CERTIFICATE OF ANALYSIS

Work Order	: **CA2602851**	Page	: 1 of 6
Client	: **Southern Meats**	Laboratory	: ALS Water
Contact	: Mick Sperring	Contact	: ALS Water Canberra
Address	: Mazamet Road Goulburn NSW 2580	Address	: 2/33 Couranga Cr, Hume Canberra ACT Australia 2620
Telephone	: ----	Telephone	: +61 2 6202 5400
Project	: Water Sampling Quarterly	Date Samples Received	: 12-May-2026 09:15
Order number	: ----	Date Analysis Commenced	: 12-May-2026
C-O-C number	: ----	Issue Date	: 20-May-2026 16:10
Sampler	: Mick Sperring		
Site	: ----		
Quote number	: Active 2026		
No. of samples received	: 9		
No. of samples analysed	: 9		

Accreditation No. 992
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*
Amanda Gonzalez	Laboratory Technician	Canberra Water Inorganics, Canberra, ACT
Christopher Johnston	Team Leader - Metals	Canberra Water Inorganics, Canberra, ACT
Clare Kennedy	Chemistry Teamleader	Canberra Water Inorganics, Canberra, ACT

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.

- **Water samples collected by ALS according to one of the following procedures : Potable = EN67.5, Pools = EN67.3,Lakes/ Reservoirs = EN67.4, River/Stream = EN67.6, Beach = EN67.9, Wastewater = EN67.10, Groundwater = EN67.11**
- Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.

Analytical Results

Sub-Matrix: WATER
(Matrix: WATER)

Compound	CAS Number	LOR	Unit	Sample ID	STHMEATS1 Ex Daf	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond	STHMEATS5 Storage Dam 1
				Sampling date / time	12-May-2026 05:00	12-May-2026 05:15	12-May-2026 05:20	12-May-2026 05:20	12-May-2026 05:25
					CA2602851-001	CA2602851-002	CA2602851-003	CA2602851-004	CA2602851-005
					Result	Result	Result	Result	Result
EA005CA: pH									
pH	----	0.01	pH Unit		6.65	7.12	6.68	7.80	8.60
EA010CA: Conductivity									
Electrical Conductivity @ 25°C	----	2	µS/cm		2160	3670	2380	2410	2950
ED009CA: Anions									
Chloride	16887-00-6	0.1	mg/L		164	159	171	207	412
EA015CA: Total Dissolved Solids									
Total Dissolved Solids	----	10	mg/L		1740	1180	1260	1390	1630
EA025CA: Suspended Solids									
Suspended Solids (SS)	----	2	mg/L		3550	500	1050	411	71
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand	----	2	mg/L		3670	217	128	68	60
EP026CA: Chemical Oxygen Demand									
Chemical Oxygen Demand	----	5	mg/L		8100	1020	1650	731	219
EK057CA: Nitrite as N									
Nitrite as N	14797-65-0	0.01	mg/L N		0.08	0.07	126	90.3	43.1
EK058CA: Nitrate as N									
ø Nitrate as N	14797-55-8	0.01	mg/L N		<0.05	<0.05	87.0	79.7	64.9
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N	----	0.05	mg/L N		0.10	0.11	213	170	108
EK061CA: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N		349	351	37.0	5.00	4.00
EK062CA: Total Nitrogen as N									
Total Nitrogen as N	----	0.05	mg/L N		349	351	250	175	112
EK067CA: Total Phosphorus as P									
Total Phosphorus as P	----	0.01	mg/L P		50.3	46.5	44.9	40.8	10.5
EG005CA: Total Metals by ICP-OES									
Calcium	7440-70-2	0.10	mg/L		44.9	53.9	60.4	49.0	40.9

