



**Environmental**

## CERTIFICATE OF ANALYSIS

<b>Work Order</b>	: <b>ES2308967</b>	<b>Page</b>	: 1 of 2
<b>Client</b>	: <b>SYDNEY ZOO</b>	<b>Laboratory</b>	: Environmental Division Sydney
<b>Contact</b>	: MR PETER AIKEN	<b>Contact</b>	: Wael Saleh
<b>Address</b>	: 700 GREAT WESTERN HWY EASTERN CREEK 2766	<b>Address</b>	: 277-289 Woodpark Road Smithfield NSW Australia 2164
<b>Telephone</b>	: ----	<b>Telephone</b>	: +61 2 8784 8555
<b>Project</b>	: 50220 - TRADEWASTE		
<b>Order number</b>	: ----		
<b>C-O-C number</b>	: ----		
<b>Site</b>	: 50220 - 700 GREAT WESTERN HWY, EASTERN CREEK, NSW, 2766		
<b>Sampled by</b>	: ----		
<b>Quote number</b>	: ES2020SYDZOO0001 (TS-004-20)		



Accreditation No. 825  
Accredited for compliance with  
ISO/IEC 17025 - Testing

<b>Issue Date</b>	: 27-Mar-2023 13:40	<b>No. of samples received</b>	: 1
<b>Date Samples Received</b>	: 17-Mar-2023 15:21	<b>No. of samples analysed</b>	: 1

Parameter	Unit	LOR	VALUE
Start time	hrs	1	1313 on 16/3/23
Finish Time	hrs	1	1227 on 17/3/23
Meter Reading (start)	kL	0.001	19592
Meter Reading (finish)	kL	0.001	19614
TWDF	%	1	100
Volume Discharged	kL	0.001	22.0
Volume Discharged (corrected)	kL	0.001	22.0

### General Comments

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. All pages of this report have been checked and approved for release.

Where a result is required to meet compliance limits, the associated uncertainty **must be** considered. Refer to the ALS Contract Terms and Conditions for details, and EnviroMail 53 for a guide on how to interpret the measurement of uncertainty (MU).

Black shading is applied where the result is equal to or greater than the guideline upper limit or the result is equal to or lower than the guideline lower limit. Any shading applied does not take into account measurement uncertainty.

A copy of this report will not be forwarded to Sydney Water unless otherwise instructed.

Analysis conducted on samples as received.

Mass discharged calculation is not covered by ALS scope of accreditation.

Sample and Sampling information supplied by ALS

SAMPLING CONDITIONS: Grabs per bottle: 24 Sample Interval: 1kl , mL per grab :390mL, TWDF: 100%

pH on site both was not reported as there was no flow.

EA016(0.6): Total Dissolved Solids calculated by multiplying Electrical Conductivity by a factor of 0.6.

Sodium Adsorption Ratio (where reported): Where results for Na, Ca or Mg are <LOR, a concentration at half the reported LOR is incorporated into the SAR calculation. This represents a conservative approach for Na relative to the assumption that <LOR = zero concentration and a conservative approach for Ca & Mg relative to the assumption that <LOR is equivalent to the LOR concentration.

### 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)
Wael Saleh	Client Services - Trade Waste Coordinator (Sydney Sampling, Smithfield, NSW)
Wisam Marassa	Inorganics Coordinator (Sydney Inorganics, Smithfield, NSW)

RIGHT SOLUTIONS | RIGHT PARTNER

Analytical Results



				50220 - COMPOSITE		MASS DISCHARGE	
				17-Mar-2023			
Method	TEST PARAMETER	Unit	LOR	Standard Concentration Limit(s)	ES2308967001 MU	Maximum Daily Mass Unit(s) (kg)	- for sampling event - (kg)
EA016 (0.6)	Total Dissolved Solids (Calc.)	mg/L	1	500.00	5160	18	114
EA025H	Suspended Solids (SS)	mg/L	5	600.00	11 ± 1	22	0.236
ED093F	Calcium	mg/L	1	---	50 ± 5	---	1.10
ED093F	Magnesium	mg/L	1	---	6 ± 0.4	---	0.123
ED093F	Sodium	mg/L	1	---	1720 ± 134	---	37.9
EK055	Ammonia as N	mg/L	0.1	100.00	2.8	3	0.0616
EP030	Biochemical Oxygen Demand	mg/L	2	---	30 ± 5	22	0.660

Client - Report Received and Actioned

Customer Signature : \_\_\_\_\_

Designation : \_\_\_\_\_

Date : \_\_\_\_/\_\_\_\_/\_\_\_\_

Water Authority - Report Received and Actioned

TERRITORY

Sample Number : 

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Wastewater Source Control Office :