

CERTIFICATE OF ANALYSIS

Work Order : EM2215131

Client : Dept for Environment & Water

Contact : DARCY MORRIS

Address : GPO BOX 2834

ADELAIDE SA, AUSTRALIA 5001

Telephone : ---

Project : HCHB Monitoring Program

Order number :

C-O-C number : 40926

Sampler : Bryce Drechsler, DARCY MORRIS
Site : HCBC Land run 8/9th August

Quote number : AD/052/20 V2

No. of samples received : 12
No. of samples analysed : 12

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Laboratory : Environmental Division Melbourne

Contact : Kieren Burns

Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61881625130

Date Samples Received : 10-Aug-2022 11:05

Date Analysis Commenced : 10-Aug-2022

Issue Date : 17-Aug-2022 16:55



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

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
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Arenie Vijayaratnam	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Samantha Smith	Assistant Laboratory Manager	WRG Subcontracting, Springvale, VIC

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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.
- EP005:EP002:It is recognised that total organic carbon is less than dissolved organic carbon for samples EM2215131 #3,#8-9,#11-12. However, the difference is within experimental variation of the methods.
- EP002:EP005:It is recognised that total organic carbon is less than dissolved organic carbon for samples EM2215131 #1-2. However, the results confirmed by re-extraction and re-analysis.
- EP008, Chlorophyll-a standard deos not contained Pheophytin-a standard.
- EP008, LOR raised for Chlorophyll-b for various samples due to samples matrix.
- EK067G: EM2215131 #5 Poor matrix spike recovery for Total phosphorus due to sample matrix. Confirmed by re-extraction and re-analysis.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.
- Total Algae Count (MB010) is conducted by ALS Scoresby NATA accreditation no. 992, site no. 989.

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Sub-Matrix: FRESH WATER (Matrix: WATER)			Sample ID	US Tauwitchere	DS Tauwitchere	Long Point	Noonameena	Bonneys
		Sampli	ng date / time	08-Aug-2022 13:24	08-Aug-2022 13:21	08-Aug-2022 15:07	08-Aug-2022 15:37	08-Aug-2022 15:57
Compound	CAS Number	LOR	Unit	EM2215131-001	EM2215131-002	EM2215131-003	EM2215131-004	EM2215131-005
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried a	at 180 ± 5 °C							
Total Dissolved Solids @180°C		10	mg/L	1320				
EA045: Turbidity								
Turbidity		0.1	NTU	66.9				
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1				
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1				
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	74				
Total Alkalinity as CaCO3		1	mg/L	74				
ED045G: Chloride by Discrete Analys	er							
Chloride	16887-00-6	1	mg/L	633				
EG052G: Silica by Discrete Analyser								
Reactive Silica		0.05	mg/L	3.82				
EK055G-SW: Ammonia as N by Discr	ete Analyser in Salir	ne Water						
Ammonia as N	7664-41-7	0.02	mg/L	0.12				
EK057G: Nitrite as N by Discrete Ana	alvser							
Nitrite as N	14797-65-0	0.01	mg/L	<0.01				
EK058G: Nitrate as N by Discrete An								
Nitrate as N	14797-55-8	0.01	mg/L	0.02				
EK059G: Nitrite plus Nitrate as N (NC			J. Company				I .	
Nitrite + Nitrate as N		0.01	mg/L	0.02				
EK061G: Total Kjeldahl Nitrogen By D			J					
Total Kjeldahl Nitrogen as N	Discrete Analysei	0.1	mg/L	1.0				
	NOw her Discussion Aug		mg/L	1.0				
EK062G: Total Nitrogen as N (TKN + I ` Total Nitrogen as N	NOX) by Discrete An	0.1	mg/L	1.0				
		0.1	IIIg/L	1.0				
EK067G: Total Phosphorus as P by D Total Phosphorus as P		0.01	mg/L	0.12			I .	I
		0.01	IIIg/L	0.12				
EP002: Dissolved Organic Carbon (D		1	ma/l	40		l	I	I
Dissolved Organic Carbon		1	mg/L	10				
EP005: Total Organic Carbon (TOC)		4					I	I
Total Organic Carbon		1	mg/L	6				
EP008: Chlorophyll								
Chlorophyll a		1	mg/m³	17	14	6	56	17
Chlorophyll b		1	mg/m³	<3	<3	<1	<1	<1

