

## CERTIFICATE OF ANALYSIS

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| <p><b>Work Order</b> : <b>EW1302410</b></p> <p><b>Client</b> : <b>WOLLONGONG CITY COUNCIL</b></p> <p><b>Contact</b> : MR WAYDE PETERSON</p> <p><b>Address</b> : 41 BURELLI STREET<br/>WOLLONGONG NSW, AUSTRALIA 2500</p> <p><b>E-mail</b> : wpeterson@wollongong.nsw.gov.au</p> <p><b>Telephone</b> : +61 02 4227 7111</p> <p><b>Facsimile</b> : +61 02 4227 7277</p> <p><b>Project</b> : Helensburgh Pony Club Quarterly</p> <p><b>Order number</b> : 3015425</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : Craig Wislon</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : WL/001/11 Helensburgh Pony Club</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<br/>Unit 4 / 13 Geary Place, PO Box 3105, North Nowra 2541<br/>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 2013 Schedule B(3) and ALS QCS3 requirement</p> <p><b>Date Samples Received</b> : 22-AUG-2013</p> <p><b>Issue Date</b> : 30-AUG-2013</p> <p><b>No. of samples received</b> : 1</p> <p><b>No. of samples analysed</b> : 1</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> |
|--------------------|---------------------------------------|-------------------------------|
| Ankit Joshi        | Inorganic Chemist                     | Sydney Inorganics             |
| Ankit Joshi        | Inorganic Chemist                     | Sydney Inorganics             |
| Celine Conceicao   | Senior Spectroscopist                 | Sydney Inorganics             |
| Glenn Davies       | Environmental Services Representative | Laboratory - Wollongong       |
| Tony De Souza      | Senior Microbiologist                 | Sydney Microbiology           |



## 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

- **Microbiological Comment: Membrane filtration (MF) results for MW006 are reported as an estimate (~) when the growth of bacteria on the filter membrane is counted <10cfu and/or >100cfu.**
- **MW006 is ALS's internal code and is equivalent to AS4276.7.**



## Analytical Results

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

Client sample ID

**SW Pony Club**

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Client sampling date / time

22-AUG-2013 13:35

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| Compound  | CAS Number | LOR  | Unit      | EW1302410-001 | ---- | ---- | ---- | ---- |
|---|------------|------|-----------|---------------|------|------|------|------|
| <b>EA015: Total Dissolved Solids</b>              |            |      |           |               |      |      |      |      |
| Total Dissolved Solids @180°C                     | ----       | 1    | mg/L      | 612           | ---- | ---- | ---- | ---- |
| <b>ED093T: Total Major Cations</b>                |            |      |           |               |      |      |      |      |
| Potassium   | 7440-09-7  | 1    | mg/L      | 40            | ---- | ---- | ---- | ---- |
| <b>EK055G: Ammonia as N by Discrete Analyser</b>  |            |      |           |               |      |      |      |      |
| Ammonia as N                                      | 7664-41-7  | 0.01 | mg/L      | 13.5          | ---- | ---- | ---- | ---- |
| <b>EN67 PK: Field Tests</b>                       |            |      |           |               |      |      |      |      |
| pH  | ----       | 0.1  | pH Unit   | 7.4           | ---- | ---- | ---- | ---- |
| Electrical Conductivity (Non Compensated)         | ----       | 1    | µS/cm     | 1250          | ---- | ---- | ---- | ---- |
| Dissolved Oxygen                                  | ----       | 0.01 | mg/L      | 6.47          | ---- | ---- | ---- | ---- |
| Redox Potential                                   | ----       | 0.1  | mV        | -49.0         | ---- | ---- | ---- | ---- |
| <b>EP005: Total Organic Carbon (TOC)</b>          |            |      |           |               |      |      |      |      |
| Total Organic Carbon                              | ----       | 1    | mg/L      | 27            | ---- | ---- | ---- | ---- |
| <b>MW006: Faecal Coliforms &amp; E.coli by MF</b> |            |      |           |               |      |      |      |      |
| Faecal Coliforms                                  | ----       | 1    | CFU/100mL | ~2            | ---- | ---- | ---- | ---- |