

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

November 1, 2016

Attn: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Quarterly Excursion Monitoring Report
Source Materials License No. SUA-1534, Docket No. 40-8943

Dear Sir or Madam:

Enclosed please find one copy of the Excursion Monitoring Report for the Crow Butte Uranium Project. The report is provided in accordance with License Condition 11.1(A) of Source Materials License SUA-1534. This report covers the third quarter of 2016.

If you have any questions concerning the report, please feel free to call me at (308) 665-2215 ext. 114.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Larry Teahon
Manager of Safety, Health, Environment & Quality

cc: Deputy Director, Division of Decommissioning
Uranium Recovery and Waste Programs
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Mail Stop T-8F5
11545 Rockville Pike
Two White Flint North
Rockville, MD 20852-2738

CBO – File

cc: CR – Electronic File

NM5520

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CROW BUTTE URANIUM PROJECT

**EXCURSION MONITORING
REPORT**

for

THIRD QUARTER, 2016

USNRC Source Materials License SUA 1534

**CAMECO RESOURCES
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Excursion Monitoring and Corrective Actions

On May 5, 2016, well SM6-28 was placed on excursion status for exceedance of upper control limits. The well remained on excursion status at the end of the quarter. The sixty (60) day excursion report for SM6-28 was submitted on July 1, 2016. The well was removed from excursion status on July 7, 2016 and stability monitoring on July 28, 2016.

A summary of the weekly excursion indicator parameters and laboratory reports are included in Appendix A and Appendix B respectively.

Mine Unit 6 and 8 Future Water Quality Monitoring

In order to get a better understanding of the water chemistry in the English Creek area of Mine Units 6 and 8, Crow Butte implemented the following sampling plan:

1. Collected in Q4-2015, ten isotopic uranium samples from Mine Unit 6 and 8 wellfields that have not undergone restoration (RO) treatment. (Data submitted February 8, 2016).
2. Collected in Q4-2015, seven isotopic uranium samples from Mine Unit 6 and 8 production zone monitor wells that have not been impacted by mining fluids (e.g. no evidence of increasing trends in excursion indicator parameters). (Data submitted February 8, 2016).
3. Collected in Q4-2015, twenty four isotopic uranium samples from Mine Unit 6 and 8 shallow monitoring well wells that have been on excursion or with increasing excursion indicator parameters trends. (Data submitted February 8, 2016).
4. Collected in Q1-2016, seven isotopic uranium samples from Mine Unit 6 and 8 shallow monitoring wells that have not been on excursion and which do not show evidence of increasing or unusual trends in the excursion indicator parameters. (Data submitted May 16, 2016).
5. Collected in Q3-2016, nine excursion parameter water samples from the sediment sampling locations along English Creek. The samples included the headwaters/spring areas, midstream, and downstream along with the downstream impoundments. (Appendix C)
6. Collected in Q4-2015, four core samples from four different locations within Mine Units 6 and 8. Testing of these samples will be based upon the results of the isotopic uranium sampling. (Data submitted February 8 2016).

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7. Collect quarterly uranium samples from twenty four shallow monitor wells within the English Creek area. (Q3 – 2016) (Appendix D)

Appendix A
Summary of
Weekly Excursion Indicator Parameter Values
Third Quarter, 2016



WV

Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 06/30/2016

Analysis Date: 06/30/2016

| Well ID | Alkalinity (mg/L) | Alk SCL | Alk MCL | Conductivity (µMho/cm) | Cond SCL | Cond MCL | Chloride (mg/L) | Cl SCL | Cl MCL |
|----------|----------------------|---------|---------|---------------------------|----------|----------|--------------------|--------|--------|
| CM06-025 | 301 | 433 | 361 | 1893 | 2952 | 2460 | 178 | 317 | 264 |
| CM06-026 | 302 | 448 | 373 | 1872 | 2952 | 2460 | 178 | 338 | 282 |
| CM06-028 | 317 | 449 | 374 | 1813 | 2894 | 2412 | 172 | 307 | 256 |
| CM06-029 | 311 | 448 | 373 | 1869 | 3024 | 2520 | 175 | 321 | 268 |
| CM06-030 | 315 | 459 | 383 | 1840 | 2952 | 2460 | 172 | 328 | 274 |
| CM06-031 | 317 | 464 | 386 | 1856 | 2851 | 2376 | 174 | 301 | 251 |
| CM06-032 | 317 | 461 | 384 | 1856 | 2981 | 2484 | 173 | 292 | 244 |
| CM08-027 | 317 | 475 | 396 | 1824 | 2794 | 2328 | 171 | 314 | 262 |
| CM08-028 | 322 | 480 | 400 | 1826 | 2650 | 2208 | 171 | 264 | 220 |
| SM06-023 | 255 | 314 | 262 | 548 | 691 | 576 | 6.9 | 23 | 19 |
| SM06-024 | 242 | 310 | 258 | 564 | 672 | 560 | 10 | 24 | 20 |
| SM06-025 | 217 | 324 | 270 | 559 | 696 | 580 | 13 | 24 | 20 |
| SM06-026 | 205 | 308 | 257 | 470 | 726 | 605 | 7.2 | 24 | 20 |
| SM06-027 | 226 | 317 | 264 | 511 | 677 | 564 | 7.6 | 23 | 20 |
| SM06-028 | 291 | 351 | 293 | 742 | 778 | 648 | 16 | 24 | 20 |
| SM08-026 | 227 | 317 | 264 | 551 | 720 | 600 | 9.3 | 24 | 20 |
| SM08-027 | 231 | 353 | 294 | 512 | 706 | 588 | 6.4 | 22 | 19 |
| SM08-028 | 248 | 328 | 274 | 597 | 801 | 667 | 8.1 | 24 | 20 |
| SM08-029 | 252 | 338 | 282 | 689 | 763 | 636 | 16 | 26 | 22 |
| SM08-030 | 194 | 284 | 236 | 444 | 672 | 560 | 9.9 | 38 | 32 |
| SM08-031 | 230 | 350 | 292 | 508 | 750 | 625 | 6.5 | 28 | 23 |
| SM11-016 | 142 | 213 | 178 | 297 | 461 | 384 | 2.1 | 23 | 19 |
| SM11-017 | 141 | 210 | 175 | 295 | 432 | 360 | 3 | 21 | 17 |
| SM11-018 | 139 | 207 | 173 | 300 | 475 | 396 | 3.5 | 28 | 23 |
| SM11-019 | 140 | 204 | 170 | 312 | 533 | 444 | 1.4 | 35 | 29 |
| SM11-020 | 161 | 235 | 196 | 406 | 590 | 492 | 5.3 | 23 | 19 |
| SM11-022 | 171 | 288 | 240 | 468 | 773 | 644 | 7.5 | 32 | 27 |
| SM11-023 | 167 | 246 | 205 | 416 | 662 | 552 | 6.8 | 32 | 27 |
| SM11-024 | 154 | 233 | 194 | 399 | 619 | 516 | 4.1 | 26 | 21 |
| SM11-025 | 159 | 235 | 196 | 407 | 590 | 492 | 3 | 21 | 18 |
| SM11-026 | 149 | 228 | 190 | 356 | 547 | 456 | 2.9 | 22 | 18 |



