Sample Identification		Aquatic Ecosystem Guideline ^A	Water Tank					
Rainfall (mm) in preceding 24hours ^B	PQL		28.8					
Time of Sample Collection		95% Fresh	9:00					
Date of Sample Collection			1/05/2025					
	Sample Description							
Laborat	ory Re	port Reference	ES2512408					
	S	ample Purpose	Water Tank					
	Sam	ple collected by	Toll - JC					
Ammonia as N	0.01	0.9	9.46					
Nitrate ^C	0.01	0.04	8.32					
Oil and Grease	5		26					
Total Suspended Solds	5		227					

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9am 30th April to 9am 1st May 2025.

 $^{^{\}rm C}$ Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification	Aquatic Ecosystem Guideline ^A		SW1	SW2	
Rainfall (mm) in preceding 24hours ^B	PQL		10).2	
Time of Sample Collection	-	95% Fresh	11:00	11:00	
Date of Sample Collection			12/05	5/2025	
	Dirty brown, little to no odour, small amount of sediment	Dirty brown, little to no odour, small amount of sediment			
Laborat	ory Re	eport Reference	ES2513634 ES2513634		
	S	Sample Purpose	EPL Compliance		
	Sam	ple collected by	Toll	- JC	
Ammonia as N	0.01	0.9	8.73	70.9	
Nitrate ^C	0.01	0.04	63	194	
Oil and Grease	5		28	<5	
Total Suspended Solds		103	650		

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 11am 11th May to 11am 12th May 2025.

 $^{^{\}rm C}$ Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification	Aquatic Ecosystem Guideline A		SW1	SW2	
Rainfall (mm) in preceding 24hours ^B	PQL		5	.8	
Time of Sample Collection	-	95% Fresh	10:00	10:00	
Date of Sample Collection			15/05	/2025	
	Dirty brown, small amount of sediment, little to no odour,	Dirty brown, small amount of sediment, little to no odour,			
Laborat	ory Re	eport Reference	EN2508054 EN2508054		
		ample Purpose	EPL Compliance		
	Sam	ple collected by	Toll	- JC	
Ammonia as N	0.01	0.9	35.3	6.39	
Nitrate ^C	0.01	0.04	182 27.5		
Oil and Grease	5		29 29		
Total Suspended Solds	5		4650	1570	

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9am 14th May to 9am 15th May 2025. Amount of rain between 9am and 10am 15th May

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2	
Rainfall (mm) in preceding 24hours ^B	PQL		18	3.6	
Time of Sample Collection	-	95% Fresh	10:00	10:00	
Date of Sample Collection			22/05	/2025	
	Dirty brown, small amount of sediment, little to no odour	Dirty brown, small amount of sediment, little to no odour			
Laborat	ory Re	eport Reference	ES2515007 ES2515007		
		ample Purpose	EPL Compliance		
	Sam	ple collected by	Toll	- JC	
Ammonia as N	0.01	0.9	44.5	29.2	
Nitrate ^C	0.01	0.04	69 41.2		
Oil and Grease	5		8 12		
Total Suspended Solds	5		78	732	

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9am 21st May to 9am 22nd May 2025. Amount of rain between 9am and 10am 22nd May

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2	
Rainfall (mm) in preceding 24hours ^B	PQL		14	9.0	
Time of Sample Collection		95% Fresh	9:00	9:00	
Date of Sample Collection			23/05	5/2025	
	Dirty brown, little to no odour	Dirty brown, little to no odour			
Laborat	ory Re	eport Reference	ES2515204 ES2515204		
	S	Sample Purpose	EPL Compliance		
	Sam	ple collected by	Toll - JC		
Ammonia as N	0.01	0.9	53.8	41.4	
Nitrate ^C	0.01	0.04	59.2	54.3	
Oil and Grease	5		7	<5	
Total Suspended Solds	5		241	12	

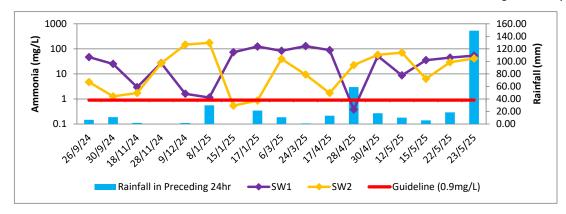
Blank Cell indicates no criterion available

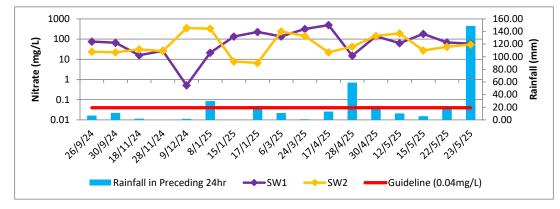
PQL = Practical Quantitation Limit.

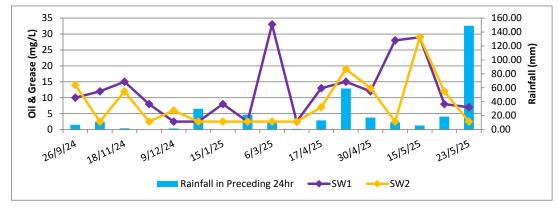
^A % Protection Level for Receiving Water Type.

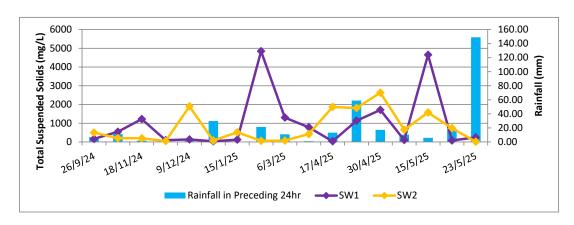
^B Based on BOM Williamtown data from 9am 22nd May to 9am 23rd May 2025.

^C Guidelines for Lowland (Coastal) Rivers in NSW











CERTIFICATE OF ANALYSIS

Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number ----

C-O-C number : ----

Sampler : Toll SST Tomagao

Site : ---

Quote number : NSW Custom BQ 2024

No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 01-May-2025 13:25

Date Analysis Commenced : 02-May-2025

Issue Date : 08-May-2025 13:45





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

Page : 2 of 2 Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SW3 (Water Tank)	 	
		Sampli	ng date / time	01-May-2025 00:00	 	
Compound	CAS Number	LOR	Unit	ES2512408-001	 	
				Result	 	
EA025: Total Suspended Solids dried a	t 104 ± 2°C					
Suspended Solids (SS)		5	mg/L	227	 	
EK055G: Ammonia as N by Discrete An	alyser					
Ammonia as N	7664-41-7	0.01	mg/L	9.46	 	
EK057G: Nitrite as N by Discrete Analy	ser					
Nitrite as N	14797-65-0	0.01	mg/L	2.48	 	
EK058G: Nitrate as N by Discrete Analy	/ser					
Nitrate as N	14797-55-8	0.01	mg/L	8.32	 	
EK059G: Nitrite plus Nitrate as N (NOx)	by Discrete Ana	lyser				
Nitrite + Nitrate as N		0.01	mg/L	10.8	 	
EP020: Oil and Grease (O&G)						
Oil & Grease		5	mg/L	26	 	





