

CERTIFICATE OF ANALYSIS

Work Order : **EW2205769**
Client : **HANSON CONSTRUCTION MATERIALS PTY LTD**
Contact : MR STEVE BUTCHER
Address : BOOLLWARROO PDE
 SHELLHARBOUR NSW, AUSTRALIA 2529
Telephone : +61 02 4295 1355
Project : Bass Point Monthly Water Monitoring
Order number : 4503139905
C-O-C number : ----
Sampler : Robert DaLio
Site : ----
Quote number : WL/043/11 Bass Point Water Monitoring
No. of samples received : 6
No. of samples analysed : 6

Page : 1 of 4
Laboratory : Environmental Division NSW South Coast
Contact : Aneta Prosaroski
Address : 1/19 Ralph Black Dr, North Wollongong 2500 NSW Australia
Telephone : 02 42253125
Date Samples Received : 12-Dec-2022 13:28
Date Analysis Commenced : 12-Dec-2022
Issue Date : 14-Dec-2022 12:37



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
Aneta Prosaroski	Environmental Services Representative	Laboratory - Wollongong, NSW



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.

- **Analytical work for this work order will be conducted at ALS Sydney.**
- Electrical conductivity performed by ALS Wollongong via in-house method EA010FD and EN67 PK.
- Sampling and groundwater depth measurements completed by ALS Wollongong via inhouse sampling method EN/67.11 Groundwater Sampling Via Bailer Method.
- All field analysis performed by ALS Wollongong were completed at the time of sampling.
- Sampling completed by ALS Wollongong in accordance with in-house sampling method EN/67.4 Lakes and Reservoirs
- Sample collection of Ground Waters by in-house EN67 where the "surface layer of the aquifer was sampled".



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	BH 1	BT 702	BT 703	BT 1201	BT 1202
Sampling date / time				12-Dec-2022 00:00	12-Dec-2022 11:00	12-Dec-2022 10:35	12-Dec-2022 00:00	12-Dec-2022 11:30	
Compound	CAS Number	LOR	Unit	EW2205769-001	EW2205769-002	EW2205769-003	EW2205769-004	EW2205769-005	
				Result	Result	Result	Result	Result	
EA010FD: Field Conductivity									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	1660	1900	----	1700	
EA116: Temperature									
Temperature	----	0.1	°C	----	18.3	17.8	----	17.8	
EN67 PK: Field Tests									
Field Observations	----	0.01	--	DESTROYED	----	----	DESTROYED	----	
QWI-EN 67.11 Sampling of Groundwaters									
Depth	----	0.01	m	----	26.15	5.08	----	19.9	



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	Killalea Lagoon	----	----	----	----
			Sampling date / time	12-Dec-2022 12:00	----	----	----	----
Compound	CAS Number	LOR	Unit	EW2205769-006	-----	-----	-----	-----
				Result	----	----	----	----
QWI-EN 67.04 Sampling of Lakes and Reservoirs, QWI-EN 67.06 Sampling of Rivers and Streams								
Depth - Surface Water	----	0.01	m	1.0	----	----	----	----