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: SM Wells
Lab ID: C16070399-001
Client Sample ID: SM6-28

Report Date: 07/22/16
Collection Date: 07/07/16
Date Received: 07/13/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|---------------------------|---------|--------|------------|---------|-------------|--------|---------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0765 | mg/L | | 0.0003 | | E200.8 | 07/21/16 13:01 / sf |
| Uranium, Activity | 5.2E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 07/21/16 13:01 / sf |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Appendix B

Monitor Well Laboratory Reports

Third Quarter, 2016

Submitted by:
Crow Butte Resources, Inc.
P.O. Box 169
Crawford, NE 69339

NRC
Excursion Monitoring Report
Quarter 3 of 2016

Submitted to:
Document Control Desk, Director
Office of Nuclear Material Safety & Safeguards
U.S.Nuclear Regulatory Commission
Washington, DC 20555-0001

Permit No. SUA-1534

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| BOW96-001 | 220 | 224 | 222 | 512 | 520 | 515 | 7.4 | 7.6 | 7.5 |
| CM02-005 | 356 | 386 | 367 | 2182 | 2316 | 2214 | 213 | 228 | 217.1 |
| CM02-006 | 275 | 278 | 276 | 1170 | 1196 | 1182 | 85 | 90 | 88.4 |
| CM02-007 | 304 | 309 | 307 | 1441 | 1505 | 1474 | 114 | 123 | 117.7 |
| CM03-005 | 298 | 301 | 299 | 1935 | 1966 | 1948 | 179 | 186 | 183.8 |
| CM03-006 | 299 | 302 | 300 | 1931 | 1945 | 1937 | 180 | 184 | 182.2 |
| CM04-001 | 306 | 310 | 308 | 1826 | 1844 | 1833 | 177 | 183 | 179.3 |
| CM04-002 | 302 | 307 | 305 | 1828 | 1846 | 1841 | 178 | 180 | 179.1 |
| CM04-003 | 299 | 306 | 302 | 1837 | 1849 | 1844 | 176 | 179 | 177 |
| CM04-004 | 300 | 306 | 303 | 1845 | 1849 | 1847 | 175 | 179 | 177.4 |
| CM05-001 | 307 | 310 | 308 | 1858 | 1874 | 1866 | 171 | 182 | 177.6 |
| CM05-002 | 301 | 306 | 304 | 1840 | 1850 | 1844 | 175 | 180 | 177.6 |
| CM05-003 | 304 | 308 | 307 | 1829 | 1845 | 1839 | 176 | 180 | 177.7 |
| CM05-004 | 309 | 312 | 310 | 1849 | 1855 | 1852 | 177 | 183 | 179.6 |
| CM05-005 | 300 | 308 | 306 | 1842 | 1849 | 1845 | 175 | 183 | 178 |
| CM05-006 | 302 | 307 | 304 | 1841 | 1849 | 1846 | 175 | 181 | 177.3 |
| CM05-007 | 301 | 306 | 304 | 1840 | 1847 | 1843 | 174 | 179 | 176.7 |
| CM05-008 | 302 | 308 | 306 | 1861 | 1874 | 1867 | 173 | 182 | 177.4 |
| CM05-009 | 300 | 304 | 302 | 1858 | 1865 | 1861 | 172 | 181 | 175.9 |
| CM05-010 | 291 | 295 | 294 | 1870 | 1890 | 1883 | 172 | 177 | 174.3 |
| CM05-011 | 300 | 308 | 304 | 1884 | 1914 | 1904 | 175 | 182 | 178.6 |
| CM05-012 | 295 | 298 | 297 | 1877 | 1896 | 1886 | 177 | 184 | 180 |
| CM05-013 | 284 | 290 | 288 | 1869 | 1884 | 1877 | 174 | 179 | 176.7 |
| CM05-018 | 299 | 303 | 302 | 1910 | 1916 | 1913 | 179 | 182 | 180.5 |
| CM05-019 | 300 | 303 | 301 | 1899 | 1907 | 1905 | 178 | 181 | 179.8 |
| CM05-020 | 302 | 345 | 314 | 1905 | 2127 | 1967 | 180 | 202 | 187.8 |
| CM05-021 | 299 | 303 | 301 | 1907 | 1918 | 1912 | 179 | 184 | 182.2 |
| CM05-022 | 298 | 302 | 301 | 1907 | 1916 | 1912 | 179 | 185 | 181.5 |
| CM05-023 | 295 | 299 | 297 | 1895 | 1904 | 1900 | 177 | 180 | 178.7 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| CM05-024 | 300 | 301 | 301 | 1921 | 1928 | 1924 | 177 | 184 | 181.5 |
| CM05-025 | 295 | 298 | 297 | 1920 | 1929 | 1924 | 172 | 178 | 175 |
| CM05-026 | 299 | 303 | 301 | 1929 | 1940 | 1934 | 178 | 185 | 182.2 |
| CM05-027 | 300 | 304 | 303 | 1936 | 1953 | 1947 | 180 | 187 | 184.3 |
| CM06-001 | 286 | 290 | 288 | 1847 | 1863 | 1854 | 169 | 177 | 172.9 |
| CM06-002 | 297 | 299 | 298 | 1899 | 1916 | 1908 | 175 | 181 | 178.4 |
| CM06-003 | 290 | 294 | 292 | 1895 | 1910 | 1901 | 170 | 179 | 174.9 |
| CM06-004 | 296 | 302 | 299 | 1901 | 1916 | 1910 | 173 | 179 | 176.9 |
| CM06-005 | 290 | 293 | 292 | 1939 | 1954 | 1947 | 175 | 183 | 179.7 |
| CM06-006 | 302 | 306 | 303 | 1915 | 1935 | 1926 | 175 | 184 | 179.1 |
| CM06-007 | 280 | 285 | 282 | 1935 | 1947 | 1941 | 176 | 179 | 177.4 |
