

## Data Validation Summary

| Location | Category  | Method                    | Qual | Qual Reason Code | Explanation   | COC      | Sample         | Analyte                                  |
|----------|-----------|---------------------------|------|------------------|---|----------|----------------|--|
| R-14 S1  | INORGANIC | EPA:335.4                 | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-828 | CAMO-18-148116 | Cyanide (Total)                          |
|          |           | EPA:350.1                 | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-828 | CAMO-18-148113 | Ammonia as Nitrogen                      |
|          |           | SW-846:6010C              | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-828 | CAMO-18-148113 | Vanadium                                 |
|          |           | SW-846:6020               | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-828 | CAMO-18-148113 | Chromium                                 |
|          |           |                           | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2018-828 | CAMO-18-148113 | Molybdenum                               |
|          | ORGANIC   | SW-846:8270D              | UJ   | SV12a            | The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.    | 2017-148 | CAMO-17-132223 | Benzoic Acid                             |
|          | RAD       | EPA:900                   | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Gross alpha<br>Gross beta                |
|          |           | EPA:901.1                 | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Cesium-137<br>Cobalt-60<br>Neptunium-237 |
|          |           |                           | U    | R5,R33           | R5: Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Potassium-40                             |
|          |           |                           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Sodium-22                                |
|          |           | EPA:905.0                 | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Strontium-90                             |
|          |           | Generic:Low_Level_Tritium | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2017-151 | CAMO-17-132223 | Tritium                                  |
|          |           |                           |      |                  |   | 2018-833 | CAMO-18-148116 | Tritium                                  |
|          |           | HASL-300:AM-241           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Americium-241                            |
|          |           | HASL-300:ISOPU            | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Plutonium-238<br>Plutonium-239/240       |
|          |           | HASL-300:ISOU             | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-828 | CAMO-18-148116 | Uranium-235/236                          |

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| R-46     | INORGANIC | EPA:300.0    | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-790             | CAMO-18-148114<br>CAMO-18-148581                   | Fluoride<br>Fluoride   |
|          |           | EPA:350.1    | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-148             | CAMO-17-132213                                     | Ammonia as Nitrogen  |
|          |           | EPA:365.4    | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-148             | CAMO-17-132213                                     | Total Phosphate as Phosphorus  |
|          |           |              | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2018-790             | CAMO-18-148114<br>CAMO-18-148581                   | Total Phosphate as Phosphorus<br>Total Phosphate as Phosphorus       |
|          |           | SW-846:6010C | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-790             | CAMO-18-148114                                     | Zinc   |
|          |           | SW-846:6020  | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-148<br>2018-790 | CAMO-17-132213<br>CAMO-18-148114<br>CAMO-18-148581 | Antimony<br>Chromium<br>Antimony<br>Antimony                         |
|          |           |              | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2018-790             | CAMO-18-148114<br>CAMO-18-148581                   | Chromium<br>Chromium   |
|          |           | SW-846:9060  | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-148<br>2018-790 | CAMO-17-132233<br>CAMO-18-148117<br>CAMO-18-148580 | Total Organic Carbon<br>Total Organic Carbon<br>Total Organic Carbon |
|          | ORGANIC   | SW-846:8270D | UJ   | SV12a            | The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.    | 2017-148             | CAMO-17-132233                                     | Benzoic Acid   |

