

CERTIFICATE OF ANALYSIS

Work Order : **EM2207234**
Client : **Dept for Environment & Water**
Contact : **STEPHEN MADIGAN**
Address : **GPO BOX 2834**
ADELAIDE SA, AUSTRALIA 5001
Telephone : **----**
Project : **HCHB**
Order number : **----**
C-O-C number : **----**
Sampler : **RD**
Site : **----**
Quote number : **AD/052/20 V2**
No. of samples received : **22**
No. of samples analysed : **22**

Page : 1 of 12
Laboratory : Environmental Division Melbourne
Contact : Kieren Burns
Address : 4 Westall Rd Springvale VIC Australia 3171
Telephone : +61881625130
Date Samples Received : 22-Apr-2022 11:45
Date Analysis Commenced : 22-Apr-2022
Issue Date : 02-May-2022 14:21



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

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
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	Melbourne Inorganics, Springvale, VIC
Samantha Smith	Assistant Laboratory Manager	WRG Subcontracting, Springvale, VIC



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 Contact 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.

- EP002:EP005:It is recognised that total organic carbon is less than dissolved organic carbon for samples EM2207234 #1-5, #7 & #16. 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 EM2207234 #11 & #22. However, the sample results have been confirmed by re-extraction & re-analysis.
- EP008; Chlorophyll-A Standard does not contain Pheophytin -a standard.
- EP008, LOR raised for Chlorophyll-,b, due to sample matrix.
- EA015H: EM2207234 #12-15, #18-#20: TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EK061G: EM2207206 #2 Poor matrix spike recovery for TKN 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.
- Algal Count (BM010) has been performed by ALS Water Resources Group, NATA Accreditation no. 992, Site no. 989.

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Murray Mouth	US Tauwitschere	DS Tauwitschere	Mark Point	Long Point
Sampling date / time				20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2207234-001	EM2207234-002	EM2207234-003	EM2207234-004	EM2207234-005	
				Result	Result	Result	Result	Result	
BM010: Algal Count									
Algal Count	----	-	-	NRinj	NRinj	NRinj	NRinj	NRinj	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	7500	306	268	822	3350	
EA045: Turbidity									
Turbidity	----	0.1	NTU	397	81.5	73.8	36.4	34.2	
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	112	106	108	116	108	
Total Alkalinity as CaCO3	----	1	mg/L	112	106	108	116	108	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	4100	51	52	396	1590	
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L	2.04	2.86	2.80	2.87	2.47	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L	0.07	0.10	0.05	0.12	0.03	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.07	0.01	0.08	0.02	0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.07	0.01	0.08	0.02	0.01	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7	1.6	1.2	0.8	0.8	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	0.8	1.6	1.3	0.8	0.8	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	0.02	0.07	0.08	0.03	0.04	
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	10	13	11	11	9	
EP005: Total Organic Carbon (TOC)									



Analytical Results

Sub-Matrix: **WATER**
 (Matrix: **WATER**)

Sample ID

				Murray Mouth	US Tauwitchere	DS Tauwitchere	Mark Point	Long Point
Sampling date / time				20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-001	EM2207234-002	EM2207234-003	EM2207234-004	EM2207234-005
				Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC) - Continued								
Total Organic Carbon	----	1	mg/L	9	12	8	9	10
EP008: Chlorophyll								
Chlorophyll a	----	1	mg/m³	4	19	13	7	15
Chlorophyll b	----	1	mg/m³	<1	<5	<4	<1	<1
Pheophytin a	----	1	mg/m³	2	16	7	5	5