| CM06-008 | 291 | 294 | 293 | 1913 | 1924 | 1919 | 174 | 177 | 175.9 |
| CM06-009 | 289 | 293 | 292 | 1907 | 1921 | 1914 | 173 | 178 | 175.5 |
| CM06-010 | 290 | 293 | 292 | 1917 | 1932 | 1925 | 176 | 181 | 177.5 |
| CM06-012 | 299 | 303 | 302 | 1904 | 1916 | 1911 | 178 | 182 | 180.5 |
| CM06-013 | 298 | 302 | 300 | 1906 | 1921 | 1913 | 179 | 182 | 180.7 |
| CM06-014 | 294 | 297 | 296 | 1900 | 1911 | 1905 | 177 | 183 | 178.8 |
| CM06-015 | 295 | 297 | 296 | 1912 | 1920 | 1917 | 177 | 182 | 179.2 |
| CM06-016A | 297 | 298 | 297 | 1902 | 1916 | 1911 | 175 | 180 | 177.8 |
| CM06-017 | 292 | 301 | 296 | 1895 | 1906 | 1903 | 174 | 179 | 177.5 |
| CM06-018 | 298 | 305 | 301 | 1900 | 1904 | 1902 | 175 | 179 | 177.8 |
| CM06-019 | 301 | 307 | 304 | 1885 | 1897 | 1893 | 174 | 180 | 177.5 |
| CM06-025 | 298 | 302 | 300 | 1867 | 1893 | 1880 | 176 | 179 | 177.5 |
| CM06-026 | 300 | 306 | 303 | 1869 | 1878 | 1873 | 173 | 178 | 176.5 |
| CM06-028 | 315 | 319 | 317 | 1807 | 1815 | 1812 | 169 | 172 | 171.2 |
| CM06-029 | 307 | 310 | 308 | 1865 | 1876 | 1869 | 174 | 179 | 176 |
| CM06-030 | 313 | 315 | 314 | 1834 | 1840 | 1838 | 173 | 177 | 174.3 |
| CM06-031 | 315 | 318 | 317 | 1849 | 1859 | 1856 | 173 | 178 | 175 |
| CM06-032 | 315 | 318 | 317 | 1850 | 1859 | 1855 | 173 | 176 | 174.3 |
| CM07-010 | 295 | 297 | 296 | 1871 | 1894 | 1879 | 179 | 185 | 182.3 |
| CM07-011 | 291 | 294 | 293 | 1899 | 1915 | 1906 | 179 | 184 | 182.3 |
| CM07-012 | 291 | 294 | 293 | 1894 | 1902 | 1899 | 180 | 185 | 182.3 |
| CM07-013 | 290 | 293 | 292 | 1913 | 1919 | 1916 | 178 | 182 | 180.7 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| CM07-014 | 290 | 295 | 293 | 1918 | 1926 | 1922 | 179 | 185 | 181 |
| CM07-015 | 296 | 299 | 298 | 1926 | 1934 | 1930 | 175 | 185 | 181.4 |
| CM07-016 | 297 | 301 | 299 | 1932 | 1939 | 1936 | 181 | 185 | 183.4 |
| CM08-001 | 286 | 289 | 287 | 1929 | 1940 | 1935 | 175 | 176 | 175.3 |
| CM08-002 | 288 | 295 | 291 | 1904 | 1917 | 1912 | 175 | 181 | 177.7 |
| CM08-003 | 282 | 295 | 285 | 1909 | 1916 | 1911 | 177 | 180 | 178.5 |
| CM08-004 | 294 | 298 | 295 | 1897 | 1906 | 1903 | 179 | 183 | 180.3 |
| CM08-005 | 286 | 288 | 287 | 1869 | 1895 | 1888 | 177 | 181 | 178.8 |
| CM08-006 | 296 | 301 | 298 | 1886 | 1908 | 1903 | 177 | 182 | 178.8 |
| CM08-007 | 303 | 317 | 310 | 1880 | 1934 | 1904 | 175 | 182 | 179.2 |
| CM08-008 | 310 | 312 | 311 | 1894 | 1908 | 1901 | 178 | 182 | 179.8 |
| CM08-009 | 312 | 318 | 315 | 1854 | 1867 | 1863 | 170 | 176 | 173.8 |
| CM08-010 | 311 | 322 | 319 | 1854 | 1877 | 1866 | 175 | 182 | 178.5 |
| CM08-011 | 313 | 316 | 314 | 1830 | 1848 | 1839 | 170 | 182 | 174.3 |
| CM08-012 | 313 | 316 | 315 | 1836 | 1854 | 1847 | 170 | 173 | 171.3 |
| CM08-019 | 316 | 318 | 317 | 1784 | 1819 | 1811 | 165 | 174 | 168.7 |
| CM08-020 | 316 | 320 | 318 | 1798 | 1814 | 1807 | 165 | 170 | 167.9 |
| CM08-021 | 314 | 320 | 316 | 1806 | 1817 | 1814 | 165 | 170 | 168.4 |
| CM08-022 | 318 | 321 | 320 | 1814 | 1825 | 1820 | 165 | 171 | 169.4 |
| CM08-026 | 312 | 318 | 316 | 1815 | 1826 | 1821 | 165 | 172 | 170.3 |
| CM08-027 | 315 | 320 | 317 | 1816 | 1825 | 1822 | 167 | 174 | 170.2 |
| CM08-028 | 317 | 344 | 324 | 1818 | 1923 | 1841 | 169 | 186 | 174.2 |
| CM09-008 | 296 | 300 | 297 | 1800 | 1806 | 1803 | 172 | 178 | 174.7 |
| CM09-009 | 302 | 304 | 304 | 1786 | 1804 | 1792 | 174 | 180 | 177.3 |
| CM09-010 | 300 | 302 | 301 | 1769 | 1776 | 1774 | 175 | 182 | 177 |
| CM09-011 | 301 | 304 | 303 | 1784 | 1799 | 1792 | 177 | 180 | 178.2 |
| CM09-012 | 300 | 303 | 302 | 1798 | 1813 | 1806 | 176 | 179 | 177.1 |
| CM09-013 | 294 | 299 | 298 | 1797 | 1816 | 1808 | 176 | 180 | 178.3 |
| CM09-014 | 298 | 302 | 301 | 1817 | 1829 | 1822 | 179 | 182 | 180.3 |
| CM09-015 | 298 | 303 | 301 | 1812 | 1822 | 1818 | 174 | 179 | 176.9 |
| CM09-016 | 304 | 306 | 305 | 1825 | 1835 | 1830 | 178 | 183 | 180.6 |
| CM09-017 | 302 | 304 | 303 | 1824 | 1830 | 1827 | 178 | 180 | 179 |
| CM09-018 | 297 | 301 | 300 | 1816 | 1826 | 1822 | 179 | 181 | 180 |

