



Environmental Forensics Report of Analysis
Project 20230185

Report #: 1724
Date Issued: 14-Jul-2023
Page 1 of 13

Client Project Reference: Menindee Fish Kill - 31 (IMT 25 May)

Customer: Department of Planning & Environment

Attention: [REDACTED]

Report Date: 14 July 2023

Project Received: 26 May 2023

EF Project Contact: [REDACTED]
[REDACTED]
[REDACTED]



The following samples were analysed:

Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot
234276	E12	Liquid	25/05/2023 9:30AM	
234281	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234286	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234291	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234296	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234467	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234468	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234469	E12	Liquid	25/05/2023 9:30AM	Field Aliquot
234277	E15	Liquid	25/05/2023 10:30AM	
234282	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234287	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234292	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234297	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234470	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234471	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234472	E15	Liquid	25/05/2023 10:30AM	Field Aliquot
234278	E14	Liquid	25/05/2023 11:15AM	
234283	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234288	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234293	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234298	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234473	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234474	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234475	E14	Liquid	25/05/2023 11:15AM	Field Aliquot
234279	E13	Liquid	25/05/2023 12:00PM	
234284	E13	Liquid	25/05/2023 12:00PM	Field Aliquot
234289	E13	Liquid	25/05/2023 12:00PM	Field Aliquot
234294	E13	Liquid	25/05/2023 12:00PM	Field Aliquot
234299	E13	Liquid	25/05/2023 12:00PM	Field Aliquot

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



234476	E13	Liquid	25/05/2023	12:00PM	Field Aliquot
234477	E13	Liquid	25/05/2023	12:00PM	Field Aliquot
234478	E13	Liquid	25/05/2023	12:00PM	Field Aliquot
234280	E11	Liquid	25/05/2023	1:15PM	
234285	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234290	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234295	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234300	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234479	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234480	E11	Liquid	25/05/2023	1:15PM	Field Aliquot
234481	E11	Liquid	25/05/2023	1:15PM	Field Aliquot

Report Notes

- This document has been authorised by the person whose name appears in this report.
- This report shall not be reproduced except in full. Samples analysed as received from the client.
- Results reported as 'less than' (<) indicates a result below the practical quantitation limit for the sample matrix and method used.



Project Comments

·Samples 234281 to 234285 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EP202A - Phenoxyacetic Acid Herbicides by LCMS and EP204 - Glyphosate and AMPA. This report summarises data from the attached external report: ES2317836, dated 05-Jun-2023.

·Samples 234286, 234287, 234288, 234289 and 234290 were analysed outside the method holding time for Total suspended solids

·Samples 234296 to 234300 were sent to Sydney Water Laboratory Services (NATA Accreditation no: 63 and 610) for the analysis of Blue-Green Algal ID and Enumeration. Please see detailed results in the attached Phytoplankton Analysis Report no. 286398, dated 17/06/2023. A summary of the results are in the attached Analytical Report 286398 dated 17/06/2023

·Samples 234286 to 234290 were sent to Sydney Water Corporation (NATA Accreditation no: 63) for the analysis of Algal Toxins. Please see the attached Analytical Report 287057 dated 29/06/2023.

·Samples 234467 to 234481 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of Nutrients: EK055G - Ammonia as N by Discrete Analyser, EK059G - Nitrite plus Nitrate as N (NOx) by Discrete Analyser, EK061F - Filtered Total Kjeldahl Nitrogen as N (TKN), EK061G - Total Kjeldahl Nitrogen By Discrete Analyser, EK062F - Filtered Total Nitrogen as N, EK062G - Total Nitrogen as N (TKN + NOx) by Discrete Analyser, EK067FG - Filtered Total Phosphorus as P by Discrete Analyser, EK067G - Total Phosphorus as P by Discrete Analyser, EK071G - Reactive Phosphorus as P by discrete analyser. This report summarises data from the attached external report: ES2318509 Amendment 1, dated 07-Jun-2023.