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|          |          |                           |      |                  |   | 2018-790             | CAMO-18-148117                                     | Dinitrophenol[2,4-]<br>Hexachlorocyclopentadiene      |
|          |          |                           |      |                  |   |                      | CAMO-18-148580                                     | Dinitrophenol[2,4-]<br>Hexachlorocyclopentadiene      |
|          | RAD      | EPA:900                   | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117                                     | Gross alpha   |
|          |          |                           |      |                  |   |                      | CAMO-18-148580                                     | Gross alpha   |
|          |          | EPA:901.1                 | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117                                     | Cesium-137<br>Cobalt-60<br>Neptunium-237              |
|          |          |                           | U    | R5,R33           | R5: Analyte is not detected because the amount reported is less than the MDC. | 2018-790             | CAMO-18-148117                                     | Potassium-40  |
|          |          |                           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117<br>CAMO-18-148580                   | Sodium-22<br>Cesium-137<br>Cobalt-60<br>Neptunium-237 |
|          |          |                           | U    | R5,R33           | R5: Analyte is not detected because the amount reported is less than the MDC. | 2018-790             | CAMO-18-148580                                     | Potassium-40  |
|          |          |                           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148580                                     | Sodium-22   |
|          |          | EPA:905.0                 | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117<br>CAMO-18-148580                   | Strontium-90<br>Strontium-90                          |
|          |          | Generic:Low_Level_Tritium | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2017-151<br>2018-835 | CAMO-17-132233<br>CAMO-18-148117<br>CAMO-18-148580 | Tritium<br>Tritium<br>Tritium                         |
|          |          | HASL-300:AM-241           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117<br>CAMO-18-148580                   | Americium-241<br>Americium-241                        |
|          |          | HASL-300:ISOPU            | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.     | 2018-790             | CAMO-18-148117<br>CAMO-18-148580                   | Plutonium-238<br>Plutonium-239/240<br>Plutonium-238   |

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| R-60     |           |               |      |                  |   |          |                | Plutonium-239/240                                |
|          |           | HASL-300:ISOU | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-790 | CAMO-18-148117 | Uranium-235/236                                  |
|          |           |               |      |                  |   |          | CAMO-18-148580 | Uranium-235/236                                  |
|          | INORGANIC | EPA:350.1     | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-147 | CAMO-17-132216 | Ammonia as Nitrogen                              |
|          |           | EPA:351.2     | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2018-790 | CAMO-18-148118 | Total Kjeldahl Nitrogen                          |
|          |           |               | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2017-147 | CAMO-17-132236 | Total Kjeldahl Nitrogen                          |
|          |           | EPA:365.4     | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-147 | CAMO-17-132216 | Total Phosphate as Phosphorus                    |
|          |           |               | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2018-790 | CAMO-18-148115 | Total Phosphate as Phosphorus                    |
|          |           | SW-846:6020   | J    | J_LAB            | The analytical laboratory qualified the detected result as estimated (J) because the result was less the PQL but greater than the MDL | 2017-147 | CAMO-17-132216 | Arsenic<br>Chromium<br>Nickel                    |
|          |           |               |      |                  |   | 2018-790 | CAMO-18-148115 | Nickel   |
|          |           |               | U    | I4               | the sample result is =<5x the concentration of related analyte in the method blank.   | 2018-790 | CAMO-18-148115 | Chromium   |
|          | ORGANIC   | SW-846:8270D  | UJ   | SV12a            | The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.    | 2018-790 | CAMO-18-148118 | Dinitrophenol[2,4-]<br>Hexachlorocyclopentadiene |
|          |           |               |      |                  |   |          |                |  |
|          | RAD       | EPA:900       | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-790 | CAMO-18-148118 | Gross alpha                                      |
|          |           | EPA:901.1     | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-790 | CAMO-18-148118 | Cesium-137<br>Cobalt-60<br>Neptunium-237         |
|          |           |               | U    | R5,R33           | R5: Analyte is not detected because the amount reported is less than the MDC.   | 2018-790 | CAMO-18-148118 | Potassium-40                                     |
|          |           |               | U    | R5               | Analyte is not detected because the amount reported is less than the MDC.   | 2018-790 | CAMO-18-148118 | Sodium-22  |

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|          |          | EPA:905.0                 | U    | R5               | Analyte is not detected because the amount reported is less than the MDC. | 2018-790             | CAMO-18-148118                   | Strontium-90                       |
|          |          | Generic:Low_Level_Tritium | U    | R5               | Analyte is not detected because the amount reported is less than the MDC. | 2017-148<br>2018-835 | CAMO-17-132236<br>CAMO-18-148118 | Tritium<br>Tritium                 |
|          |          | HASL-300:AM-241           | U    | R5               | Analyte is not detected because the amount reported is less than the MDC. | 2018-790             | CAMO-18-148118                   | Americium-241                      |
|          |          | HASL-300:ISOPU            | U    | R5               | Analyte is not detected because the amount reported is less than the MDC. | 2018-790             | CAMO-18-148118                   | Plutonium-238<br>Plutonium-239/240 |