| WellID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| CM09-019 | 298 | 301 | 299 | 1830 | 1840 | 1836 | 177 | 183 | 180.3 |
| CM09-020 | 293 | 298 | 296 | 1848 | 1859 | 1852 | 179 | 183 | 180.6 |
| CM10-001 | 309 | 320 | 317 | 1839 | 1870 | 1852 | 173 | 177 | 174.5 |
| CM10-002 | 314 | 319 | 316 | 1835 | 1844 | 1841 | 168 | 173 | 170.3 |
| CM10-003 | 310 | 316 | 313 | 1840 | 1867 | 1851 | 171 | 177 | 173.8 |
| CM10-004 | 324 | 337 | 330 | 1878 | 1942 | 1913 | 175 | 189 | 181.5 |
| CM10-005 | 348 | 359 | 352 | 2073 | 2144 | 2104 | 221 | 234 | 226 |
| CM10-006 | 314 | 316 | 315 | 1833 | 1837 | 1835 | 168 | 174 | 170.5 |
| CM10-007 | 314 | 319 | 316 | 1833 | 1843 | 1837 | 167 | 173 | 169.5 |
| CM10-008 | 320 | 322 | 321 | 1832 | 1841 | 1837 | 171 | 179 | 172.9 |
| CM10-009 | 316 | 319 | 317 | 1817 | 1834 | 1826 | 168 | 175 | 170 |
| CM10-010 | 335 | 346 | 340 | 1916 | 1960 | 1937 | 179 | 187 | 183.6 |
| CM10-011 | 319 | 326 | 322 | 1839 | 1864 | 1848 | 171 | 174 | 171.9 |
| CM10-012 | 320 | 330 | 323 | 1804 | 1814 | 1808 | 163 | 168 | 165.4 |
| CM10-013 | 336 | 341 | 339 | 1740 | 1754 | 1747 | 160 | 166 | 162.9 |
| CM10-014 | 341 | 348 | 344 | 1705 | 1725 | 1715 | 159 | 163 | 161.1 |
| CM10-015 | 334 | 337 | 336 | 1749 | 1770 | 1762 | 159 | 164 | 161.4 |
| CM10-016 | 311 | 314 | 313 | 1822 | 1834 | 1830 | 159 | 161 | 159.7 |
| CM10-017 | 324 | 330 | 327 | 1824 | 1830 | 1827 | 158 | 163 | 160.1 |
| CM10-020 | 317 | 324 | 320 | 1795 | 1816 | 1806 | 162 | 165 | 163.3 |
| CM10-021 | 315 | 323 | 318 | 1814 | 1821 | 1816 | 163 | 166 | 164.3 |
| CM10-022 | 319 | 328 | 323 | 1823 | 1831 | 1827 | 163 | 170 | 165.9 |
| CM10-023 | 320 | 326 | 323 | 1825 | 1830 | 1828 | 162 | 171 | 165.6 |
| CM10-024 | 322 | 327 | 325 | 1832 | 1841 | 1836 | 164 | 169 | 166.6 |
| CM10-025 | 321 | 326 | 323 | 1816 | 1827 | 1820 | 164 | 172 | 166 |
| CM10-026 | 317 | 321 | 318 | 1805 | 1821 | 1815 | 163 | 173 | 166.3 |
| CM10-027 | 314 | 318 | 316 | 1838 | 1846 | 1841 | 169 | 173 | 171.3 |
| CM10-028 | 312 | 319 | 316 | 1822 | 1834 | 1829 | 166 | 172 | 169 |
| CM10-029 | 317 | 319 | 318 | 1824 | 1834 | 1828 | 167 | 172 | 169.6 |
| CM10-030 | 317 | 321 | 319 | 1823 | 1835 | 1829 | 166 | 173 | 169.6 |
| CM10-031 | 313 | 316 | 315 | 1813 | 1828 | 1822 | 165 | 169 | 167.1 |
| CM10-032 | 311 | 317 | 313 | 1847 | 1855 | 1851 | 160 | 163 | 161.7 |
| CM10-033 | 323 | 328 | 326 | 1804 | 1814 | 1807 | 159 | 165 | 160.4 |