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Sub-Matrix: FRESH WATER (Matrix: WATER)			Sample ID	US Tauwitchere	DS Tauwitchere	Long Point	Noonameena	Bonneys
		Sampli	ng date / time	08-Aug-2022 13:24	08-Aug-2022 13:21	08-Aug-2022 15:07	08-Aug-2022 15:37	08-Aug-2022 15:57
Compound	CAS Number	LOR	Unit	EM2215131-001	EM2215131-002	EM2215131-003	EM2215131-004	EM2215131-005
				Result	Result	Result	Result	Result
EP008: Chlorophyll - Continued								
Pheophytin a		1	mg/m³	5	4	3	48	8
Subcontracted Analysis								
Dummy Analyte		-	-	NRind				

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Sub-Matrix: FRESH WATER (Matrix: WATER)			Sample ID	McGrath Flat North	Tilley Swamp Drain D/S Nth Outlet	Morella Basin @ outlet regulator	Morella Creek @ gauge	3.2km south of Salt Creek (land)
		Sampli	ing date / time	08-Aug-2022 16:29	09-Aug-2022 10:48	09-Aug-2022 09:25	09-Aug-2022 09:04	09-Aug-2022 08:36
Compound	CAS Number	LOR	Unit	EM2215131-006	EM2215131-007	EM2215131-008	EM2215131-009	EM2215131-010
,				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried a	nt 180 ± 5 °C							
Total Dissolved Solids @180°C		10	mg/L			6940	6970	
EA045: Turbidity								
Turbidity		0.1	NTU			6.4	4.8	
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L			<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L			68	67	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L			321	324	
Total Alkalinity as CaCO3		1	mg/L			389	391	
ED045G: Chloride by Discrete Analys	er							
Chloride	16887-00-6	1	mg/L			3940	4050	
EG052G: Silica by Discrete Analyser								
Reactive Silica		0.05	mg/L			15.4	15.4	
EK055G-SW: Ammonia as N by Discre	ete Analyser in Salir	ne Water						
Ammonia as N	7664-41-7	0.02	mg/L			<0.02	<0.02	
EK057G: Nitrite as N by Discrete Ana	llvser							
Nitrite as N	14797-65-0	0.01	mg/L			<0.01	<0.01	
EK058G: Nitrate as N by Discrete Ana	alvser							
Nitrate as N	14797-55-8	0.01	mg/L			0.08	0.02	
EK059G: Nitrite plus Nitrate as N (NC	(x) by Discrete Ana	lvser						
Nitrite + Nitrate as N		0.01	mg/L			0.08	0.02	
EK061G: Total Kjeldahl Nitrogen By D)iscrete Analyser							
Total Kjeldahl Nitrogen as N		0.1	mg/L			5.0	1.1	
EK062G: Total Nitrogen as N (TKN + I	NOx) by Discrete An	alvser						
^ Total Nitrogen as N		0.1	mg/L			5.1	1.1	
EK067G: Total Phosphorus as P by D	iscrete Analyser							
Total Phosphorus as P		0.01	mg/L			0.04	0.04	
EP002: Dissolved Organic Carbon (D								
Dissolved Organic Carbon		1	mg/L			8	8	
EP005: Total Organic Carbon (TOC)			J				·	
Total Organic Carbon		1	mg/L			6	7	
EP008: Chlorophyll			J -			-		
Chlorophyll a		1	mg/m³	14	<1	7	6	24
Chlorophyll b		1	mg/m³	<1	<1	<1	<1	2
- indiophyn b		1	9/111	· · ·	<u>''</u>		**	

