

QUALITY CONTROL REPORT

Work Order	: EM2125413	Page	: 1 of 8
Client	: Dept for Environment & Water	Laboratory	: Environmental Division Melbourne
Contact	: Mr FRANK MANGERUCA	Contact	: Kieren Burns
Address	: GPO BOX 2834 ADELAIDE SA, AUSTRALIA 5001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61881625130
Project	: HCHB - Phase 1	Date Samples Received	: 16-Dec-2021
Order number	: ----	Date Analysis Commenced	: 16-Dec-2021
C-O-C number	: ----	Issue Date	: 24-Dec-2021
Sampler	: ----		
Site	: ----		
Quote number	: AD/052/20 V2		
No. of samples received	: 22		
No. of samples analysed	: 22		



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 Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	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

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 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.

Laboratory Duplicate (DUP) Report

Sub-Matrix: WATER

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 4086799)									
EM2125413-001	1.8km west of Salt Creek	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EM2125413-010	Noonameena	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 4086801)									
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.33	0.33	0.0	0% - 50%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4086150)									
EM2125401-002	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	7550	7670	1.6	0% - 20%
EM2125413-004	Long Point	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	40700	38600	5.3	0% - 20%
EM2125413-014	Snipe Point	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	69200	70000	1.2	0% - 20%
EM2125431-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1910	1840	3.5	0% - 20%
EA045: Turbidity (QC Lot: 4082336)									
EM2125212-001	Anonymous	EA045: Turbidity	----	0.1	NTU	127	131	3.1	0% - 20%
EM2125280-002	Anonymous	EA045: Turbidity	----	0.1	NTU	1.5	1.2	18.7	0% - 50%
EA045: Turbidity (QC Lot: 4082337)									
EM2125413-012	Parnka Point	EA045: Turbidity	----	0.1	NTU	32.5	31.7	2.5	0% - 20%
EM2125426-002	Anonymous	EA045: Turbidity	----	0.1	NTU	0.2	0.2	0.0	No Limit
EA045: Turbidity (QC Lot: 4086215)									
EM2124715-001	Anonymous	EA045: Turbidity	----	0.1	NTU	1.0	0.9	0.0	No Limit
EM2125192-005	Anonymous	EA045: Turbidity	----	0.1	NTU	19.9	19.8	0.5	0% - 20%
EA045: Turbidity (QC Lot: 4086216)									
EM2125413-005	Mark Point	EA045: Turbidity	----	0.1	NTU	18.0	17.5	2.8	0% - 20%
EM2125504-004	Anonymous	EA045: Turbidity	----	0.1	NTU	18.5	17.6	5.0	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4083354)									



Sub-Matrix: **WATER**

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
ED037P: Alkalinity by PC Titrator (QC Lot: 4083354) - continued									
EM2125413-009	Murray Mouth	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	89	82	7.7	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	89	82	7.7	0% - 20%
EM2125374-009	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	22	22	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	22	22	0.0	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4083356)									
EM2125413-019	Tilley Swamp Drain D/S Nth Outlet	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	38	# 103	91.2	0% - 20%
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	352	292	18.7	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	390	395	1.1	0% - 20%
EM2125414-007	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	523	532	1.6	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	524	532	1.4	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4081855)									
EM2125413-006	McGrath Flat North	ED045G: Chloride	16887-00-6	1	mg/L	42400	43900	3.6	0% - 20%
EM2125167-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	<5	<5	0.0	No Limit
ED045G: Chloride by Discrete Analyser (QC Lot: 4081859)									
EM2125414-004	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	103	96	6.1	0% - 20%
EM2125413-018	Tauwitchere U/S	ED045G: Chloride	16887-00-6	1	mg/L	73	71	2.9	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4081858)									
EM2125413-001	1.8km west of Salt Creek	EG052G: Reactive Silica	----	0.05	mg/L	3.91	3.93	0.4	0% - 20%
EM2125413-011	North Jacks Point	EG052G: Reactive Silica	----	0.05	mg/L	4.67	4.71	0.9	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4081862)									
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EG052G: Reactive Silica	----	0.05	mg/L	17.4	17.4	0.0	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4081857)									
EM2125413-009	Murray Mouth	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2125289-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4081861)									
EM2125413-020	Tilley Swamp Drain U/S Morella	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2125414-007	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4086798)									
EM2125413-001	1.8km west of Salt Creek	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit

Page : 4 of 8
 Work Order : EM2125413
 Client : Dept for Environment & Water
 Project : HCHB - Phase 1



Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4086798) - continued									
EM2125413-010	Noonameena	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4086800)									
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.01	<0.01	0.0	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4089699)									
EM2125394-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.2	0.2	0.0	No Limit
EM2125413-002	3.2km south of Salt Creek (land)	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	3.5	3.1	13.6	0% - 20%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4089701)									
EM2125413-013	Salt Creek Outlet	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	3.1	3.2	3.9	0% - 20%
EM2125413-022	Villa de Yumpa	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	4.7	4.5	3.6	0% - 20%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4089698)									
EM2125413-002	3.2km south of Salt Creek (land)	EK067G: Total Phosphorus as P	----	0.01	mg/L	4.48	4.68	4.5	0% - 20%
EM2125394-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4089700)									
EM2125413-013	Salt Creek Outlet	EK067G: Total Phosphorus as P	----	0.01	mg/L	3.17	3.42	7.4	0% - 20%
EM2125413-022	Villa de Yumpa	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.30	0.31	0.0	0% - 20%
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4081854)									
EM2125413-007	Morella Basin @ outlet regulator	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.03	0.03	0.0	No Limit
EM2125167-001	Anonymous	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	1850	1910	2.8	0% - 20%
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4081860)									
EM2125413-018	Tauwiche U/S	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	<0.01	0.0	No Limit
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4084259)									
EM2125413-001	1.8km west of Salt Creek	EP002: Dissolved Organic Carbon	----	1	mg/L	33	33	0.0	0% - 20%
EM2125413-010	Noonameena	EP002: Dissolved Organic Carbon	----	1	mg/L	23	23	0.0	0% - 20%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4084262)									
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EP002: Dissolved Organic Carbon	----	1	mg/L	9	8	0.0	No Limit
EP005: Total Organic Carbon (TOC) (QC Lot: 4084260)									
EM2125413-001	1.8km west of Salt Creek	EP005: Total Organic Carbon	----	1	mg/L	46	46	0.0	0% - 20%
EM2125413-010	Noonameena	EP005: Total Organic Carbon	----	1	mg/L	24	24	0.0	0% - 20%
EP005: Total Organic Carbon (TOC) (QC Lot: 4084261)									
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EP005: Total Organic Carbon	----	1	mg/L	9	8	0.0	No Limit
EP008: Chlorophyll (QC Lot: 4090817)									
EM2125413-001	1.8km west of Salt Creek	EP008B: Chlorophyll b	----	1	mg/m³	2	2	0.0	No Limit

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4086799)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	112	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4086801)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	86.7	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4086150)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	99.3	91.0	110
				<10	2460 mg/L	101	81.7	118
				<10	293 mg/L	95.6	91.0	110
EA045: Turbidity (QCLot: 4082336)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	103	88.1	110
EA045: Turbidity (QCLot: 4082337)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	101	88.1	110
EA045: Turbidity (QCLot: 4086215)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	99.2	88.1	110
EA045: Turbidity (QCLot: 4086216)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	99.2	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 4083354)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	92.9	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 4083356)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	94.7	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 4081855)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	107	85.0	115
				<1	1000 mg/L	106	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4081859)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	107	85.0	115
				<1	1000 mg/L	108	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 4081858)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	107	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 4081862)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	110	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4081857)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	102	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4081861)								



Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result			Low	High
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4081861) - continued								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	102	90.9	112
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4086798)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	109	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4086800)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	110	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4089699)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	109	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4089701)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	86.7	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4089698)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	103	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4089700)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	82.2	71.9	114
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4081854)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	117	92.7	119
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4081860)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	101	92.7	119
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4084259)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	102	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4084262)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	98.7	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 4084260)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	100	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 4084261)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	98.3	81.2	110
EP008: Chlorophyll (QCLot: 4090817)								
EP008B: Chlorophyll b	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4090818)								
EP008B: Chlorophyll b	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4090819)								
EP008: Chlorophyll a	----	1	mg/m ³	<1	20 mg/m ³	98.5	70.0	130
EP008: Pheophytin a	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4090820)								
EP008: Chlorophyll a	----	1	mg/m ³	<1	20 mg/m ³	107	70.0	130
EP008: Pheophytin a	----	1	mg/m ³	<1	----	----	----	----

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Matrix Spike (MS) Report

Laboratory sample ID		Sample ID	Method: Compound	CAS Number	Spike Concentration	SpikeRecovery(%) MS	Acceptable Limits (%) Low High	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4086799)								
EM2125413-002	3.2km south of Salt Creek (land)	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	# 41.7	70.0	130	
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4086801)								
EM2125413-022	Villa de Yumpa	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	# 56.6	70.0	130	
ED045G: Chloride by Discrete Analyser (QCLot: 4081855)								
EM2125167-002	Anonymous	ED045G: Chloride	16887-00-6	2000 mg/L	120	70.0	142	
ED045G: Chloride by Discrete Analyser (QCLot: 4081859)								
EM2125413-019	Tilley Swamp Drain D/S Nth Outlet	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142	
EG052G: Silica by Discrete Analyser (QCLot: 4081858)								
EM2125413-002	3.2km south of Salt Creek (land)	EG052G: Reactive Silica	----	5 mg/L	80.8	80.0	120	
EG052G: Silica by Discrete Analyser (QCLot: 4081862)								
EM2125413-022	Villa de Yumpa	EG052G: Reactive Silica	----	5 mg/L	# 74.3	80.0	120	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4081857)								
EM2125413-001	1.8km west of Salt Creek	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	105	80.0	114	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4081861)								
EM2125413-021	Tilley Swamp Drain Watercourse Outlet	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	106	80.0	114	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4086798)								
EM2125413-002	3.2km south of Salt Creek (land)	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	81.8	70.0	130	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4086800)								
EM2125413-022	Villa de Yumpa	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	78.3	70.0	130	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4089699)								
EM2125394-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	105	70.0	130	
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4089701)								
EM2125413-014	Snipe Point	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	91.3	70.0	130	
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4089698)								
EM2125394-002	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	78.2	70.0	130	
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4089700)								
EM2125413-014	Snipe Point	EK067G: Total Phosphorus as P	----	1 mg/L	77.3	70.0	130	
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4081854)								

Page : 8 of 8
 Work Order : EM2125413
 Client : Dept for Environment & Water
 Project : HCHB - Phase 1



Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4081854) - continued							
EM2125167-002	Anonymous	EK071G: Reactive Phosphorus as P	14265-44-2	25 mg/L	# Not Determined	79.0	123
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4081860)							
EM2125413-019	Tilley Swamp Drain D/S Nth Outlet	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	114	79.0	123
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4084259)							
EM2125413-002	3.2km south of Salt Creek (land)	EP002: Dissolved Organic Carbon	----	100 mg/L	116	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4084262)							
EM2125413-022	Villa de Yumpa	EP002: Dissolved Organic Carbon	----	500 mg/L	# 123	75.0	117
EP005: Total Organic Carbon (TOC) (QCLot: 4084260)							
EM2125413-002	3.2km south of Salt Creek (land)	EP005: Total Organic Carbon	----	100 mg/L	110	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 4084261)							
EM2125413-022	Villa de Yumpa	EP005: Total Organic Carbon	----	100 mg/L	117	76.6	125