



NT ENVIRONMENTAL  
LABORATORIES

## NORTHERN TERRITORY ENVIRONMENTAL LABORATORIES

### CHEMICAL ANALYSIS REPORT

#### MAY DRILLING PTY LTD

PO BOX 2068  
HUMPTY DOO NT 0836  
AUS

**REPORT CODE:** NT35819  
**Report Date:** 22/04/2013  
**Samples Received:** 11/04/2013  
**Number of Samples:** 4

**Purchase Order:** SS 316501  
**Project:** \_\_\_\_\_  
**Cost Code:** \_\_\_\_\_

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**Report Details:** **NATA ACCREDITATION No: 14610**  
Test results only apply to samples received  
Samples were analysed between 11/04/13 and 22/04/13

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#### Comments:

#### Authorisation:

Fiona Dunbar-Smith

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**Methodology:**

| Analysis | Analytical Method | Technique | Accuracy/<br>Precision +/-% | Detection Limit | Data Units |
|----------|-------------------|-----------|-----------------------------|-----------------|------------|
| Ag       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Al       | AR05I             | ICPOES    | 10                          | 5               | ppm        |
| As       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |
| Au       | AR05M             | ICPMS     | 10                          | 5               | ppb        |
| B        | AR05M             | ICPMS     | 10                          | 5               | ppm        |
| Ba       | AR05M             | ICPMS     | 10                          | 1               | ppm        |
| Be       | AR05M             | ICPMS     | 10                          | 0.1             | ppm        |
| Bi       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Ca       | AR05I             | ICPOES    | 10                          | 10              | ppm        |
| Cd       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Ce       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Co       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Cr       | AR05M             | ICPMS     | 10                          | 1               | ppm        |
| Cs       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Cu       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |
| Fe       | AR05I             | ICPOES    | 10                          | 5               | ppm        |
| Ga       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Hf       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Hg       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| In       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| K        | AR05I             | ICPOES    | 10                          | 10              | ppm        |
| La       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Li       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Mg       | AR05I             | ICPOES    | 10                          | 10              | ppm        |
| Mn       | AR05M             | ICPMS     | 10                          | 1               | ppm        |
| Mo       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Na       | AR05I             | ICPOES    | 10                          | 10              | ppm        |
| Nb       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Ni       | AR05M             | ICPMS     | 10                          | 0.1             | ppm        |
| P        | AR05I             | ICPOES    | 10                          | 10              | ppm        |
| Pb       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |
| Pd       | AR05M             | ICPMS     | 10                          | 5               | ppb        |
| Pt       | AR05M             | ICPMS     | 10                          | 5               | ppb        |
| Rb       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Re       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| S        | AR05I             | ICPOES    | 10                          | 20              | ppm        |
| Sb       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Sc       | AR05M             | ICPMS     | 10                          | 0.1             | ppm        |
| Se       | AR05M             | ICPMS     | 10                          | 2               | ppm        |
| Sn       | AR05M             | ICPMS     | 10                          | 0.1             | ppm        |
| Sr       | AR05M             | ICPMS     | 10                          | 0.1             | ppm        |
| Ta       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Te       | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Th       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| Ti       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |
| Tl       | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| U        | AR05M             | ICPMS     | 10                          | 0.01            | ppm        |
| V        | AR05M             | ICPMS     | 10                          | 1               | ppm        |
| W        | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |
| Y        | AR05M             | ICPMS     | 10                          | 0.05            | ppm        |

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**Methodology:**

|          | Analytical Method | Technique | Accuracy/<br>Precision +/-% | Detection Limit | Data Units |
|----------|-------------------|-----------|-----------------------------|-----------------|------------|
| Analysis |                   |           |                             |                 |            |
| Zn       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |
| Zr       | AR05M             | ICPMS     | 10                          | 0.5             | ppm        |

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Project:

| Element:  |         | Ag    | Al    | As    | Au    | B     | Ba    | Be    | Bi    | Ca    |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sample ID | Method: | AR05M | AR05I | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M | AR05I |
|           | Units:  | ppm   | ppm   | ppm   | ppb   | ppm   | ppm   | ppm   | ppm   | ppm   |
| 60751     |         | <0.05 | 110   | 4.5   | <5    | <5    | 1     | <0.1  | <0.01 | 20    |
| 60752     |         | 0.10  | 385   | 6160  | 55    | <5    | 1     | 0.1   | 0.37  | 40    |
| 60753     |         | 0.05  | 810   | 2890  | 170   | <5    | 1     | 0.5   | 0.81  | 70    |
| 60754     |         | <0.05 | 5400  | 53.3  | 5     | <5    | 1     | 0.4   | 0.50  | 40    |