QUALITY CONTROL REPORT

Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

C-O-C number · ----

Sampler : Toll SST Tomagao

Site · ---

Quote number : NSW Custom BQ 2024

No. of samples received : 1
No. of samples analysed : 1

Page : 1 of 3

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 01-May-2025

Date Analysis Commenced : 02-May-2025

Issue Date : 08-May-2025



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

Page : 2 of 3 Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

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	b-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EA025: Total Suspen	ded Solids dried at 104 ± 2°	C (QC Lot: 6554340)								
ES2512337-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit	
ES2512382-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	6	5	0.0	No Limit	
ES2512426-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	10	6	44.8	No Limit	
ES2512537-005	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit	
EK055G: Ammonia as	s N by Discrete Analyser (0	QC Lot: 6553032)								
ES2512432-008	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.64	0.63	2.4	0% - 20%	
ES2512408-001	SW3 (Water Tank)	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	9.46	9.51	0.5	0% - 20%	
EK057G: Nitrite as N	by Discrete Analyser (QC	Lot: 6549476)								
EW2502282-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit	
ES2512572-001	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 Disc	rete Analyser (QC Lot: 6553033)								
ES2512408-001	SW3 (Water Tank)	EK059G: Nitrite + Nitrate as N		0.01	mg/L	10.8	10.9	0.7	0% - 20%	

Page : 3 of 3 Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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)	Laboratory Control Spike (LCS) Report					
				Report	Spike	Spike Recovery (%)	Acceptable Limits (%)			
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High		
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6554340)										
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	100	83.0	129		
				<5	1000 mg/L	94.4	82.0	110		
				<5	842 mg/L	95.0	83.0	118		
EK055G: Ammonia as N by Discrete Analyser (QCLot: 65	53032)									
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	98.7	90.0	114		
EK057G: Nitrite as N by Discrete Analyser (QCLot: 65494	176)									
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	101	82.0	114		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analy	yser (QCLot: 6	553033)								
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	104	91.0	113		
EP020: Oil and Grease (O&G) (QCLot: 6554353)										
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	93.2	81.0	121		
				<5	4000 mg/L	84.4	70.0	110		

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		۸	Matrix Spike (MS) Report							
			Spike	SpikeRecovery(%)	Acceptable l	Limits (%)				
Laboratory sample ID	Sample ID	Method: Compound CAS Nui	nber Concentration	MS	Low	High				
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6553032)									
ES2512408-001	SW3 (Water Tank)	EK055G: Ammonia as N 7664-41	-7 1 mg/L	# Not	70.0	130				
				Determined						
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6549476)									
ES2512572-001	Anonymous	EK057G: Nitrite as N 14797-6	5-0 0.5 mg/L	103	70.0	130				
EK059G: Nitrite pl	EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6553033)									
ES2512408-001	SW3 (Water Tank)	EK059G: Nitrite + Nitrate as N	0.5 mg/L	# Not	70.0	130				
				Determined						



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2512408** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 01-May-2025

 Site
 : --- Issue Date
 : 08-May-2025

Sampler : Toll SST Tomagao No. of samples received : 1
Order number : ---- No. of samples analysed : 1

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4 Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	ES2512408001	SW3 (Water Tank)	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	ES2512408001	SW3 (Water Tank)	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **×** = Holding time breach; ✓ = Within holding time.

atrix: WATER Evaluation: ★ = Holding time breach; ★ = Within holding time.								
Method	Sample Date	Ex	traction / Preparation			Analysis		
Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation	
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H) SW3 (Water Tank)	01-May-2025				06-May-2025	08-May-2025	1	
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW3 (Water Tank)	01-May-2025				06-May-2025	29-May-2025	1	
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW3 (Water Tank)	01-May-2025				02-May-2025	03-May-2025	1	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW3 (Water Tank)	01-May-2025				06-May-2025	29-May-2025	√	
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP020) SW3 (Water Tank)	01-May-2025				06-May-2025	29-May-2025	✓	

Page : 3 of 4 Work Order ES2512408

Client · ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER	Evaluation: x = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification;							
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification	
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Ammonia as N by Discrete analyser	EK055G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	2	10	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	4	46	8.70	8.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	3	46	6.52	6.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)								
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4 Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)

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CHAIN OF

ALS Laboratory: please tick →

□ADELAIDE 21 Burma Road Pooraka SA 5095
Ph: 08 8359 0890 E: adelaide@alsglobat com
DBRISBANE 32 Shand Street Stafford 0.L0 4053
Ph: 07 3243 7222 E: samples brisbane@alsglobal.com
□GLAOSTONE 46 Callemondah Drive Clinton QLD 4680
Ph: 07 7471 5600 E: gladstone@alsglobal.com

DMACKAY 78 Harbour Road Mackay QLD 4740 Ph 07 4944 0177 E. mackay@alsglobal.com

UMELBOURNE 2-4 Westall Road Springvale VIC 3171
Ph: 03 8549 9600 E: samples melbourne@alsglobal.com
UMUDGEE 27 Sydney Road Mudgee NSW 2850
Ph: 02 6372 6735 E: mudgee mail@alsglobal.com

DNEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E; samples.newcastle@alsglobal.com

DNOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

DPERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E: samples.perth@alsglobal.com USYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples.sydney@alsglobal \$

□TOWNSVILLE 14-15 Desma Court Bohie QLD 4818
Ph: 07 4796 0600 E: townsville environmental@alsolobal.com

DWOLLONGONG 99 Kenny Street Wollongong NSW 2550 Ph. 02 4225 3125 E: portkembla@alsglobal.com

CLIENT:	RCA Australia		TURNAROL	JND REQUIREMENTS : Stand	lard TAT (List due d	iate):				FO	R LABORATO	RY USE	ONLY (Circle)		
OFFICE:	92 Hill Street, Carrington		(Standard TAT Trace Organics	may be longer for some tests e.g Ultra						Cus	tody Seal Intact?		Yes	No	MA
RCA Ref No:	12513e		ALS QUOTI					COC SEQU	ENCE NUMBER (Ci		e ice / frozen ice eipt?	bricks prese	nt upon Yes	No	NA
							coc:	1		Ran	idom Sample Te	mperature o	n Receipt: 101 T	°C	
PROJECT MANAG	GER: Fiona Brooker		PH: 0408 687				OF:	1		Oth	er comment:		14.5		
SAMPLER: Toll S	ST Tomagao	SAMPLER	MOBILE: -		ISHED BY: Sa	mes		EIVED BY:		RELINQU	JISHED BY:	h	RECEIVED BY	:	
COC emailed to A			MAT (or default	Cuni	ningham		Be				110-	0	V. Jas	15	
Email Reports to:	administrator@rca.com.au + enviro@rca	a.com.augaston	jeane, fo	raetatollaroup. com DATE/TIM	E:		DATE	CTILATE.	1175	DATE/TII	ME:		DATE/TIME:	1930	
Email Invoice to:	as above	3		1.5.7	25 ga	\sim	11.) (1:25		170	00		1150	
COMMENTS/SPE	CIAL HANDLING/STORAGE OR DISPO	SAL:													
ALS USE	SAMPLE MATRIX: SOLID			CONTAINER INFORMATION					SUITES (NB. Suite Co Total (unfiltered bottle required).				Additional In	nformation	
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease				Comments on likely cont dilutions, or samples req analysis etc.		
	SW1		W	Purple Glass, Purple Plastic, Green Plastic	3	×	×	Y	X						
	SW2		VV	Purple Glass, Purple Plastic, Green Plastic	3	X									
				,,,		^	^	^	^						
	SW3 (Water Tank)		W	as above	3	×	×	X	×						
									,						
				*		A CONTRACT OF		FOR	IGIN: TLE				ental Division		
						L	AB C	LOI	TIE		Syc	dney	der Reference		
							NEA	VCAS	1			FS	512408		
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											+				
							www.promotorous plan		page 4.45		Tele	phone: +	61-2-8784 8555		-