| WellID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|------|------|----------|-----|-------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| CM10-034 | 324 | 332 | 328 | 1790 | 1802 | 1794 | 159 | 170 | 162.9 |
| CM11-001 | 295 | 301 | 299 | 1840 | 1862 | 1848 | 173 | 178 | 176 |
| CM11-002A | 299 | 304 | 302 | 1840 | 1855 | 1847 | 175 | 179 | 176.7 |
| CM11-003 | 308 | 313 | 310 | 1857 | 1881 | 1871 | 178 | 184 | 181 |
| CM11-004 | 301 | 304 | 302 | 1831 | 1840 | 1835 | 172 | 178 | 175.5 |
| CM11-005 | 299 | 304 | 301 | 1819 | 1833 | 1827 | 171 | 174 | 172.7 |
| CM11-006 | 307 | 322 | 315 | 1844 | 1896 | 1869 | 173 | 186 | 179.2 |
| CM11-007 | 294 | 299 | 297 | 1812 | 1816 | 1815 | 171 | 174 | 172.5 |
| CM11-008 | 299 | 304 | 302 | 1831 | 1845 | 1839 | 174 | 179 | 175.8 |
| CM11-009 | 289 | 297 | 292 | 1816 | 1823 | 1819 | 166 | 174 | 170.5 |
| CM11-010 | 295 | 304 | 299 | 1817 | 1856 | 1833 | 170 | 175 | 172.3 |
| CM11-011 | 307 | 388 | 335 | 1838 | 2164 | 1952 | 172 | 203 | 183.3 |
| CM11-012 | 295 | 300 | 298 | 1781 | 1799 | 1791 | 170 | 173 | 171.8 |
| CM11-013 | 297 | 302 | 300 | 1796 | 1804 | 1801 | 172 | 177 | 175 |
| CM11-014 | 297 | 304 | 301 | 1792 | 1806 | 1799 | 173 | 177 | 174.8 |
| CM11-015 | 300 | 302 | 301 | 1780 | 1787 | 1783 | 167 | 173 | 171.3 |
| CM11-016 | 299 | 301 | 300 | 1767 | 1772 | 1769 | 172 | 176 | 173.8 |
| CM11-017 | 300 | 303 | 301 | 1766 | 1775 | 1772 | 169 | 178 | 172.5 |
| CM11-018 | 313 | 320 | 315 | 1819 | 1843 | 1828 | 172 | 179 | 176.2 |
| CM11-019 | 306 | 316 | 311 | 1813 | 1846 | 1826 | 174 | 180 | 177.7 |
| IJ013P | 291 | 305 | 300 | 1296 | 1360 | 1330 | 108 | 116 | 112.3 |
| PR008 | 239 | 242 | 240 | 913 | 927 | 919 | 66 | 69 | 66.9 |
| PR015 | 266 | 276 | 273 | 1082 | 1146 | 1123 | 70 | 78 | 73.6 |
| SM02-001 | 190 | 193 | 191 | 526 | 538 | 533 | 14 | 14 | 14 |
| SM02-002 | 166 | 168 | 167 | 463 | 471 | 467 | 11 | 11 | 11 |
| SM02-003 | 195 | 198 | 197 | 548 | 555 | 553 | 16 | 17 | 16.1 |
| SM03-001 | 206 | 209 | 207 | 667 | 675 | 672 | 13 | 14 | 13.9 |
| SM03-002 | 176 | 179 | 178 | 446 | 451 | 448 | 3.4 | 3.6 | 3.5 |
| SM03-003 | 175 | 178 | 176 | 455 | 458 | 457 | 5.4 | 5.8 | 5.6 |
| SM04-001 | 155 | 158 | 156 | 362 | 368 | 366 | 2.4 | 3 | 2.7 |
| SM04-002 | 187 | 192 | 189 | 632 | 641 | 637 | 13 | 14 | 13.8 |
| SM04-003 | 183 | 189 | 186 | 618 | 626 | 622 | 12 | 12 | 12 |
| SM04-004 | 207 | 209 | 208 | 621 | 631 | 625 | 12 | 13 | 12.2 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM04-005A | 195 | 197 | 196 | 533 | 541 | 537 | 11 | 11 | 11 |
| SM04-006 | 265 | 268 | 266 | 647 | 663 | 657 | 13 | 14 | 13.1 |
| SM04-007 | 179 | 183 | 181 | 521 | 526 | 524 | 17 | 17 | 17 |
| SM04-008 | 288 | 294 | 291 | 685 | 708 | 697 | 11 | 12 | 11.7 |
| SM04-009 | 282 | 285 | 284 | 676 | 687 | 682 | 12 | 12 | 12 |
| SM04-010A | 295 | 297 | 296 | 710 | 718 | 714 | 12 | 12 | 12 |
| SM04-011A | 291 | 293 | 292 | 698 | 710 | 705 | 11 | 11 | 11 |
| SM05-001 | 231 | 234 | 232 | 599 | 609 | 604 | 12 | 12 | 12 |
| SM05-002 | 189 | 192 | 191 | 448 | 457 | 453 | 5.6 | 5.7 | 5.6 |
| SM05-003 | 224 | 228 | 225 | 583 | 594 | 589 | 12 | 12 | 12 |
| SM05-004 | 207 | 210 | 208 | 558 | 570 | 564 | 16 | 16 | 16 |
| SM05-005 | 234 | 236 | 235 | 595 | 605 | 601 | 11 | 11 | 11 |
| SM05-006 | 207 | 210 | 208 | 570 | 581 | 576 | 13 | 13 | 13 |
| SM05-007 | 210 | 214 | 213 | 566 | 580 | 573 | 9.3 | 9.7 | 9.5 |
| SM05-008 | 206 | 209 | 207 | 553 | 563 | 559 | 12 | 12 | 12 |