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Project:

| Sample ID | Element:          | Cd           | Ce           | Co           | Cr           | Cs           | Cu           | Fe           | Ga           | Hf           |
|-----------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|           | Method:<br>Units: | AR05M<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm | AR05M<br>ppm | AR05M<br>ppm |
| 60751     |                   | <0.05        | 0.25         | 0.36         | 77           | 0.04         | 4.0          | 1750         | 0.10         | <0.01        |
| 60752     |                   | <0.05        | 1.03         | 0.44         | 77           | 0.08         | 6.0          | 1.27%        | 0.25         | <0.01        |
| 60753     |                   | 0.10         | 2.50         | 1.36         | 79           | 0.13         | 8.0          | 2.79%        | 0.30         | <0.01        |
| 60754     |                   | <0.05        | 12.4         | 0.51         | 41           | 0.36         | 12.5         | 2.89%        | 3.30         | 0.29         |

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Project:

| Sample ID | Element:          | Hg           | In           | K            | La           | Li           | Mg           | Mn           | Mo           | Na           |
|-----------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|           | Method:<br>Units: | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm |
| 60751     |                   | <0.05        | <0.05        | 30           | 0.13         | 0.05         | 20           | 19           | 12.6         | 10           |
| 60752     |                   | <0.05        | <0.05        | 30           | 0.47         | 0.10         | 20           | 20           | 13.4         | 20           |
| 60753     |                   | <0.05        | <0.05        | 120          | 1.06         | 0.10         | 20           | 119          | 13.2         | 20           |
| 60754     |                   | <0.05        | <0.05        | 2310         | 5.69         | 4.10         | 450          | 30           | 4.15         | 40           |

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Project:

| Sample ID | Element:          | Nb           | Ni           | P            | Pb           | Pd           | Pt           | Rb           | Re           | S            |
|-----------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|           | Method:<br>Units: | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm | AR05M<br>ppm | AR05M<br>ppb | AR05M<br>ppb | AR05M<br>ppm | AR05M<br>ppm | AR05I<br>ppm |
| 60751     |                   | 0.01         | 5.0          | 10           | <0.5         | <5           | <5           | 0.40         | <0.05        | <20          |
| 60752     |                   | 0.02         | 5.2          | 30           | 1.5          | <5           | <5           | 0.75         | <0.05        | 180          |
| 60753     |                   | 0.05         | 6.9          | 90           | 3.0          | <5           | <5           | 1.60         | <0.05        | 720          |
| 60754     |                   | 0.04         | 2.5          | 310          | 4.0          | 5            | <5           | 8.65         | <0.05        | 80           |

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Project:

| Element:  |         | Sb    | Sc    | Se    | Sn    | Sr    | Ta    | Te    | Th    | Ti    |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Sample ID | Method: | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M |
|           | Units:  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
| 60751     |         | <0.05 | <0.1  | <2    | <0.1  | 0.3   | <0.01 | <0.05 | 0.05  | 2.5   |
| 60752     |         | 12.7  | <0.1  | <2    | 0.1   | 1.2   | <0.01 | 0.10  | 0.14  | 3.0   |
| 60753     |         | 25.7  | 0.2   | <2    | 0.2   | 1.3   | <0.01 | 0.50  | 0.50  | 12.5  |
| 60754     |         | 0.60  | 1.8   | <2    | 0.6   | 19.5  | <0.01 | 0.45  | 4.73  | 39.5  |



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Project:

| Element:  |         | Tl    | U     | V     | W     | Y     | Zn    | Zr    |
|-----------|---------|-------|-------|-------|-------|-------|-------|-------|
| Sample ID | Method: | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M | AR05M |
|           | Units:  | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   | ppm   |
| 60751     |         | <0.01 | 0.04  | 1     | 0.15  | 0.90  | <0.5  | <0.5  |
| 60752     |         | 0.01  | 0.12  | 1     | 198   | 0.35  | 1.0   | <0.5  |
| 60753     |         | 0.06  | 0.42  | 3     | 6.10  | 1.05  | 5.0   | <0.5  |
| 60754     |         | 0.05  | 0.68  | 18    | 0.30  | 0.95  | 8.5   | 9.5   |