Analysis Results - External Methods*

Area - EXTERNAL

		Sample ID	234286	234296	234287	234297	234288	234298	234289	234299	234290	234300
		Start Date	22/06/2023	14/06/2023	22/06/2023	13/06/2023	22/06/2023	16/06/2023	22/06/2023	13/06/2023	22/06/2023	13/06/2023
		Client ID	E12	E12	E15	E15	E14	E14	E13	E13	E11	E11
Analyte												
Algal Enumeration	-			RC		RC		RC		RC		RC
Algal Identification	-			RC		RC		RC		RC		RC
Algal Toxins	-		RC		RC		RC		RC		RC	

Analysis Results - External Methods*

Area - EXTERNAL

		Sample ID	234281	234282	234283	234284	234285
		Start Date	29/05/2023	29/05/2023	29/05/2023	29/05/2023	29/05/2023
		Client ID	E12	E15	E14	E13	E11
Analyte							
2.4.5-T	µg/L		<10	<10	<10	<10	<10
2.4.6-T	µg/L		<10	<10	<10	<10	<10
2.4-D	µg/L		<10	<10	<10	<10	<10
2.4-DB	µg/L		<10	<10	<10	<10	<10
2.4-DP	µg/L		<10	<10	<10	<10	<10
2.6-D	µg/L		<10	<10	<10	<10	<10
4-Chlorophenoxy acetic acid	µg/L		<10	<10	<10	<10	<10
AMPA	µg/L		<10	<10	<10	<10	<10
Clopyralid	µg/L		<10	<10	<10	<10	<10
Dicamba	µg/L		<10	<10	<10	<10	<10
Fluroxypyr	µg/L		<10	<10	<10	<10	<10
Glyphosate	µg/L		<10	<10	<10	<10	<10
MCPA	µg/L		<10	<10	<10	<10	<10
MCPB	µg/L		<10	<10	<10	<10	<10
Mecoprop	µg/L		<10	<10	<10	<10	<10
Picloram	µg/L		<10	<10	<10	<10	<10
Silvex (2,4,5-TP/Fenoprop)	µg/L		<10	<10	<10	<10	<10
Triclopyr	µg/L		<10	<10	<10	<10	<10

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - External Methods*

Area - EXTERNAL

Analyte	mg/L	Sample ID	234467	234468	234469	234470	234471	234472	234473	234474	234475	234476	234477	234478
		Start Date	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023	2/06/2023
		Client ID	E12 - Filtered 1	E12 - Filtered 2	E12 - Unfiltered	E15 - Filtered 1	E15 - Filtered 2	E15 - Unfiltered	E14 - Filtered 1	E14 - Filtered 2	E14 - Unfiltered	E13 - Filtered 1	E13 - Filtered 2	E13 - Unfiltered
^ Filtered Total Nitrogen as N	mg/L			0.9			0.8			1.0			0.9	
^ Total Nitrogen as N	mg/L				1.3			1.4			1.7			1.5
Ammonia as N	mg/L		0.07			0.01			0.01			0.06		
Dissolved TKN as N	mg/L			0.8			0.7			0.9			0.8	
Filtered Total Phosphorus as P	mg/L			0.10			0.12			0.12			0.13	
Nitrite+Nitrate as N	mg/L		0.09	0.09	0.08	0.10	0.10	0.10	0.12	0.13	0.12	0.10	0.11	0.10
Reactive Phosphorus as P	mg/L		0.11			0.09			0.08			0.08		
Total Kjeldahl Nitrogen as N	mg/L				1.2			1.3			1.6			1.4
Total Phosphorus as P	mg/L				0.22			0.24			0.31			0.26

Analysis Results - External Methods*

Area - EXTERNAL

Analyte	mg/L	Sample ID	234479	234480	234481
		Start Date	2/06/2023	2/06/2023	2/06/2023
		Client ID	E11 - Filtered 1	E11 - Filtered 2	E11 - Unfiltered
^ Filtered Total Nitrogen as N	mg/L			1.0	
^ Total Nitrogen as N	mg/L				1.3
Ammonia as N	mg/L		0.05		
Dissolved TKN as N	mg/L			0.9	
Filtered Total Phosphorus as P	mg/L			0.12	
Nitrite+Nitrate as N	mg/L		0.06	0.08	0.07
Reactive Phosphorus as P	mg/L		0.09		
Total Kjeldahl Nitrogen as N	mg/L				1.2
Total Phosphorus as P	mg/L				0.26

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - ICVAASW

Area - INORGANIC

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	234291	234292	234293	234294	234295
			30/05/2023	30/05/2023	30/05/2023	30/05/2023	30/05/2023
			E12	E15	E14	E13	E11

<i>Analyte</i>		234291	234292	234293	234294	234295
Mercury	µg/L	<0.05	<0.05	<0.05	<0.05	<0.05

Analysis Results - ICPAES

Area - INORGANIC

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	234291	234292	234293	234294	234295
			29/05/2023	29/05/2023	29/05/2023	29/05/2023	29/05/2023
			E12	E15	E14	E13	E11

