



## CERTIFICATE OF ANALYSIS

Work Order : **ES2315917** Page : 1 of 2  
Client : **SYDNEY ZOO** Laboratory : Environmental Division Sydney  
Contact : MR PETER AIKEN Contact : Wael Saleh  
Address : 700 GREAT WESTERN HWY Address : 277-289 Woodpark Road Smithfield  
EASTERN CREEK 2766 NSW Australia 2164  
Telephone : ---- Telephone : +61 2 8784 8555  
Project : 50220 - TRADEWASTE  
Order number : ----  
C-O-C number : ----  
Site : 50220 - 700 GREAT WESTERN HWY,  
EASTERN CREEK, NSW, 2766  
Sampled by : ----  
Quote number : ES2020SYDZOO0001 (TS-004-20)



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

Issue Date : 29-May-2023 13:23 No. of samples received : 1  
Date Samples Received : 12-May-2023 15:36 No. of samples analysed : 1

Parameter	Unit	LOR	VALUE
Start time	hrs	1	1419 on 11/5/23
Finish Time	hrs	1	1416 on 12/5/23
Meter Reading (start)	kL	0.001	20406
Meter Reading (finish)	kL	0.001	20430
TWDF	%	1	100
Volume Discharged	kL	0.001	24.0
Volume Discharged (corrected)	kL	0.001	24.0

### 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 final 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)
Ankit Joshi	Senior Chemist - Inorganics (Sydney Inorganics, Smithfield, NSW)
Wael Saleh	Client Services - Trade Waste Coordinator (Sydney Sampling, Smithfield, NSW)

right solutions. right partner.



				50220 - COMPOSITE 12-May-2023		MASS DISCHARGE	
Method	TEST PARAMETER	Unit	LOR	Standard Concentration Limit(s)	ES2315917001 MU	Maximum Daily Mass Unit(s) (kg)	- for sampling event - (kg)
EA016 (0.6)	Total Dissolved Solids (Calc.)	mg/L	1	500.00	4970	18	119
EA025H	Suspended Solids (SS)	mg/L	5	600.00	33 ± 4	22	0.786
ED093F	Calcium	mg/L	1	---	50 ± 5	---	1.21
ED093F	Magnesium	mg/L	1	---	11 ± 0.9	---	0.258
ED093F	Sodium	mg/L	1	---	1690 ± 132	---	40.6
EK055	Ammonia as N	mg/L	0.1	100.00	<0.1 --	3	<0.0024
EP030	Biochemical Oxygen Demand	mg/L	2	---	<2 --	22	<0.048
SAMP-01	pH (start)	pH Unit	0.1	7.00 to 10.00	7.7	10	---

<b>Client - Report Received and Actioned</b>	<b>Water Authority - Report Received and Actioned</b>						
Customer Signature : _____	TERRITORY						
Designation : _____	Sample Number : <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>						
Date : _____ / _____ / _____	Wastewater Source Control Office :						