



Australian Laboratory Services Pty. Ltd.  
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Finalized Date: 17-JUN-2011  
Account: BURR

## CERTIFICATE BR11098992

Project: ME-ICP61, XRF-05

P.O. No.: TA 51302

This report is for 111 Pulp samples submitted to our lab in Brisbane, QLD, Australia on 6-JUN-2011.

The following have access to data associated with this certificate:

RICKY GELSTON

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| LEV-01   | Waste Disposal Levy            |
| LOG-22   | Sample login - Rcd w/o BarCode |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                  | INSTRUMENT |
|----------|------------------------------|------------|
| ME-XRF05 | Trace Level XRF Analysis     | XRF        |
| ME-ICP61 | 33 element four acid ICP-AES | ICP-AES    |

To: BURNIE RESEARCH LABORATORY  
ATTN: RICKY GELSTON  
PO BOX 952  
BURNIE TAS 7320

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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**CERTIFICATE OF ANALYSIS BR11098992**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-XRF05<br>Sn<br>ppm<br>5 | ME-XRF05<br>W<br>ppm<br>10 | ME-ICP61<br>Ag<br>ppm<br>0.5 | ME-ICP61<br>As<br>ppm<br>5 | ME-ICP61<br>Cu<br>ppm<br>1 | ME-ICP61<br>Ni<br>ppm<br>1 | ME-ICP61<br>Pb<br>ppm<br>2 | ME-ICP61<br>Zn<br>ppm<br>2 |
|--------------------|-----------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| SS0120             |                                   | <5                         | 10                         | <0.5                         | 16                         | 166                        | 71                         | 28                         | 94                         |
| SS0121             |                                   | <5                         | <10                        | <0.5                         | 15                         | 78                         | 58                         | 24                         | 115                        |
| SS0122             |                                   | <5                         | <10                        | <0.5                         | 15                         | 67                         | 54                         | 25                         | 126                        |
| SS0123             |                                   | 5                          | <10                        | <0.5                         | 10                         | 70                         | 50                         | 19                         | 92                         |
| SS0124             |                                   | <5                         | <10                        | <0.5                         | 16                         | 102                        | 75                         | 30                         | 153                        |
| SS0125             |                                   | <5                         | <10                        | <0.5                         | 13                         | 76                         | 70                         | 28                         | 137                        |
| SS0126             |                                   | 14                         | <10                        | <0.5                         | 16                         | 83                         | 39                         | 29                         | 80                         |
| SS0127             |                                   | <5                         | <10                        | <0.5                         | 12                         | 87                         | 56                         | 27                         | 97                         |
| SS0128             |                                   | <5                         | <10                        | <0.5                         | 18                         | 78                         | 41                         | 33                         | 76                         |
| SS0129             |                                   | <5                         | <10                        | <0.5                         | 10                         | 79                         | 53                         | 28                         | 92                         |
| SS0130             |                                   | <5                         | <10                        | <0.5                         | 12                         | 58                         | 44                         | 23                         | 83                         |
| SS0131             |                                   | 6                          | 10                         | <0.5                         | 13                         | 69                         | 47                         | 29                         | 85                         |
| SS0132             |                                   | 73                         | <10                        | <0.5                         | 6                          | 40                         | 43                         | 25                         | 107                        |
| SS0133             |                                   | 112                        | <10                        | <0.5                         | 7                          | 13                         | 13                         | 29                         | 41                         |
| SS0134             |                                   | 30                         | <10                        | <0.5                         | <5                         | 11                         | 9                          | 22                         | 31                         |
| SS0135             |                                   | 45                         | <10                        | <0.5                         | 8                          | 10                         | 9                          | 31                         | 40                         |
| SS0136             |                                   | 33                         | 10                         | <0.5                         | <5                         | 5                          | 3                          | 19                         | 20                         |
| SS0137             |                                   | 55                         | 10                         | <0.5                         | <5                         | 5                          | 3                          | 13                         | 13                         |
