Symbio LABORATORIES

CERTIFICATE OF ANALYSIS

			TIOUDIY AUSTRALIAN
Certificate Number	B860086 [R00]	Page	1/2 ABN: 82 079 645 015
Client	Cool Off	Registering Laboratory	Brisbane
Contact	Derrick Addison	Contact	Customer Service Team
Address	271 Jude Road Howlong NSW 2643	Address	52 Brandl Street, Eight Mile Plains, QLD 4113
		Email	admin@symbiolabs.com.au
Telephone	02 6026 5466	Telephone	1300 703 166
Order Number		Date Samples Received	20/12/2019 NATA
Job Description	Water	Date Analysis Commenced	20/12/2019
Client Job Reference		Issue Date	31/12/2019 Accreditation No: 2455
No. of Samples Registered	1	Receipt Temperature (°C)	6.7 Accredited for compliance with ISO/IEC 17025 - Testing
Priority	Normal	Storage Temperature (°C)	4

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Definitions

| <: Less Than | >: Greater Than | RP: Result Pending | ~: Estimated | MPN: Most Probable Number | CFU: Colony Forming Units | ---: Not Received/Not Requested | | ^ Subcontracted Analysis | NA:Not Applicable | [NT]:Not Tested | LOR:Level of Reporting | TBA:To Be Advised | ND:Not Detected | * Test not covered by NATA scope of accreditation | # Result derived from a calculation and includes results equal to or greater than the LOR | IH: Inconsistent results possibly caused by sample homogeneity

Authorised By		
Name	Position	Accreditation Category
Hongmei Kuang	Chemistry Laboratory Manager, Brisbane	Environmental and Food Chemistry

Sample Information - Client/Sampler Supplied

Sample ID	Sample Description	Sample Matrix
B860086/1	Waste Water Sample# 4565	Water - General

Analy	vtical	Resu	lts
Alla	ricai	ILC3U	

Compound/AnalyteMethodLORUnitsB860086/1Total Kjeldahl NitrogenEFF001 - Nitrogen (Total Kjeldahl) in Water/Effluent1mg/L1700Nitrate (as N)EFF004.1 - Nitrate-Nitrogen in Water/Effluent FIA0.005mg/L<2.5Nitrite (as N)EFF005.1 - Nitrite N in Water by FIA0.005mg/L<2.5pHEFF006 - pH in Water/EffluentpH Unit6.25Electrical ConductivityEFF007 - Electical Conductivity in Water5µS/cm4550Solids (Suspended)EFF009 - Suspended Solids in Water1mg/L10200ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05SulphateEFF016 - Sulphate in Water5mg/L41Oil & GreaseEFF021 - Oil & Grease (GRavimetric) in Water2mg/L17500BOD (Sday)EFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved salts (Salinity) #EFF041 - Salinity Calculation5mg/L CaCO32910	Analytical Results				
Total Kjeldahi Nitrogen Water/Effluent1mg/L1700Nitrate (as N)EFF004.1 - Nitrate-Nitrogen in Water/Effluent FIA0.005mg/L<2.5Nitrite (as N)EFF005.1 - Nitrite N in Water by FIA0.005mg/L<2.5pHEFF006 - pH in Water/EffluentpH Unit6.25Electrical ConductivityEFF007 - Electical Conductivity in Water5μS/cm4550Solids (Suspended)EFF009 - Suspended Solids in Water1mg/L10200ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05SulphateEFF016 - Sulphate in Water5mg/L41Oil & GreaseEFF021 - Oil & Grease (GRavimetric) in Water2mg/L739BOD (5day)EFF023 - BOD in Water2mg/L110BicarbonateEFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved saltsFEF041 - Salinity Calculation5mg/L2910	Compound/Analyte	Method	LOR	Units	B860086/1
Nitrate (as N)Water/Effluent FIA0.005mg/L<2.5Nitrite (as N)EFF005.1 - Nitrite N in Water by FIA0.005mg/L<2.5	Total Kjeldahl Nitrogen		1	mg/L	1700
pHEFF006 - pH in Water/EffluentpH Unit6.25Electrical ConductivityEFF007 - Electical Conductivity in Water5μS/cm4550Solids (Suspended)EFF009 - Suspended Solids in Water1mg/L10200ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05	Nitrate (as N)	0	0.005	mg/L	<2.5
Electrical ConductivityEFF007 - Electical Conductivity in Water5μS/cm4550Solids (Suspended)EFF009 - Suspended Solids in Water1mg/L10200ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05	Nitrite (as N)	EFF005.1 - Nitrite N in Water by FIA	0.005	mg/L	<2.5
Solids (Suspended)EFF009 - Suspended Solids in Water1mg/L10200ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05	рН	EFF006 - pH in Water/Effluent		pH Unit	6.25
ChlorideEFF011 - Chloride in Water2mg/L500FluorideEFF015 - Fluoride in Water0.05mg/L<0.05	Electrical Conductivity	EFF007 - Electical Conductivity in Water	5	μS/cm	4550
FluorideEFF015 - Fluoride in Water0.05mg/L<0.05SulphateEFF015 - Fluoride in Water5mg/L41Oil & GreaseEFF016 - Sulphate in Water5mg/L41Oil & GreaseEFF021 - Oil & Grease (GRavimetric) in Water2mg/L739BOD (5day)EFF023 - BOD in Water2mg/L17500Total PhosphorusEFF029.1 - Total N & P in Water by FIA0.01mg/L110BicarbonateEFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved saltsEFE041 - Salinity Calculation5mg/L2910	Solids (Suspended)	EFF009 - Suspended Solids in Water	1	mg/L	10200
SulphateEFF016 - Sulphate in Water5mg/L41Oil & GreaseEFF021 - Oil & Grease (GRavimetric) in Water2mg/L739BOD (5day)EFF023 - BOD in Water2mg/L17500Total PhosphorusEFF029.1 - Total N & P in Water by FIA0.01mg/L110BicarbonateEFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved saltsEFE041 - Salinity Calculation5mg/L2910	Chloride	EFF011 - Chloride in Water	2	mg/L	500
Oil & GreaseEFF021 - Oil & Grease (GRavimetric) in Water2mg/L739BOD (5day)EFF023 - BOD in Water2mg/L17500Total PhosphorusEFF029.1 - Total N & P in Water by FIA0.01mg/L110BicarbonateEFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved saltsEFE041 - Salinity Calculation5mg/L2910	Fluoride	EFF015 - Fluoride in Water	0.05	mg/L	<0.05
Oil & GreaseWater2mg/L739BOD (5day)EFF023 - BOD in Water2mg/L17500Total PhosphorusEFF029.1 - Total N & P in Water by FIA0.01mg/L110BicarbonateEFF031 - Alkalinity as CaCO3 in water1mg/L CaCO31837.9Dissolved saltsEFF041 - Salinity Calculation5mg/L2910	Sulphate	EFF016 - Sulphate in Water	5	mg/L	41
Total Phosphorus EFF029.1 - Total N & P in Water by FIA 0.01 mg/L 110 Bicarbonate EFF031 - Alkalinity as CaCO3 in water 1 mg/L CaCO3 1837.9 Dissolved salts EFF041 - Salinity Calculation 5 mg/L 2910	Oil & Grease	· · · · · · · · · · · · · · · · · · ·	2	mg/L	739
Bicarbonate EFF031 - Alkalinity as CaCO3 in water 1 mg/L CaCO3 1837.9 Dissolved salts EFF041 - Salinity Calculation 5 mg/L 2910	BOD (5day)	EFF023 - BOD in Water	2	mg/L	17500
Bicarbonate EFF031 - Alkalinity as CaCO3 in water 1 CaCO3 Dissolved salts EFF041 - Salinity Calculation 5 mg/L 2910	Total Phosphorus	EFF029.1 - Total N & P in Water by FIA	0.01	mg/L	110
FFF041 - Salinity Calculation 5 mg/L 2910	Bicarbonate	EFF031 - Alkalinity as CaCO3 in water	1	0.	1837.9
		EFF041 - Salinity Calculation	5	mg/L	2910
Nitrogen (Total) #EFF085 - Nitrogen (Total) in Water/Effluent1mg/L1700	Nitrogen (Total) #		1	mg/L	1700
Solids (Total) EFF008 - Total Solids in Water 1 mg/L 10900	Solids (Total)	EFF008 - Total Solids in Water	1	mg/L	10900