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	STHMEATS1 Ex Daf	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond	STHMEATS5 Storage Dam 1
				Sampling date / time	12-May-2026 05:00	12-May-2026 05:15	12-May-2026 05:20	12-May-2026 05:20	12-May-2026 05:25
					CA2602851-001	CA2602851-002	CA2602851-003	CA2602851-004	CA2602851-005
					Result	Result	Result	Result	Result
EG005CA: Total Metals by ICP-OES - Continued									
Magnesium	7439-95-4	0.10	mg/L		**32.5**	**43.3**	**48.3**	**49.9**	**55.9**
Sodium	7440-23-5	0.1	mg/L		**287**	**296**	**296**	**301**	**416**
EA006CA: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio	----	0.01	-		**14.1**	**7.17**	**7.01**	**7.44**	**9.86**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	STHMEATS6 Storage Dam 2	STHMEATS7 Run Off Dam 1	STHMEATS8 Run Off Dam 2	STHMEATS9 Runowaters Creek	----
			Sampling date / time	12-May-2026 05:30	12-May-2026 05:35	12-May-2026 05:40	12-May-2026 05:45	----
Compound	CAS Number	LOR	Unit	CA2602851-006	CA2602851-007	CA2602851-008	CA2602851-009	--------
				Result	Result	Result	Result	----
EA005CA: pH								
pH	----	0.01	pH Unit	**8.54**	**9.39**	**9.55**	**7.71**	**----**
EA010CA: Conductivity								
Electrical Conductivity @ 25°C	----	2	µS/cm	**2510**	**2470**	**2230**	**609**	**----**
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	**305**	**290**	**251**	**69.6**	**----**
EA015CA: Total Dissolved Solids								
Total Dissolved Solids	----	10	mg/L	**1620**	**1560**	**1340**	**325**	**----**
EA025CA: Suspended Solids								
Suspended Solids (SS)	----	2	mg/L	**81**	**255**	**110**	**8**	**----**
EP020CA: Oil and Grease								
Oil and Grease	----	1	mg/L	**----**	**----**	**----**	<1	**----**
EP030CA: Biochemical Oxygen Demand								
Biochemical Oxygen Demand	----	2	mg/L	**31**	**57**	**14**	<2	**----**
EP026CA: Chemical Oxygen Demand								
Chemical Oxygen Demand	----	5	mg/L	**234**	**591**	**280**	**43**	**----**
EK057CA: Nitrite as N								
Nitrite as N	14797-65-0	0.01	mg/L N	**17.5**	**1.37**	**1.35**	<0.01	**----**
EK058CA: Nitrate as N								
ø Nitrate as N	14797-55-8	0.01	mg/L N	**70.9**	**3.23**	**3.59**	<0.05	**----**
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N	----	0.05	mg/L N	**88.4**	**4.60**	**4.94**	<0.05	**----**
EK061CA: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	**13.6**	**30.7**	**9.66**	<0.05	**----**
EK062CA: Total Nitrogen as N								
Total Nitrogen as N	----	0.05	mg/L N	**102**	**35.3**	**14.6**	<0.05	**----**
EK067CA: Total Phosphorus as P								
Total Phosphorus as P	----	0.01	mg/L P	**11.5**	**17.9**	**13.2**	**0.15**	**----**
EG005CA: Total Metals by ICP-OES								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	STHMEATS6 Storage Dam 2	STHMEATS7 Run Off Dam 1	STHMEATS8 Run Off Dam 2	STHMEATS9 Runowaters Creek	----
				Sampling date / time	12-May-2026 05:30	12-May-2026 05:35	12-May-2026 05:40	12-May-2026 05:45	----
Compound	CAS Number	LOR	Unit		CA2602851-006	CA2602851-007	CA2602851-008	CA2602851-009	--------
					Result	Result	Result	Result	----
EG005CA: Total Metals by ICP-OES - Continued									
Calcium	7440-70-2	0.10	mg/L		**37.6**	**26.1**	**18.8**	**36.3**	**----**
Magnesium	7439-95-4	0.10	mg/L		**56.0**	**45.2**	**29.3**	**22.3**	**----**
Sodium	7440-23-5	0.1	mg/L		**383**	**421**	**374**	**40.4**	**----**
EA006CA: Sodium Adsorption Ratio									
ø Sodium Adsorption Ratio	----	0.01	-		**8.80**	**11.6**	**13.0**	**1.42**	**----**