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**QC CERTIFICATE PH11243734**

Project:  
P.O. No.: 93712  
This report is for 112 Soil samples submitted to our lab in Perth, WA, Australia on  
24-NOV-2011.

The following have access to data associated with this certificate:

GEOFF BOGIE

To: ONEVA EXPLORATION P/L  
ATTN: GEOFF BOGIE  
PO BOX 0845  
ALICE SPRINGS NT 0871

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.

**SAMPLE PREPARATION**

| ALS CODE | DESCRIPTION                  |
|----------|------------------------------|
| LEV-01   | Waste Disposal Levy          |
| LOG-24   | Pulp Login - Rcd w/o Barcode |

**ANALYTICAL PROCEDURES**

| ALS CODE | DESCRIPTION                 | INSTRUMENT |
|----------|-----------------------------|------------|
| ME-MS23  | IONIC Leach - Complete PKG. | ICP-MS     |
| pH-MS23  | MS23 Leach pH               |            |

Signature:

Wayne Abbott, Operations Manager, Western Australia

**QC CERTIFICATE OF ANALYSIS PH11243734**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Ag<br>ppb<br>0.1 | ME-MS23<br>As<br>ppb<br>2 | ME-MS23<br>Au<br>ppb<br>0.02 | ME-MS23<br>Ba<br>ppb<br>10 | ME-MS23<br>Be<br>ppb<br>0.2 | ME-MS23<br>Bi<br>ppb<br>3 | ME-MS23<br>Br<br>ppm<br>0.05 | ME-MS23<br>Ca<br>ppm<br>0.2 | ME-MS23<br>Cd<br>ppb<br>1 | ME-MS23<br>Ce<br>ppb<br>0.1 | ME-MS23<br>Co<br>ppb<br>0.3 | ME-MS23<br>Cr<br>ppb<br>1 | ME-MS23<br>Cs<br>ppb<br>0.1 | ME-MS23<br>Cu<br>ppb<br>1 | ME-MS23<br>Dy<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|------------------------------|-----------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------|---------------------------|-----------------------------|
| <b>STANDARDS</b>           |                                   |                             |                           |                              |                            |                             |                           |                              |                             |                           |                             |                             |                           |                             |                           |                             |
| ION-SRM18                  |                                   | 14.6                        | 7                         | 6.96                         | 200                        | <0.2                        | <3                        | 1.15                         | 149.0                       | 61                        | 15.2                        | 58.1                        | 5                         | 6.2                         | 701                       | 1.5                         |
| ION-SRM18                  |                                   | 18.5                        | 7                         | 7.64                         | 190                        | 0.2                         | <3                        | 1.54                         | 156.5                       | 71                        | 11.7                        | 62.1                        | 5                         | 7.6                         | 843                       | 1.2                         |
| ION-SRM18                  |                                   | 18.6                        | 8                         | 7.85                         | 210                        | 0.3                         | <3                        | 1.49                         | 145.5                       | 69                        | 14.5                        | 60.3                        | 6                         | 7.5                         | 798                       | 1.4                         |
| ION-SRM18                  |                                   | 18.1                        | 10                        | 7.35                         | 220                        | <0.2                        | <3                        | 1.48                         | 158.5                       | 71                        | 16.3                        | 65.3                        | 8                         | 7.7                         | 799                       | 1.5                         |
| ION-SRM18                  |                                   | 18.4                        | 7                         | 8.18                         | 200                        | 0.2                         | <3                        | 1.58                         | 169.5                       | 69                        | 15.9                        | 61.4                        | 4                         | 6.6                         | 778                       | 1.5                         |
| ION-SRM18                  |                                   | 18.0                        | 7                         | 7.21                         | 180                        | 0.3                         | <3                        | 1.52                         | 168.0                       | 70                        | 14.3                        | 56.4                        | 4                         | 6.6                         | 704                       | 1.3                         |
| Target Range - Lower Bound |                                   | 15.7                        | 3                         | 6.83                         | 180                        | <0.2                        | <3                        | 1.23                         | 139.5                       | 58                        | 13.6                        | 54.6                        | 3                         | 6.6                         | 693                       | 1.0                         |
| Upper Bound                |                                   | 19.4                        | 12                        | 8.39                         | 240                        | 0.6                         | 6                         | 1.61                         | 171.0                       | 73                        | 16.8                        | 67.3                        | 8                         | 8.2                         | 849                       | 1.6                         |
| <b>BLANKS</b>              |                                   |                             |                           |                              |                            |                             |                           |                              |                             |                           |                             |                             |                           |                             |                           |                             |
| BLANK                      |                                   | <0.1                        | <2                        | <0.02                        | <10                        | <0.2                        | <3                        | <0.05                        | 0.2                         | <1                        | <0.1                        | <0.3                        | 1                         | <0.1                        | 2                         | <0.1                        |
| BLANK                      |                                   | <0.1                        | <2                        | <0.02                        | <10                        | <0.2                        | <3                        | <0.05                        | <0.2                        | <1                        | 0.1                         | <0.3                        | <1                        | <0.1                        | <1                        | <0.1                        |
| BLANK                      |                                   | <0.1                        | <2                        | 0.02                         | <10                        | <0.2                        | <3                        | <0.05                        | 0.2                         | <1                        | 0.1                         | <0.3                        | <1                        | <0.1                        | 3                         | <0.1                        |
| Target Range - Lower Bound |                                   | <0.1                        | <2                        | <0.02                        | <10                        | <0.2                        | <3                        | <0.05                        | <0.2                        | <1                        | <0.1                        | <0.3                        | <1                        | <0.1                        | <1                        | <0.1                        |
| Upper Bound                |                                   | 0.2                         | 4                         | 0.04                         | 20                         | 0.4                         | 6                         | 0.10                         | 0.4                         | 2                         | 0.2                         | 0.6                         | 2                         | 0.2                         | 2                         | 0.2                         |
| <b>DUPLICATES</b>          |                                   |                             |                           |                              |                            |                             |                           |                              |                             |                           |                             |                             |                           |                             |                           |                             |
| UOL110                     |                                   | 4.0                         | 2                         | 0.07                         | 940                        | 0.3                         | <3                        | 0.14                         | 399                         | 4                         | 20.0                        | 29.0                        | 1                         | 3.4                         | 1260                      | 72.8                        |
| DUP                        |                                   | 3.9                         | <2                        | 0.08                         | 940                        | <0.2                        | <3                        | 0.13                         | 421                         | 4                         | 19.7                        | 24.6                        | 1                         | 3.5                         | 1220                      | 55.7                        |
| Target Range - Lower Bound |                                   | 3.7                         | <2                        | 0.05                         | 880                        | <0.2                        | <3                        | 0.08                         | 389                         | 3                         | 18.8                        | 25.2                        | <1                        | 3.2                         | 1175                      | 60.9                        |
| Upper Bound                |                                   | 4.2                         | 4                         | 0.10                         | 1000                       | 0.4                         | 6                         | 0.19                         | 431                         | 5                         | 20.9                        | 28.4                        | 2                         | 3.7                         | 1305                      | 67.6                        |
| UOL120                     |                                   | 1.8                         | <2                        | 0.14                         | 310                        | 0.5                         | <3                        | 0.06                         | 155.5                       | 2                         | 163.5                       | 116.5                       | 16                        | 4.4                         | 775                       | 94.0                        |
| DUP                        |                                   | 1.5                         | <2                        | 0.12                         | 300                        | 0.4                         | <3                        | <0.05                        | 143.0                       | 2                         | 166.0                       | 100.0                       | 15                        | 4.1                         | 774                       | 89.6                        |
| Target Range - Lower Bound |                                   | 1.5                         | <2                        | 0.10                         | 280                        | <0.2                        | <3                        | <0.05                        | 141.5                       | <1                        | 156.5                       | 102.5                       | 14                        | 3.9                         | 735                       | 87.1                        |
| Upper Bound                |                                   | 1.8                         | 4                         | 0.16                         | 330                        | 0.7                         | 6                         | 0.10                         | 157.0                       | 3                         | 173.0                       | 114.0                       | 17                        | 4.6                         | 814                       | 96.5                        |
| UOL201                     |                                   | 2.1                         | 2                         | 0.07                         | 460                        | 0.3                         | <3                        | 0.05                         | 176.0                       | 2                         | 132.5                       | 105.0                       | 6                         | 4.7                         | 834                       | 53.8                        |
| DUP                        |                                   | 1.8                         | <2                        | 0.08                         | 390                        | 0.2                         | <3                        | 0.06                         | 146.0                       | 2                         | 150.0                       | 93.1                        | 4                         | 4.0                         | 811                       | 64.5                        |
| Target Range - Lower Bound |                                   | 1.8                         | <2                        | 0.05                         | 390                        | <0.2                        | <3                        | <0.05                        | 153.0                       | <1                        | 134.0                       | 93.8                        | 4                         | 4.0                         | 780                       | 56.1                        |
| Upper Bound                |                                   | 2.1                         | 4                         | 0.10                         | 460                        | 0.4                         | 6                         | 0.10                         | 169.5                       | 3                         | 148.5                       | 104.5                       | 6                         | 4.7                         | 865                       | 62.2                        |