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Sub-Matrix: FRESH WATER (Matrix: WATER)			Sample ID	McGrath Flat North	Tilley Swamp Drain D/S Nth Outlet	Morella Basin @ outlet regulator	Morella Creek @ gauge	3.2km south of Salt Creek (land)
		Samplii	ng date / time	08-Aug-2022 16:29	09-Aug-2022 10:48	09-Aug-2022 09:25	09-Aug-2022 09:04	09-Aug-2022 08:36
Compound	CAS Number	LOR	Unit	EM2215131-006	EM2215131-007	EM2215131-008	EM2215131-009	EM2215131-010
				Result	Result	Result	Result	Result
EP008: Chlorophyll - Continued								
Pheophytin a		1	mg/m³	5	<1	<1	1	3
Subcontracted Analysis								
Dummy Analyte		-	-			NRind	NRind	

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Sub-Matrix: FRESH WATER (Matrix: WATER)			Sample ID	Tilley Swamp Drain U/S Morella	Tilley Swamp Drain Watercourse Outlet	 	
		Sampli	ng date / time	09-Aug-2022 09:56	09-Aug-2022 10:35	 	
Compound	CAS Number	LOR	Unit	EM2215131-011	EM2215131-012	 	
				Result	Result	 	
EA015: Total Dissolved Solids dried at	t 180 ± 5 °C						
Total Dissolved Solids @180°C		10	mg/L	7920	6500	 	
EA045: Turbidity							
Turbidity		0.1	NTU	2.5	3.3	 	
ED037P: Alkalinity by PC Titrator							
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	 	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	 	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	387	386	 	
Total Alkalinity as CaCO3		1	mg/L	387	386	 	
ED045G: Chloride by Discrete Analyse	er						
Chloride	16887-00-6	1	mg/L	4060	3580	 	
EG052G: Silica by Discrete Analyser							
Reactive Silica		0.05	mg/L	12.5	12.5	 	
EK055G-SW: Ammonia as N by Discre	te Analyser in Salir	ne Water					
Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	 	
EK057G: Nitrite as N by Discrete Anal	vser						
Nitrite as N	14797-65-0	0.01	mg/L	0.02	0.02	 	
EK058G: Nitrate as N by Discrete Ana	lvser						
Nitrate as N	14797-55-8	0.01	mg/L	0.27	0.40	 	
EK059G: Nitrite plus Nitrate as N (NO	x) by Discrete Anal	lvser					
Nitrite + Nitrate as N		0.01	mg/L	0.29	0.42	 	
EK061G: Total Kjeldahl Nitrogen By Di	iscrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.6	0.6	 	
EK062G: Total Nitrogen as N (TKN + N	Ox) by Discrete An	alvser _					•
^ Total Nitrogen as N		0.1	mg/L	0.9	1.0	 	
EK067G: Total Phosphorus as P by Di	screte Analyser						
Total Phosphorus as P		0.01	mg/L	0.02	0.02	 	
EP002: Dissolved Organic Carbon (DC)C)						
Dissolved Organic Carbon		1	mg/L	3	4	 	
EP005: Total Organic Carbon (TOC)			_				
Total Organic Carbon		1	mg/L	1	2	 	
EP008: Chlorophyll							1
Chlorophyll a		1	mg/m³	<1	<1	 	
Chlorophyll b		1	mg/m³	<1	<1	 	
		•					

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Sub-Matrix: FRESH WATER			Sample ID	Tilley Swamp Drain	Tilley Swamp Drain	 	
(Matrix: WATER)				U/S Morella	Watercourse Outlet		
		Sampli	ng date / time	09-Aug-2022 09:56	09-Aug-2022 10:35	 	
Compound	CAS Number	LOR	Unit	EM2215131-011	EM2215131-012	 	
				Result	Result	 	
EP008: Chlorophyll - Continued							
Pheophytin a		1	mg/m³	<1	<1	 	
Subcontracted Analysis							
Dummy Analyte		-	-	NRind	NRind	 	

