

WATER SAMPLE ANALYSIS REPORT

Report Number: 10939.01.WATR Report Date: 27 March 2019

1. CLIENT DETAILS

Client Company: Conjola Community Association Incorporated

Client Contact: Robyn Kerves

Client Address: Lot 7025, Lake Conjola Entrance Road

LAKE CONJOLA NSW 2539

2. SAMPLING DETAILS

Sample Address: Multiple Locations along Lake Conjola

LAKE CONJOLA NSW 2539

Sampling Date: 11 March 2019

Sampled By: Justin Thompson-Laing BSc (Hons), CEnvP (SC) of Getex

3. SCOPE

GETEX PTY LTD was requested by Robyn Kerves of Conjola Community Association Incorporated to attend selected locations along Lake Conjola, LAKE CONJOLA NSW 2539 to collect surface water samples from each location. The objective was to conduct a water quality test of the of the water collected from each location.

The samples were analysed for the following:

- Faecal Coliforms (FC);
- Enterococci (E);
- Total Nitrogen (TN);
- Total Phosphorus (TP);
- Chlorophyll a (CHa); and
- Dissolved Oxygen (DO).

GETEX PTY LIMITED

ABN 99 116 287 471

Suite 2.02, Level 2, Waterloo Business Park 35 Waterloo Road, Macquarie Park NSW 2113 Phone: (02) 98892488 Fax: (02) 98892499 Email: help@getex.com.au Web: www.getex.com.au



4. SAMPLING SCHEME

Justin Thompson-Laing of Getex Pty Ltd attended the Sample Address on the 11th of March 2019 to collect surface water samples from selected locations.

A summary of the sample details is shown in the table below.

Client Location Code	Description	Latitude	Longitude	Getex Sample No.
E-54	Conjola Creek Downstream From Fishermans Paradise (Between Piles WK031 and WK023)	-35.231827	150.450195	10939/W1
E-748	Patimores Lagoon accessed off Conley Avenue (Adjacent bend on track)	-35.271908	150.483414	10939/W2
E-47	Cottee Close Stormwater Drain	-35.261108	150.440613	10939/W3
E-40	Opposite Cabin 43 within Lake Conjola Deepwater Resort	-35.266869	150.489075	10939/W4
E-39	Boat Ramp at Lake Inlet	-35.269474	150.500671	10939/W5
-	Blind of 10939/W5	-	-	10939/W5a
-	Split of 10939/W5	-	-	10939/W5b

Table 4-1: Sample Description Summary

Dissolved Oxygen was tested in the field using a YSI - Pro Optical DO Digital Handheld Water Probe (See Appendix II for Calibration Certificate).

Water samples to be analysed for Faecal Coliforms and Enterococci were collected in sterile 250mL plastic bottle. Water samples to be analysed for Chlorophyll a were collected in 500mL amber glass bottle with no preservatives. Water samples to be analysed for Total Nitrogen were collected in a 120mL plastic bottle with no preservatives. Water samples to be analysed for Total Phosphorous were collected in a 125mL plastic bottle preserved with Nitric Acid.

The chain of custody process involved writing the Getex unique reference number on the sample jar/bottle/vial at the time of sampling and on the chain of custody form. The chain of custody form remained with the sample until it was delivered to the laboratory. Once delivered to the laboratory the officer at the sample receipt signed the chain of custody form taking responsibility for the sample. A copy of the chain of custody showing the time of delivery, condition of sample (cold etc) and the unique laboratory number was emailed to Getex by the laboratory. On receipt, Getex checked that the laboratory details were correct.

5. REFERENCE CRITERIA

The analysis results were assessed against the adopted criteria from the Australian and New Zealand Guidelines for Fresh and Marine Water Quality – Revised 2018.

Adopted acceptance criteria levels are given within Section 6.

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6. RESULTS

The table below presents the analysis results for the water sample collected. Refer to Appendix I for Laboratory Analysis Reports.