**QC CERTIFICATE OF ANALYSIS PH11243734**

| Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Er<br>ppb<br>0.1 | ME-MS23<br>Eu<br>ppb<br>0.1 | ME-MS23<br>Fe<br>ppm<br>0.1 | ME-MS23<br>Ga<br>ppb<br>0.5 | ME-MS23<br>Gd<br>ppb<br>0.1 | ME-MS23<br>Ge<br>ppb<br>0.1 | ME-MS23<br>Hf<br>ppb<br>0.5 | ME-MS23<br>Hg<br>ppb<br>0.1 | ME-MS23<br>Ho<br>ppb<br>0.1 | ME-MS23<br>I<br>ppm<br>0.01 | ME-MS23<br>In<br>ppb<br>0.1 | ME-MS23<br>La<br>ppb<br>0.1 | ME-MS23<br>Li<br>ppb<br>0.2 | ME-MS23<br>Lu<br>ppb<br>0.1 | ME-MS23<br>Mg<br>ppm<br>0.01 |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| Sample Description                |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                              |
| <b>STANDARDS</b>                  |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                              |
| ION-SRM18                         | 0.9                         | 1.0                         | 2.4                         | 4.5                         | 3.1                         | <0.1                        | 0.5                         | 4.6                         | 0.4                         | 0.14                        | <0.1                        | 5.1                         | 0.3                         | 0.1                         | 69.8                         |
| ION-SRM18                         | 0.7                         | 0.8                         | 2.3                         | 6.4                         | 2.3                         | <0.1                        | <0.5                        | 4.3                         | 0.3                         | 0.14                        | <0.1                        | 3.9                         | 0.2                         | <0.1                        | 80.2                         |
| ION-SRM18                         | 0.8                         | 0.8                         | 2.1                         | 4.8                         | 2.8                         | 0.1                         | 0.5                         | 4.1                         | 0.3                         | 0.14                        | <0.1                        | 4.5                         | 0.3                         | 0.1                         | 77.7                         |
| ION-SRM18                         | 0.9                         | 1.0                         | 2.6                         | 5.6                         | 3.3                         | <0.1                        | 0.5                         | 4.6                         | 0.4                         | 0.16                        | <0.1                        | 5.4                         | 0.5                         | <0.1                        | 80.6                         |
| ION-SRM18                         | 0.7                         | 1.0                         | 2.5                         | 4.7                         | 3.2                         | 4.8                         | <0.5                        | 4.6                         | 0.3                         | 0.16                        | <0.1                        | 5.1                         | 0.2                         | <0.1                        | 80.5                         |
| ION-SRM18                         | 0.6                         | 0.8                         | 2.4                         | 4.7                         | 2.7                         | 2.6                         | <0.5                        | 3.7                         | 0.2                         | 0.16                        | <0.1                        | 4.8                         | 0.4                         | <0.1                        | 74.5                         |
| Target Range - Lower Bound        | 0.5                         | 0.6                         | 2.0                         | 4.3                         | 2.5                         | <0.1                        | <0.5                        | 3.7                         | <0.1                        | 0.12                        | <0.1                        | 4.4                         | <0.2                        | <0.1                        | 66.4                         |
| Upper Bound                       | 0.9                         | 1.0                         | 2.7                         | 6.9                         | 3.3                         | 0.2                         | 1.2                         | 4.8                         | 0.4                         | 0.18                        | 0.3                         | 5.6                         | 0.7                         | 0.2                         | 81.2                         |
| <b>BLANKS</b>                     |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                              |
| BLANK                             | <0.1                        | <0.1                        | <0.1                        | 0.6                         | <0.1                        | <0.1                        | <0.5                        | <0.1                        | <0.1                        | <0.01                       | <0.1                        | 0.2                         | 0.2                         | <0.1                        | 0.01                         |
| BLANK                             | <0.1                        | <0.1                        | <0.1                        | <0.5                        | <0.1                        | 0.2                         | <0.5                        | <0.1                        | <0.1                        | <0.01                       | <0.1                        | <0.1                        | 0.2                         | <0.1                        | <0.01                        |
| BLANK                             | <0.1                        | 0.1                         | <0.1                        | <0.5                        | <0.1                        | 11.1                        | <0.5                        | 0.1                         | <0.1                        | <0.01                       | <0.1                        | 0.1                         | <0.2                        | <0.1                        | <0.01                        |
| Target Range - Lower Bound        | <0.1                        | <0.1                        | <0.1                        | <0.5                        | <0.1                        | <0.1                        | <0.5                        | <0.1                        | <0.1                        | <0.01                       | <0.1                        | <0.1                        | <0.2                        | <0.1                        | <0.01                        |
| Upper Bound                       | 0.2                         | 0.2                         | 0.2                         | 1.0                         | 0.2                         | 0.2                         | 1.0                         | 0.2                         | 0.2                         | 0.02                        | 0.2                         | 0.2                         | 0.4                         | 0.2                         | 0.02                         |
| <b>DUPLICATES</b>                 |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                             |                              |
| UOL110                            | 57.3                        | 26.2                        | 3.4                         | 28.7                        | 101.5                       | 1.0                         | 0.8                         | 1.8                         | 23.0                        | 0.05                        | <0.1                        | 37.6                        | 0.4                         | 5.8                         | 82.4                         |
| DUP                               | 42.9                        | 22.0                        | 3.2                         | 26.8                        | 85.8                        | 0.9                         | 0.7                         | 1.7                         | 17.4                        | 0.05                        | <0.1                        | 38.5                        | 0.2                         | 4.3                         | 86.7                         |
| Target Range - Lower Bound        | 47.5                        | 22.8                        | 3.0                         | 25.9                        | 88.9                        | 0.8                         | <0.5                        | 1.6                         | 19.1                        | 0.04                        | <0.1                        | 36.0                        | <0.2                        | 4.7                         | 80.3                         |
| Upper Bound                       | 52.7                        | 25.4                        | 3.6                         | 29.6                        | 98.4                        | 1.1                         | 1.0                         | 1.9                         | 21.3                        | 0.06                        | 0.2                         | 40.1                        | 0.4                         | 5.4                         | 88.8                         |
| UOL120                            | 92.2                        | 39.1                        | 4.6                         | 12.0                        | 130.5                       | 1.9                         | 1.2                         | 1.4                         | 31.6                        | 0.15                        | 0.1                         | 93.7                        | 3.2                         | 13.5                        | 48.4                         |
| DUP                               | 79.4                        | 38.7                        | 3.7                         | 11.4                        | 127.5                       | 1.8                         | 1.0                         | 1.1                         | 28.6                        | 0.13                        | <0.1                        | 95.8                        | 2.3                         | 11.0                        | 41.7                         |
| Target Range - Lower Bound        | 81.4                        | 36.9                        | 3.8                         | 10.6                        | 122.5                       | 1.7                         | <0.5                        | 1.1                         | 28.5                        | 0.12                        | <0.1                        | 89.9                        | 2.4                         | 11.5                        | 42.8                         |
| Upper Bound                       | 90.2                        | 40.9                        | 4.5                         | 12.8                        | 135.5                       | 2.0                         | 1.7                         | 1.4                         | 31.7                        | 0.16                        | 0.2                         | 99.6                        | 3.1                         | 13.0                        | 47.3                         |
| UOL201                            | 45.0                        | 24.7                        | 5.4                         | 16.3                        | 80.7                        | 1.3                         | 0.8                         | 0.8                         | 16.6                        | 0.10                        | <0.1                        | 70.9                        | 3.8                         | 5.3                         | 42.2                         |
| DUP                               | 56.3                        | 28.4                        | 3.5                         | 14.8                        | 92.6                        | 1.5                         | 0.9                         | 0.8                         | 20.7                        | 0.08                        | <0.1                        | 77.4                        | 1.4                         | 7.1                         | 35.4                         |
| Target Range - Lower Bound        | 48.0                        | 25.1                        | 4.1                         | 14.3                        | 82.2                        | 1.2                         | <0.5                        | 0.7                         | 17.6                        | 0.08                        | <0.1                        | 70.3                        | 2.3                         | 5.8                         | 36.9                         |
| Upper Bound                       | 53.3                        | 28.0                        | 4.8                         | 16.8                        | 91.1                        | 1.6                         | 1.0                         | 0.9                         | 19.7                        | 0.10                        | 0.2                         | 78.0                        | 2.9                         | 6.6                         | 40.8                         |