| SS0138             |                                   | 24                         | <10                        | <0.5                         | 13                         | 10                         | 16                         | 46                         | 60                         |
| SS0139             |                                   | 47                         | 10                         | <0.5                         | <5                         | 17                         | 9                          | 17                         | 28                         |
| SS0140             |                                   | 30                         | 10                         | <0.5                         | <5                         | 13                         | 15                         | 19                         | 43                         |
| SS0141             |                                   | 72                         | 10                         | <0.5                         | <5                         | 24                         | 26                         | 40                         | 58                         |
| SS0142             |                                   | 77                         | 10                         | <0.5                         | <5                         | 14                         | 7                          | 14                         | 18                         |
| SS0143             |                                   | 69                         | <10                        | <0.5                         | 8                          | 47                         | 54                         | 56                         | 111                        |
| SS0144             |                                   | 45                         | <10                        | <0.5                         | 13                         | 13                         | 19                         | 58                         | 84                         |
| SS0145             |                                   | 116                        | <10                        | <0.5                         | 5                          | 47                         | 50                         | 43                         | 118                        |
| SS0146             |                                   | 90                         | <10                        | <0.5                         | 6                          | 17                         | 17                         | 37                         | 47                         |
| SS0147             |                                   | 112                        | <10                        | <0.5                         | <5                         | 9                          | 6                          | 23                         | 22                         |
| SS0148             |                                   | 33                         | <10                        | <0.5                         | 8                          | 9                          | 9                          | 33                         | 39                         |
| SS0149             |                                   | 11                         | <10                        | <0.5                         | <5                         | 12                         | 34                         | 16                         | 31                         |
| SS0150             |                                   | 12                         | <10                        | <0.5                         | <5                         | 9                          | 21                         | 16                         | 23                         |
| SS0151             |                                   | <5                         | 10                         | <0.5                         | <5                         | 8                          | 22                         | 22                         | 26                         |
| SS0152             |                                   | 6                          | <10                        | <0.5                         | <5                         | 34                         | 106                        | 20                         | 58                         |
| SS0153             |                                   | 9                          | <10                        | <0.5                         | 6                          | 32                         | 89                         | 24                         | 66                         |
| SS0154             |                                   | 12                         | <10                        | <0.5                         | <5                         | 5                          | 12                         | 17                         | 17                         |
| SS0155             |                                   | 8                          | <10                        | <0.5                         | <5                         | 9                          | 24                         | 12                         | 30                         |
| SS0156             |                                   | <5                         | <10                        | <0.5                         | <5                         | 25                         | 52                         | 36                         | 53                         |
| SS0157             |                                   | <5                         | <10                        | <0.5                         | <5                         | 34                         | 126                        | 25                         | 71                         |
| SS0158             |                                   | <5                         | <10                        | <0.5                         | 5                          | 51                         | 183                        | 23                         | 129                        |
| SS0159             |                                   | 14                         | 10                         | <0.5                         | 5                          | 13                         | 43                         | 13                         | 40                         |