Sample Number	Location Code	Faecal Coliforms	Enterococci	Total Nitrogen (mg/L)	Total Phosphorous (mg/L)	Chlorophyll a (mg/m³)	Dissolved Oxygen (%)
10939/W1	E-54	<10	30 Approx	0.7	< 0.05	5	49.5
10939/W2	E-748	<10	50	3.3	0.1	20	37.1
10939/W3	E-47	<10	40 Approx	0.6	< 0.05	2	61.0
10939/W4	E-40	<10	<10	0.5	< 0.05	1	76.4
10939/W5	E-39	<10	<10	0.5	< 0.05	3	79.1
10939/W5a	Blind of 10939/W5	-	-	0.5	<0.05	-	-
10939/W5b	Split of 10939/W5	-	-	0.5	0.01	-	-
Adopted Criteria – Recreational and Aesthetics – Primary Contact		150	35		-	100 mg/m²	>80
	Adopted Criteria – Aquatic Ecosystems		-	0.3	0.03	4	80-110

Table 6-1: Sample Results

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7. LIMITATIONS

GETEX PTY LTD and its staff members are professionally qualified and trained to achieve a suitable level of competency for the tasks undertaken.

Although all work is performed to a professional and diligent standard, the potential variance between the practical limitations of the scope of work undertaken, the cost of our services, all possible issues of concern, and any loss or damages which may be associated with our work are such that we cannot warrant that all issues of concern/contaminants have been identified. We therefore limit any potential liability associated with our work to the cost of our services.

It is noted that GETEX is not an expert medical/health or building consultancy. As such, we cannot guarantee that any/all potential or actual illnesses or associated causes have been identified. Specialist advice from qualified professionals should also be sought for the treatment of any reported/potential illnesses or health effects related to contaminants.

All work conducted and/or reports/information produced by GETEX are prepared for a specific objective and within a specified scope of work as agreed between the Client and GETEX Pty Ltd. As such this document is only for the use of the Client for the intended objective and may not be suitable for any other purpose. No parties other than the client may use this document without first conferring with GETEX. Before passing onto a third party this document, the third party must be informed by the client of any relevant information relating to this document. It is the responsibility of any party using this report to check fully to their satisfaction if this report is suitable for their intended use.

All information and/or report(s) prepared by Getex should not be reproduced and/or presented/reviewed except in full.

The distribution of contaminants may vary with location and there can be no guarantee that a particular sample is typical of an extended area/system.

Kind Regards,

QA/QC check by:

Justin Thompson-Laing BSc (Hons), CEnvP (SC) Environment Manager

Anthony Camus BE (Chem) (Hons) General Manager





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APPENDIX I

LABORATORY ANALYSIS REPORT



Envirolab Services Pty Ltd

ABN 37 112 535 645 12 Ashley St Chatswood NSW 2067 ph 02 9910 6200 fax 02 9910 6201 customerservice@envirolab.com.au www.envirolab.com.au

CERTIFICATE OF ANALYSIS 213317

Client Details	
Client	Getex Pty Ltd
Attention	Justin Thompson-Laing
Address	2.02, Building 2 Waterloo Business Park, 35 Waterloo Rd, North Ryde, NSW, 2113

Sample Details	
Your Reference	<u>10939</u>
Number of Samples	6 water
Date samples received	12/03/2019
Date completed instructions received	12/03/2019

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details						
Date results requested by	19/03/2019					
Date of Issue	22/03/2019					
NATA Accreditation Number 2901. This document shall not be reproduced except in full.						
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *						

Results Approved By

Giovanni Agosti, Group Technical Manager Jacinta Hurst, Group Operations Manger Nick Sarlamis, Inorganics Supervisor **Authorised By**

Jacinta Hurst, Laboratory Manager



Miscellaneous Inorganics						
Our Reference		213317-1	213317-2	213317-3	213317-4	213317-5
Your Reference	UNITS	10939/W1	10939/W2	10939/W3	10939/W4	10939/W5
Type of sample		water	water	water	water	water
Date prepared	-	14/03/2019	14/03/2019	14/03/2019	14/03/2019	14/03/2019
Date analysed	-	14/03/2019	14/03/2019	14/03/2019	14/03/2019	14/03/2019
Chlorophyll a	mg/m³	5	20	2	1	3
Total Nitrogen in water	mg/L	0.7	3.3	0.6	0.5	0.5