**QC CERTIFICATE OF ANALYSIS PH11243734**

| Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Mn<br>ppm<br>0.01 | ME-MS23<br>Mo<br>ppb<br>0.5 | ME-MS23<br>Nb<br>ppb<br>0.1 | ME-MS23<br>Nd<br>ppb<br>0.1 | ME-MS23<br>Ni<br>ppb<br>1 | ME-MS23<br>Pb<br>ppb<br>1 | ME-MS23<br>Pb 206<br>ppb<br>1 | ME-MS23<br>Pb 207<br>ppb<br>1 | ME-MS23<br>Pb 208<br>ppb<br>1 | ME-MS23<br>Pd<br>ppb<br>0.1 | ME-MS23<br>Pr<br>ppb<br>0.1 | ME-MS23<br>Rb<br>ppb<br>0.1 | ME-MS23<br>Re<br>ppb<br>0.1 | ME-MS23<br>Sb<br>ppb<br>0.5 | ME-MS23<br>Sc<br>ppb<br>1 |
|-----------------------------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|
| <b>Sample Description</b>         |                              |                             |                             |                             |                           |                           |                               |                               |                               |                             |                             |                             |                             |                             |                           |
| <b>STANDARDS</b>                  |                              |                             |                             |                             |                           |                           |                               |                               |                               |                             |                             |                             |                             |                             |                           |
| ION-SRM18                         | 0.46                         | 25.6                        | 0.1                         | 14.0                        | 519                       | 90                        | 22                            | 20                            | 47                            | 10.3                        | 2.2                         | 130.5                       | <0.1                        | <0.5                        | 2                         |
| ION-SRM18                         | 0.50                         | 31.9                        | 0.1                         | 11.4                        | 576                       | 81                        | 20                            | 17                            | 42                            | 12.4                        | 1.7                         | 186.0                       | <0.1                        | <0.5                        | 3                         |
| ION-SRM18                         | 0.47                         | 29.2                        | 0.1                         | 11.6                        | 563                       | 81                        | 20                            | 18                            | 42                            | 12.9                        | 2.0                         | 165.0                       | <0.1                        | <0.5                        | 3                         |
| ION-SRM18                         | 0.51                         | 30.2                        | 0.1                         | 13.5                        | 568                       | 78                        | 18                            | 17                            | 41                            | 12.1                        | 2.3                         | 171.5                       | <0.1                        | <0.5                        | 4                         |
| ION-SRM18                         | 0.45                         | 29.3                        | 0.1                         | 13.8                        | 577                       | 86                        | 21                            | 18                            | 45                            | 11.9                        | 2.1                         | 171.0                       | <0.1                        | <0.5                        | 2                         |
| ION-SRM18                         | 0.42                         | 30.1                        | 0.1                         | 11.7                        | 534                       | 80                        | 19                            | 17                            | 43                            | 12.1                        | 1.9                         | 175.5                       | <0.1                        | <0.5                        | 2                         |
| Target Range - Lower Bound        | 0.41                         | 26.3                        | <0.1                        | 11.4                        | 495                       | 77                        | 17                            | 17                            | 17                            | 10.6                        | 1.7                         | 156.5                       | <0.1                        | <0.5                        | <1                        |
| Upper Bound                       | 0.53                         | 33.3                        | 0.2                         | 14.2                        | 607                       | 97                        | 23                            | 23                            | 23                            | 13.2                        | 2.3                         | 191.5                       | 0.2                         | 1.1                         | 5                         |
| <b>BLANKS</b>                     |                              |                             |                             |                             |                           |                           |                               |                               |                               |                             |                             |                             |                             |                             |                           |
| BLANK                             | <0.01                        | <0.5                        | <0.1                        | <0.1                        | <1                        | 8                         | 2                             | 2                             | 4                             | <0.1                        | <0.1                        | 0.2                         | <0.1                        | <0.5                        | <1                        |
| BLANK                             | <0.01                        | <0.5                        | <0.1                        | 0.3                         | <1                        | 11                        | 3                             | 2                             | 6                             | <0.1                        | <0.1                        | <0.1                        | <0.1                        | <0.5                        | <1                        |
| BLANK                             | <0.01                        | <0.5                        | <0.1                        | <0.1                        | 134                       | 10                        | 2                             | 2                             | 5                             | <0.1                        | <0.1                        | <0.1                        | <0.1                        | <0.5                        | <1                        |
| Target Range - Lower Bound        | <0.01                        | <0.5                        | <0.1                        | <0.1                        | <1                        | <1                        | <1                            | <1                            | <1                            | <0.1                        | <0.1                        | <0.1                        | <0.1                        | <0.5                        | <1                        |
| Upper Bound                       | 0.02                         | 1.0                         | 0.2                         | 0.2                         | 2                         | 2                         | 2                             | 2                             | 2                             | 0.2                         | 0.2                         | 0.2                         | 0.2                         | 1.0                         | 2                         |
| <b>DUPLICATES</b>                 |                              |                             |                             |                             |                           |                           |                               |                               |                               |                             |                             |                             |                             |                             |                           |
| UOL110                            | 1.22                         | 11.4                        | <0.1                        | 202                         | 460                       | 20                        | 5                             | 4                             | 10                            | 3.9                         | 24.1                        | 233                         | <0.1                        | <0.5                        | 7                         |
| DUP                               | 1.13                         | 10.8                        | 0.1                         | 185.5                       | 443                       | 13                        | 3                             | 3                             | 7                             | 2.9                         | 23.1                        | 214                         | <0.1                        | <0.5                        | 7                         |
| Target Range - Lower Bound        | 1.11                         | 10.0                        | <0.1                        | 184.0                       | 428                       | 15                        | 3                             | 2                             | 7                             | 3.1                         | 22.3                        | 212                         | <0.1                        | <0.5                        | 6                         |
| Upper Bound                       | 1.24                         | 12.2                        | 0.2                         | 204                         | 475                       | 18                        | 5                             | 5                             | 10                            | 3.7                         | 24.9                        | 235                         | 0.2                         | 1.0                         | 8                         |
| UOL120                            | 2.93                         | 9.2                         | 0.5                         | 396                         | 264                       | 48                        | 13                            | 10                            | 25                            | 3.9                         | 58.3                        | 318                         | <0.1                        | <0.5                        | 61                        |
| DUP                               | 2.75                         | 8.7                         | 0.2                         | 422                         | 258                       | 40                        | 10                            | 8                             | 21                            | 3.1                         | 61.7                        | 270                         | <0.1                        | <0.5                        | 45                        |
| Target Range - Lower Bound        | 2.69                         | 8.0                         | 0.2                         | 388                         | 247                       | 41                        | 10                            | 8                             | 21                            | 3.2                         | 56.9                        | 279                         | <0.1                        | <0.5                        | 49                        |
| Upper Bound                       | 2.99                         | 9.9                         | 0.5                         | 430                         | 275                       | 47                        | 13                            | 10                            | 25                            | 3.8                         | 63.1                        | 309                         | 0.2                         | 1.0                         | 57                        |
| UOL201                            | 2.65                         | 8.2                         | 0.6                         | 276                         | 226                       | 44                        | 11                            | 9                             | 23                            | 2.5                         | 41.3                        | 233                         | <0.1                        | <0.5                        | 37                        |
| DUP                               | 2.35                         | 8.0                         | 0.3                         | 309                         | 211                       | 44                        | 11                            | 9                             | 23                            | 2.3                         | 47.4                        | 248                         | <0.1                        | <0.5                        | 37                        |
| Target Range - Lower Bound        | 2.37                         | 7.2                         | 0.3                         | 278                         | 207                       | 41                        | 9                             | 8                             | 21                            | 2.2                         | 42.0                        | 228                         | <0.1                        | <0.5                        | 34                        |
| Upper Bound                       | 2.64                         | 9.0                         | 0.6                         | 307                         | 230                       | 47                        | 13                            | 10                            | 25                            | 2.6                         | 46.7                        | 253                         | 0.2                         | 1.0                         | 40                        |