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Sub-Matrix: MARINE WATER (Matrix: WATER)			Sample ID	DS Tauwitchere	Long Point	Bonneys	McGrath Flat North	3.2km south of Salt Creek (land)
		Sampli	ing date / time	08-Aug-2022 13:21	08-Aug-2022 15:07	08-Aug-2022 15:57	08-Aug-2022 16:29	09-Aug-2022 08:36
Compound	CAS Number	LOR	Unit	EM2215131-002	EM2215131-003	EM2215131-005	EM2215131-006	EM2215131-010
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried a	t 180 ± 5 °C							
Total Dissolved Solids @180°C		10	mg/L	1600	6530	20300	45300	61600
EA045: Turbidity								
Turbidity		0.1	NTU	56.4	13.9	6.5	16.0	13.2
ED037P: Alkalinity by PC Titrator								
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	75	96	123	169	191
Total Alkalinity as CaCO3		1	mg/L	75	96	123	169	191
ED045G: Chloride by Discrete Analyse	er							
Chloride	16887-00-6	1	mg/L	853	3870	11000	24000	39400
EG052G: Silica by Discrete Analyser								
Reactive Silica		0.05	mg/L	3.94	5.40	0.90	0.65	2.23
EK055G-SW: Ammonia as N by Discre	ete Δnalvser in Sali	ne Water						
Ammonia as N	7664-41-7	0.02	mg/L	0.09	0.21	0.10	<0.02	<0.02
EK057G: Nitrite as N by Discrete Ana								
Nitrite as N	14797-65-0	0.01	mg/L	0.01	0.02	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Ana			J					
Nitrate as N	14797-55-8	0.01	mg/L	0.05	0.12	0.03	0.01	<0.01
EK059G: Nitrite plus Nitrate as N (NO			g					
Nitrite + Nitrate as N	X) by Discrete Ana	0.01	mg/L	0.06	0.14	0.03	0.01	<0.01
EK061G: Total Kjeldahl Nitrogen By D		0.0	g/ _		V			0.01
Total Kjeldahl Nitrogen as N		0.1	mg/L	1.6	3.7	2.0	2.5	4.1
-			mg/L	1.0	0.1	2.0	2.0	7.1
EK062G: Total Nitrogen as N (TKN + N ^ Total Nitrogen as N	OX) by Discrete Ar	0.1	mg/L	1.7	3.8	2.0	2.5	4.1
		0.1	mg/L	1.7	J.U	2.0	2.0	7.1
EK067G: Total Phosphorus as P by Di Total Phosphorus as P	screte Analyser	0.01	mg/L	0.15	0.71	0.06	0.22	0.98
		0.01	IIIg/L	0.10	0.71	0.00	0.22	0.30
EP002: Dissolved Organic Carbon (DC		4	mc/l	0	40	13	24	30
Dissolved Organic Carbon		1	mg/L	9	10	13	24	อป
EP005: Total Organic Carbon (TOC)						10	-	
Total Organic Carbon		1	mg/L	6	8	13	24	38
Subcontracted Analysis								
Dummy Analyte		-	-	NRind	NRind	NRind	NRind	NRind