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic
V = VOA Vial HCl Preserved Plastic; HS = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved Vial SG = Sulfuric Preserved Plastic; HS = HCl preserved Plastic; HS = HCl preserved Plastic; F = Formaldehyde Preserved Glass;
Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2512408

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

E-mail : fionab@rca.com.au E-mail : danae.hambly@alsglobal.com

Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555
Facsimile : +61 02 4902 9299 Facsimile : +61-2-8784 8500

Project : 12513e Page : 1 of 3

CARRINGTON NSW, AUSTRALIA 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomagao

Dates

Date

Delivery Details

Mode of Delivery: UndefinedSecurity Seal: Not AvailableNo. of coolers/boxes: ---Temperature: 19.5°CReceipt Detail: No. of samples received / analysed: 1 / 1

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Issue Date : 01-May-2025

Page

2 of 3 ES2512408 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will nmonia as N By Discrete Analyser Suspended Solids - Standard Level itrate as N by Discrete Analyser default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) VATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Sampling date / Sample ID Laboratory sample time ES2512408-001 01-May-2025 00:00 SW3 (Water Tank)

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Issue Date : 01-May-2025

Page

3 of 3 ES2512408 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Requested Deliverables

Λ	DAIL.	пст	$D \Lambda T$	ΓOR
Aυ	IVIII	II O I	KA	UK

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au

Email

administrator@rca.com.au

ALL INVOICES

- A4 - AU Tax Invoice (INV)

ENVIRO

 *AU Certificate of Analysis - NATA (COA) *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) A4 - AU Sample Receipt Notification - Environmental HT (SRN) A4 - AU Tax Invoice (INV) Chain of Custody (CoC) (COC) EDI Format - ENMRG (ENMRG) EDI Format - ESDAT (ESDAT) 	Email Email Email Email Email Email Email	enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au enviro@rca.com.au
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FIONA BROOKER

- *AU Certificate of Analysis - NATA (COA)	Email	fionab@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fionab@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
- Chain of Custody (CoC) (COC)	Email	fionab@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au

Gastonieane Forget

Gastonjeane Forget		
- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com



CERTIFICATE OF ANALYSIS

Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e

Order number : ---C-O-C number : ----

Sampler : Toll SST Tomagao

Site : ---

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 12-May-2025 13:29

Date Analysis Commenced : 13-May-2025

Issue Date : 19-May-2025 10:50





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

Page : 2 of 2 Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

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.

Analytical Results

Sub-Matrix: WATER			Sample ID	SW1	SW2	 	
(Matrix: WATER)		Compli	na data / tima	12-May-2025 11:00	12-May-2025 11:00		
		Sampii	ng date / time	12-May-2025 11.00	12-May-2025 11.00	 	
Compound	CAS Number	LOR	Unit	ES2513634-001	ES2513634-002	 	
				Result	Result	 	
EA025: Total Suspended Solids dried	at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	103	650	 	
EK055G: Ammonia as N by Discrete A	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	8.73	70.9	 	
EK057G: Nitrite as N by Discrete Ana	lyser						
Nitrite as N	14797-65-0	0.01	mg/L	3.81	4.50	 	
EK058G: Nitrate as N by Discrete Ana	alyser						
Nitrate as N	14797-55-8	0.01	mg/L	63.0	194	 	
EK059G: Nitrite plus Nitrate as N (NO	x) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	66.8	198	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	28	<5	 	





QUALITY CONTROL REPORT

: 1 of 3

: +61-2-8784 8555

: 12-May-2025

: 13-May-2025

Work Order : ES2513634 Page

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

CARRINGTON NSW, AUSTRALIA 2294
Telephone : +61 02 4902 9200 Telephone

Project: 12513eDate Samples ReceivedOrder number: ----Date Analysis Commenced

C-O-C number : ---- Issue Date : 19-May-2025

Sampler : Toll SST Tomagao Site : ____

Quote number : NSW Custom BQ 2024

No. of samples received : 2

No. of samples analysed : 2

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

Page : 2 of 3 Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

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 D	Ouplicate (DUP) Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA025: Total Suspen	ded Solids dried at 104 ± 2°0	C (QC Lot: 6580191)							
EN2507764-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	38	40	2.6	No Limit
ES2513697-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit
ES2513799-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit
ES2513864-005	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	140	142	1.8	0% - 20%
EK055G: Ammonia as	s N by Discrete Analyser (Q	C Lot: 6577530)							
ES2513662-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.44	0.45	0.0	0% - 20%
EN2507793-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.04	0.03	0.0	No Limit
EK057G: Nitrite as N	by Discrete Analyser (QC I	_ot: 6570359)							
ES2513634-001	SW1	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	3.81	3.81	0.0	0% - 20%
EK059G: Nitrite plus	Nitrate as N (NOx) by Discr	rete Analyser (QC Lot: 6577531)							
ES2513695-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.49	0.49	0.0	0% - 20%
EN2507793-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.46	0.46	0.0	0% - 20%

Page : 3 of 3 Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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)	Laboratory Control Spike (LCS) Report			
			Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6580191)							
EA025H: Suspended Solids (SS)	5	mg/L	<5	150 mg/L	125	83.0	129
			<5	1000 mg/L	102	82.0	110
			<5	842 mg/L	104	83.0	118
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6577530)							
EK055G: Ammonia as N 7664-41-7	0.01	mg/L	<0.01	1 mg/L	99.1	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6570359)							
EK057G: Nitrite as N 14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	108	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6	577531)						
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	104	91.0	113
EP020: Oil and Grease (O&G) (QCLot: 6577119)							
EP020: Oil & Grease	5	mg/L	<5	5000 mg/L	101	81.0	121

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	ub-Matrix: WATER				Matrix Spike (MS) Report				
				Spike	SpikeRecovery(%)	Acceptable L	Limits (%)		
Laboratory sample ID	Sample ID	Method: Compound CA	AS Number	Concentration	MS	Low	High		
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6577530)								
EN2507793-001	Anonymous	EK055G: Ammonia as N 76	664-41-7	1 mg/L	110	70.0	130		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6570359)								
ES2513634-001	SW1	EK057G: Nitrite as N 14	4797-65-0	0.5 mg/L	# Not	70.0	130		
					Determined				
EK059G: Nitrite plu	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 657	7531)							
EN2507793-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.5 mg/L	124	70.0	130		



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2513634** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 12-May-2025

 Site
 : --- Issue Date
 : 19-May-2025

Sampler : Toll SST Tomagao No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

Quality Control Sample Frequency Outliers exist - please see following pages for full details.

Page : 2 of 4 Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Project · 125136

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK057G: Nitrite as N by Discrete Analyser	ES2513634001	SW1	Nitrite as N	14797-65-0	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Frequency of Quality Control Samples

Matrix: WATER

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Control Samples (LCS)						
Oil and Grease	EP020	3	40	7.50	8.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER Evaluation: ▼ = Holding time breach; ✓ = Within holding time.