**QC CERTIFICATE OF ANALYSIS PH11243734**

| Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Se<br>ppb<br>2 | ME-MS23<br>Sm<br>ppb<br>0.1 | ME-MS23<br>Sn<br>ppb<br>0.2 | ME-MS23<br>Sr<br>ppb<br>1 | ME-MS23<br>Ta<br>ppb<br>1 | ME-MS23<br>Tb<br>ppb<br>0.1 | ME-MS23<br>Te<br>ppb<br>1 | ME-MS23<br>Th<br>ppb<br>0.02 | ME-MS23<br>Ti<br>ppb<br>5 | ME-MS23<br>Tl<br>ppb<br>0.5 | ME-MS23<br>Tm<br>ppb<br>0.1 | ME-MS23<br>U<br>ppb<br>0.1 | ME-MS23<br>W<br>ppb<br>1 | ME-MS23<br>Y<br>ppb<br>0.1 | ME-MS23<br>Yb<br>ppb<br>0.1 |
|-----------------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|-----------------------------|
| Sample Description                |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |                             |
| <b>STANDARDS</b>                  |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |                             |
| ION-SRM18                         | 12                        | 3.1                         | <0.2                        | 949                       | <1                        | 0.5                         | 1                         | 3.63                         | 25                        | <0.5                        | 0.1                         | 10.7                       | <1                       | 8.9                        | 0.5                         |
| ION-SRM18                         | 10                        | 2.5                         | <0.2                        | 1240                      | <1                        | 0.4                         | <1                        | 2.46                         | 17                        | <0.5                        | 0.1                         | 7.8                        | <1                       | 9.6                        | 0.3                         |
| ION-SRM18                         | 11                        | 3.0                         | <0.2                        | 1030                      | <1                        | 0.5                         | <1                        | 3.12                         | 21                        | <0.5                        | 0.1                         | 9.2                        | <1                       | 8.6                        | 0.4                         |
| ION-SRM18                         | 8                         | 3.3                         | 0.2                         | 1160                      | <1                        | 0.5                         | <1                        | 3.64                         | 37                        | <0.5                        | 0.1                         | 10.4                       | <1                       | 9.9                        | 0.4                         |
| ION-SRM18                         | 9                         | 3.2                         | <0.2                        | 1120                      | <1                        | 0.4                         | 1                         | 3.68                         | 19                        | <0.5                        | 0.1                         | 10.8                       | <1                       | 8.8                        | 0.4                         |
| ION-SRM18                         | 8                         | 2.7                         | <0.2                        | 1110                      | <1                        | 0.3                         | <1                        | 3.42                         | 29                        | <0.5                        | 0.1                         | 10.1                       | <1                       | 9.5                        | 0.3                         |
| Target Range - Lower Bound        | 12                        | 2.5                         | <0.2                        | 1010                      | <1                        | 0.2                         | <1                        | 3.11                         | 21                        | <0.5                        | <0.1                        | 8.7                        | <1                       | 8.1                        | <0.1                        |
| Upper Bound                       | 22                        | 3.3                         | 0.4                         | 1235                      | 3                         | 0.6                         | 2                         | 3.85                         | 44                        | 1.1                         | 0.2                         | 10.8                       | 2                        | 10.1                       | 0.5                         |
| <b>BLANKS</b>                     |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |                             |
| BLANK                             | <2                        | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | 1                         | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       | <0.1                        |
| BLANK                             | <2                        | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | 1                         | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       | <0.1                        |
| BLANK                             | <2                        | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | 1                         | 0.03                         | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       | <0.1                        |
| Target Range - Lower Bound        | <2                        | <0.1                        | <0.2                        | <1                        | <1                        | <0.1                        | <1                        | <0.02                        | <5                        | <0.5                        | <0.1                        | <0.1                       | <1                       | <0.1                       | <0.1                        |
| Upper Bound                       | 4                         | 0.2                         | 0.4                         | 2                         | 2                         | 0.2                         | 2                         | 0.04                         | 10                        | 1.0                         | 0.2                         | 0.2                        | 2                        | 0.2                        | 0.2                         |
| <b>DUPLICATES</b>                 |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |                             |
| UOL110                            | 14                        | 69.2                        | <0.2                        | 3330                      | <1                        | 20.7                        | <1                        | 2.70                         | 17                        | 1.0                         | 6.4                         | 8.5                        | 1                        | 498                        | 35.7                        |
| DUP                               | 10                        | 60.8                        | <0.2                        | 2960                      | <1                        | 16.7                        | <1                        | 2.85                         | 19                        | 0.9                         | 4.5                         | 8.9                        | 1                        | 370                        | 25.4                        |
| Target Range - Lower Bound        | 9                         | 61.7                        | <0.2                        | 2990                      | <1                        | 17.7                        | <1                        | 2.62                         | 12                        | <0.5                        | 5.1                         | 8.2                        | <1                       | 412                        | 28.9                        |
| Upper Bound                       | 15                        | 68.4                        | 0.4                         | 3300                      | 2                         | 19.7                        | 2                         | 2.93                         | 24                        | 1.0                         | 5.8                         | 9.2                        | 2                        | 456                        | 32.2                        |
