<0.1	----	----	----
Pirimiphos-ethyl	23505-41-1	0.01	µg/L		----	<0.01	----	----	----
Pirimiphos-methyl	29232-93-7	0.01	µg/L		----	<0.01	----	----	----
Prochloraz	67747-09-5	0.1	µg/L		----	<0.1	----	----	----
Profenofos	41198-08-7	0.01	µg/L		----	<0.01	----	----	----
Prometryn	7287-19-6	0.01	µg/L		----	<0.01	----	----	----
Propachlor	1918-16-7	0.1	µg/L		----	<0.1	----	----	----
Promecarb	2631-37-0	0.1	µg/L		----	<0.1	----	----	----
Propamocarb	24579-73-5	0.1	µg/L		----	<0.1	----	----	----
Propanil	709-98-8	0.1	µg/L		----	<0.1	----	----	----
Propargite	2312-35-8	0.1	µg/L		----	<0.1	----	----	----
Propazine	139-40-2	0.01	µg/L		----	<0.01	----	----	----
Propiconazole	60207-90-1	0.05	µg/L		----	<0.05	----	----	----
Propyzamide	23950-58-5	0.1	µg/L		----	<0.1	----	----	----
Prothiofos	34643-46-4	0.1	µg/L		----	<0.1	----	----	----
Pyraclostrobin	175013-18-0	0.1	µg/L		----	<0.1	----	----	----
Pyrasulfatole	365400-11-9	0.1	µg/L		----	<0.1	----	----	----
Pyrazophos	13457-18-6	0.1	µg/L		----	<0.1	----	----	----
Pyrimethanil	53112-28-0	0.02	µg/L		----	<0.02	----	----	----
Pyriproxyfen	95737-68-1	0.1	µg/L		----	<0.1	----	----	----
Pyroxsulam	422556-08-9	0.1	µg/L		----	<0.1	----	----	----
Quinclorac	84087-01-4	0.1	µg/L		----	<0.1	----	----	----
Rimsulfuron	122931-48-0	0.1	µg/L		----	<0.1	----	----	----
Siduron	1982-49-6	0.1	µg/L		----	<0.1	----	----	----
Simazine	122-34-9	0.02	µg/L		----	<0.02	----	----	----
Spirotetramat	203313-25-1	0.1	µg/L		----	<0.1	----	----	----
Sulfotep	3689-24-5	0.005	µg/L		----	<0.005	----	----	----
Sulprofos	35400-43-2	0.05	µg/L		----	<0.05	----	----	----
Tebuconazole	107534-96-3	0.01	µg/L		----	<0.01	----	----	----



## Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Y 14	Y 15	----	----	----
Sampling date / time				01-Aug-2023 00:00	21-Aug-2023 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EP2311700-007	EP2311700-008	-----	-----	-----	
				Result	Result	----	----	----	
<b>EP234: Multiresidue Pesticides - Continued</b>									
Tebuthiuron	34014-18-1	0.02	µg/L	----	<b>0.04</b>	----	----	----	
Temephos	3383-96-8	0.02	µg/L	----	<0.02	----	----	----	
Terbufos	13071-79-9	0.01	µg/L	----	<0.01	----	----	----	
Terbuthylazine	5915-41-3	0.01	µg/L	----	<0.01	----	----	----	
Terbutryn	886-50-0	0.01	µg/L	----	<0.01	----	----	----	
Tetrachlorvinphos	22248-79-9	0.01	µg/L	----	<0.01	----	----	----	
Tetraconazole	112281-77-3	0.1	µg/L	----	<0.1	----	----	----	
Thiamethoxam	153719-23-4	0.02	µg/L	----	<0.02	----	----	----	
Thiobencarb	28249-77-6	0.01	µg/L	----	<0.01	----	----	----	
Thiodicarb	59669-26-0	0.01	µg/L	----	<0.01	----	----	----	
Thiometon	640-15-3	0.5	µg/L	----	<0.5	----	----	----	
Toltrazuril	69004-03-1	0.1	µg/L	----	<0.1	----	----	----	
Triadimefon	43121-43-3	0.1	µg/L	----	<0.1	----	----	----	
Triadimenol	55219-65-3	0.1	µg/L	----	<0.1	----	----	----	
Triazophos	24017-47-8	0.005	µg/L	----	<0.005	----	----	----	
Trichlorfon	52-68-6	0.02	µg/L	----	<0.02	----	----	----	
Trichloronate	327-98-0	0.5	µg/L	----	<0.5	----	----	----	
Trifloxystrobin	141517-21-7	0.1	µg/L	----	<0.1	----	----	----	
Trifloxysulfuron-sodium	199119-58-9	0.1	µg/L	----	<0.1	----	----	----	
Trifluralin	1582-09-8	10.0	µg/L	----	<10.0	----	----	----	
Trinexapac Ethyl	95266-40-3	1	µg/L	----	<1	----	----	----	
Vernolate	1929-77-7	0.1	µg/L	----	<0.1	----	----	----	
<b>EP234I: Miscellaneous (ESI Positive Mode) Pesticides</b>									
Imidacloprid	----	0.01	µg/L	----	<0.01	----	----	----	
<b>EP234J: Miscellaneous (ESI Negative Mode) Pesticides</b>									
4OH-TPN as Chlorothalonil	1897-45-6	2	µg/L	----	<2	----	----	----	
Terbacil	5902-51-2	0.1	µg/L	----	<0.1	----	----	----	
<b>EP202S: Phenoxyacetic Acid Herbicide Surrogate</b>									
2,4-Dichlorophenyl Acetic Acid	19719-28-9	10	%	----	<b>82.4</b>	----	----	----	



### Surrogate Control Limits

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

### Inter-Laboratory Testing

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

(WATER) EP234: Multiresidue Pesticides

(WATER) EP234I: Miscellaneous (ESI Positive Mode) Pesticides

(WATER) EP068A: Organochlorine Pesticides (OC)

(WATER) EP202A: Phenoxyacetic Acid Herbicides by LCMS

(WATER) EP202S: Phenoxyacetic Acid Herbicide Surrogate

(WATER) EP234J: Miscellaneous (ESI Negative Mode) Pesticides