Miscellaneous Inorganics		
Our Reference		213317-6
Your Reference	UNITS	10939/W5a
Type of sample		water
Date prepared	-	14/03/2019
Date analysed	-	14/03/2019
Total Nitrogen in water	mg/L	0.5

Metals in Waters - Total						
Our Reference		213317-1	213317-2	213317-3	213317-4	213317-5
Your Reference	UNITS	10939/W1	10939/W2	10939/W3	10939/W4	10939/W5
Type of sample		water	water	water	water	water
Date prepared	-	13/03/2019	13/03/2019	13/03/2019	13/03/2019	13/03/2019
Date analysed	-	13/03/2019	13/03/2019	13/03/2019	13/03/2019	13/03/2019
Phosphorus - Total	mg/L	<0.05	0.1	<0.05	<0.05	<0.05

Metals in Waters - Total		
Our Reference		213317-6
Your Reference	UNITS	10939/W5a
Type of sample		water
Date prepared	-	13/03/2019
Date analysed	-	13/03/2019
Phosphorus - Total	mg/L	<0.05

Microbiologocal Testing									
Our Reference		213317-1	213317-2	213317-3	213317-4	213317-5			
Your Reference	UNITS	10939/W1	10939/W2	10939/W3	10939/W4	10939/W5			
Type of sample		water	water	water	water	water			
Date of testing	-	13/03/2019	13/03/2019	13/03/2019	13/03/2019	13/03/2019			
Enterococci	cfu/100mL	30 Approx	50	40 Approx	<10	<10			
Faecal Coliforms	cfu/100mL	<10	<10	<10	<10	<10			

Method ID	Methodology Summary
Ext-008	Subcontracted to Sonic Food & Water Testing. NATA Accreditation No. 4034.
Inorg-055/062	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen.
INORG-119	Chlorophyll A based on APHA 10200 H latest edition.
Metals-020	Determination of various metals by ICP-AES.

Envirolab Reference: 213317

Revision No: R00

QUALITY COI	QUALITY CONTROL: Miscellaneous Inorganics								Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	213317-2
Date prepared	-			14/03/2019	1	14/03/2019	14/03/2019		14/03/2019	14/03/2019
Date analysed	-			14/03/2019	1	14/03/2019	14/03/2019		14/03/2019	14/03/2019
Chlorophyll a	mg/m³	1	INORG-119	<5	1	5	[NT]		94	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062	<0.1	1	0.7	0.7	0	112	110

QUALITY CC	NTROL: Me	Du	plicate	Spike Re	covery %					
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			13/03/2019	[NT]		[NT]	[NT]	13/03/2019	
Date analysed	-			13/03/2019	[NT]		[NT]	[NT]	13/03/2019	
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	[NT]		[NT]	[NT]	101	

QUALITY CC	NTROL: Mic	Du	plicate	Spike Re	covery %					
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Enterococci	cfu/100mL	0	Ext-008	<0	[NT]		[NT]	[NT]	[NT]	[NT]
Faecal Coliforms	cfu/100mL	1	Ext-008	<1	[NT]		[NT]	[NT]	[NT]	[NT]

Result Definiti	ons
NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control	ol Definitions
Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals; 60-140% for organics (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Report Comments

Micro was analysed by Sonic Healthcare report W1905572

Envirolab Reference: 213317
Revision No: R00
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Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details	
Client	Getex Pty Ltd
Attention	Justin Thompson-Laing

Sample Login Details		
Your reference	10939	
Envirolab Reference	213317	
Date Sample Received	12/03/2019	
Date Instructions Received	12/03/2019	
Date Results Expected to be Reported	19/03/2019	

Sample Condition	
Samples received in appropriate condition for analysi	is
No. of Samples Provided	6 water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	12.3
Cooling Method	Ice
Sampling Date Provided	Not Provided on the COC

Comments	
Nil	

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	Chlorophyll a	Total Nitrogen in water	Metals in Waters -Total	Microbiologocal Testing
10939/W1	✓	✓	✓	✓
10939/W2	✓	✓	✓	✓
10939/W3	✓	✓	✓	✓
10939/443				
10939/W4	✓	✓	✓	✓
	√	√	√	√

The ' \checkmark ' indicates the testing you have requested. THIS IS NOT A REPORT OF THE RESULTS.