IVIALIX. WATER					Lvaluation	i. • - Holding time	breach, • - with	ir noluling time
Method		Sample Date	E	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°	c							
Clear Plastic Bottle - Natural (EA025H)								
SW1,	SW2	12-May-2025				16-May-2025	19-May-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
SW1,	SW2	12-May-2025				15-May-2025	09-Jun-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G)								
SW1,	SW2	12-May-2025				13-May-2025	14-May-2025	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Disc	rete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)								
SW1,	SW2	12-May-2025				15-May-2025	09-Jun-2025	✓
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bisulfate (E	P020)							
SW1,	SW2	12-May-2025				15-May-2025	09-Jun-2025	✓

Page : 3 of 4 Work Order ES2513634

Client · ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER		Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.						
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification	
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Ammonia as N by Discrete analyser	EK055G	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	7	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	4	39	10.26	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	3	40	7.50	8.00	3€	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	5	39	12.82	12.50	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	3	40	7.50	6.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	2	39	5.13	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)								
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4 Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)





CHAIN OF CUSTODY

> ALS Laboratory: please tick →

DADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E: adelaide@alsqlobal.com CIRRISBANE 32 Shand Street Stafford OLD 4053 Ph 07 3243 7222 E samples brisbane@alsglobal.com □GLADSTONE 46 Callemondah Drive Clinton QLD 4680

Ph: 07 7471 5600 E: gladstone@alsglobal.com

DMACKAY 78 Harbour Road Mackay QLD 4740 Ph. 07 4944 0177 E. mackay@alsglobal.com

DMELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples melbourne@alsglobal.com DMUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee mail@alsglobal.com

UNEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304

DNOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

2

□PERTH 10 Hod Way Malaga WA 6090
Ph 08 9209 7655 E. samples perth@alsglobal.com

DSYDNEY 277-289 Woodpark Road Smithfield NSW 2164
Ph 02 8784 8555 E samples sydney@alsglobal.com

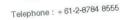
☐TOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E. townsville.environmental@alsglobal.com

□WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsglobal.com

EOR LABORATORY USE ONLY (Circle)

CLIENT:	RCA Australia			JND REQUIREMENTS : may be longer for some tests e.g Ultra	☐ Standa	ard TAT (List due d	ate):					FOR LABORATO		
OFFICE:	92 Hill Street, Carrington		Trace Organics	Trace Organics)						ENCE NUMBER 10	irala)	Free ice / frozen ice	bricks prese	nt upon Yes No N/A
RCA Ref No:	12513e		ALS QUOTE	Apprecia					coc: 1 Coc: 1 Of: 1 Other comment:				Pagaint - *C	
												Other comment:	imperature o	20.6
PROJECT MANA	GER: Fiona Brooker		PH: 0408 687 5					OF:	EIVED BY:		DEL	INQUISHED BY:		RECEIVED BY:
SAMPLER: Toll S	SST Tomagao	SAMPLER	MOBILE: OL	117 422 551	RELINQUI	SHED BY: ちa	mes		155 C					
COC emailed to	ALS? (NO)	EDD FORI	MAT (or default):	Con	ningham			E/TIME: 1		2	E/TIME: (2/0)	125	DATE/TIME: (2-15
Email Reports to	: administrator@rca.com.au + enviro	o@rca.com.augaston	jeane. fo	orget@tollgroup.com	DATE/TIME	E: 0			2-05.		DAI	17:00		19:30
Email Invoice to:	as above): orget@tollgroup.com	12.5	. 25	om	12	1.00.	2)		11.00		11.30
	ECIAL HANDLING/STORAGE OR D													
ALS USE		PLE DETAILS OLID (S) WATER (W)		CONTAINER IN	FORMATION		ANALYS Where Me	SIS REQUIR tals are req	RED including uired, specify	g SUITES (NB. Suite Total (unfiltered bottl required).	Codes must e required) d	be listed to attract suit or Dissolved (field filte	e price) red bottle	Additional Information
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)		Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease		8		Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
(SW1	12.5 11am	W	Purple Glass, Purple Plastic, Gre	en Plastic	3	х	х	х	x				
2	SW2	12.5 11cm	w	Purple Glass, Purple Plastic, Gre	en Plastic	3	х	х	х	x				
								Ĭ.	L	B OF OF	RIGIN	5.		
								F	E	MAJ		2	Envir Sydn	onmental Division ey ork Order Reference S2513634
		A												

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Pr





SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2513634

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

E-mail : fionab@rca.com.au E-mail : danae.hambly@alsglobal.com

Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555
Facsimile : +61 02 4902 9299 Facsimile : +61-2-8784 8500

Project : 12513e Page : 1 of 3

CARRINGTON NSW, AUSTRALIA 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomagao

Dates

Date

Delivery Details

Mode of Delivery : Undefined Security Seal : Not Available

No. of coolers/boxes: 1Temperature: 20.6Receipt Detail:No. of samples received / analysed: 2 / 2

General Comments

This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

: 12-May-2025 Issue Date

Page

2 of 3 ES2513634 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will mmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time ES2513634-001 12-May-2025 11:00 ES2513634-002 12-May-2025 11:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Issue Date : 12-May-2025

Page

3 of 3 ES2513634 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Requested Deliverables

		TOR

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au

Email

administrator@rca.com.au

ALL INVOICES

- A4 - AU Tax Invoice (INV)

ENVIRO

- *AU Certificate of Analysis - NATA (COA)	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au

FIONA BROOKER

- *AU Certificate of Analysis - NATA (COA)	Email	fionab@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fionab@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
- Chain of Custody (CoC) (COC)	Email	fionab@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au

Gastonjeane Forget

ouotonjouno i orgot		
- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com



C-O-C number

CERTIFICATE OF ANALYSIS

Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

Sampler : Toll SST Tomago

Site · ----

Quote number : EN/222

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact :

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 15-May-2025 13:10

Date Analysis Commenced : 17-May-2025

Issue Date : 28-May-2025 16:11





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

Page : 2 of 3 Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)	Sample ID		SW1	SW2	 		
		Sampli	ng date / time	15-May-2025 10:00	15-May-2025 10:00	 	
Compound	CAS Number	LOR	Unit	EN2508054-001	EN2508054-002	 	
				Result	Result	 	
EA025: Total Suspended Solids drie	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	4650	1570	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	35.3	6.39	 	
EK057G: Nitrite as N by Discrete An	alyser						
Nitrite as N	14797-65-0	0.01	mg/L	22.4	0.84	 	
EK058G: Nitrate as N by Discrete Ar	nalyser						
Nitrate as N	14797-55-8	0.01	mg/L	182	27.5	 	
EK059G: Nitrite plus Nitrate as N (No	Ox) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	204	28.3	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	29	29	 	



Page : 3 of 3 Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513

Inter-Laboratory Testing

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

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C

(WATER) EP020: Oil and Grease (O&G)





QUALITY CONTROL REPORT

Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

C-O-C number : ----

Sampler : Toll SST Tomago

Site : ---Quote number : EN/222

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500
Date Samples Received : 15-May-2025
Date Analysis Commenced : 17-May-2025

Issue Date : 28-May-2025



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

Page : 2 of 3 Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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	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 (%)					
EA025: Total Suspen	ided Solids dried at 104 ± 2°	°C (QC Lot: 6587400)												
EN2508054-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	4650	5280	12.5	0% - 20%					
ES2514155-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	30400	36700	18.9	0% - 20%					
EW2502493-004	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	1020	966	5.2	0% - 20%					
EW2502575-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	9	5	59.6	No Limit					
EK055G: Ammonia a	s N by Discrete Analyser (QC Lot: 6586489)												
EN2508054-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01 (1.00)*	mg/L	35.3	33.7	4.5	0% - 20%					
ES2514150-042	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01 (0.10)*	mg/L	0.23	0.25	8.6	No Limit					
EK057G: Nitrite as N	by Discrete Analyser (QC	Lot: 6582591)												
ES2514379-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.46	0.46	0.0	0% - 20%					
EN2508066-001	Anonymous	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 Disc	rete Analyser (QC Lot: 6586490)												
EN2508054-001	SW1	EK059G: Nitrite + Nitrate as N		0.01 (1.00)*	mg/L	204	200	2.0	0% - 20%					
ES2514150-042	Anonymous	EK059G: Nitrite + Nitrate as N		0.01 (0.10)*	mg/L	<0.10	<0.10	0.0	No Limit					