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Noonameena	Bonneys	McGrath Flat North	Parnka Point	Villa de Yumpa
Sampling date / time				20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	21-Apr-2022 00:00	
Compound	CAS Number	LOR	Unit	EM2207234-006	EM2207234-007	EM2207234-008	EM2207234-009	EM2207234-010	
				Result	Result	Result	Result	Result	
BM010: Algal Count									
Algal Count	----	-	-	NRinj	NRinj	NRinj	NRinj	NRinj	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	18100	30800	50300	49100	49500	
EA045: Turbidity									
Turbidity	----	0.1	NTU	5.7	15.4	16.6	12.7	7.7	
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	131	132	161	158	166	
Total Alkalinity as CaCO3	----	1	mg/L	131	132	161	158	166	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	9460	15500	24200	25300	26000	
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L	0.41	0.11	0.33	0.46	0.54	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L	0.11	0.04	<0.02	0.02	<0.02	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.6	0.6	0.7	1.2	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	0.6	0.6	0.6	0.7	1.2	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	<0.01	0.02	0.03	0.04	0.09	
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	14	18	21	21	21	
EP005: Total Organic Carbon (TOC)									



Analytical Results

Sub-Matrix: **WATER**
 (Matrix: **WATER**)

Sample ID

				Noonameena	Bonneys	McGrath Flat North	Parnka Point	Villa de Yumpa
Sampling date / time				20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	20-Apr-2022 00:00	21-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-006	EM2207234-007	EM2207234-008	EM2207234-009	EM2207234-010
				Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC) - Continued								
Total Organic Carbon	----	1	mg/L	14	17	22	22	22
EP008: Chlorophyll								
Chlorophyll a	----	1	mg/m ³	2	9	13	10	8
Chlorophyll b	----	1	mg/m ³	<1	<1	3	4	4
Pheophytin a	----	1	mg/m ³	7	10	3	4	3

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Tilley Swamp Drain D/S Nth Outlet	Stoney Well	North Jacks Point	South Policeman Point	Snipe Point
Sampling date / time					21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-011	EM2207234-012	EM2207234-013	EM2207234-014	EM2207234-015	
				Result	Result	Result	Result	Result	
BM010: Algal Count									
Algal Count	----	-	-	NRinj	NRinj	NRinj	NRinj	NRinj	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	5200	68000	112000	124000	128000	
EA045: Turbidity									
Turbidity	----	0.1	NTU	6.0	11.2	22.8	24.9	28.9	
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	443	176	227	245	254	
Total Alkalinity as CaCO3	----	1	mg/L	443	176	227	245	254	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	2600	33300	62800	64500	65300	
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L	12.8	1.33	6.20	8.13	8.50	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L	0.03	<0.02	<0.02	<0.02	<0.02	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	0.02	<0.01	<0.01	<0.01	<0.01	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.9	1.2	3.7	4.0	4.2	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	0.9	1.2	3.7	4.0	4.2	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	0.01	0.08	1.55	2.52	2.29	
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	6	27	44	45	45	
EP005: Total Organic Carbon (TOC)									



Analytical Results

Sub-Matrix: **WATER**
 (Matrix: **WATER**)

Sample ID

				Tilley Swamp Drain D/S Nth Outlet	Stoney Well	North Jacks Point	South Policeman Point	Snipe Point
Sampling date / time				21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-011	EM2207234-012	EM2207234-013	EM2207234-014	EM2207234-015
				Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC) - Continued								
Total Organic Carbon	----	1	mg/L	3	28	53	56	56
EP008: Chlorophyll								
Chlorophyll a	----	1	mg/m ³	1	7	27	27	68
Chlorophyll b	----	1	mg/m ³	<1	1	<1	<1	<1
Pheophytin a	----	1	mg/m ³	<1	1	23	54	17



