

**metals**  
**- 5a -**  
**MATRIX SPIKE SUMMARY**

|                                             |                                     |                                                   |
|---------------------------------------------|-------------------------------------|---------------------------------------------------|
| <b>client:</b> <u>Nobis Group</u>           | <b>level:</b> <u>low</u>            | <b>sdg no.:</b> <u>Q2638</u>                      |
| <b>contract:</b> <u>NOBI03</u>              |                                     | <b>lab code:</b> <u>ACE</u>                       |
| <b>matrix:</b> <u>Water</u>                 | <b>sample id:</b> <u>Q2639-14</u>   | <b>client id:</b> <u>OU4-TS-44-071725MS</u>       |
| <b>Percent Solids for Sample:</b> <u>NA</u> | <b>Spiked ID:</b> <u>Q2639-14MS</u> | <b>Percent Solids for Spike Sample:</b> <u>NA</u> |

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C  | Spike<br>Added | %<br>Recovery | Qual | M  |
|-----------|-------|------------------------|------------------|---|------------------|----|----------------|---------------|------|----|
| Antimony  | ug/L  | 85 - 117               | 420              | D | 1.50             | JD | 500            | 84            | N    | P  |
| Arsenic   | ug/L  | 84 - 116               | 568              | D | 65.5             | D  | 500            | 100           |      | P  |
| Barium    | ug/L  | 86 - 114               | 1980             | D | 123              | D  | 2500           | 74            | N    | P  |
| Beryllium | ug/L  | 83 - 121               | 484              | D | 5.00             | UD | 500            | 97            |      | P  |
| Cadmium   | ug/L  | 87 - 115               | 483              | D | 9.95             | D  | 500            | 95            |      | P  |
| Chromium  | ug/L  | 85 - 116               | 460              | D | 40.4             | D  | 500            | 84            | N    | P  |
| Copper    | ug/L  | 85 - 118               | 5430             | D | 267              | D  | 5000           | 103           |      | P  |
| Lead      | ug/L  | 88 - 115               | 2060             | D | 64.0             | D  | 2500           | 80            | N    | P  |
| Nickel    | ug/L  | 85 - 117               | 638              | D | 175              | D  | 500            | 93            |      | P  |
| Mercury   | ug/L  | 82 - 119               | 3.66             |   | 0.20             | U  | 4.0            | 92            |      | CV |
| Selenium  | ug/L  | 80 - 120               | 486              | D | 250              | UD | 500            | 97            |      | P  |
| Silver    | ug/L  | 85 - 116               | 79.7             | D | 0.55             | JD | 500            | 16            | N    | P  |
| Thallium  | ug/L  | 82 - 116               | 405              | D | 50.0             | UD | 500            | 81            | N    | P  |
| Vanadium  | ug/L  | 86 - 115               | 533              | D | 106              | D  | 500            | 85            | N    | P  |
| Zinc      | ug/L  | 83 - 119               | 6400             | D | 1950             | D  | 5000           | 89            |      | P  |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                             |                                      |                                                   |
|---------------------------------------------|--------------------------------------|---------------------------------------------------|
| <b>client:</b> <u>Nobis Group</u>           | <b>level:</b> <u>low</u>             | <b>sdg no.:</b> <u>Q2638</u>                      |
| <b>contract:</b> <u>NOBI03</u>              |                                      | <b>lab code:</b> <u>ACE</u>                       |
| <b>matrix:</b> <u>Water</u>                 | <b>sample id:</b> <u>Q2639-14</u>    | <b>client id:</b> <u>OU4-TS-44-071725MSD</u>      |
| <b>Percent Solids for Sample:</b> <u>NA</u> | <b>Spiked ID:</b> <u>Q2639-14MSD</u> | <b>Percent Solids for Spike Sample:</b> <u>NA</u> |

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C  | Spike<br>Added | %<br>Recovery | Qual | M  |
|-----------|-------|------------------------|---------------|---|------------------|----|----------------|---------------|------|----|
| Antimony  | ug/L  | 85 - 117               | 416           | D | 1.50             | JD | 500            | 83            | N    | P  |
| Arsenic   | ug/L  | 84 - 116               | 566           | D | 65.5             | D  | 500            | 100           |      | P  |
| Barium    | ug/L  | 86 - 114               | 1960          | D | 123              | D  | 2500           | 74            | N    | P  |
| Beryllium | ug/L  | 83 - 121               | 503           | D | 5.00             | UD | 500            | 101           |      | P  |
| Cadmium   | ug/L  | 87 - 115               | 476           | D | 9.95             | D  | 500            | 93            |      | P  |
| Chromium  | ug/L  | 85 - 116               | 456           | D | 40.4             | D  | 500            | 83            | N    | P  |
| Copper    | ug/L  | 85 - 118               | 5250          | D | 267              | D  | 5000           | 100           |      | P  |
| Lead      | ug/L  | 88 - 115               | 2040          | D | 64.0             | D  | 2500           | 79            | N    | P  |
| Nickel    | ug/L  | 85 - 117               | 627           | D | 175              | D  | 500            | 90            |      | P  |
| Mercury   | ug/L  | 82 - 119               | 3.63          |   | 0.20             | U  | 4.0            | 91            |      | CV |
| Selenium  | ug/L  | 80 - 120               | 508           | D | 250              | UD | 500            | 102           |      | P  |
| Silver    | ug/L  | 85 - 116               | 78.5          | D | 0.55             | JD | 500            | 16            | N    | P  |
| Thallium  | ug/L  | 82 - 116               | 405           | D | 50.0             | UD | 500            | 81            | N    | P  |
| Vanadium  | ug/L  | 86 - 115               | 526           | D | 106              | D  | 500            | 84            | N    | P  |
| Zinc      | ug/L  | 83 - 119               | 6170          | D | 1950             | D  | 5000           | 84            |      | P  |