

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

|                                            |                                   |                                                            |
|--------------------------------------------|-----------------------------------|------------------------------------------------------------|
| <b>client:</b> <u>RU2 Engineering, LLC</u> | <b>level:</b> <u>low</u>          | <b>sdg no.:</b> <u>Q1206</u>                               |
| <b>contract:</b> <u>RUTW01</u>             | <b>lab code:</b> <u>CHEM</u>      | <b>case no.:</b> <u>Q1206</u> <b>sas no.:</b> <u>Q1206</u> |
| <b>matrix:</b> <u>Water</u>                | <b>sample id:</b> <u>Q1209-08</u> | <b>client id:</b> <u>WC-5MS</u>                            |
| <b>Percent Solids for Sample:</b> NA       | <b>Spiked ID:</b> Q1209-08MS      | <b>Percent Solids for Spike Sample:</b> NA                 |

| Analyte  | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Arsenic  | ug/L  | 75 - 125               | 4090             |   | 100              | U | 4000           | 102           |      | P  |
| Barium   | ug/L  | 75 - 125               | 1840             |   | 1020             |   | 1000           | 82            |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 970              |   | 30.0             | U | 1000           | 97            |      | P  |
| Chromium | ug/L  | 75 - 125               | 2050             |   | 50.0             | U | 2000           | 102           |      | P  |
| Lead     | ug/L  | 75 - 125               | 4760             |   | 60.0             | U | 5000           | 95            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 43.2             |   | 2.00             | U | 40.0           | 108           |      | CV |
| Selenium | ug/L  | 75 - 125               | 9800             |   | 100              | U | 10000          | 98            |      | P  |
| Silver   | ug/L  | 75 - 125               | 363              |   | 50.0             | U | 380            | 96            |      | P  |

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

|                                             |                                      |                                                            |
|---------------------------------------------|--------------------------------------|------------------------------------------------------------|
| <b>client:</b> <u>RU2 Engineering, LLC</u>  | <b>level:</b> <u>low</u>             | <b>sdg no.:</b> <u>Q1206</u>                               |
| <b>contract:</b> <u>RUTW01</u>              | <b>lab code:</b> <u>CHEM</u>         | <b>case no.:</b> <u>Q1206</u> <b>sas no.:</b> <u>Q1206</u> |
| <b>matrix:</b> <u>Water</u>                 | <b>sample id:</b> <u>Q1209-08</u>    | <b>client id:</b> <u>WC-5MSD</u>                           |
| <b>Percent Solids for Sample:</b> <u>NA</u> | <b>Spiked ID:</b> <u>Q1209-08MSD</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  |
|----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Arsenic  | ug/L  | 75 - 125               | 4110          |   | 100              | U | 4000           | 103           |      | P  |
| Barium   | ug/L  | 75 - 125               | 1860          |   | 1020             |   | 1000           | 84            |      | P  |
| Cadmium  | ug/L  | 75 - 125               | 972           |   | 30.0             | U | 1000           | 97            |      | P  |
| Chromium | ug/L  | 75 - 125               | 2050          |   | 50.0             | U | 2000           | 102           |      | P  |
| Lead     | ug/L  | 75 - 125               | 4770          |   | 60.0             | U | 5000           | 95            |      | P  |
| Mercury  | ug/L  | 75 - 125               | 41.6          |   | 2.00             | U | 40.0           | 104           |      | CV |
| Selenium | ug/L  | 75 - 125               | 9850          |   | 100              | U | 10000          | 98            |      | P  |
| Silver   | ug/L  | 75 - 125               | 367           |   | 50.0             | U | 380            | 97            |      | P  |