

Environment and Heritage - Science, Economics and Insights

Environmental Forensics Report of Analysis Project 20230388

Report #:

1908

Date Issued:

06-Oct-2023

Page 1 of 7

Client Project Reference: Menindee-Darling Barka River Heal

Customer: Department of Planning & Environment

Attention:

Report Date: 06 October 2023
Project Received:15 September 2023

EF Project Contact:





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20230388 1908

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The following samples were analysed:

The following	ng samples were analysed:			
Sample ID	Client ID	Sample Type	Client Sampled Date/Time	Aliquot
238524	MFK-Z-B1	Liquid	13/09/2023	
238532	MFK-Z-B1	Liquid	13/09/2023	Field Aliquot
238533	MFK-Z-B1	Liquid	13/09/2023	Field Aliquot
238548	MFK-Z-B1	Liquid	13/09/2023	Field Aliquot
238556	MFK-Z-B1	Liquid	13/09/2023	Field Aliquot
238564	MFK-Z-B1	Liquid	13/09/2023	Field Aliquot
238525	MFK-Z-B2	Liquid	13/09/2023	
238534	MFK-Z-B2	Liquid	13/09/2023	Field Aliquot
238535	MFK-Z-B2	Liquid	13/09/2023	Field Aliquot
238549	MFK-Z-B2	Liquid	13/09/2023	Field Aliquot
238557	MFK-Z-B2	Liquid	13/09/2023	Field Aliquot
238565	MFK-Z-B2	Liquid	13/09/2023	Field Aliquot
238526	MFK-Z-B3	Liquid	13/09/2023	
238536	MFK-Z-B3	Liquid	13/09/2023	Field Aliquot
238537	MFK-Z-B3	Liquid	13/09/2023	Field Aliquot
238550	MFK-Z-B3	Liquid	13/09/2023	Field Aliquot
238558	MFK-Z-B3	Liquid	13/09/2023	Field Aliquot
238566	MFK-Z-B3	Liquid	13/09/2023	Field Aliquot
238527	MFK-Z-E1	Liquid	13/09/2023	
238538	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238539	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238551	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238559	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238567	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238572	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238577	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238582	MFK-Z-E1	Liquid	13/09/2023	Field Aliquot
238528	MFK-Z-E2	Liquid	13/09/2023	
238540	MFK-Z-E2	Liquid	13/09/2023	Field Aliquot



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238541 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238552 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238560 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238568 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238573 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238578 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238529 MFK-Z-E2 Liquid 13/09/2023 Field Aliquot 238529 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238542 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238543 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238561 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238561 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238574 MFK-Z-E3 Liquid 13/09/2023 Field Aliquot 238579 MFK-Z-E4 <					
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238531 MFK-Z-E5 Liquid 13/09/2023 238546 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot 238547 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot 238555 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot 238563 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot	238580	MFK-Z-E4	Liquid	13/09/2023	Field Aliquot
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238555 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot 238563 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot	238546	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot
238563 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot	238547	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot
	238555	MFK-Z-E5	Liquid	13/09/2023	
238571 MFK-Z-E5 Liquid 13/09/2023 Field Aliquot	238563	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot
	238571	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot



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Date Issued:

06-Oct-2023

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238576	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot
238581	MFK-Z-E5	Liquid	13/09/2023	Field Aliquot
238586	MFK-Z-E5	Liquid	13/09/2023	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 238524 to 238531 were sent to ALS Environmental Laboratory (NATA Accreditation no: 825) for the analysis of EA025: Total Suspended Solids dried at 104 ± 2°C and EA036: Fixed/Volatile Suspended Solids.

Samples 238548 to 238586 were also 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, and EK071G: Reactive Phosphorus as P by Discrete Analyser.

This report summarises data from the attached external report: ES2331834, dated 25-Sep-2023.

·Samples 238533, 238535, 238537, 238539, 238541, 238543, 238545, 238547 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. 292001 dated 4-Oct-2023.

Samples 238532, 238534, 238536, 238538, 238540, 238542, 238544, 238546 were sent to Sydney Water Laboratory Services (NATA Accreditation no: 63 and 610) for the analysis of Algal Toxins. Please see the attached Analytical Report No: 292001 dated 4-Oct-2023 which gives Algal Toxins analysis results and the Blue-Green Algal ID and Enumeration summary results.



