

**metals**  
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**MATRIX SPIKE SUMMARY**

**client:** Weston Solutions **level:** low **sdg no.:** P5076  
**contract:** WEST04 **lab code:** CHEM **case no.:** P5076 **sas no.:** P5076  
**matrix:** Solid **sample id:** P5076-01 **client id:** TAPIAL2-SB02I-7.5-120224-00-T1MS  
**Percent Solids for Sample:** 93.9 **Spiked ID:** P5076-01MS **Percent Solids for Spike Sample:** 93.9

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.32             |   | 0.013            |   | 0.26           | 118           |      | CV |

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**MATRIX SPIKE DUPLICATE SUMMARY**

|                                   |                         |                   |                    |                                         |                                          |                 |              |
|-----------------------------------|-------------------------|-------------------|--------------------|-----------------------------------------|------------------------------------------|-----------------|--------------|
| <b>client:</b>                    | <u>Weston Solutions</u> | <b>level:</b>     | <u>low</u>         | <b>sdg no.:</b>                         | <u>P5076</u>                             |                 |              |
| <b>contract:</b>                  | <u>WEST04</u>           | <b>lab code:</b>  | <u>CHEM</u>        | <b>case no.:</b>                        | <u>P5076</u>                             | <b>sas no.:</b> | <u>P5076</u> |
| <b>matrix:</b>                    | <u>Solid</u>            | <b>sample id:</b> | <u>P5076-01</u>    | <b>client id:</b>                       | <u>TAPIAL2-SB021-7.5-120224-00-T1MSD</u> |                 |              |
| <b>Percent Solids for Sample:</b> | 93.9                    | <b>Spiked ID:</b> | <u>P5076-01MSD</u> | <b>Percent Solids for Spike Sample:</b> | 93.9                                     |                 |              |

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 124               | 0.30          |   | 0.013            |   | 0.26           | 112           |      | CV |

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**MATRIX SPIKE SUMMARY**

**client:** Weston Solutions **level:** low **sdg no.:** P5076  
**contract:** WEST04 **lab code:** CHEM **case no.:** P5076 **sas no.:** P5076  
**matrix:** Solid **sample id:** P5117-01 **client id:** TAPIAL3-SB04I-10-120324-00-T1MS  
**Percent Solids for Sample:** 95.7 **Spiked ID:** P5117-01MS **Percent Solids for Spike Sample:** 95.7

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C  | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|----|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 78 - 124               | 860              | D | 37.6             | D  | 810            | 102           |      | P |
| Antimony  | mg/Kg | 72 - 124               | 52.5             | D | 0.037            | JD | 40.5           | 130           | N    | P |
| Arsenic   | mg/Kg | 82 - 118               | 52.0             | D | 0.033            | JD | 40.5           | 128           | N    | P |
| Barium    | mg/Kg | 86 - 116               | 235              | D | 1.46             | JD | 200            | 115           |      | P |
| Beryllium | mg/Kg | 80 - 120               | 50.5             | D | 0.37             | UD | 40.5           | 125           | N    | P |
| Cadmium   | mg/Kg | 84 - 116               | 54.7             | D | 0.37             | UD | 40.5           | 135           | N    | P |
| Calcium   | mg/Kg | 86 - 118               | 4190             | D | 185              | UD | 4100           | 103           |      | P |
| Chromium  | mg/Kg | 83 - 119               | 49.7             | D | 0.28             | JD | 40.5           | 122           | N    | P |
| Cobalt    | mg/Kg | 84 - 115               | 51.0             | D | 0.030            | JD | 40.5           | 126           | N    | P |
| Copper    | mg/Kg | 84 - 119               | 408              | D | 0.74             | UD | 410            | 101           |      | P |
| Iron      | mg/Kg | 81 - 124               | 2460             | D | 71.1             | D  | 2000           | 118           |      | P |
| Lead      | mg/Kg | 84 - 118               | 191              | D | 0.19             | JD | 200            | 94            |      | P |
| Magnesium | mg/Kg | 80 - 123               | 3970             | D | 185              | UD | 4100           | 98            |      | P |
| Manganese | mg/Kg | 85 - 116               | 370              | D | 0.60             | D  | 410            | 91            |      | P |
| Nickel    | mg/Kg | 84 - 119               | 50.3             | D | 0.37             | UD | 40.5           | 124           | N    | P |
| Potassium | mg/Kg | 85 - 119               | 2240             | D | 185              | UD | 2000           | 110           |      | P |
| Selenium  | mg/Kg | 80 - 119               | 52.5             | D | 1.85             | UD | 40.5           | 129           | N    | P |
| Silver    | mg/Kg | 83 - 118               | 1.08             | D | 0.37             | UD | 40.5           | 3             | N    | P |
| Sodium    | mg/Kg | 79 - 125               | 3990             | D | 185              | UD | 4100           | 98            |      | P |
| Thallium  | mg/Kg | 83 - 118               | 49.8             | D | 0.37             | UD | 40.5           | 123           | N    | P |
| Vanadium  | mg/Kg | 82 - 116               | 50.4             | D | 0.30             | JD | 40.5           | 124           | N    | P |
| Zinc      | mg/Kg | 82 - 119               | 391              | D | 1.85             | UD | 410            | 96            |      | P |