Page : 3 of 3 Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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)		Laboratory Control Spike (LCS) Report									
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)				
Method: Compound	AS Number	LOR	Unit	Result	Concentration	LCS	Low	High				
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 658	37400)											
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	96.7	83.0	129				
				<5	1000 mg/L	95.3	82.0	110				
				<5	842 mg/L	107	83.0	118				
EK055G: Ammonia as N by Discrete Analyser (QCLot: 658648	EK055G: Ammonia as N by Discrete Analyser (QCLot: 6586489)											
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	102	90.0	114				
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6582591)												
EK057G: Nitrite as N	4797-65-0	0.01	mg/L	<0.01	0.5 mg/L	114	82.0	114				
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser	(QCLot: 6	586490)										
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	102	91.0	113				
EP020: Oil and Grease (O&G) (QCLot: 6588617)												
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	93.0	81.0	121				
				<5	4000 mg/L	89.0	70.0	110				

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			Matrix Spike (MS) Report				
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound CA	AS Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6586489)						
EN2508054-001	SW1	EK055G: Ammonia as N 766	64-41-7	1 mg/L	# Not	70.0	130
					Determined		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6582591)						
EN2508066-001	Anonymous	EK057G: Nitrite as N	797-65-0	0.5 mg/L	114	70.0	130
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 658	6490)					
EN2508054-001	SW1	EK059G: Nitrite + Nitrate as N	-	0.5 mg/L	# Not	70.0	130
					Determined		



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EN2508054** Page : 1 of 5

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61 2 4014 2500

 Project
 : 12513e
 Date Samples Received
 : 15-May-2025

 Site
 :-- Issue Date
 : 28-May-2025

Sampler : Toll SST Tomago No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 5 Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	EN2508054001	SW1	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	r EN2508054001	SW1	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Analysis Holding Time Compliance

Matrix: WATER

Method	E	xtraction / Preparation		Analysis		
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
SW1, SW2				19-May-2025	17-May-2025	2

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **×** = Holding time breach ; ✓ = Within holding time.

Method	Sample Date	E)	traction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H) SW1,	SW2	15-May-2025				20-May-2025	22-May-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	15-May-2025				20-May-2025	12-Jun-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	15-May-2025				19-May-2025	17-May-2025	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	nalyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	15-May-2025				20-May-2025	12-Jun-2025	√

Page : 3 of 5
Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Ν	Matrix: WATER Evaluation: ▼ = Holding time breach; ✓ = Within holding ti									
	Method	Sample Date	Extraction / Preparation			Analysis				
	Container / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation		
	EP020: Oil and Grease (O&G)									
1	Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP020)									
L	SW1,	SW2	15-May-2025				20-May-2025	12-Jun-2025	✓	

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Client ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER		Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.							
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification		
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation			
Laboratory Duplicates (DUP)									
Ammonia as N by Discrete analyser	EK055G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	4	38	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Laboratory Control Samples (LCS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	4	45	8.89	8.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	5	38	13.16	12.50	✓	NEPM 2013 B3 & ALS QC Standard		
Method Blanks (MB)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	3	45	6.67	6.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	2	38	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Matrix Spikes (MS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		

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Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)

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CLIENT:

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RCA Australia

ALS Laboratory: please lick →

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Ph; 08 8359 0590 E; adelaid@alsglobal.com
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OGLADSTONE 46 Callemendali Drive Clinton OLD 4660
Ph; 07 7471 5000 E; gladslone@alsglobal.com

TURNAROUND REQUIREMENTS:

DMACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E. mackay@alsgiobal.com

CIMELBOURNE 2-4 Westall Road Springvale VIC 3171 Pt: 03 8549 9600 E: samples melbourne@alsglobal.com DMUDGEE 27 Sydney Road Mudgee NSW 2850 Pt: 02 6372 6735 E: mudgee.mail@alsglobal.com

☐ Standard TAT (List due date):

©NEWCASTLE 5/585 Mailland Rd Mayfield Wesl NSW 2304 Ph: 02 4014 2500 E, samples newcastle@alsglobal.com

UNOWRA 4/13 Geary Place North Novra NSW 2541 Prt 024423 2053 E: novra@aisglobal.com PERTH 10 Hod Way Malaga: WA 6090 Prt. 08 9209 7655 E: samples.perth@aisglobal.com ©SYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Pht 02 8784 6555 E: samples.sydney@alsglobal.com

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DWOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph 02 4225 3125 E* portkembia@alsglobal.com

FOR LABORATORY USE ONLY (Circle)

OFFICE:	92 Hill Street, Carrington		(Slandard TAT may be longer for some lests e.g., Ultra Trace Organics)							The second secon	Custody Seal Intact? Yes No			
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COC emailed to Al	LS? (NO)	EDD FORM	AT (or default	Conn	nghom		BA				9			
Email Reports to:	administrator@rca.com.au + enviro@	orca.com.augastoni	cone.for	417 922 551 RELINQUI Set@ tollgroup.com DATE/TIM	15.5.7	25	DATE/T	IME:	1:10	DATE/TIME:		DATE/TIME:		
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ALS USE	SAMPL	LE DETAILS LID (S) WATER (W)	(Entire	CONTAINER INFORMATION						des must be listed to attra equired) or Dissolved (fie		Additional Information		
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.		
	SW1	15.5 10am	w	Purple Glass, Purple Plastic, Green Plastic	3	x	х	х	x					
	SW2	15.5 10am		Purple Glass, Purple Plastic, Green Plastic	3	x	х	х	х					
											-			
								2			onmental C	Division		
				2.				<u> </u>		Envir New	castle ork Order Ref N250	8054		
												Till I Committee		
				[10]7/1	6	2	2	2	2	1	elephone: +61	2 4014 2500		
V = VCA Vial HCI Pre	des: P = Unpreserved Plastic; N = Nitric I iserved; VB = VOA Vial Sodium Bisulphate derved Bottle; E = EDTA Preserved Bottles;	Preserved; VS = VOA Vial Su	furic Preserved:	C: SH = Sodium Hydroxide/Cd Preserved; S = Sodium N AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Sulphate Soils; B = Unpreserved Bag.	Hydroxide Preserved F ed Amber Glass; H =	Plastic; AG = Am HCI preserved	ber Glass Unp Plastic; HS =	preserved; A HCl preserv	AP - Airfreight Unpreserved Speciation bottle; S	ved Plastic		hyde Preserved Glass;		



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : EN2508054

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact

CARRINGTON NSW, AUSTRALIA 2294

Address : PO BOX 175 Address : 5/585 Maitland Road Mayfield West

NSW Australia 2304

E-mail : fionab@rca.com.au E-mail :

Telephone : +61 02 4902 9200 Telephone : +61 2 4014 2500 Facsimile : +61 02 4902 9299 Facsimile : +61 2 4967 7382

Project : 12513e Page : 1 of 3

 Order number
 : --- Quote number
 : EP2024ROBCAR0001 (EN/222)

 C-O-C number
 : --- QC Level
 : NEPM 2013 B3 & ALS QC Standard

Sampler : Toll SST Tomago

Dates

Date

Delivery Details

Mode of Delivery : Client Drop Off Security Seal : Not Available

 No. of coolers/boxes
 : --- Temperature
 : 20.0

 Receipt Detail
 : No. of samples received / analysed
 : 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample Disposal Aqueous Chemistry (3 weeks), Aqueous Microbiological (1 week), Solid (2 months ± 1 week) from receipt of samples.