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Analysis Results - External Methods* Area - EXTERNAL	Sample ID Start Date Client ID	238532 22/09/2023 MFK-Z-B1	238533 30/09/2023 MFK-Z-B1	238534 22/09/2023 MFK-Z-B2	238535 30/09/2023 MFK-Z-B2	238536 22/09/2023 MFK-Z-B3	238537 30/09/2023 MFK-Z-B3	238538 22/09/2023 MFK-Z-E1	238539 30/09/2023 MFK-Z-E1	238540 22/09/2023 MFK-Z-E2	238541 30/09/2023 MFK-Z-E2	238542 22/09/2023 MFK-Z-E3	238543 30/09/2023 MFK-Z-E3
Analyte													
Algal Enumeration	-		RC										
Algal Identification	-		RC										
Algal Toxins	-	RC											
Saxitoxins and PST	-	RC											

Analysis Results - External Methods* Area - EXTERNAL Analyte	Sample ID Start Date Client ID	238544 22/09/2023 MFK-Z-E4	238545 30/09/2023 MFK-Z-E4	238546 22/09/2023 MFK-Z-E5	238547 30/09/2023 MFK-Z-E5
Algal Enumeration	-		RC		RC
Algal Identification	-		RC		RC
Algal Toxins		RC		RC	
Saxitoxins and PST	-	RC		RC	

Analysis Results - External Methods* Area - EXTERNAL Analyte	Sample ID Start Date Client ID	238548 19/09/2023 MFK-Z-B1 Filtered 1	238556 19/09/2023 MFK-Z-B1 Filtered 2	238564 19/09/2023 MFK-Z-B1 Unfiltered	238549 19/09/2023 MFK-Z-B2 Filtered 1	238557 19/09/2023 MFK-Z-B2 Filtered 2	238565 19/09/2023 MFK-Z-B2 Unfiltered	238550 19/09/2023 MFK-Z-B3 Filtered 1	238558 19/09/2023 MFK-Z-B3 Filtered 2	238566 19/09/2023 MFK-Z-B3 Unfiltered	238551 19/09/2023 MFK-Z-E1 Filtered 1	238559 19/09/2023 MFK-Z-E1 Filtered 2	238567 19/09/2023 MFK-Z-E1 Unfiltered
Ammonia as N	mg/L	<0.10	Fillereu Z	Offilitered	<0.10	Fillered 2	Unintered	<0.10	Fillered 2	Offilitered	<0.10	Fillereu Z	Offilitered
Dissolved TKN as N	mg/L	40.10	0.7		40.10	0.8		40.10	0.6		40.10	0.7	
Filtered Total Nitrogen as N	mg/L	1	0.7			0.8			0.6			0.7	
Filtered Total Phosphorus as P	mg/L		0.12			0.08			0.28			0.08	
Nitrite+Nitrate as N	mg/L	<0.01	0.02	0.02	<0.01	0.02	<0.01	<0.01	0.03	<0.01	<0.01	0.02	0.01
Reactive Phosphorus as P	mg/L	0.45			0.06			0.05			0.09		
Total Kjeldahl Nitrogen as N	mg/L			1.4			1.2			0.9			1
Total Nitrogen as N	mg/L			1.4			1.2			0.9			1
Total Phosphorus as P	mg/L			0.15			0.15			0.32			0.14



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Analysis Results - External Methods* Area - EXTERNAL	Sample ID Start Date Client ID	238572 19/09/2023 MFK-BW-E1	238577 19/09/2023 MFK-BW-E1	238582 19/09/2023 MFK-BW-E1	238552 19/09/2023 MFK-Z-E2	238560 19/09/2023 MFK-Z-E2	238568 19/09/2023 MFK-Z-E2	238573 19/09/2023 MFK-BW-E2	238578 19/09/2023 MFK-BW-E2	238583 19/09/2023 MFK-BW-E2	238553 19/09/2023 MFK-Z-E3	238561 19/09/2023 MFK-Z-E3	238569 19/09/2023 MFK-Z-E3
Analyte		Filtered-1	Filtered-2	Unfiltered	Filtered 1	Filtered 2	Unfiltered	Filtered-1	Filtered-2	Unfiltered	Filtered 1	Filtered 2	Unfiltered
Ammonia as N	mg/L	<0.10			<0.10			<0.10			<0.10		
Dissolved TKN as N	mg/L		0.8			0.7			0.7			0.7	
Filtered Total Nitrogen as N	mg/L		0.8			0.7			0.7			0.7	
Filtered Total Phosphorus as P	mg/L		0.1			0.06			0.07			0.07	
Nitrite+Nitrate as N	mg/L	<0.01	<0.01	0.01	<0.01	0.01	0.08	<0.01	<0.01	0.01	0.02	<0.01	0.03
Reactive Phosphorus as P	mg/L	0.04			0.08			0.02			0.06		
Total Kjeldahl Nitrogen as N	mg/L			1.2			1.3			1.2			1.4
Total Nitrogen as N	mg/L			1.2			1.4			1.2			1.4
Total Phosphorus as P	mg/L			0.16			0.16			0.15			0.18