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Project: ME-ICP61, XRF-05

**CERTIFICATE OF ANALYSIS BR11098992**

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-XRF05<br>Sn<br>ppm<br>5 | ME-XRF05<br>W<br>ppm<br>10 | ME-ICP61<br>Ag<br>ppm<br>0.5 | ME-ICP61<br>As<br>ppm<br>5 | ME-ICP61<br>Cu<br>ppm<br>1 | ME-ICP61<br>Ni<br>ppm<br>1 | ME-ICP61<br>Pb<br>ppm<br>2 | ME-ICP61<br>Zn<br>ppm<br>2 |
|--------------------|-----------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| SS0160             |                                   | 63                         | <10                        | <0.5                         | 5                          | 10                         | 14                         | 34                         | 38                         |
| SS0161             |                                   | 7                          | <10                        | <0.5                         | 8                          | 18                         | 48                         | 14                         | 46                         |
| SS0162             |                                   | 132                        | <10                        | <0.5                         | <5                         | 18                         | 33                         | 30                         | 41                         |
| SS0163             |                                   | 47                         | <10                        | <0.5                         | <5                         | 11                         | 14                         | 23                         | 36                         |
| SS0164             |                                   | 35                         | 10                         | <0.5                         | 17                         | 11                         | 14                         | 43                         | 52                         |
| SS0165             |                                   | 42                         | <10                        | <0.5                         | 9                          | 9                          | 16                         | 39                         | 51                         |
| SS0166             |                                   | 47                         | 10                         | <0.5                         | 19                         | 17                         | 24                         | 51                         | 69                         |
| SS0167             |                                   | 29                         | <10                        | <0.5                         | <5                         | 9                          | 7                          | 27                         | 33                         |
| SS0168             |                                   | 43                         | <10                        | <0.5                         | <5                         | 13                         | 13                         | 29                         | 35                         |
| SS0169             |                                   | 31                         | 10                         | <0.5                         | 11                         | 43                         | 68                         | 30                         | 123                        |
| SS0170             |                                   | 44                         | <10                        | <0.5                         | 6                          | 18                         | 29                         | 29                         | 38                         |
| SS0171             |                                   | 15                         | <10                        | <0.5                         | <5                         | 10                         | 12                         | 8                          | 14                         |
| SS0172             |                                   | 18                         | <10                        | <0.5                         | <5                         | 14                         | 29                         | 17                         | 27                         |
| SS0173             |                                   | 5                          | <10                        | <0.5                         | <5                         | 15                         | 32                         | 21                         | 46                         |
| SS0174             |                                   | <5                         | <10                        | <0.5                         | 7                          | 26                         | 76                         | 25                         | 72                         |
| SS0175             |                                   | 9                          | <10                        | <0.5                         | <5                         | 20                         | 61                         | 15                         | 57                         |
| SS0176             |                                   | <5                         | <10                        | <0.5                         | 8                          | 20                         | 58                         | 26                         | 77                         |
| SS0177             |                                   | 47                         | <10                        | <0.5                         | 11                         | 11                         | 13                         | 40                         | 51                         |
| SS0178             |                                   | 44                         | <10                        | <0.5                         | <5                         | 16                         | 25                         | 25                         | 41                         |
| SS0179             |                                   | 57                         | <10                        | <0.5                         | 12                         | 11                         | 17                         | 37                         | 66                         |
| SS0180             |                                   | 32                         | 10                         | <0.5                         | 5                          | 6                          | 3                          | 23                         | 24                         |
| SS0181             |                                   | 16                         | <10                        | <0.5                         | <5                         | 21                         | 43                         | 34                         | 44                         |
| SS0182             |                                   | 54                         | 10                         | <0.5                         | 6                          | 10                         | 14                         | 43                         | 51                         |
| SS0183             |                                   | 25                         | <10                        | <0.5                         | <5                         | 15                         | 21                         | 32                         | 36                         |
| SS0184             |                                   | 64                         | <10                        | <0.5                         | <5                         | 20                         | 32                         | 49                         | 64                         |
| SS0185             |                                   | 42                         | <10                        | <0.5                         | <5                         | 11                         | 10                         | 33                         | 38                         |
| SS0186             |                                   | 21                         | <10                        | <0.5                         | <5                         | 15                         | 27                         | 19                         | 24                         |
| SS0187             |                                   | 59                         | <10                        | <0.5                         | <5                         | 8                          | 7                          | 23                         | 20                         |
| SS0188             |                                   | 28                         | <10                        | <0.5                         | 9                          | 10                         | 11                         | 34                         | 41                         |
| SS0189             |                                   | <5                         | <10                        | <0.5                         | 18                         | 60                         | 45                         | 30                         | 109                        |
| SS0190             |                                   | <5                         | <10                        | <0.5                         | 16                         | 48                         | 39                         | 24                         | 95                         |
| SS0191             |                                   | <5                         | <10                        | <0.5                         | 10                         | 50                         | 45                         | 21                         | 113                        |
| SS0192             |                                   | <5                         | 10                         | <0.5                         | 8                          | 62                         | 46                         | 25                         | 119                        |
| SS0193             |                                   | <5                         | <10                        | <0.5                         | 15                         | 112                        | 72                         | 34                         | 126                        |
| SS0194             |                                   | 32                         | 10                         | 0.9                          | 15                         | 128                        | 65                         | 27                         | 128                        |
| SS0195             |                                   | 82                         | <10                        | <0.5                         | 14                         | 28                         | 37                         | 67                         | 98                         |
| SS0196             |                                   | 86                         | <10                        | <0.5                         | 10                         | 32                         | 37                         | 53                         | 102                        |
| SS0197             |                                   | 38                         | <10                        | <0.5                         | 10                         | 10                         | 14                         | 39                         | 53                         |
| SS0198             |                                   | 42                         | <10                        | <0.5                         | 5                          | 14                         | 14                         | 49                         | 59                         |
| SS0199             |                                   | 69                         | <10                        | <0.5                         | 12                         | 17                         | 19                         | 53                         | 56                         |