| UOL120                            | 15                        | 109.0                       | 0.2                         | 1810                      | <1                        | 26.5                        | <1                        | 30.1                         | 167                       | <0.5                        | 11.8                        | 27.1                       | 1                        | 571                        | 76.9                        |
| DUP                               | 10                        | 110.5                       | <0.2                        | 1470                      | <1                        | 25.4                        | <1                        | 30.7                         | 99                        | <0.5                        | 10.2                        | 23.6                       | 1                        | 447                        | 64.4                        |
| Target Range - Lower Bound        | 10                        | 104.0                       | <0.2                        | 1555                      | <1                        | 24.6                        | <1                        | 28.9                         | 121                       | <0.5                        | 10.4                        | 24.0                       | <1                       | 483                        | 67.0                        |
| Upper Bound                       | 15                        | 115.5                       | 0.4                         | 1725                      | 2                         | 27.3                        | 2                         | 31.9                         | 145                       | 1.0                         | 11.7                        | 26.7                       | 2                        | 535                        | 74.3                        |
| UOL201                            | 12                        | 70.3                        | 0.2                         | 1420                      | <1                        | 15.9                        | <1                        | 19.30                        | 264                       | <0.5                        | 5.4                         | 20.8                       | <1                       | 300                        | 31.5                        |
| DUP                               | 12                        | 79.9                        | <0.2                        | 1540                      | <1                        | 18.1                        | <1                        | 23.8                         | 90                        | <0.5                        | 6.8                         | 19.8                       | 1                        | 348                        | 41.5                        |
| Target Range - Lower Bound        | 9                         | 71.2                        | <0.2                        | 1405                      | <1                        | 16.1                        | <1                        | 20.5                         | 163                       | <0.5                        | 5.7                         | 19.2                       | <1                       | 308                        | 34.6                        |
| Upper Bound                       | 15                        | 79.0                        | 0.4                         | 1555                      | 2                         | 18.0                        | 2                         | 22.6                         | 191                       | 1.0                         | 6.5                         | 21.4                       | 2                        | 340                        | 38.4                        |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 | pH-MS23<br>Final pH<br>Unity<br>0.1 |
|----------------------------|-----------------------------------|----------------------------|-----------------------------|-------------------------------------|
| STANDARDS                  |                                   |                            |                             |                                     |
| ION-SRM18                  |                                   | 510                        | 11.6                        | 9.0                                 |
| ION-SRM18                  |                                   | 560                        | 10.3                        | 9.0                                 |
| ION-SRM18                  |                                   | 580                        | 11.2                        | 9.0                                 |
| ION-SRM18                  |                                   | 620                        | 13.5                        | 9.0                                 |
| ION-SRM18                  |                                   | 600                        | 7.2                         | 9.0                                 |
| ION-SRM18                  |                                   | 540                        | 7.3                         | 9.0                                 |
| Target Range - Lower Bound |                                   | 530                        | 4.3                         |                                     |
| Upper Bound                |                                   | 670                        | 5.5                         |                                     |
| BLANKS                     |                                   |                            |                             |                                     |
| BLANK                      |                                   | 10                         | 0.4                         | 9.0                                 |
| BLANK                      |                                   | <10                        | <0.1                        | 9.0                                 |
| BLANK                      |                                   | 10                         | <0.1                        | 9.0                                 |
| Target Range - Lower Bound |                                   | <10                        | <0.1                        | 8.0                                 |
| Upper Bound                |                                   | 20                         | 0.2                         | 10.0                                |
| DUPLICATES                 |                                   |                            |                             |                                     |
| UOL110                     |                                   | 20                         | 3.7                         | 9.0                                 |
| DUP                        |                                   | 20                         | 3.2                         | 9.0                                 |
| Target Range - Lower Bound |                                   | <10                        | 3.2                         | 8.5                                 |
| Upper Bound                |                                   | 30                         | 3.7                         | 9.6                                 |
| UOL120                     |                                   | 20                         | 8.6                         | 8.1                                 |
| DUP                        |                                   | 20                         | 4.6                         | 8.5                                 |
| Target Range - Lower Bound |                                   | <10                        | 6.2                         | 7.8                                 |
| Upper Bound                |                                   | 30                         | 7.0                         | 8.8                                 |
| UOL201                     |                                   | 20                         | 9.4                         | 8.7                                 |
| DUP                        |                                   | 20                         | 7.2                         | 8.7                                 |
| Target Range - Lower Bound |                                   | <10                        | 7.8                         | 8.2                                 |
| Upper Bound                |                                   | 30                         | 8.8                         | 9.2                                 |



