



13 February 2015

Nathan Wood  
Hamcon Civil Pty Ltd  
PO Box 2356  
Orange NSW 2800

Our ref: L8072.1

Dear Nathan,

### Water analysis - Bald Hill Quarry

Discharge water from the monitoring point of the Final Sediment Basin Overflow was collected on 27 January 2015 by Nathan Wood (samples id BH2701). The rainfall day preceding collected was 100mm.

The water was analysed for oil and grease, pH and total suspended solids at the NATA accredited laboratory of ALS Environmental Smithfield. Concentration limits are listed in the EPA licence and Table 1 however they do not apply when rainfall exceeds a total of 44mm over a 5 day period.

Results for the analysis are listed in Table1.

Pollutant	Units	BH2701	Licence concentration limit*
Oil and grease	mg/L	<5	10
pH	pH	7.21	6.5-8.5
Total suspended solids	mg/L	110	50

\*does not apply when rainfall exceeds a total of 44mm over a 5 day period

Regards,

Greg Madafiglio CPSS  
Senior Environmental Scientist

### Attachments

Appendix 1. ALS Laboratory report ES1501754

## CERTIFICATE OF ANALYSIS

<b>Work Order</b>	: <b>ES1501754</b>	Page	: 1 of 3
<b>Client</b>	: <b>ENVIROWEST CONSULTING</b>	Laboratory	: Environmental Division Sydney
<b>Contact</b>	: MR GREG MADAFIGLIO	Contact	: Client Services
<b>Address</b>	: 9 CAMERON PLACE PO BOX 8158 ORANGE NSW, AUSTRALIA 2800	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
<b>E-mail</b>	: greg@envirowest.net.au	E-mail	: sydney@alsglobal.com
<b>Telephone</b>	: +61 63614954	Telephone	: +61-2-8784 8555
<b>Facsimile</b>	: +61 02 63603960	Facsimile	: +61-2-8784 8500
<b>Project</b>	: 8072	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
<b>Order number</b>	: 8072		
<b>C-O-C number</b>	: 8072	<b>Date Samples Received</b>	: 28-JAN-2015
<b>Sampler</b>	: CLIENT	<b>Issue Date</b>	: 04-FEB-2015
<b>Site</b>	: 8072		
<b>Quote number</b>	: SY/542/14	<b>No. of samples received</b>	: 1
		<b>No. of samples analysed</b>	: 1

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with  
ISO/IEC 17025.

### Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics



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### **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



### Analytical Results

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

Client sample ID

**BH2701**

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Client sampling date / time

27-JAN-2015 15:00

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Compound	CAS Number	LOR	Unit	ES1501754-001	----	----	----	----
<b>EA005P: pH by PC Titrator</b>								
pH Value	----	0.01	pH Unit	7.21	----	----	----	----
<b>EA025: Suspended Solids</b>								
Suspended Solids (SS)	----	5	mg/L	110	----	----	----	----
<b>EP020: Oil and Grease (O&amp;G)</b>								
Oil & Grease	----	5	mg/L	<5	----	----	----	----

**Chain of Custody Form – Ref 8072**

<b>Ref: 8072</b> Investigator: Envirowest Consulting 9 Cameron Place PO Box 8158 ORANGE NSW 2800 Telephone: (02) 6361 4954 Facsimile: (02) 6360 3960 Email: greg@envirowest.net.au Contact Person: Greg Madaliglo Invoice to: martine@envirowest.net.au Laboratory: Australian Laboratory Services 277 Woodpark Road SMITHFIELD NSW 2164 Quotation #: SY-435-14 Courier/CN:		<b>Sample matrix</b> Water    Soil    Sludge			<b>Sample preservation</b> Cool    HNO3/HCl    Unpreserved			<b>Analysis</b> ALS Method Code EP020    EA025H    EA005		
Sample ID: BH2701 Container*: E,F Sampling Date/Time: 27/01/2015	X	X	X	X	X	X	X	X		
Environmental Division Sydney Work Order <b>ES1501754</b>  Telephone : + 61 -2-8784 8555										
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples.					Sampler name: Client Date : 27/01/2015 Time:					
Relinquished by: Martine French (print and signature)		Date: 27/01/2015 Time: 17:00		Received by: David (print and signature)		Date: 28/1/2015 Time:		HT		

Please return completed form to Envirowest Consulting, \*A = Solvent rinsed glass jar with Teflon lined lid and orange label, B = 2x40mL vials solvent rinsed Teflon lined septum caps, C 1x500mL glass bottles, solvent rinsed, Teflon lined cap, D= 200mL plastic bottle with nitric acid, E= 1x1L plastic bottle, F = 1x1L glass bottle