| SM05-009 | 205 | 207 | 206 | 547 | 556 | 552 | 11 | 11 | 11 |
| SM05-010 | 207 | 210 | 208 | 553 | 559 | 556 | 10 | 11 | 10.3 |
| SM05-011 | 215 | 216 | 215 | 568 | 577 | 574 | 10 | 11 | 10.2 |
| SM05-012 | 208 | 210 | 209 | 552 | 563 | 558 | 10 | 10 | 10 |
| SM05-013 | 198 | 201 | 199 | 547 | 554 | 550 | 12 | 12 | 12 |
| SM05-014 | 180 | 183 | 181 | 479 | 488 | 485 | 8.6 | 9.2 | 8.7 |
| SM05-015 | 202 | 204 | 203 | 543 | 550 | 547 | 12 | 12 | 12 |
| SM05-016 | 182 | 183 | 183 | 450 | 458 | 454 | 5.3 | 5.6 | 5.5 |
| SM05-017 | 166 | 168 | 166 | 413 | 420 | 416 | 2 | 2.4 | 2.2 |
| SM05-018 | 172 | 173 | 172 | 432 | 438 | 435 | 1.3 | 3.4 | 2.9 |
| SM05-019 | 183 | 184 | 184 | 477 | 487 | 482 | 4.6 | 4.8 | 4.7 |
| SM05-020 | 175 | 179 | 177 | 474 | 487 | 482 | 4.9 | 5.5 | 5.2 |
| SM05-021 | 176 | 179 | 178 | 457 | 463 | 460 | 4.6 | 4.8 | 4.8 |
| SM05-022 | 182 | 184 | 183 | 464 | 469 | 467 | 3.5 | 3.9 | 3.6 |
| SM05-023 | 180 | 182 | 181 | 458 | 465 | 462 | 3.3 | 3.5 | 3.4 |
| SM05-024 | 173 | 175 | 174 | 442 | 449 | 446 | 5.2 | 5.4 | 5.3 |
| SM05-025 | 171 | 175 | 173 | 463 | 479 | 469 | 6.1 | 6.9 | 6.4 |
| SM06-001 | 207 | 211 | 209 | 529 | 540 | 537 | 7.2 | 7.8 | 7.5 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM06-002 | 204 | 208 | 206 | 540 | 553 | 547 | 10 | 10 | 10 |
| SM06-003 | 201 | 203 | 202 | 535 | 546 | 541 | 9.9 | 11 | 10.1 |
| SM06-004 | 206 | 210 | 207 | 518 | 531 | 526 | 8.1 | 8.5 | 8.3 |
| SM06-005 | 213 | 215 | 214 | 511 | 522 | 518 | 6.9 | 7.5 | 7.1 |
| SM06-006 | 222 | 224 | 223 | 470 | 480 | 475 | 3.2 | 3.5 | 3.4 |
| SM06-007 | 224 | 227 | 226 | 488 | 499 | 494 | 6.3 | 6.6 | 6.5 |
| SM06-008 | 204 | 208 | 206 | 492 | 502 | 498 | 7.8 | 8.3 | 8.0 |
| SM06-009 | 220 | 223 | 221 | 479 | 492 | 486 | 5.9 | 6.5 | 6.2 |
| SM06-010 | 203 | 205 | 204 | 487 | 499 | 494 | 8.1 | 8.5 | 8.4 |
| SM06-011 | 211 | 215 | 213 | 525 | 538 | 530 | 12 | 12 | 12 |
| SM06-012 | 235 | 236 | 236 | 518 | 530 | 524 | 7.3 | 7.9 | 7.6 |
| SM06-013 | 240 | 242 | 241 | 520 | 535 | 526 | 6.5 | 6.7 | 6.6 |
| SM06-014 | 203 | 206 | 204 | 547 | 554 | 551 | 12 | 13 | 12.3 |
| SM06-015 | 205 | 206 | 206 | 533 | 541 | 538 | 11 | 11 | 11 |
| SM06-016 | 209 | 210 | 209 | 443 | 450 | 447 | 3.4 | 3.9 | 3.7 |
| SM06-017 | 233 | 236 | 234 | 478 | 488 | 484 | 3.7 | 4 | 3.9 |
| SM06-018 | 199 | 200 | 200 | 546 | 555 | 552 | 14 | 15 | 14.7 |
| SM06-019 | 204 | 209 | 207 | 498 | 512 | 504 | 9.1 | 9.6 | 9.3 |
| SM06-020 | 213 | 214 | 214 | 567 | 608 | 586 | 14 | 16 | 14.7 |
| SM06-021 | 217 | 218 | 218 | 564 | 588 | 575 | 14 | 15 | 14.3 |
| SM06-022 | 207 | 209 | 209 | 472 | 481 | 477 | 6.8 | 6.9 | 6.9 |
| SM06-023 | 246 | 253 | 250 | 537 | 550 | 543 | 6.2 | 6.8 | 6.6 |
| SM06-024 | 237 | 241 | 239 | 551 | 564 | 559 | 9.4 | 10 | 9.8 |
| SM06-025 | 215 | 217 | 216 | 551 | 583 | 561 | 13 | 13 | 13 |
| SM06-026 | 204 | 206 | 205 | 471 | 475 | 473 | 7.2 | 7.5 | 7.3 |
| SM06-027 | 223 | 226 | 225 | 505 | 511 | 508 | 7.2 | 7.6 | 7.5 |
| SM06-028 | 279 | 290 | 284 | 694 | 744 | 722 | 15 | 17 | 16.1 |
| SM07-001 | 172 | 186 | 175 | 427 | 471 | 439 | 3.2 | 4.8 | 3.7 |
| SM07-002 | 163 | 166 | 164 | 401 | 406 | 403 | 3.3 | 3.8 | 3.5 |
| SM07-003 | 169 | 171 | 169 | 432 | 439 | 436 | 4.5 | 4.9 | 4.7 |
| SM07-004 | 162 | 165 | 164 | 397 | 403 | 401 | 3.4 | 3.8 | 3.5 |
| SM07-005 | 166 | 170 | 168 | 419 | 432 | 424 | 3.3 | 3.6 | 3.5 |
| SM07-006 | 151 | 154 | 152 | 364 | 372 | 367 | 4.6 | 5 | 4.8 |

