ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2216764**	Page	: 1 of 8
Client	: **Dept for Environment & Water**	Laboratory	: Environmental Division Melbourne
Contact	: DARCY MORRIS	Contact	: Kieren Burns
Address	: GPO BOX 2834 ADELAIDE SA, AUSTRALIA 5001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61881625130
Project	: HCHB Monitoring Program	Date Samples Received	: 01-Sep-2022
Order number	: -	Date Analysis Commenced	: 02-Sep-2022
C-O-C number	: 41794	Issue Date	: 09-Sep-2022
Sampler	: Bryce Drechsler, DARCY MORRIS		
Site	: HCBC Land 30/31st August		
Quote number	: AD/052/20 V2		
No. of samples received	: 12		
No. of samples analysed	: 12		

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 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.

Signatories	*Position*	*Accreditation Category*
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, 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.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
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
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

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: 4559796)									
EM2216763-001	Anonymous	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EM2216763-010	Anonymous	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: 4559798)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4561737)									
EM2216764-002	DS Tauwitchere	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	951	937	1.5	0% - 20%
EM2216817-009	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	13000	13100	0.7	0% - 20%
EM2216829-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	351	342	2.6	0% - 20%
EM2216685-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4910	4850	1.2	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4564623)									
EM2216763-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	54900	56800	3.5	0% - 20%
EM2216764-009	Morella Creek @ gauge	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	6950	7020	1.0	0% - 20%
EM2216817-008	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4620	4740	2.6	0% - 20%
EM2216871-004	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	288	275	4.4	0% - 20%
EA045: Turbidity (QC Lot: 4557550)									
EM2216763-001	Anonymous	EA045: Turbidity	----	0.1	NTU	65.4	67.5	3.2	0% - 20%
EM2216763-010	Anonymous	EA045: Turbidity	----	0.1	NTU	12.7	12.4	2.4	0% - 20%
EA045: Turbidity (QC Lot: 4557551)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EA045: Turbidity	----	0.1	NTU	2.1	2.1	0.0	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4565013)									
EM2216764-001	US Tauwitchere	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit

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: 4565013) - continued									
EM2216764-001	US Tauwitchere	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	66	67	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	66	67	0.0	0% - 20%
EM2216493-005	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	204	196	4.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	204	196	4.0	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4565015)									
EM2216764-011	Tilley Swamp Drain U/S Morella	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	403	403	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	403	403	0.0	0% - 20%
EM2217005-001	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	95	89	6.2	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	95	89	6.2	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4556430)									
EM2216763-009	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	30900	30500	1.2	0% - 20%
EM2216763-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	4680	4580	2.1	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4556433)									
EM2216860-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	209	208	0.0	0% - 20%
EM2216764-011	Tilley Swamp Drain U/S Morella	ED045G: Chloride	16887-00-6	1	mg/L	4110	4150	0.9	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4556428)									
EM2216764-001	US Tauwitchere	EG052G: Reactive Silica	----	0.05	mg/L	2.94	3.02	2.5	0% - 20%
EM2216763-001	Anonymous	EG052G: Reactive Silica	----	0.05	mg/L	2.72	2.73	0.0	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4556431)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EG052G: Reactive Silica	----	0.05	mg/L	11.6	11.8	2.0	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4556429)									
EM2216763-010	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2216763-001	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: 4556432)									
EM2216911-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.31	0.31	0.0	0% - 20%
EM2216764-011	Tilley Swamp Drain U/S Morella	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.02	0.02	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4559797)									
EM2216763-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.06	0.06	0.0	No Limit