<i>Analyte</i>		234291	234292	234293	234294	234295
Aluminium (Lab. filtered)	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04
Barium (Lab. filtered)	mg/L	0.10	0.11	0.11	0.11	0.10
Boron (Lab. filtered)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (Lab. filtered)	mg/L	33	33	33	34	32
Iron (Lab. filtered)	mg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Magnesium (Lab. filtered)	mg/L	15	16	16	16	15
Potassium (Lab. filtered)	mg/L	12	12	11	12	11
Sodium (Lab. filtered)	mg/L	44	44	44	45	43
Strontium (Lab. filtered)	mg/L	0.37	0.37	0.37	0.37	0.36
Sulfur (Lab. filtered)	mg/L	3.2	3.2	3.2	3.3	3.3
Titanium (Lab. filtered)	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - ICPMS
Area - INORGANIC

		Sample ID	234291	234292	234293	234294	234295
		Start Date	29/05/2023	29/05/2023	29/05/2023	29/05/2023	29/05/2023
		Client ID	E12	E15	E14	E13	E11
Analyte							
Antimony (Lab. filtered)	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (Lab. filtered)	mg/L		0.005	0.005	0.005	0.005	0.004
Beryllium (Lab. filtered)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Cadmium (Lab. filtered)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (Lab. filtered)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt (Lab. filtered)	mg/L		0.0003	0.0003	0.0003	0.0003	0.0003
Copper (Lab. filtered)	mg/L		0.0021	0.0020	0.0019	0.0023	0.0022
Lead (Lab. filtered)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Lithium (Lab. filtered)	mg/L		0.0020	0.0021	0.0020	0.0020	0.0020
Manganese (Lab. filtered)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum (Lab. filtered)	mg/L		0.0014	0.0014	0.0013	0.0014	0.0013
Nickel (Lab. filtered)	mg/L		0.0033	0.0038	0.0034	0.0036	0.0035
Selenium (Lab. filtered)	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
Silver (Lab. filtered)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Thallium (Lab. filtered)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Tin (Lab. filtered)	mg/L		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium (Lab. filtered)	mg/L		0.011	0.012	0.011	0.011	0.012
Zinc (Lab. filtered)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: **SN** = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - ICPAES

Area - INORGANIC

<i>Sample ID</i>	<i>Start Date</i>	<i>Client ID</i>	234291	234292	234293	234294	234295
			29/05/2023	29/05/2023	29/05/2023	29/05/2023	29/05/2023
			E12	E15	E14	E13	E11

<i>Analyte</i>							
Aluminium (acid extractable)	mg/L		5.9	5.2	5.5	5.5	5.9
Barium (acid extractable)	mg/L		0.14	0.13	0.13	0.13	0.14
Boron (acid extractable)	mg/L		<0.1	<0.1	<0.1	<0.1	<0.1
Calcium (acid extractable)	mg/L		35	34	34	35	34
Iron (acid extractable)	mg/L		4.3	3.8	4.0	4.0	4.3
Magnesium (acid extractable)	mg/L		17	17	17	17	16
Manganese (acid extractable)	mg/L		0.15	0.12	0.13	0.13	0.15
Potassium (acid extractable)	mg/L		13	13	13	13	13
Sodium (acid extractable)	mg/L		45	45	45	45	44
Strontium (acid extractable)	mg/L		0.40	0.39	0.39	0.39	0.39
Sulfur (acid extractable)	mg/L		3.4	3.2	3.3	3.4	3.3
Titanium (acid extractable)	mg/L		0.06	0.05	0.05	0.05	0.05

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - ICPMS

Area - INORGANIC

		Sample ID	234291	234292	234293	234294	234295
		Start Date	29/05/2023	29/05/2023	29/05/2023	29/05/2023	29/05/2023
		Client ID	E12	E15	E14	E13	E11
<i>Analyte</i>							
Antimony (acid extractable)	mg/L		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Arsenic (acid extractable)	mg/L		0.006	0.005	0.005	0.005	0.004
Beryllium (acid extractable)	mg/L		0.0002	0.0002	0.0002	0.0002	0.0002
Cadmium (acid extractable)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium (acid extractable)	mg/L		0.006	0.005	0.006	0.006	0.006
Cobalt (acid extractable)	mg/L		0.0023	0.0021	0.0022	0.0023	0.0022
Copper (acid extractable)	mg/L		0.0054	0.0048	0.0050	0.0056	0.0053
Lead (acid extractable)	mg/L		0.0014	0.0014	0.0014	0.0014	0.0014
Lithium (acid extractable)	mg/L		0.0039	0.0038	0.0039	0.0038	0.0039
Molybdenum (acid extractable)	mg/L		0.0014	0.0014	0.0013	0.0014	0.0014
Nickel (acid extractable)	mg/L		0.0074	0.0070	0.0073	0.0075	0.0073
Selenium (acid extractable)	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005
Silver (acid extractable)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Thallium (acid extractable)	mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Tin (acid extractable)	mg/L		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vanadium (acid extractable)	mg/L		0.022	0.021	0.021	0.021	0.022
Zinc (acid extractable)	mg/L		0.010	0.009	0.011	0.011	0.011