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Sample ID

				Morella Basin @ outlet regulator	Morella Creek @ gauge	Salt Creek Outlet	1.8km west of Salt Creek	3.2km south of Salt Creek (land)
Sampling date / time				21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-016	EM2207234-017	EM2207234-018	EM2207234-019	EM2207234-020
				Result	Result	Result	Result	Result
BM010: Algal Count								
Algal Count	----	-	-	NRinj	NRinj	NRinj	NRinj	NRinj
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Total Dissolved Solids @180°C	----	10	mg/L	14500	14800	92000	117000	132000
EA045: Turbidity								
Turbidity	----	0.1	NTU	11.1	18.6	22.8	28.1	29.6
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	121	117	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	292	292	294	239	251
Total Alkalinity as CaCO3	----	1	mg/L	414	410	294	239	251
ED045G: Chloride by Discrete Analyser								
Chloride	16887-00-6	1	mg/L	7630	7560	50300	64100	65800
EG052G: Silica by Discrete Analyser								
Reactive Silica	----	0.05	mg/L	7.28	7.38	7.53	8.52	7.91
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water								
Ammonia as N	7664-41-7	0.02	mg/L	0.06	0.39	0.02	<0.02	0.03
EK057G: Nitrite as N by Discrete Analyser								
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser								
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser								
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.9	0.9	4.1	4.4	4.7
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser								
^ Total Nitrogen as N	----	0.1	mg/L	0.9	0.9	4.1	4.4	4.7
EK067G: Total Phosphorus as P by Discrete Analyser								
Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.91	3.22	2.86
EK071G: Reactive Phosphorus as P by discrete analyser								
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01
EP002: Dissolved Organic Carbon (DOC)								
Dissolved Organic Carbon	----	1	mg/L	17	18	39	44	46



Analytical Results

Sub-Matrix: **WATER**
 (Matrix: **WATER**)

Sample ID

				Morella Basin @ outlet regulator	Morella Creek @ gauge	Salt Creek Outlet	1.8km west of Salt Creek	3.2km south of Salt Creek (land)
Sampling date / time				21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00	21-Apr-2022 00:00
Compound	CAS Number	LOR	Unit	EM2207234-016	EM2207234-017	EM2207234-018	EM2207234-019	EM2207234-020
				Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon	----	1	mg/L	16	18	46	56	57
EP008: Chlorophyll								
Chlorophyll a	----	1	mg/m ³	5	9	31	47	42
Chlorophyll b	----	1	mg/m ³	<1	1	<1	<1	3
Pheophytin a	----	1	mg/m ³	2	<1	20	15	2

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Tilley Swamp Drain U/S Morella	Tilley Swamp Drain Watercourse Outlet	----	----	----
Sampling date / time				21-Apr-2022 00:00	21-Apr-2022 00:00	----	----	----	
Compound	CAS Number	LOR	Unit	EM2207234-021	EM2207234-022	-----	-----	-----	
				Result	Result	----	----	----	
BM010: Algal Count									
Algal Count	----	-	-	NRinj	NRinj	----	----	----	
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L	5340	4960	----	----	----	
EA045: Turbidity									
Turbidity	----	0.1	NTU	2.6	5.4	----	----	----	
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	40	22	----	----	----	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	412	429	----	----	----	
Total Alkalinity as CaCO3	----	1	mg/L	451	451	----	----	----	
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L	2670	2620	----	----	----	
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L	12.0	12.9	----	----	----	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L	0.36	0.05	----	----	----	
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	----	----	----	
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L	<0.01	<0.01	----	----	----	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	----	----	----	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.8	----	----	----	
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L	0.6	0.8	----	----	----	
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L	<0.01	0.02	----	----	----	
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	----	----	----	
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L	5	5	----	----	----	
EP005: Total Organic Carbon (TOC)									



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Tilley Swamp Drain U/S Morella	Tilley Swamp Drain Watercourse Outlet	----	----	----
Sampling date / time					21-Apr-2022 00:00	21-Apr-2022 00:00	----	----	----
Compound	CAS Number	LOR	Unit		EM2207234-021	EM2207234-022	-----	-----	-----
				Result	Result		----	----	----
EP005: Total Organic Carbon (TOC) - Continued									
Total Organic Carbon	----	1	mg/L		6	2	----	----	----
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m ³		1	4	----	----	----
Chlorophyll b	----	1	mg/m ³		<1	<1	----	----	----
Pheophytin a	----	1	mg/m ³		<1	1	----	----	----

Inter-Laboratory Testing

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

(WATER) EP008: Chlorophyll