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.



Chain of Custody

To: Envirolab Services Pty Ltd

Address: 12 Ashley Street

CHATSWOOD NSW 2067

Phone: (02) 9910 6200 Facsimile: (02) 9910 6299

Date: 12/03/2019

Order Number: 6719 Project Number: 10939

TAT: 5 Day

Phone: (02) 9889 2488 Facsimile: (02) 9889 2499

From: Getex Pty Ltd

Email: help@getex.com.au

35 Waterloo Road

Address: 2.02, Building 2, Macquarie Business Park

MACQUARIE PARK NSW 2113

Attention: Justin Thompson-Laing

Samples Received at Ambient Temp.

Samples Rec

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ie: 12/3/19

Notes:			-						_																						-															_
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Envirolab Barcode Number	Getex Sample Number	Plastic Tube – PT Bag – B Petri Dish – PD Plastic Bottle – PB Glass Jar – GJ Glass Bottle – GB Glass Vial - GV	Faecal Coliforms	Enterococci	Chlorophyllo	Cilide Opinyii a	OFF.		Matale				Lab Filtration	Faecal Coliforms										c					oosa	ina r	lon-	otan I	uarc	Ana	nyte	25										
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Getex Pty Ltd Suite 2.02 Building 2 Waterloo Business Park 35 Macquarie Park NSW 2113





NATA Accredited Accreditation Number 1261 Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: Justin Thompson-Laing

Report 644896-W Project name 10939

Project ID WATER ANALYSIS
Received Date Mar 12, 2019

Client Sample ID Sample Matrix Eurofins mgt Sample No. Date Sampled			10939/W5B Water S19-Ma13625 Not Provided
Test/Reference	LOR	Unit	
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05
Phosphate total (as P)	0.01	mg/L	0.01
Total Kjeldahl Nitrogen (as N)	0.2	mg/L	0.5
Total Nitrogen (as N)	0.2	mg/L	0.5



Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.

A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results (regarding both quality and NATA accreditation).

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Nitrogen Set (as N)			
Nitrate & Nitrite (as N)	Melbourne	Mar 13, 2019	28 Day
- Method: APHA 4500-NO3/NO2 Nitrate-Nitrite Nitrogen by FIA			
Total Kjeldahl Nitrogen (as N)	Melbourne	Mar 13, 2019	7 Day
- Method: LTM-INO-4040 Phosphate and Nitrogen in waters by Continuous Flow Analysis (CFA)			
Phosphate total (as P)	Melbourne	Mar 13, 2019	28 Day

⁻ Method: APHA 4500-P E. Phosphorus



ABN- 50 005 085 521 e.mail : EnviroSales@eurofins.com web : www.eurofins.com.au

Phone:

Fax:

Melbourne 6 Monterey Road Dandenong South VIC 3175 Phone: +61 3 8564 5000 NATA # 1261 Site # 1254 & 14271 Sydney Unit F3, Building F 16 Mars Road Lane Cove West NSW 2066 Phone: +61 2 9900 8400 NATA # 1261 Site # 18217 Brisbane 1/21 Smallwood Place Murarrie QLD 4172 Phone: +61 7 3902 4600 NATA # 1261 Site # 20794 Perth
2/91 Leach Highway
Kewdale WA 6105
Phone: +61 8 9251 9600
NATA # 1261
Site # 23736