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| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23    | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|----------------------------|-----------------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                            |                                   | Ag         | As      | Au      | Ba      | Be      | Bi      | Br      | Ca      | Cd      | Ce      | Co      | Cr      | Cs      | Cu      | Dy      |
|                            |                                   | ppb        | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     |
|                            |                                   | 0.1        | 2       | 0.02    | 10      | 0.2     | 3       | 0.05    | 0.2     | 1       | 0.1     | 0.3     | 1       | 0.1     | 1       | 0.1     |
|                            |                                   | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| UOL506                     |                                   | 1.5        | 2       | 0.05    | 1130    | 0.4     | <3      | 0.05    | 173.5   | 2       | 104.0   | 36.5    | 6       | 2.8     | 665     | 32.9    |
| DUP                        |                                   | 1.4        | <2      | 0.04    | 1100    | 0.5     | <3      | <0.05   | 223     | 2       | 115.0   | 34.4    | 7       | 3.2     | 608     | 27.8    |
| Target Range - Lower Bound |                                   | 1.3        | <2      | <0.02   | 1050    | <0.2    | <3      | <0.05   | 188.0   | <1      | 104.0   | 33.4    | 5       | 2.8     | 604     | 28.7    |
| Upper Bound                |                                   | 1.6        | 4       | 0.07    | 1180    | 0.7     | 6       | 0.10    | 208     | 3       | 115.0   | 37.5    | 8       | 3.3     | 669     | 32.0    |
| UOL516                     |                                   | 2.4        | 2       | 0.11    | 200     | 0.4     | <3      | 0.05    | 150.5   | 1       | 204     | 99.0    | 12      | 6.6     | 672     | 51.1    |
| DUP                        |                                   | 2.2        | 3       | 0.10    | 230     | 0.5     | <3      | 0.05    | 167.0   | 1       | 213     | 109.5   | 10      | 6.6     | 623     | 53.5    |
| Target Range - Lower Bound |                                   | 2.1        | <2      | 0.08    | 190     | <0.2    | <3      | <0.05   | 150.5   | <1      | 198.0   | 98.7    | 9       | 6.2     | 614     | 49.6    |
| Upper Bound                |                                   | 2.5        | 4       | 0.13    | 240     | 0.7     | 6       | 0.10    | 167.0   | 2       | 219     | 110.0   | 13      | 7.0     | 681     | 55.0    |
| UOL604                     |                                   | 2.1        | 3       | 0.06    | 590     | 0.3     | <3      | 0.05    | 253     | 3       | 116.0   | 38.3    | 6       | 4.1     | 874     | 51.6    |
| DUP                        |                                   | 1.5        | <2      | 0.04    | 510     | 0.5     | <3      | <0.05   | 205     | 2       | 152.5   | 29.4    | 8       | 4.0     | 648     | 37.4    |
| Target Range - Lower Bound |                                   | 1.6        | <2      | 0.03    | 510     | <0.2    | <3      | <0.05   | 217     | <1      | 127.5   | 31.9    | 6       | 3.7     | 722     | 42.2    |
| Upper Bound                |                                   | 2.0        | 4       | 0.07    | 590     | 0.6     | 6       | 0.10    | 241     | 4       | 141.0   | 35.8    | 8       | 4.4     | 800     | 46.8    |
| UOL803                     |                                   | 1.5        | <2      | 0.07    | 380     | 0.2     | <3      | <0.05   | 251     | 3       | 40.7    | 56.2    | 2       | 4.0     | 894     | 25.2    |
| DUP                        |                                   | 1.4        | 2       | 0.07    | 340     | 0.5     | <3      | <0.05   | 186.0   | 2       | 45.9    | 48.6    | 4       | 3.8     | 774     | 22.3    |
| Target Range - Lower Bound |                                   | 1.3        | <2      | 0.05    | 330     | <0.2    | <3      | <0.05   | 207     | <1      | 41.0    | 49.5    | 2       | 3.6     | 791     | 22.5    |
| Upper Bound                |                                   | 1.6        | 4       | 0.09    | 390     | 0.4     | 6       | 0.10    | 230     | 4       | 45.6    | 55.3    | 4       | 4.2     | 877     | 25.0    |
| UOL906                     |                                   | 2.1        | 2       | 0.06    | 600     | 0.4     | <3      | 0.11    | 165.0   | 2       | 213     | 165.5   | 6       | 3.5     | 849     | 34.9    |
| DUP                        |                                   | 1.8        | 3       | 0.05    | 620     | 0.7     | <3      | 0.11    | 164.0   | 2       | 254     | 186.5   | 10      | 3.8     | 886     | 47.7    |
| Target Range - Lower Bound |                                   | 1.8        | <2      | 0.03    | 570     | 0.3     | <3      | <0.05   | 156.0   | <1      | 222     | 167.0   | 7       | 3.4     | 823     | 39.1    |
| Upper Bound                |                                   | 2.1        | 4       | 0.08    | 650     | 0.8     | 6       | 0.17    | 173.0   | 3       | 245     | 185.0   | 9       | 3.9     | 912     | 43.5    |
|                            |                                   |            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |



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| Sample Description         | Method Analyte Units LOR | ME-MS23    | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |     |
|----------------------------|--------------------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
|                            |                          | Er         | Eu      | Fe      | Ga      | Gd      | Ge      | Hf      | Hg      | Ho      | I       | In      | La      | Li      | Lu      | Mg      |     |
|                            |                          | ppb        | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm     | ppb     | ppb     | ppb     | ppb     | ppb     | ppm |
|                            |                          | 0.1        | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.5     | 0.1     | 0.1     | 0.01    | 0.1     | 0.1     | 0.2     | 0.1     | 0.01    |     |
|                            |                          | DUPLICATES |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |
| UOL506                     |                          | 25.2       | 17.3    | 4.3     | 34.8    | 58.7    | 1.2     | 0.7     | 0.6     | 9.8     | 0.05    | <0.1    | 61.9    | 2.9     | 2.6     | 50.4    |     |
| DUP                        |                          | 20.2       | 16.0    | 4.7     | 28.2    | 53.4    | 1.1     | 0.7     | 0.5     | 8.1     | 0.05    | <0.1    | 67.0    | 3.4     | 2.1     | 64.8    |     |
| Target Range - Lower Bound |                          | 21.5       | 15.7    | 4.2     | 29.4    | 53.1    | 1.0     | <0.5    | 0.4     | 8.4     | 0.04    | <0.1    | 61.1    | 2.8     | 2.1     | 54.7    |     |
| Upper Bound                |                          | 23.9       | 17.6    | 4.8     | 33.6    | 59.0    | 1.3     | 1.0     | 0.7     | 9.5     | 0.06    | 0.2     | 67.8    | 3.5     | 2.6     | 60.5    |     |
| UOL516                     |                          | 44.7       | 25.5    | 5.3     | 7.7     | 81.5    | 1.5     | 0.9     | 1.1     | 16.6    | 0.18    | 0.1     | 93.0    | 4.1     | 6.5     | 25.7    |     |
| DUP                        |                          | 46.3       | 25.7    | 4.5     | 8.0     | 83.3    | 1.6     | 0.9     | 0.9     | 17.0    | 0.18    | 0.1     | 95.5    | 2.9     | 6.2     | 29.9    |     |
| Target Range - Lower Bound |                          | 43.1       | 24.2    | 4.6     | 7.0     | 78.2    | 1.4     | <0.5    | 0.9     | 15.9    | 0.16    | <0.1    | 89.4    | 3.1     | 5.9     | 26.4    |     |
| Upper Bound                |                          | 47.9       | 27.0    | 5.2     | 8.7     | 86.6    | 1.7     | 1.0     | 1.2     | 17.7    | 0.20    | 0.2     | 99.1    | 3.9     | 6.8     | 29.2    |     |
| UOL604                     |                          | 43.5       | 21.1    | 4.8     | 16.5    | 73.2    | 1.1     | 0.9     | 0.6     | 16.6    | 0.09    | 0.1     | 63.1    | 3.8     | 5.0     | 31.7    |     |
| DUP                        |                          | 30.0       | 18.1    | 5.6     | 14.7    | 59.7    | 1.2     | 0.8     | 0.4     | 11.8    | 0.07    | <0.1    | 81.1    | 4.7     | 3.2     | 26.2    |     |
| Target Range - Lower Bound |                          | 34.8       | 18.5    | 4.8     | 14.3    | 63.0    | 1.0     | <0.5    | 0.4     | 13.4    | 0.07    | <0.1    | 68.4    | 3.8     | 3.8     | 27.5    |     |
| Upper Bound                |                          | 38.7       | 20.7    | 5.6     | 16.9    | 69.9    | 1.3     | 1.0     | 0.6     | 15.0    | 0.09    | 0.2     | 75.8    | 4.7     | 4.4     | 30.4    |     |
| UOL803                     |                          | 16.2       | 9.8     | 3.3     | 10.8    | 40.4    | 2.2     | <0.5    | 0.9     | 5.1     | 0.06    | <0.1    | 28.0    | 1.5     | 1.2     | 43.6    |     |
| DUP                        |                          | 13.9       | 8.9     | 4.7     | 12.1    | 36.7    | 1.0     | <0.5    | 0.8     | 4.5     | 0.05    | <0.1    | 31.6    | 3.0     | 1.1     | 31.8    |     |
| Target Range - Lower Bound |                          | 14.2       | 8.8     | 3.7     | 10.4    | 36.5    | 1.4     | <0.5    | 0.7     | 4.5     | 0.04    | <0.1    | 28.2    | 1.9     | 1.0     | 35.8    |     |
| Upper Bound                |                          | 15.9       | 9.9     | 4.3     | 12.5    | 40.6    | 1.8     | 1.0     | 1.0     | 5.1     | 0.07    | 0.2     | 31.4    | 2.6     | 1.3     | 39.6    |     |
| UOL906                     |                          | 21.5       | 15.5    | 3.5     | 16.8    | 59.1    | 1.2     | 0.9     | 0.5     | 6.9     | 0.10    | <0.1    | 65.8    | 0.9     | 1.7     | 67.0    |     |
| DUP                        |                          | 31.3       | 19.7    | 6.2     | 18.0    | 77.1    | 1.3     | 1.1     | 0.5     | 9.4     | 0.12    | <0.1    | 77.2    | 2.2     | 2.5     | 66.8    |     |
| Target Range - Lower Bound |                          | 25.0       | 16.6    | 4.5     | 16.0    | 64.6    | 1.1     | <0.5    | 0.4     | 7.6     | 0.09    | <0.1    | 67.8    | 1.3     | 1.9     | 63.5    |     |
| Upper Bound                |                          | 27.8       | 18.6    | 5.2     | 18.8    | 71.6    | 1.4     | 1.6     | 0.6     | 8.7     | 0.13    | 0.2     | 75.2    | 1.8     | 2.3     | 70.3    |     |
|                            |                          |            |         |         |         |         |         |         |         |         |         |         |         |         |         |         |     |





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**QC CERTIFICATE OF ANALYSIS PH11243734**