: 16-May-2025 Issue Date

Page

: 2 of 3 : EN2508054 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will mmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) VATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time EN2508054-001 15-May-2025 10:00 SW1 EN2508054-002 15-May-2025 10:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ADMINISTRATOR

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - XTab (XTAB)	Email	administrator@rca.com.au
ENVIRO		
- *AU Certificate of Analysis - NATA (COA)	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - XTab (XTAB)	Email	enviro@rca.com.au
Gastonjeane Forget		
 *AU Certificate of Analysis - NATA (COA) 	Email	Gastonjeane.Forget@tollgroup.com
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - XTab (XTAB)	Email	Gastonjeane.Forget@tollgroup.com

Issue Date : 16-May-2025

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3 of 3 EN2508054 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Inter-Laboratory Testing

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

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EA025: Total Suspended Solids dried at 104 \pm 2°C

(WATER) EP020: Oil and Grease (O&G)



CERTIFICATE OF ANALYSIS

Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

 Project
 : 12513e

 Order number
 : ---

 C-O-C number
 : ---

 Sampler
 : Client

Site : ---Quote number : EN/222

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Customer Services ES

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 22-May-2025 11:52

Date Analysis Commenced : 23-May-2025

Issue Date : 28-May-2025 14:45





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

Dian Dao Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SW1	SW2	 	
(Watth, WATER)	Sampling date / time		22-May-2025 10:00	22-May-2025 10:00	 		
Compound	CAS Number	LOR	Unit	ES2515007-001	ES2515007-002	 	
				Result	Result	 	
EA025: Total Suspended Solids dried a	at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	78	732	 	
EK055G: Ammonia as N by Discrete A	nalyser						
Ammonia as N	7664-41-7	0.01	mg/L	44.5	29.2	 	
EK057G: Nitrite as N by Discrete Analy	yser						
Nitrite as N	14797-65-0	0.01	mg/L	2.93	1.14	 	
EK058G: Nitrate as N by Discrete Anal	yser						
Nitrate as N	14797-55-8	0.01	mg/L	68.5	41.2	 	
EK059G: Nitrite plus Nitrate as N (NO)) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	71.4	42.3	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	8	12	 	





QUALITY CONTROL REPORT

: 1 of 3

: +61-2-8784 8555

Accreditation No. 825

Accredited for compliance with

Work Order : ES2515007 Page

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Customer Services ES

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

CARRINGTON NSW, AUSTRALIA 2294
Telephone : +61 02 4902 9200 Telephone

Project: 12513eDate Samples Received: 22-May-2025Order number: ---Date Analysis Commenced: 23-May-2025

C-O-C number : ---- Issue Date : 28-May-2025

Sampler : Client
Site : ----

No. of samples analysed : 2

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

This Quality Control Report contains the following information:

: EN/222

: 2

- 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

Quote number

No. of samples received

not be reproduced, except in full.

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

Dian Dao Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

(ALS)

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

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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		LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA025: Total Suspen	ded Solids dried at 104 ± 2°	C (QC Lot: 6600903)							
EN2508444-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	47	46	2.1	No Limit
ES2515050-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	22	26	14.6	No Limit
ES2515186-004	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	775	711	8.6	0% - 20%
ES2515191-004	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	150	150	0.0	0% - 20%
EK055G: Ammonia a	s N by Discrete Analyser (Q	C Lot: 6601078)							
ES2514818-002	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01 (0.10)*	mg/L	198	194	2.3	0% - 20%
ES2514984-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.90	0.91	1.2	0% - 20%
EK057G: Nitrite as N	by Discrete Analyser (QC I	_ot: 6597116)							
ES2514984-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.06	0.06	0.0	No Limit
ES2514873-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.16	0.16	0.0	0% - 50%
EK059G: Nitrite plus	Nitrate as N (NOx) by Disci	rete Analyser (QC Lot: 6601079)							
ES2514844-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.27	0.31	15.1	0% - 20%
ES2514980-006	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.40	0.40	0.0	0% - 20%

Page : 3 of 3 Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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)		Laboratory Control Spike (LCS) Report					
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot	: 6600903)							
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	96.0	83.0	129
				<5	1000 mg/L	102	82.0	110
				<5	842 mg/L	113	83.0	118
EK055G: Ammonia as N by Discrete Analyser (QCLot: 660	1078)							
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	107	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 65971	16)							
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	109	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analy	ser (QCLot: 60	601079)						
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	103	91.0	113
EP020: Oil and Grease (O&G) (QCLot: 6605145)								
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	99.5	81.0	121
				<5	4000 mg/L	82.8	70.0	110

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		Matrix Spike (MS) Report								
				Spike	SpikeRecovery(%)	Acceptable l	Limits (%)			
Laboratory sample ID	Sample ID	Concentration	MS	Low	High					
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6601078)									
ES2514818-002	Anonymous	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not	70.0	130			
					Determined					
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6597116)									
ES2514873-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	116	70.0	130			
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6601079)										
ES2514844-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.5 mg/L	118	70.0	130			



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2515007** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 22-May-2025

 Site
 : --- Issue Date
 : 28-May-2025

Sampler : Client No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	ES2514818002	Anonymous	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not quarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **×** = Holding time breach ; ✓ = Within holding time.

IVICUIA: WATER					Lvaldation	. Holding time	breach, • - with	iii noiding time
Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H)								
SW1,	SW2	22-May-2025				26-May-2025	29-May-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
SW1,	SW2	22-May-2025				28-May-2025	19-Jun-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G)								
SW1,	SW2	22-May-2025				23-May-2025	24-May-2025	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discre	te Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)								
SW1,	SW2	22-May-2025				28-May-2025	19-Jun-2025	✓
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP	020)							
SW1,	SW2	22-May-2025				27-May-2025	19-Jun-2025	✓

Page : 3 of 4 Work Order ES2515007

ROBERT CARR & ASSOCIATES P/L Client

: 12513e **Project**



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER				Evaluation: × = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification.				
Quality Control Sample Type		Count			Rate (%)		Quality Control Specification	
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Ammonia as N by Discrete analyser	EK055G	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	10	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	4	49	8.16	8.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	3	49	6.12	6.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)			1					
Ammonia as N by Discrete analyser	EK055G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4
Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)



(ALS)	ai

RCA Australia

92 Hill Street, Carrington

CLIENT.