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: 4559797) - continued									
EM2216763-010	Anonymous	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: 4559799)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.70	0.70	0.0	0% - 20%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4558551)									
EM2216763-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.0	0.9	0.0	No Limit
EM2216763-010	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	3.2	4.4	31.6	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4558553)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.5	0.0	No Limit
EM2216786-004	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.3	0.3	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4558552)									
EM2216763-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.04	0.04	0.0	No Limit
EM2216763-010	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.15	0.35	80.1	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4558554)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.02	<0.02	0.0	No Limit
EM2216786-004	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.07	0.09	23.6	No Limit
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4558487)									
EM2216763-001	Anonymous	EP002: Dissolved Organic Carbon	----	1	mg/L	9	9	0.0	No Limit
EM2216763-010	Anonymous	EP002: Dissolved Organic Carbon	----	1	mg/L	28	29	0.0	0% - 50%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4558488)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EP002: Dissolved Organic Carbon	----	1	mg/L	7	8	0.0	No Limit
EP005: Total Organic Carbon (TOC) (QC Lot: 4558495)									
EM2216763-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	8	7	0.0	No Limit
EM2216763-010	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	35	34	3.4	0% - 50%
EP005: Total Organic Carbon (TOC) (QC Lot: 4563414)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EP005: Total Organic Carbon	----	1	mg/L	14	11	21.6	0% - 50%
EM2216916-008	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	36	38	3.3	0% - 20%
EP008: Chlorophyll (QC Lot: 4563690)									
EM2216764-011	Tilley Swamp Drain U/S Morella	EP008B: Chlorophyll b	----	1	mg/m³	<1	<1	0.0	No Limit

Method Blank (MB) and Laboratory Control Sample (LCS) Report

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	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4559796)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	92.7	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4559798)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	92.7	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4561737)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	99.8	91.0	110
				<10	2440 mg/L	104	81.6	118
				<10	293 mg/L	105	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4564623)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	104	91.0	110
				<10	2440 mg/L	108	81.6	118
				<10	293 mg/L	104	91.0	110
EA045: Turbidity (QCLot: 4557550)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	101	88.1	110
EA045: Turbidity (QCLot: 4557551)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	104	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 4565013)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	93.0	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 4565015)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	96.8	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 4556430)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	102	85.0	115
				<1	1000 mg/L	106	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4556433)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	101	85.0	115
				<1	1000 mg/L	107	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 4556428)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	97.3	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 4556431)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	98.4	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4556429)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	104	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4556432)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	104	90.9	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4559797)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	102	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4559799)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	102	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4558551)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	73.2	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4558553)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	95.0	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4558552)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	96.7	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4558554)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	96.8	71.9	114
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4558487)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	96.3	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4558488)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	98.6	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 4558495)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	98.9	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 4563414)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	94.4	81.2	110
EP008: Chlorophyll (QCLot: 4563687)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	111	70.0	130
EP008: Pheophytin a	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4563688)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	107	70.0	130
EP008: Pheophytin a	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4563689)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4563690)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----

Matrix Spike (MS) Report

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.

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4559796)							
EM2216763-002	Anonymous	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	100	70.0	130
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4559798)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	127	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4556430)							
EM2216763-002	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 4556433)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 4556428)							
EM2216763-002	Anonymous	EG052G: Reactive Silica	----	5 mg/L	89.7	80.0	120
EG052G: Silica by Discrete Analyser (QCLot: 4556431)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EG052G: Reactive Silica	----	5 mg/L	94.4	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4556429)							
EM2216763-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	97.0	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4556432)							
EM2216911-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	# Not Determined	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4559797)							
EM2216763-002	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	90.8	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4559799)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	85.7	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4558551)							
EM2216763-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	103	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4558553)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	103	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4558552)							
EM2216763-002	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	96.4	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4558554)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EK067G: Total Phosphorus as P	----	1 mg/L	96.4	70.0	130
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4558487)							
EM2216763-002	Anonymous	EP002: Dissolved Organic Carbon	----	200 mg/L	99.4	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4558488)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EP002: Dissolved Organic Carbon	----	200 mg/L	104	75.0	117

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP005: Total Organic Carbon (TOC) (QCLot: 4558495)							
EM2216763-002	Anonymous	EP005: Total Organic Carbon	----	200 mg/L	104	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 4563414)							
EM2216764-012	Tilley Swamp Drain Watercourse Outlet	EP005: Total Organic Carbon	----	100 mg/L	114	76.6	125