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| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-XRF05<br>Sn<br>ppm<br>5 | ME-XRF05<br>W<br>ppm<br>10 | ME-ICP61<br>Ag<br>ppm<br>0.5 | ME-ICP61<br>As<br>ppm<br>5 | ME-ICP61<br>Cu<br>ppm<br>1 | ME-ICP61<br>Ni<br>ppm<br>1 | ME-ICP61<br>Pb<br>ppm<br>2 | ME-ICP61<br>Zn<br>ppm<br>2 |
|--------------------|-----------------------------------|----------------------------|----------------------------|------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| SS0200             |                                   | 69                         | <10                        | <0.5                         | 7                          | 15                         | 17                         | 52                         | 65                         |
| SS0201             |                                   | 83                         | <10                        | <0.5                         | 10                         | 13                         | 15                         | 40                         | 50                         |
| SS0202             |                                   | 99                         | <10                        | <0.5                         | <5                         | 11                         | 8                          | 26                         | 29                         |
| SS0203             |                                   | 19                         | 10                         | <0.5                         | 15                         | 146                        | 91                         | 40                         | 154                        |
| SS0204             |                                   | <5                         | 10                         | <0.5                         | 18                         | 104                        | 61                         | 33                         | 110                        |
| SS0205             |                                   | <5                         | 10                         | <0.5                         | 20                         | 93                         | 63                         | 46                         | 108                        |
| SS0206             |                                   | 19                         | <10                        | <0.5                         | 14                         | 57                         | 52                         | 26                         | 100                        |
| SS0207             |                                   | <5                         | <10                        | <0.5                         | 15                         | 73                         | 56                         | 26                         | 117                        |
| SS0208             |                                   | 8                          | 10                         | <0.5                         | 17                         | 159                        | 81                         | 35                         | 166                        |
| SS0209             |                                   | 44                         | <10                        | <0.5                         | 19                         | 18                         | 22                         | 52                         | 80                         |
| SS0210             |                                   | 57                         | <10                        | <0.5                         | 6                          | 21                         | 31                         | 64                         | 61                         |
| SS0211             |                                   | 36                         | <10                        | <0.5                         | 14                         | 14                         | 12                         | 37                         | 40                         |
| SS0212             |                                   | 50                         | <10                        | <0.5                         | 5                          | 15                         | 16                         | 33                         | 34                         |
| SS0213             |                                   | 13                         | <10                        | <0.5                         | <5                         | 10                         | 20                         | 11                         | 19                         |
| SS0214             |                                   | 7                          | <10                        | <0.5                         | <5                         | 8                          | 21                         | 11                         | 29                         |
| SS0215             |                                   | 8                          | 10                         | <0.5                         | <5                         | 17                         | 48                         | 34                         | 57                         |
| SS0216             |                                   | 18                         | <10                        | <0.5                         | <5                         | 8                          | 11                         | 10                         | 13                         |
| SR0029             |                                   | <5                         | 10                         | <0.5                         | <5                         | 25                         | 45                         | 18                         | 209                        |
| SR0030             |                                   | <5                         | 20                         | <0.5                         | <5                         | 36                         | 25                         | 21                         | 185                        |
| SR0031             |                                   | <5                         | <10                        | <0.5                         | 15                         | 74                         | 111                        | 17                         | 223                        |
| SR0032             |                                   | 10                         | <10                        | <0.5                         | <5                         | 43                         | 13                         | 24                         | 23                         |
| SR0033             |                                   | 97                         | <10                        | <0.5                         | <5                         | 7                          | 6                          | 11                         | 9                          |
| SR0034             |                                   | <5                         | <10                        | <0.5                         | <5                         | 56                         | 200                        | 12                         | 146                        |
| SR0035             |                                   | 6                          | 10                         | <0.5                         | 28                         | 20                         | 89                         | 12                         | 215                        |
| SR0036             |                                   | <5                         | 20                         | <0.5                         | 27                         | 38                         | 54                         | 19                         | 295                        |
| SR0037             |                                   | <5                         | 10                         | <0.5                         | 5                          | 66                         | 108                        | 15                         | 188                        |
| SR0038             |                                   | <5                         | <10                        | <0.5                         | <5                         | 3                          | 1                          | 3                          | 3                          |
| SR0039             |                                   | <5                         | 10                         | <0.5                         | <5                         | 5                          | 98                         | 29                         | 192                        |
| SR0040             |                                   | <5                         | <10                        | <0.5                         | <5                         | 54                         | 209                        | 12                         | 137                        |
| SR0041             |                                   | <5                         | <10                        | <0.5                         | <5                         | 51                         | 211                        | 8                          | 133                        |
| SR0042             |                                   | <5                         | 10                         | <0.5                         | <5                         | 32                         | 62                         | 19                         | 192                        |