OFFICE:

CHAIN OF CUSTODY

ALS Laboratory: please tick →

DADELAIDE 21 Burma Road Pooraka SA 5095 Ph; 08 8359 0890 E: adelaide@alsolobal.com DBRISBANE 32 Shand Street Stafford QLD 4053 Ph. 07 3243 7222 E. samples.brisbane@alsglobal.com DGLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

TURNAROUND REQUIREMENTS:

(Standard TAT may be longer for some tests e.g., Ultra

UMACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

©MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph. 03 8549 9600 E. samples melbourne@alsglobal.com DMUDGEE 27 Sydney Road Mudgee NSW 2850
Ph 02 6372 6735 E: mudgee mail@alsglobal.com

☐ Standard TAT (List due date):

UNEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples newcastle@alsglobal.com

DNOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsglobal.com

CIPERTH 10 Hod Way Malaga WA 6090 Ph: 08 9209 7655 E; samples perth@alsglobal.com

USYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph. 02 8784 8555 E samples.sydney@alsglobal.com

QTOWNSVILLE 14-15 Desma Court Bohle QLD 4818
Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

DWOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph; 02 4225 3125 E; portkembla@alsglobal.com

FOR LABORATORY USE ONLY (Circle)

OFFICE:	92 Hill Street, Carrington		standard TAT race Organics	may be longer for some tests e.g Ultra					Custody Seal Intact? Yes No N					
RCA Ref No:	12513e		ALS QUOTE					COC SEQUI	ENCE NUMBER (e) Free ice / frozen ice bricks present upon Yes No N//			
							coc:	1		F	Random Sample Temperatu	re on Receipt: 20-0 °C		
PROJECT MANAGI	ER: Fiona Brooker	CONTACT PH:					OF:	1			Other comment:	20-0		
SAMPLER: Client		SAMPLER MOE		417 922 551 RELINQUIS	SHED BY: Jar	nes		EIVED BY:			QUISHED BY:	RECEIVED BY:		
COC emailed to AL	-S? (NO)	EDD FORMAT ((or default)	Cunninget@tollgroup.comDATE/TIME	ingham		B				W22/5/25	DATE/TIME: 1922		
Email Reports to: a	administrator@rca.com.au + enviro	@rca.com.au qastonjea	ne.for	rget@ toilgroup.com DATE/TIME			DATE	TIME:	11:52	DATE/	TIME:	DATE/TIME: 1930		
Email Invoice to: a	as above	7		14.5.	25 10	am	V	45	11,00		. 0			
COMMENTS/SPEC	IAL HANDLING/STORAGE OR D	ISPOSAL:												
ALS USE		PLE DETAILS OLID (S) WATER (W)		CONTAINER INFORMATION							listed to attract suite price) issolved (field filtered bottl	e Additional Information		
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.		
. 1	SW1	22.5 10am	W	Purple Glass, Purple Plastic, Green Plastic	3	х	х	х	х					
7	SW2	22.5 10am	w	Purple Glass, Purple Plastic, Green Plastic	3	x	х	x	x					
		2000 100111												
										Enviro Sydne Wor	onmental Divis by k Order Reference \$251500	e		
										Е	S251500)/		
						- W 192								
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					,	AB OF	CASI	1-1-		Telepho	ne: +61-2-8784 8555			
					ejih			ž.		r r	1 1			
				TOTAL	6	2	2	2	2					
IV = VOA VIAI HCI Presi	erved: VB = VOA Vial Sodium Bisulpha	te Preserved: VS = VOA Vial Sulfuri	in Presented	C; SH = Sodium Hydroxide/Cd Preserved; S = Sodium I AV = Airfreight Unpreserved Vial SG = Sulfuric Preserv d Sulphate Solis; B = Unpreserved Bag.	Hydroxide Preserved ed Amber Glass; H	Plastic; AG = A	Amber Glass ed Plastic: H	Unpreserved IS = HCI pres	AP - Airfreight Unp erved Speciation bo	preserved Plastic ottle; SP = Sulfur	ic Preserved Plastic; F = F	I ormaldehyde Preserved Glass;		



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2515007

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Customer Services ES

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

 Telephone
 : +61 02 4902 9200
 Telephone
 : +61-2-8784 8555

 Facsimile
 : +61 02 4902 9299
 Facsimile
 : +61-2-8784 8500

Project : 12513e Page : 1 of 3

CARRINGTON NSW, AUSTRALIA 2294

 Order number
 : --- Quote number
 : EP2024ROBCAR0001 (EN/222)

 C-O-C number
 : --- QC Level
 : NEPM 2013 B3 & ALS QC Standard

Site : ----Sampler : Client

Dates

Date

Delivery Details

Mode of Delivery : Undefined Security Seal : Not Available
No. of coolers/boxes : 1 Temperature : 20.0'C

Receipt Detail : HARD ESKY No. of samples received / analysed : 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

: 22-May-2025 Issue Date

Page

2 of 3 ES2515007 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will mmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time ES2515007-001 22-May-2025 10:00 ES2515007-002 22-May-2025 10:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

: 22-May-2025 Issue Date

Page

3 of 3 ES2515007 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Requested Deliverables

ΑC				

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au

Email

Email

Email

Email

Email

Email

Email

Email

Email

administrator@rca.com.au

enviro@rca.com.au

enviro@rca.com.au

enviro@rca.com.au enviro@rca.com.au

enviro@rca.com.au

enviro@rca.com.au

enviro@rca.com.au

enviro@rca.com.au

ALL INVOICES

- A4 - AU Tax Invoice (INV)

ENVIRO

- *AU Certificate of Analysis - NATA (COA)
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)
- A4 - AU Tax Invoice (INV)
- Chain of Custody (CoC) (COC)

- EDI Format - ENMRG (ENMRG)

- EDI Format - ESDAT (ESDAT)

FIONA BROOKER

- *AU Certificate of Analysis - NATA (COA)	Email	fionab@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fionab@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
- Chain of Custody (CoC) (COC)	Email	fionab@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au

Gastonjeane Forget

- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com



CERTIFICATE OF ANALYSIS

Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

Project : 12513e

Order number : ---C-O-C number : ----

Sampler : Toll SST Tomago

Site : ---

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 23-May-2025 12:22

Date Analysis Commenced : 24-May-2025

Issue Date : 30-May-2025 14:46



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

Dian Dao Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

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.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SW1	SW2	 	
		Sampli	ng date / time	23-May-2025 09:00	23-May-2025 09:00	 	
Compound	CAS Number	LOR	Unit	ES2515204-001	ES2515204-002	 	
				Result	Result	 	
EA025: Total Suspended Solids drie	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	241	12	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	53.8	41.4	 	
EK057G: Nitrite as N by Discrete An	alyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.35	0.76	 	
EK058G: Nitrate as N by Discrete A	nalyser						
Nitrate as N	14797-55-8	0.01	mg/L	59.2	54.3	 	
EK059G: Nitrite plus Nitrate as N (N	Ox) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	59.6	55.1	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	7	<5	 	





QUALITY CONTROL REPORT

Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

C-O-C number · ----

Sampler : Toll SST Tomago

Site · ----

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 23-May-2025

Date Analysis Commenced : 24-May-2025

Issue Date : 30-May-2025



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

Dian Dao Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

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

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

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 (%)	
EA025: Total Suspen	ided Solids dried at 104 ± 2°	C (QC Lot: 6609303)								
ES2515152-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	16	16	0.0	No Limit	
ES2515215-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	216	227	4.9	0% - 20%	
ES2515220-006	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	31	30	3.3	No Limit	
ES2515238-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	22	24	6.5	No Limit	
EK055G: Ammonia a	s N by Discrete Analyser (C	QC Lot: 6610871)								
ES2515200-003	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.31	0.31	0.0	0% - 20%	
ES2515071-003	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.06	0.06	0.0	No Limit	
EK057G: Nitrite as N	by Discrete Analyser (QC	Lot: 6599989)								
ES2515157-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01 (0.10)*	mg/L	12.1	11.6	3.5	0% - 20%	
ES2515303-004	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 Disc	rete Analyser (QC Lot: 6610872)								
ES2515071-003	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	<0.01	0.0	No Limit	
EW2502735-002	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.54	0.54	0.0	0% - 20%	