Analysis Results - External Methods* Area - EXTERNAL Analyte	Sample ID Start Date Client ID	238574 19/09/2023 MFK-BW-E3 Filtered-1	238579 19/09/2023 MFK-BW-E3 Filtered-2	238584 19/09/2023 MFK-BW-E3 Unfiltered	238554 19/09/2023 MFK-Z-E4 Filtered 1	238562 19/09/2023 MFK-Z-E4 Filtered 2	238570 19/09/2023 MFK-Z-E4 Unfiltered	238575 19/09/2023 MFK-BW-E4 Filtered-1	238580 19/09/2023 MFK-BW-E4 Filtered-2	238585 19/09/2023 MFK-BW-E4 Unfiltered	238555 19/09/2023 MFK-Z-E5 Filtered 1	238563 19/09/2023 MFK-Z-E5 Filtered 2	238571 19/09/2023 MFK-Z-E5 Unfiltered
Ammonia as N	mg/L	<0.10			<0.10			<0.10			<0.10		
Dissolved TKN as N	mg/L		0.7			0.7			0.7			0.7	
Filtered Total Nitrogen as N	mg/L		0.7			0.7			0.7			0.7	
Filtered Total Phosphorus as P	mg/L		0.07			0.06			0.06			0.1	
Nitrite+Nitrate as N	mg/L	<0.01	<0.01	0.01	0.01	<0.01	0.02	<0.01	0.02	0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	0.02			0.05			0.03			0.05		
Total Kjeldahl Nitrogen as N	mg/L			1.3			1.3			1.2			1.2
Total Nitrogen as N	mg/L			1.3			1.3			1.2			1.2
Total Phosphorus as P	mg/L			0.19			0.14			0.16			0.17



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Analysis Results - External Methods* Area - EXTERNAL Analyte		Sample ID Start Date Client ID	238576 19/09/2023 MFK-BW-E5 Filtered-1	238581 19/09/2023 MFK-BW-E5 Filtered-2	238586 19/09/2023 MFK-BW-E5 Unfiltered
Ammonia as N	mg/L		<0.10		
Dissolved TKN as N	mg/L			0.7	
Filtered Total Nitrogen as N	mg/L			0.7	
Filtered Total Phosphorus as P	mg/L			0.08	
Nitrite+Nitrate as N	mg/L		<0.01	0.04	0.02
Reactive Phosphorus as P	mg/L		0.03		
Total Kjeldahl Nitrogen as N	mg/L				1.2
Total Nitrogen as N	mg/L				1.2
Total Phosphorus as P	mg/L				0.15

Analysis Results - External Methods* Area - EXTERNAL Analyte	Sample ID Start Date Client ID	238524 19/09/2023 MFK-Z-B1	238525 19/09/2023 MFK-Z-B2	238526 19/09/2023 MFK-Z-B3	238527 19/09/2023 MFK-Z-E1	238528 19/09/2023 MFK-Z-E2	238529 19/09/2023 MFK-Z-E3	238530 19/09/2023 MFK-Z-E4	238531 19/09/2023 MFK-Z-E5
Fixed Suspended Solids @ 550°C	mg/L	<5	20	15	22	7	<5	<5	<5
Suspended Solids (SS)	mg/L	19	28	28	33	28	20	13	18
Volatile Suspended Solids @ 550°C	mg/L	19	8	13	11	21	20	13	18

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

Method codeMethod descriptionAreaExternal Methods*External Methods - Analysis completed externallyEXTERNALExternal Methods*External Methods - Analysis completed externallyEXTERNALExternal Methods*External Methods - Analysis completed externallyEXTERNAL

The results in this report were authorised by:

Name	Title	Area	
	Senior Scientist	EXTERNAL	