Company Name: Getex Pty Ltd

Address: Suite 2.02 Building 2 Waterloo Business Park 35

Macquarie Park

NSW 2113

Project Name: 10939

Project ID: WATER ANALYSIS

 Order No.:
 6720
 Received:
 Mar 12, 2019 3:40 PM

 Report #:
 644896
 Due:
 Mar 19, 2019

644896 **Due:** Mar 19, 2019 02 9889 2488 **Priority:** 5 Day

02 9889 2499 Contact Name: Justin Thompson-Laing

Eurofins | mgt Analytical Services Manager : Asim Khan

		Sa	mple Detail			Phosphate total (as P)	Total Nitrogen Set (as N)
Melb	ourne Laborato	ory - NATA Site	# 1254 & 142	271		Х	Х
Sydr	ney Laboratory	- NATA Site # 1	8217				
Brisk	oane Laboratory	y - NATA Site #	20794				
Perth	n Laboratory - N	IATA Site # 237	36				
Exte	rnal Laboratory						
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID		
1	10939/W5B	Not Provided		Water	S19-Ma13625	Х	Х
Test	Counts					1	1

Eurofins | mgt Unit F3, Building F, 16 Mars Road, Lane Cove West, NSW, Australia, 2066 ABN: 50 005 085 521 Telephone: +61 2 9900 8400 Page 3 of 6

Date Reported:Mar 18, 2019



Internal Quality Control Review and Glossary

General

- Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure, April 2011 and are included in this QC report where applicable. Additional QC data may be available on request.
- 2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
- 3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
- 4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
- 5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds
- 6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
- 7. Samples were analysed on an 'as received' basis
- 8. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

**NOTE: pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram mg/L: milligrams per litre ug/L: micrograms per litre

ppm: Parts per million **ppb:** Parts per billion
%: Percentage

org/100mL: Organisms per 100 millilitres NTU: Nephelometric Turbidity Units MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry Where a moisture has been determined on a solid sample the result is expressed on a dry basis.

LOR Limit of Reporting

SPIKE Addition of the analyte to the sample and reported as percentage recovery RPD Relative Percent Difference between two Duplicate pieces of analysis.

LCS Laboratory Control Sample - reported as percent recovery.

CRM Certified Reference Material - reported as percent recovery.

Method Blank In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.

Surr - Surrogate The addition of a like compound to the analyte target and reported as percentage recovery

Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison.

USEPA United States Environmental Protection Agency

APHA American Public Health Association
TCLP Toxicity Characteristic Leaching Procedure

COC Chain of Custody

SRA Sample Receipt Advice

QSM US Department of Defense Quality Systems Manual Version 5.2 2018
CP Client Parent - QC was performed on samples pertaining to this report

NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.

TEQ Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 50-150%-Phenols & PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.2 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

- 1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- 2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- 3. Organochlorine Pesticide analysis where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- 4. Organochlorine Pesticide analysis where reporting Spike data, Toxaphene is not added to the Spike.
- 5. Total Recoverable Hydrocarbons where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- 6. pH and Free Chlorine analysed in the laboratory Analysis on this test must begin within 30 minutes of sampling. Therefore laboratory analysis is unlikely to be completed within holding time.

 Analysis will begin as soon as possible after sample receipt.
- 7. Recovery Data (Spikes & Surrogates) where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- 8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS
- 9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
- 10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.



Quality Control Results

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank									
Nitrate & Nitrite (as N)			mg/L	< 0.05			0.05	Pass	
Phosphate total (as P)			mg/L	< 0.01			0.01	Pass	
Total Kjeldahl Nitrogen (as N)			mg/L	< 0.2			0.2	Pass	
Total Nitrogen (as N)			mg/L	< 0.2			0.2	Pass	
LCS - % Recovery									
Nitrate & Nitrite (as N)			%	102			70-130	Pass	
Phosphate total (as P)			%	112			70-130	Pass	
Total Kjeldahl Nitrogen (as N)			%	115			70-130	Pass	
Total Nitrogen (as N)			%	115			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
				Result 1					
Nitrate & Nitrite (as N)	B19-Ma10273	NCP	%	102			70-130	Pass	
Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
				Result 1	Result 2	RPD			
Nitrate & Nitrite (as N)	M19-Ma11902	NCP	mg/L	0.30	0.29	5.0	30%	Pass	
Phosphate total (as P)	S19-Ma10513	NCP	mg/L	0.63	0.64	2.0	30%	Pass	
Total Kjeldahl Nitrogen (as N)	S19-Ma10513	NCP	mg/L	1.2	1.3	7.0	30%	Pass	
rotar rijotaarii ritti ogoti (ao rij									



Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Asim Khan Analytical Services Manager
Julie Kay Senior Analyst-Inorganic (VIC)

Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested
- * Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Melbourne

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Phone: +61 7 3902 4600
NATA # 1261 Site # 20794 Perth Z/91 Leach Highway Kewdale WA 6105 Phone: +61 8 9251 9600 NATA # 1261 Site # 23736

ABN - 50 005 085 521

e.mail: EnviroSales@eurofins.com

web: www.eurofins.com.au

Sample Receipt Advice

Getex Pty Ltd Company name:

Contact name: Justin Thompson-Laing

Project name: 10939

Project ID: WATER ANALYSIS

COC number: Not provided

Turn around time: 5 Day

Mar 12, 2019 3:40 PM Date/Time received:

Eurofins | mgt reference: 644896

Sample information

- \mathbf{V} A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- \mathbf{V} All samples have been received as described on the above COC.
- \mathbf{V} COC has been completed correctly.
- **7** Attempt to chill was evident.
- \square Appropriately preserved sample containers have been used.
- \mathbf{V} All samples were received in good condition.
- \square Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- \mathbf{V} Appropriate sample containers have been used.
- \mathbf{V} Sample containers for volatile analysis received with zero headspace.
- \boxtimes Split sample sent to requested external lab.
- \boxtimes Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Asim Khan on Phone: or by e.mail: AsimKhan@eurofins.com

Results will be delivered electronically via e.mail to Justin Thompson-Laing - Justin.Thompson-Laing@getex.com.au.

Note: A copy of these results will also be delivered to the general Getex Pty Ltd email address.



NATA Accreditation Stack Emission Sampling & Analysis Trade Waste Sampling & Analysis Groundwater Sampling & Analysis





From: Getex Pty Ltd

Address: 2.02, Building 2, Macquarie Business Park

35 Waterloo Road

MACQUARIE PARK NSW 2113

Phone: (02) 9889 2488

Facsimile: (02) 9889 2499

Email: help@getex.com.au
Attention: Justin Thompson-Laing

Samples Received at Ambient Temp.

Chain of Custody

To: Eurofins | mgt

Address: Unit F3, Building F

16 Mars Road

LANE COVE WEST NSW 2066

Phone: (02) 9900 8400

Sample Temp: 10°C

Email: EnviroSampleNSW@eurofins.com.au

Samples Received Chilled

Date: 12/03/2019

Order Number: 6720

Project Number: 10939

TAT: 5 Day

644896

Received By: GTUCKUELC

Signature: There Date: 12/3

Notes:																	ja.															
		Container															Α	Analy	tes													
								S	Single	e Ana	alyte	s									Con	nbos	and N	lon-St	tanda	rd An	alytes					
Eurofins Sample Number	Getex Sample Number	Plastic Tube – PT Bag – B Petri Dish – PD Plastic Bottle – PB Glass Jar – GJ Glass Bottle – GB Glass Vial - GV	Total Nitrogen	PAHs	MAHs	OCP	PCB	Lead	7 Metals	8+ Metals	Phenols-Speciated	VOCs																				
	10939/W5b	1xPB	1 1	90 July 2 T C										1.20																		
									FEST.					400						100	0.0			100	2 10 10							
		Total	1 1	L	100						2												F P						100	16.	T VI	



APPENDIX II

CALIBRATION CERTIFICATE

Multi Parameter Water Meter

Instrument YSI Pro Optical DO Digital

Serial No. 12A101576



Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	D.O	✓	
Alarms	Beeper	✓	
	Settings	✓	
Software	Version	✓	
Data logger	Operation	✓	
Download	Operation	✓	
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Solution Bottle Number	Instrument Reading
Dissolved Oxygen		Zero DO Sodium	10175	0.00ppm
		Sulphite		
Dissolved Oxygen		Saturated Air		8.76ppm

Calibrated by: Sophie Boler

Calibration date: 8/03/2019

Next calibration due: 7/04/2019