Page : 3 of 3 Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



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)	Laboratory Control Spike (LCS) Report					
			Report	Spike	Spike Recovery (%)	Acceptable Limits (%)			
Method: Compound CAS Number	er LOR	Unit	Result	Concentration	LCS Low		High		
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6609303)									
EA025H: Suspended Solids (SS)	- 5	mg/L	<5	150 mg/L	96.7	83.0	129		
			<5	1000 mg/L	96.6	82.0	110		
			<5	842 mg/L	101	83.0	118		
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6610871)									
EK055G: Ammonia as N 7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	103	90.0	114		
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6599989)									
EK057G: Nitrite as N 14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	107	82.0	114		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot:	6610872)								
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	100	91.0	113		
EP020: Oil and Grease (O&G) (QCLot: 6610357)									
EP020: Oil & Grease	- 5	mg/L	<5	5000 mg/L	88.6	81.0	121		

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					trix Spike (MS) Repor	t	
			Spike	SpikeRecovery(%)	Acceptable L	Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound Ca	AS Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6610871)						
ES2515071-003	Anonymous	EK055G: Ammonia as N	664-41-7	0.5 mg/L	118	70.0	130
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6599989)						
ES2515157-001	Anonymous	EK057G: Nitrite as N	4797-65-0	0.5 mg/L	# Not	70.0	130
					Determined		
EK059G: Nitrite plu	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 661	0872)					
ES2515071-003	Anonymous	EK059G: Nitrite + Nitrate as N		0.5 mg/L	86.9	70.0	130



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2515204** Page : 1 of 5

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 23-May-2025

 Site
 : --- Issue Date
 : 30-May-2025

Sampler : Toll SST Tomago No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers: Frequency of Quality Control Samples

Quality Control Sample Frequency Outliers exist - please see following pages for full details.

Page : 2 of 5 Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK057G: Nitrite as N by Discrete Analyser	ES2515157001	Anonymous	Nitrite as N	14797-65-0	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Analysis Holding Time Compliance

Matrix: WATER

Method		traction / Preparation		Analysis		
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
SW1, SW2				26-May-2025	25-May-2025	1

Outliers: Frequency of Quality Control Samples

Matrix: WATER

Quality Control Sample Type		Co	unt	Rate	e (%)	Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Control Samples (LCS)						
Oil and Grease	EP020	1	19	5.26	8.00	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)						
Oil and Grease	EP020	1	19	5.26	6.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: × = Holding time breach : ✓ = Wi
--

Watth, WATER					Lvaldation	Tiolding time	breach, with	ir noiding time.
Method S		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H)								
SW1,	SW2	23-May-2025				28-May-2025	30-May-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
SW1,	SW2	23-May-2025				29-May-2025	20-Jun-2025	✓

Page : 3 of 5
Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Matrix: WATER					Evaluation	: × = Holding time	breach; ✓ = Withi	n holding time.
Method		Sample Date	Extraction / Preparation			Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	23-May-2025				26-May-2025	25-May-2025	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ana	alyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	23-May-2025				29-May-2025	20-Jun-2025	✓
EP020: Oil and Grease (O&G)								
Amber Glass Bottle - Sulfuric Acid (EP020) SW1,	SW2	23-May-2025				29-May-2025	20-Jun-2025	√

Page : 4 of 5 Work Order ES2515204

Client ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER Evaluation: ▼ = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification;									
Quality Control Sample Type			Count		Rate (%)		Quality Control Specification		
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation			
Laboratory Duplicates (DUP)									
Ammonia as N by Discrete analyser	EK055G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Laboratory Control Samples (LCS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	1	19	5.26	8.00	sc	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard		
Method Blanks (MB)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	1	19	5.26	6.00	se	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Matrix Spikes (MS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		

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Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)

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(ALS)	ALS	
	(ALS)	

RCA Australia

CLIENT:

CHAIN OF CUSTODY

ALS Laboratory:

□ADELAIDE 21 Burma Road Pooraka SA 5095 Ph 08 8359 0890 E adelaide@alsglobal.com □BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E. samples brisbane@alsglobal.com DGLADSTONE 46 Callemondah Drive Clinton QLD 4680 Ph: 07 7471 5600 E. gladstone@alsglobal.com

TURNAROUND REQUIREMENTS:

DMACKAY 78 Harbour Road Mackay QLD 4740 Ph 07 4944 0177 E mackav@alsolo

DMELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com DMUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6735 E: mudgee.mail@alsglobal.com

☐ Standard TAT (List due date):

DNEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples newcastle@alsglobal.com

UNOWRA 4/13 Geary Place North Nowra NSW 2541

DPERTH 10 Hod Way Malaga WA 6090
Ph: 08 9209 7655 E. samples perth@alsglobal.com

USYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph. 02 8784 8555 E. samples sydney@alsglobal.com

DTOWNSVILLE 14-15 Desma Court Bohle QLD 4818

UWOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph. 02 4225 3125 E. portkembla@alsglobal.com

FOR LABORATORY USE ONLY (Circle)

Telephone: +61-2-8784 8555

OFFICE:	92 Hill Street, Carrington		(Standard TAT Trace Organics	may be longer for some tests e.g Ultra s)					Custody Seal Intact? Yes No N/A					
RCA Ref No:	12513e		ALS QUOTE	E NO.: EN/222/24		COC SEQU	ENCE NUMBER (Circle)	Free ice / frozen ice receipt?	bricks prese	nt upon Yes	No N/A		
	8						coc	: 1			Random Sample Te	mperature or	n Receipt:	°C
PROJECT MANAG	SER: Fiona Brooker		PH: 0408 687 5				OF:	1			Other comment:		20-	2
SAMPLER: Toll SS	ST Tomagao	SAMPLER	MOBILE: - O	417 922 551 RELINQUI	SHED BY: Ja	mes		EIVED BY:			NQUISHED BY:		RECEIVED B	Y:
COC emailed to Al	LS? (NO)	EDD FORM	AT (or default	Conn	shed by: Ja Dingham E: 23.5			LB 23	15125		W 2315	145	C-	13/5/25
Email Reports to:	administrator@rca.com.au + enviro@	Drca.com.augostoni	eane, fo	rget@tollgroup.com DATE/TIM	E: 23.5				2:22p-	DATE	E/TIME:	~	DATE/TIME:	
Email Invoice to: a	as above	3-3-3		gan	1			1	eich-		5	3	19:	40
COMMENTS/SPEC	CIAL HANDLING/STORAGE OR DIS	SPOSAL:		p 16										
ALS USE		LE DETAILS LID (S) WATER (W)		CONTAINER INFORMATION							e listed to attract suite Dissolved (field filte		Additional	Information
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease				Comments on likely co dilutions, or samples re analysis etc.	
i	SW1	23.5 9an	o w	Purple Glass, Purple Plastic, Green Plastic	3	х	х	х	х					*
2	SW2	23.5 gan		Purple Glass, Purple Plastic, Green Plastic	3	х	х	х	х					
							-016	:M:		E	Environmen Sydney	ntal Div	ision	
					_	BOF	CAST	E	4		Work Order ES25	5152	204	
					,		n A		3					

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; NC = Nitric Pre Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

2



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2515204

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555
Facsimile : +61 02 4902 9299 Facsimile : +61-2-8784 8500

Project : 12513e Page : 1 of 2

CARRINGTON NSW 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomago

Dates

Date

Delivery Details

Mode of Delivery : Undefined Security Seal : Not Available

No. of coolers/boxes: 1Temperature: 20.2Receipt Detail: No. of samples received / analysed: 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

: 23-May-2025 Issue Date

Page

: 2 of 2 : ES2515204 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ADMINISTRATOR

ADMINISTRATOR		
- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au
ALL INVOICES		
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
ENVIRO		
- *AU Certificate of Analysis - NATA (COA)	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au
Gastonjeane Forget		
- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
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