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Sub-Matrix: SEAWATER (Matrix: WATER)			Sample ID	Noonameena	 		
		Sampli	ing date / time	08-Aug-2022 15:37	 		
Compound	CAS Number	LOR	Unit	EM2215131-004	 		
				Result	 		
EA015: Total Dissolved Solids dried at	t 180 ± 5 °C						
Total Dissolved Solids @180°C		10	mg/L	16700	 		
EA045: Turbidity							
Turbidity		0.1	NTU	14.3	 		
ED037P: Alkalinity by PC Titrator							
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	 		
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	 		
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	118	 		
Total Alkalinity as CaCO3		1	mg/L	118	 		
ED045G: Chloride by Discrete Analyse	er						
Chloride	16887-00-6	1	mg/L	9120	 		
EG052G: Silica by Discrete Analyser							
Reactive Silica		0.05	mg/L	3.48	 		
EK055G-SW: Ammonia as N by Discre	te Analyser in Salir	ne Water					
Ammonia as N	7664-41-7	0.02	mg/L	0.07	 		
EK057G: Nitrite as N by Discrete Anal	vser						
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	 		
EK058G: Nitrate as N by Discrete Ana	lvser						
Nitrate as N	14797-55-8	0.01	mg/L	0.02	 		
EK059G: Nitrite plus Nitrate as N (NO	x) by Discrete Ana	vser					
Nitrite + Nitrate as N		0.01	mg/L	0.02	 		
EK061G: Total Kjeldahl Nitrogen By Di	iscrete Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	3.3	 		
EK062G: Total Nitrogen as N (TKN + N			3				
^ Total Nitrogen as N	OX) by Discrete Air	0.1	mg/L	3.3	 		
EK067G: Total Phosphorus as P by Di	acrete Apolysor	U.	g				
Total Phosphorus as P		0.01	mg/L	0,28	 		
		0.0.	3. =				
EP002: Dissolved Organic Carbon (DC Dissolved Organic Carbon	 	1	mg/L	16	 		
_			mg/L	10	 		
EP005: Total Organic Carbon (TOC)		1	mg/L	16		l	I
Total Organic Carbon		ı	IIIg/L	10 	 		
Subcontracted Analysis				ND:n-1		I	I
Dummy Analyte		-	-	NRind	 		

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Sub-Matrix: WATER (Matrix: WATER)			Sample ID	Tilley Swamp Drain D/S Nth Outlet							
		Sampli	ng date / time	09-Aug-2022 10:48							
Compound	CAS Number	LOR	Unit	EM2215131-007							
				Result							
EA015: Total Dissolved Solids dried at 1	180 ± 5 °C										
Total Dissolved Solids @180°C		10	mg/L	5200							
EA045: Turbidity											
Turbidity		0.1	NTU	4.2							
ED037P: Alkalinity by PC Titrator											
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1							
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	12							
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	377							
Total Alkalinity as CaCO3		1	mg/L	389							
ED045G: Chloride by Discrete Analyser	ED045G: Chloride by Discrete Analyser										
Chloride	16887-00-6	1	mg/L	2720							
EG052G: Silica by Discrete Analyser											
Reactive Silica		0.05	mg/L	13.0							
EK055G-SW: Ammonia as N by Discrete	Analyser in Sali	ne Water									
Ammonia as N	7664-41-7		mg/L	0.02							
EK057G: Nitrite as N by Discrete Analys	ser										
Nitrite as N	14797-65-0	0.01	mg/L	0.02							
EK058G: Nitrate as N by Discrete Analy	/ser										
Nitrate as N	14797-55-8	0.01	mg/L	0.44							
EK059G: Nitrite plus Nitrate as N (NOx)	by Discrete Ana	lvser									
Nitrite + Nitrate as N		0.01	mg/L	0.46							
EK061G: Total Kjeldahl Nitrogen By Dis	crete Analyser										
Total Kjeldahl Nitrogen as N		0.1	mg/L	0.7							
EK062G: Total Nitrogen as N (TKN + NO	(x) by Discrete Ar	nalvser									
^ Total Nitrogen as N		0.1	mg/L	1.2							
EK067G: Total Phosphorus as P by Disc	crete Analyser										
Total Phosphorus as P		0.01	mg/L	0.02							
EP002: Dissolved Organic Carbon (DOC											
Dissolved Organic Carbon (BOC		1	mg/L	<1							
EP005: Total Organic Carbon (TOC)											
Total Organic Carbon		1	mg/L	<1							
Subcontracted Analysis			J								
Dummy Analyte		-	-	NRind							
	3===			u	I	<u> </u>	<u>I</u>				

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Inter-Laboratory Testing

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

(WATER) EP008: Chlorophyll