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Client	Cool Off		Certificat	e Number
Page	2/2			
Analytical Results	Analytical Results			
Compound/Analyte	Method	LOR	Units	B860086/1
Magnesium (Dissolved)	EWI01 - Dissolved metals in Water by ICPOES	0.05	mg/L	14
Calcium (Dissolved)	EWI01 - Dissolved metals in Water by ICPOES	0.1	mg/L	20
Residual Alkalinity	EFF031 - Alkalinity as CaCO3 in water	1	meq/L	16
Alkalinity Bicarb (CaCO3)	EFF031 - Alkalinity as CaCO3 in water	1	mg/L	1840
Alkalinity Carbonate (CaCO3)	EFF031 - Alkalinity as CaCO3 in water	1	mg/L	<1
Alkalinity Hydroxide(CaCO3)	EFF031 - Alkalinity as CaCO3 in water	1	mg/L	<1
Alkalinity Iotal (CaCO3)	EFF031 - Alkalinity as CaCO3 in water	1	mg/L	1840
Potassium (Total)	EWI02 - ICP-AES Acid Extractable (total metals) elements in water	0.2	mg/L	86
Calcium (Total)	EWI02 - ICP-AES Acid Extractable (total metals) elements in water	0.1	mg/L	22
Magnesium (Total)	EWI02 - ICP-AES Acid Extractable (total metals) elements in water	0.05	mg/L	15
Sodium (Total)	EWI02 - ICP-AES Acid Extractable (total metals) elements in water	1	mg/L	94

Analysis Location

Boron (Total)

All in-house analysis was completed by Symbio Laboratories - Brisbane.

ICPMS

EWM02 - Total metals in water by

Report Comments

Sampling was conducted by the customer and results pertain only to the samples submitted. Responsibility for representative sampling rests with customer. Laboratory results for pH, chlorine or dissolved oxygen are for information purpose only - testing conducted outside recommended storage time of 0.25hr from sampling.

mg/L

0.0059

0.005