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**MATRIX SPIKE DUPLICATE SUMMARY**

**client:** Weston Solutions **level:** low **sdg no.:** P5076  
**contract:** WEST04 **lab code:** CHEM **case no.:** P5076 **sas no.:** P5076  
**matrix:** Solid **sample id:** P5117-01 **client id:** TAPIAL3-SB04I-10-120324-00-T1MSD  
**Percent Solids for Sample:** 95.7 **Spiked ID:** P5117-01MSD **Percent Solids for Spike Sample:** 95.7

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C  | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|---------------|---|------------------|----|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 78 - 124               | 940           | D | 37.6             | D  | 870            | 104           |      | P |
| Antimony  | mg/Kg | 72 - 124               | 55.5          | D | 0.037            | JD | 43.5           | 127           | N    | P |
| Arsenic   | mg/Kg | 82 - 118               | 56.7          | D | 0.033            | JD | 43.5           | 130           | N    | P |
| Barium    | mg/Kg | 86 - 116               | 250           | D | 1.46             | JD | 220            | 114           |      | P |
| Beryllium | mg/Kg | 80 - 120               | 54.6          | D | 0.37             | UD | 43.5           | 125           | N    | P |
| Cadmium   | mg/Kg | 84 - 116               | 58.6          | D | 0.37             | UD | 43.5           | 135           | N    | P |
| Calcium   | mg/Kg | 86 - 118               | 4470          | D | 185              | UD | 4400           | 102           |      | P |
| Chromium  | mg/Kg | 83 - 119               | 54.1          | D | 0.28             | JD | 43.5           | 124           | N    | P |
| Cobalt    | mg/Kg | 84 - 115               | 55.4          | D | 0.030            | JD | 43.5           | 127           | N    | P |
| Copper    | mg/Kg | 84 - 119               | 442           | D | 0.74             | UD | 440            | 102           |      | P |
| Iron      | mg/Kg | 81 - 124               | 2670          | D | 71.1             | D  | 2200           | 119           |      | P |
| Lead      | mg/Kg | 84 - 118               | 207           | D | 0.19             | JD | 220            | 95            |      | P |
| Magnesium | mg/Kg | 80 - 123               | 4340          | D | 185              | UD | 4400           | 100           |      | P |
| Manganese | mg/Kg | 85 - 116               | 400           | D | 0.60             | D  | 440            | 92            |      | P |
| Nickel    | mg/Kg | 84 - 119               | 55.2          | D | 0.37             | UD | 43.5           | 127           | N    | P |
| Potassium | mg/Kg | 85 - 119               | 2440          | D | 185              | UD | 2200           | 112           |      | P |
| Selenium  | mg/Kg | 80 - 119               | 56.2          | D | 1.85             | UD | 43.5           | 129           | N    | P |
| Silver    | mg/Kg | 83 - 118               | 1.17          | D | 0.37             | UD | 43.5           | 3             | N    | P |
| Sodium    | mg/Kg | 79 - 125               | 4350          | D | 185              | UD | 4400           | 100           |      | P |
| Thallium  | mg/Kg | 83 - 118               | 54.3          | D | 0.37             | UD | 43.5           | 125           | N    | P |
| Vanadium  | mg/Kg | 82 - 116               | 54.6          | D | 0.30             | JD | 43.5           | 125           | N    | P |
| Zinc      | mg/Kg | 82 - 119               | 425           | D | 1.85             | UD | 440            | 98            |      | P |