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Se<br>ppb<br>2 | ME-MS23<br>Sm<br>ppb<br>0.1 | ME-MS23<br>Sn<br>ppb<br>0.2 | ME-MS23<br>Sr<br>ppb<br>1 | ME-MS23<br>Ta<br>ppb<br>1 | ME-MS23<br>Tb<br>ppb<br>0.1 | ME-MS23<br>Te<br>ppb<br>1 | ME-MS23<br>Th<br>ppb<br>0.02 | ME-MS23<br>Ti<br>ppb<br>5 | ME-MS23<br>Tl<br>ppb<br>0.5 | ME-MS23<br>Tm<br>ppb<br>0.1 | ME-MS23<br>U<br>ppb<br>0.1 | ME-MS23<br>W<br>ppb<br>1 | ME-MS23<br>Y<br>ppb<br>0.1 | ME-MS23<br>Yb<br>ppb<br>0.1 |
|----------------------------|-----------------------------------|---------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------|--------------------------|----------------------------|-----------------------------|
| <b>DUPLICATES</b>          |                                   |                           |                             |                             |                           |                           |                             |                           |                              |                           |                             |                             |                            |                          |                            |                             |
| UOL506                     |                                   | 7                         | 57.2                        | 0.2                         | 1840                      | <1                        | 10.4                        | <1                        | 14.80                        | 236                       | 0.5                         | 2.9                         | 13.3                       | <1                       | 204                        | 17.0                        |
| DUP                        |                                   | 4                         | 53.8                        | 0.3                         | 2020                      | <1                        | 9.1                         | <1                        | 16.00                        | 303                       | 0.5                         | 2.4                         | 14.2                       | <1                       | 167.0                      | 13.8                        |
| Target Range - Lower Bound |                                   | 3                         | 52.6                        | <0.2                        | 1835                      | <1                        | 9.2                         | <1                        | 14.60                        | 251                       | <0.5                        | 2.4                         | 13.0                       | <1                       | 176.0                      | 14.5                        |
| Upper Bound                |                                   | 8                         | 58.4                        | 0.4                         | 2030                      | 2                         | 10.3                        | 2                         | 16.20                        | 288                       | 1.0                         | 2.9                         | 14.5                       | 2                        | 195.0                      | 16.3                        |
| UOL516                     |                                   | 9                         | 76.1                        | 0.4                         | 1080                      | <1                        | 14.9                        | <1                        | 43.8                         | 389                       | 0.5                         | 5.9                         | 19.3                       | 1                        | 299                        | 37.9                        |
| DUP                        |                                   | 7                         | 78.0                        | 0.3                         | 1190                      | <1                        | 15.5                        | <1                        | 51.2                         | 296                       | 0.6                         | 5.8                         | 19.4                       | <1                       | 396                        | 37.7                        |
| Target Range - Lower Bound |                                   | 6                         | 73.1                        | <0.2                        | 1075                      | <1                        | 14.3                        | <1                        | 45.1                         | 320                       | <0.5                        | 5.5                         | 18.3                       | <1                       | 330                        | 35.8                        |
| Upper Bound                |                                   | 10                        | 81.0                        | 0.4                         | 1195                      | 2                         | 16.1                        | 2                         | 49.9                         | 365                       | 1.0                         | 6.2                         | 20.4                       | 2                        | 365                        | 39.8                        |
| UOL604                     |                                   | 8                         | 59.3                        | 0.2                         | 1830                      | <1                        | 14.3                        | <1                        | 16.25                        | 263                       | <0.5                        | 5.3                         | 12.7                       | <1                       | 351                        | 31.8                        |
| DUP                        |                                   | 3                         | 55.3                        | 0.4                         | 1540                      | <1                        | 10.9                        | <1                        | 26.9                         | 431                       | <0.5                        | 3.5                         | 12.2                       | <1                       | 214                        | 20.5                        |
| Target Range - Lower Bound |                                   | 3                         | 54.3                        | <0.2                        | 1600                      | <1                        | 11.9                        | <1                        | 20.5                         | 325                       | <0.5                        | 4.1                         | 11.7                       | <1                       | 268                        | 24.7                        |
| Upper Bound                |                                   | 8                         | 60.3                        | 0.4                         | 1770                      | 2                         | 13.3                        | 2                         | 22.7                         | 369                       | 1.0                         | 4.7                         | 13.2                       | 2                        | 297                        | 27.6                        |
| UOL803                     |                                   | 2                         | 29.9                        | <0.2                        | 1800                      | <1                        | 5.1                         | <1                        | 4.61                         | 97                        | 0.6                         | 1.8                         | 15.3                       | <1                       | 150.5                      | 9.8                         |
| DUP                        |                                   | 5                         | 27.3                        | 0.2                         | 1590                      | <1                        | 4.4                         | <1                        | 5.71                         | 238                       | 0.6                         | 1.6                         | 14.2                       | <1                       | 149.0                      | 8.6                         |
| Target Range - Lower Bound |                                   | <2                        | 27.1                        | <0.2                        | 1610                      | <1                        | 4.4                         | <1                        | 4.88                         | 154                       | <0.5                        | 1.5                         | 13.9                       | <1                       | 142.0                      | 8.6                         |
| Upper Bound                |                                   | 4                         | 30.1                        | 0.4                         | 1780                      | 2                         | 5.1                         | 2                         | 5.44                         | 181                       | 1.0                         | 1.9                         | 15.6                       | 2                        | 157.5                      | 9.8                         |
| UOL906                     |                                   | 8                         | 51.2                        | <0.2                        | 1230                      | <1                        | 7.2                         | <1                        | 15.65                        | 104                       | 0.5                         | 2.5                         | 31.9                       | <1                       | 219                        | 14.4                        |
| DUP                        |                                   | 9                         | 63.9                        | 0.3                         | 1120                      | <1                        | 9.2                         | <1                        | 18.45                        | 266                       | 0.5                         | 3.6                         | 35.8                       | <1                       | 268                        | 21.1                        |
| Target Range - Lower Bound |                                   | 6                         | 54.6                        | <0.2                        | 1115                      | <1                        | 7.7                         | <1                        | 16.20                        | 171                       | <0.5                        | 2.8                         | 32.1                       | <1                       | 231                        | 16.8                        |
| Upper Bound                |                                   | 11                        | 60.5                        | 0.4                         | 1235                      | 2                         | 8.7                         | 2                         | 17.90                        | 199                       | 1.0                         | 3.3                         | 35.6                       | 2                        | 256                        | 18.7                        |



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QC CERTIFICATE OF ANALYSIS PH11243734

| Sample Description         | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 | pH-MS23<br>Final pH<br>Unity<br>0.1 |
|----------------------------|-----------------------------------|----------------------------|-----------------------------|-------------------------------------|
| DUPLICATES                 |                                   |                            |                             |                                     |
| UOL506                     |                                   | 30                         | 10.9                        | 9.0                                 |
| DUP                        |                                   | 30                         | 10.8                        | 9.0                                 |
| Target Range - Lower Bound |                                   | 20                         | 10.2                        | 8.5                                 |
| Upper Bound                |                                   | 40                         | 11.5                        | 9.6                                 |
| UOL516                     |                                   | 10                         | 11.7                        | 8.5                                 |
| DUP                        |                                   | 10                         | 9.0                         | 8.5                                 |
| Target Range - Lower Bound |                                   | <10                        | 9.7                         | 8.0                                 |
| Upper Bound                |                                   | 20                         | 11.0                        | 9.0                                 |
| UOL604                     |                                   | 20                         | 9.9                         | 8.5                                 |
| DUP                        |                                   | 30                         | 13.4                        | 8.7                                 |
| Target Range - Lower Bound |                                   | <10                        | 11.0                        | 8.1                                 |
| Upper Bound                |                                   | 40                         | 12.3                        | 9.1                                 |
| UOL803                     |                                   | 220                        | 4.1                         | 9.0                                 |
| DUP                        |                                   | 180                        | 6.7                         | 9.0                                 |
| Target Range - Lower Bound |                                   | 180                        | 5.0                         | 8.5                                 |
| Upper Bound                |                                   | 220                        | 5.8                         | 9.6                                 |
| UOL906                     |                                   | 60                         | 14.0                        | 9.0                                 |
| DUP                        |                                   | 70                         | 19.1                        | 9.0                                 |
| Target Range - Lower Bound |                                   | 50                         | 15.6                        | 8.5                                 |
| Upper Bound                |                                   | 80                         | 17.5                        | 9.6                                 |
|                            |                                   |                            |                             |                                     |