| WellID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM07-007 | 168 | 171 | 169 | 429 | 435 | 432 | 4.2 | 4.9 | 4.5 |
| SM07-008 | 166 | 169 | 168 | 475 | 483 | 480 | 8 | 8.5 | 8.3 |
| SM07-009 | 167 | 169 | 167 | 419 | 423 | 421 | 4 | 4.3 | 4.2 |
| SM07-010 | 166 | 170 | 168 | 438 | 444 | 441 | 3.8 | 4 | 3.9 |
| SM07-011 | 141 | 143 | 142 | 341 | 345 | 343 | 3 | 3.2 | 3.1 |
| SM07-012 | 166 | 168 | 166 | 438 | 443 | 441 | 4.3 | 4.5 | 4.4 |
| SM07-013 | 150 | 153 | 151 | 368 | 372 | 369 | 4.9 | 5.3 | 5.1 |
| SM07-014 | 135 | 137 | 136 | 330 | 334 | 332 | 2.6 | 3.1 | 2.8 |
| SM07-015 | 141 | 144 | 143 | 332 | 336 | 334 | 3 | 3.3 | 3.2 |
| SM07-016 | 138 | 142 | 140 | 328 | 332 | 330 | 3.1 | 3.2 | 3.1 |
| SM07-017 | 171 | 179 | 175 | 389 | 400 | 396 | 2.8 | 3.5 | 3.2 |
| SM07-018 | 136 | 140 | 138 | 331 | 338 | 335 | 2.7 | 3.3 | 3.0 |
| SM07-019 | 142 | 145 | 143 | 349 | 352 | 351 | 3.2 | 3.8 | 3.3 |
| SM07-020 | 146 | 149 | 147 | 340 | 344 | 342 | 2 | 2.2 | 2.1 |
| SM07-021 | 143 | 145 | 144 | 340 | 343 | 342 | 2.2 | 2.8 | 2.6 |
| SM07-022 | 147 | 149 | 148 | 342 | 345 | 343 | 2.5 | 2.8 | 2.6 |
| SM07-023 | 175 | 178 | 177 | 449 | 456 | 453 | 3.8 | 4 | 3.9 |
| SM07-024 | 186 | 190 | 187 | 576 | 590 | 583 | 8.3 | 8.5 | 8.4 |
| SM07-025 | 155 | 157 | 155 | 357 | 362 | 359 | 2.9 | 3.2 | 3.0 |
| SM08-001 | 233 | 236 | 234 | 508 | 515 | 511 | 6.5 | 6.7 | 6.6 |
| SM08-002 | 238 | 240 | 239 | 521 | 530 | 526 | 6.1 | 6.5 | 6.2 |
| SM08-003 | 229 | 233 | 232 | 511 | 520 | 515 | 6.8 | 7.1 | 7.0 |
| SM08-004 | 223 | 228 | 224 | 521 | 528 | 526 | 9.3 | 9.8 | 9.6 |
| SM08-005 | 245 | 250 | 247 | 558 | 578 | 568 | 8.3 | 9.5 | 8.8 |
| SM08-006 | 243 | 246 | 245 | 568 | 602 | 584 | 9.3 | 11 | 9.9 |
| SM08-007 | 247 | 251 | 249 | 583 | 607 | 597 | 9.6 | 11 | 10.3 |
| SM08-008 | 238 | 240 | 239 | 511 | 518 | 515 | 5.7 | 6.1 | 5.9 |
| SM08-009 | 238 | 240 | 239 | 510 | 521 | 515 | 5.7 | 6.1 | 6.0 |
| SM08-010 | 238 | 242 | 240 | 563 | 593 | 581 | 9.3 | 11 | 9.9 |
| SM08-011 | 231 | 233 | 232 | 549 | 560 | 556 | 9 | 9.3 | 9.1 |
| SM08-012 | 241 | 243 | 242 | 580 | 589 | 585 | 9.4 | 9.7 | 9.6 |
| SM08-013 | 227 | 228 | 227 | 548 | 556 | 552 | 12 | 13 | 12.2 |
| SM08-014 | 231 | 232 | 232 | 564 | 583 | 576 | 11 | 13 | 11.8 |

