

## CERTIFICATE OF ANALYSIS

**Work Order** : **EW1900992**  
**Client** : **HANSON CONSTRUCTION MATERIALS PTY LTD**  
**Contact** : MR STEPHEN BUTCHER  
**Address** : BOOLLWARROO PDE  
 SHELLHARBOUR NSW, AUSTRALIA 2529  
  
**Telephone** : +61 02 4295 1355  
**Project** : Bass Point Monthly Water Monitoring  
**Order number** : 4502542528  
**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** : Glenn Davies  
**Address** : 1/19 Ralph Black Dr, North Wollongong 2500  
 4/13 Geary Pl, North Nowra 2541  
 Australia NSW Australia  
**Telephone** : 02 42253125  
**Date Samples Received** : 08-Mar-2019 16:06  
**Date Analysis Commenced** : 08-Mar-2019  
**Issue Date** : 19-Mar-2019 14:19



Accreditation No. 825  
 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. 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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong, NSW



## General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by 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 Contact 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.

- Killalea Lagoon depth taken from red gauge.
- Sampling and sample data supplied by ALS Wollongong.
- Sampling completed as per EN/67.11 Groundwater Sampling.
- Field tests completed on day of sampling/receipt.



### Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Client sample ID	BH 1	BT 702	BT 703	BT 1201	BT 1202
Client sampling date / time				08-Mar-2019 08:45	08-Mar-2019 09:00	08-Mar-2019 08:30	08-Mar-2019 07:50	08-Mar-2019 08:10	
Compound	CAS Number	LOR	Unit	EW1900992-001	EW1900992-002	EW1900992-003	EW1900992-004	EW1900992-005	
				Result	Result	Result	Result	Result	
<b>EA010FD: Field Conductivity</b>									
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	2240	1710	----	----	
<b>EA116: Temperature</b>									
Temperature	----	0.1	°C	----	18.2	18.4	----	----	
<b>EN67 PK: Field Tests</b>									
Field Observations	----	0.01	--	DESTROYED	----	----	DESTROYED	NO ACCESS	
<b>FWI-EN/001: Groundwater Sampling - Depth</b>									
Depth	----	0.01	m	----	25.07	6.53	----	----	



**Analytical Results**

Sub-Matrix: <b>WATER</b> (Matrix: <b>WATER</b> )			Client sample ID	<b>Killalea Lagoon</b>	----	----	----	----
			Client sampling date / time	08-Mar-2019 07:45	----	----	----	----
Compound	CAS Number	LOR	Unit	<b>EW1900992-006</b>	-----	-----	-----	-----
				Result	----	----	----	----
<b>FWI-EN/002: Surface Water Sampling - Depth</b>								
Depth - Surface Water	----	0.01	m	<0.75	----	----	----	----