

## CERTIFICATE OF ANALYSIS

<p><b>Work Order</b> : <b>EW1202910</b></p> <p><b>Client</b> : <b>SHOALHAVEN CITY COUNCIL</b></p> <p><b>Contact</b> : David Hojem</p> <p><b>Address</b> : PO Box 42 Nowra NSW 2541</p> <p><b>E-mail</b> : nowra.lab@alsglobal.com</p> <p><b>Telephone</b> : 02 4429 3406</p> <p><b>Facsimile</b> : 02 4429 5929</p> <p><b>Project</b> : Sussex Inlet Landfill Quarterly</p> <p><b>Order number</b> : 15440 16780</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Craig Wilson</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : ----</p>	<p><b>Page</b> : 1 of 3</p> <p><b>Laboratory</b> : Environmental Division NSW South Coast</p> <p><b>Contact</b> : Glenn Davies</p> <p><b>Address</b> : 99 Kenny Street, Wollongong 2500 Unit 4 / 13 Geary Place, PO Box 3105, North Nowra 2541 AUSTRALIA</p> <p><b>E-mail</b> : glenn.davies@alsglobal.com</p> <p><b>Telephone</b> : 02 4225 3125</p> <p><b>Facsimile</b> : 02 4225 3128</p> <p><b>QC Level</b> : NEPM 1999 Schedule B(3) and ALS QCS3 requirement</p> <p><b>Date Samples Received</b> : 23-OCT-2012</p> <p><b>Issue Date</b> : 30-OCT-2012</p> <p><b>No. of samples received</b> : 2</p> <p><b>No. of samples analysed</b> : 2</p>
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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>
Celine Conceicao	Senior Spectroscopist	Sydney Inorganics
Glenn Davies	Environmental Services Representative	Laboratory - Wollongong
Sarah Millington	Senior 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.

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

- **Site S1 - Dry at time of sampling.**
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**Analytical Results**

Sub-Matrix: **WATER**

Client sample ID

Client sampling date / time

				S1	S2			
				23-OCT-2012 09:15	23-OCT-2012 09:05	----	----	----
Compound	CAS Number	LOR	Unit	EW1202910-001	EW1202910-002	----	----	----
<b>EA015: Total Dissolved Solids</b>								
Total Dissolved Solids @180°C	GIS-210-010	1	mg/L	----	91	----	----	----
<b>ED093T: Total Major Cations</b>								
Potassium	7440-09-7	1	mg/L	----	4	----	----	----
<b>EK055G: Ammonia as N by Discrete Analyser</b>								
Ammonia as N	7664-41-7	0.01	mg/L	----	0.02	----	----	----
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>								
Total Phosphorus as P	----	0.01	mg/L	----	<0.01	----	----	----
<b>EN67 PK: Field Tests</b>								
pH	----	0.1	pH Unit	----	6.1	----	----	----
Electrical Conductivity (Non Compensated)	----	1	µS/cm	----	205	----	----	----
Dissolved Oxygen	----	0.01	mg/L	----	6.97	----	----	----
Field Observations	----	0.01	--	DRY	----	----	----	----
<b>EP005: Total Organic Carbon (TOC)</b>								
Total Organic Carbon	----	1	mg/L	----	15	----	----	----
<b>EP030: Biochemical Oxygen Demand (BOD)</b>								
Biochemical Oxygen Demand	----	2	mg/L	----	<2	----	----	----