Analysis Results - IGRSS

Area - INORGANIC

		Sample ID	234286	234287	234288	234289	234290
		Start Date	8/06/2023	8/06/2023	8/06/2023	8/06/2023	8/06/2023
		Client ID	E12	E15	E14	E13	E11
<i>Analyte</i>							
Fixed Suspended Solids	mg/L		67	58	70	73	57
Total Suspended Solids	mg/L		79	71	84	86	66
Volatile Suspended Solids	mg/L		12	13	14	13	9

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - QQPEST

Area - ORGANIC

Sample ID	Start Date	Client ID	234276 31/05/2023 E12	234277 31/05/2023 E15	234278 31/05/2023 E14	234279 31/05/2023 E13	234280 31/05/2023 E11
-----------	------------	-----------	-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------

Analyte							
Aldrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Allethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Alpha-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
alpha-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Ametryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Atraton	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Atrazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
beta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bifenthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Bioresmethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Carbophenothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Cis-permethrin	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Crotoxyphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyfluthrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cypermethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
delta-HCH	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Deltamethrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Diazinon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dichlorvos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Dieldrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Dimethoate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endosulfan II	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Endosulfan I	µg/L	<0.9	<0.9	<0.9	<0.9	<0.9	<0.9
Endosulfan Sulfate	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Endrin Aldehyde	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin Ketone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Endrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenamiphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenitrothion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Fenthion	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Analysis Results - QQPEST

Area - ORGANIC

Sample ID	234276	234277	234278	234279	234280
Start Date	31/05/2023	31/05/2023	31/05/2023	31/05/2023	31/05/2023
Client ID	E12	E15	E14	E13	E11

Analyte		234276	234277	234278	234279	234280
Fenvalerate	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Gamma-Chlordane	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
gamma-HCH	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Heptachlor Epoxide	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Heptachlor	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Hexachlorobenzene	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3
Hexazinone	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
L-cyhalothrin	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Malathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methidathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Methyl Azinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Chlorpyrifos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Methyl Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Mevinphos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Oxyfluorfen	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Parathion	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Phorate	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Profenofos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Prometon	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Prometryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propargite	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Propetamphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Simazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Simetryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Sulprofos	µg/L	<0.4	<0.4	<0.4	<0.4	<0.4
Tebuconazole	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tebuthiuron	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutylazine	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Terbutryn	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachlorvinphos	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Trans-permethrin	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment



Area - ORGANIC

Sample ID	Client ID	Method	Start Date	Result
234276	E12	OLCSCAN* - LC/MS Scan	31/05/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request. Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234277	E15	OLCSCAN* - LC/MS Scan	31/05/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request. Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234278	E14	OLCSCAN* - LC/MS Scan	31/05/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request. Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234279	E13	OLCSCAN* - LC/MS Scan	31/05/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request. Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).
234280	E11	OLCSCAN* - LC/MS Scan	31/05/2023	LC/MS scan for approximately 600 pesticides was negative. A list of analysed compounds can be provided on request. Note the list doesn't include glyphosate and quaternary ammonium herbicides (e.g. Paraquat and Diquat).

The sample(s) referred to in this report were analysed by the following method(s):

Method code	Method description	Area
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
External Methods*	External Methods - Analysis completed externally	EXTERNAL
ICVAASW	Mercury by Cold Vapour Atomic Absorption Spectroscopy	INORGANIC
ICPAES	Dissolved element analysis by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICPAES)	INORGANIC
ICPMS	Dissolved Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	INORGANIC
ICPAES	Acid extractable element analysis by Inductively Coupled Plasma-Atomic Emission Spectrometry (ICPAES)	INORGANIC
ICPMS	Acid extractable Metals by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	INORGANIC
IGRTSS	Total Suspended Solids (TSS) (includes Volatile and Fixed Suspended Solids)	INORGANIC
QQQPEST	Determination of Multiresidue Pesticides by GCMSMS	ORGANIC
OLCSCAN*	Qualitative LC/MS scan	ORGANIC

The results in this report were authorised by:

Name	Title	Area
██████████	Senior Scientist	EXTERNAL
██████████	Scientist	INORGANIC
██████████	Scientist	ORGANIC

Tests not covered by NATA accreditation 3040 are denoted with *

Codes: SN = Sample Note

RN = Result Note

RC = Project Comment