| Well-ID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM08-015 | 222 | 224 | 223 | 545 | 554 | 550 | 8.4 | 8.9 | 8.7 |
| SM08-016 | 227 | 228 | 228 | 566 | 579 | 574 | 8.9 | 9.2 | 9.0 |
| SM08-017 | 237 | 241 | 239 | 552 | 561 | 556 | 8.2 | 8.6 | 8.4 |
| SM08-018 | 228 | 230 | 229 | 537 | 548 | 542 | 9.4 | 9.7 | 9.6 |
| SM08-019 | 232 | 235 | 233 | 548 | 552 | 550 | 8.8 | 9.3 | 9.0 |
| SM08-020 | 224 | 227 | 225 | 553 | 562 | 558 | 8.5 | 9 | 8.8 |
| SM08-021 | 225 | 228 | 227 | 556 | 584 | 572 | 9.1 | 9.6 | 9.3 |
| SM08-022 | 237 | 241 | 239 | 602 | 651 | 630 | 10 | 11 | 10.4 |
| SM08-023 | 224 | 227 | 226 | 548 | 572 | 563 | 8.9 | 9.5 | 9.2 |
| SM08-024 | 224 | 228 | 226 | 552 | 581 | 562 | 9.2 | 9.8 | 9.4 |
| SM08-025 | 241 | 248 | 244 | 624 | 640 | 635 | 11 | 12 | 11.9 |
| SM08-026 | 223 | 226 | 225 | 535 | 550 | 541 | 8.9 | 9.1 | 9.0 |
| SM08-027 | 226 | 230 | 228 | 502 | 511 | 506 | 6.2 | 6.4 | 6.3 |
| SM08-028 | 235 | 244 | 239 | 544 | 583 | 558 | 7 | 7.6 | 7.3 |
| SM08-029 | 252 | 255 | 254 | 661 | 690 | 678 | 15 | 16 | 15.5 |
| SM08-030 | 193 | 196 | 194 | 447 | 451 | 449 | 10 | 11 | 10.8 |
| SM08-031 | 229 | 231 | 230 | 509 | 513 | 510 | 6.4 | 6.6 | 6.5 |
| SM09-001 | 167 | 169 | 168 | 413 | 420 | 417 | 3.3 | 3.6 | 3.5 |
| SM09-002 | 161 | 163 | 162 | 384 | 388 | 386 | 2.1 | 3.5 | 3.2 |
| SM09-003 | 159 | 161 | 160 | 380 | 385 | 383 | 2.9 | 3.5 | 3.1 |
| SM09-004 | 146 | 148 | 147 | 367 | 372 | 370 | 5 | 5.3 | 5.1 |
| SM09-005 | 142 | 145 | 143 | 310 | 318 | 314 | 2.1 | 2.7 | 2.6 |
| SM09-006 | 140 | 143 | 142 | 304 | 314 | 308 | 2.1 | 3 | 2.5 |
| SM09-007 | 162 | 164 | 162 | 392 | 403 | 397 | 3.2 | 3.5 | 3.4 |
| SM09-008 | 162 | 164 | 163 | 386 | 395 | 391 | 2 | 2.6 | 2.3 |
| SM09-009 | 151 | 154 | 152 | 366 | 373 | 369 | 3.3 | 3.6 | 3.4 |
| SM09-010 | 145 | 148 | 146 | 341 | 348 | 344 | 2.4 | 2.7 | 2.5 |
| SM09-011 | 146 | 149 | 148 | 348 | 357 | 353 | 2.9 | 3.2 | 3 |
| SM09-012 | 161 | 163 | 162 | 388 | 397 | 392 | 2.6 | 2.8 | 2.7 |
| SM09-013 | 143 | 146 | 144 | 333 | 340 | 336 | 3 | 3.3 | 3.2 |
| SM09-014 | 139 | 141 | 140 | 314 | 321 | 317 | 1.7 | 2.1 | 1.9 |
| SM09-015 | 137 | 144 | 139 | 312 | 324 | 316 | 1.7 | 2.3 | 2.1 |
| SM09-016 | 140 | 143 | 141 | 297 | 306 | 302 | 1.2 | 1.9 | 1.6 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|-----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM09-017 | 138 | 142 | 139 | 316 | 325 | 321 | 1.3 | 3.2 | 2.9 |
| SM09-018 | 142 | 146 | 143 | 318 | 324 | 321 | 1.1 | 2.2 | 1.9 |
| SM09-019 | 135 | 138 | 136 | 306 | 313 | 309 | 2.3 | 2.7 | 2.6 |
| SM09-020 | 138 | 141 | 139 | 313 | 318 | 315 | 2.4 | 2.9 | 2.7 |
| SM10-001 | 284 | 296 | 290 | 697 | 711 | 706 | 14 | 15 | 14.7 |
| SM10-002 | 224 | 225 | 224 | 517 | 520 | 518 | 7.5 | 7.9 | 7.7 |
| SM10-003 | 250 | 257 | 254 | 563 | 567 | 564 | 7.4 | 7.8 | 7.6 |
| SM10-004 | 240 | 241 | 241 | 531 | 536 | 534 | 6.6 | 6.9 | 6.8 |
| SM10-005 | 239 | 241 | 240 | 527 | 534 | 531 | 6.7 | 6.9 | 6.8 |
| SM10-006 | 277 | 289 | 283 | 656 | 686 | 673 | 12 | 12 | 12 |
| SM10-007 | 277 | 280 | 278 | 668 | 676 | 672 | 13 | 14 | 13.2 |
| SM10-008 | 243 | 252 | 246 | 557 | 595 | 576 | 9.8 | 11 | 10.1 |
| SM10-009 | 247 | 252 | 250 | 553 | 566 | 561 | 8.1 | 8.7 | 8.4 |
| SM10-010 | 239 | 241 | 240 | 535 | 542 | 538 | 7.2 | 7.9 | 7.7 |
| SM10-011 | 240 | 242 | 241 | 568 | 577 | 571 | 9.3 | 9.7 | 9.4 |
| SM10-012 | 253 | 258 | 255 | 602 | 618 | 609 | 10 | 11 | 10.8 |
| SM10-013 | 232 | 234 | 234 | 536 | 545 | 540 | 8.4 | 8.9 | 8.7 |
| SM10-014A | 243 | 245 | 244 | 569 | 578 | 574 | 9.6 | 10 | 9.9 |
| SM10-015 | 240 | 241 | 241 | 547 | 552 | 550 | 8.9 | 9.2 | 9.1 |
| SM10-016 | 251 | 254 | 252 | 575 | 587 | 583 | 11 | 11 | 11 |
| SM10-017 | 244 | 247 | 245 | 551 | 561 | 557 | 10 | 11 | 10.7 |
| SM10-018 | 237 | 242 | 240 | 534 | 546 | 541 | 8.1 | 9 | 8.6 |
| SM10-019 | 245 | 250 | 247 | 562 | 572 | 568 | 10 | 11 | 10.4 |
| SM10-020 | 232 | 235 | 234 | 574 | 588 | 581 | 20 | 22 | 20.7 |
| SM10-021 | 235 | 237 | 236 | 597 | 608 | 604 | 22 | 24 | 22.9 |
| SM10-022 | 240 | 242 | 241 | 547 | 556 | 552 | 11 | 11 | 11 |
| SM10-023 | 233 | 236 | 235 | 564 | 570 | 566 | 16 | 16 | 16 |
| SM10-024 | 227 | 230 | 228 | 542 | 551 | 546 | 11 | 13 | 11.7 |
| SM10-025 | 225 | 228 | 226 | 534 | 539 | 536 | 11 | 11 | 11 |
| SM10-026 | 243 | 246 | 244 | 579 | 586 | 583 | 15 | 15 | 15 |
| SM10-027 | 238 | 257 | 244 | 546 | 580 | 556 | 9.7 | 10 | 9.9 |
| SM10-028A | 226 | 232 | 228 | 598 | 610 | 606 | 27 | 28 | 27.7 |
| SM10-029A | 265 | 268 | 267 | 607 | 614 | 610 | 12 | 12 | 12 |

| Well ID | Alkalinity | | | Conductivity | | | Chloride | | |
|----------|------------|-----|------|--------------|-----|------|----------|-----|------|
| | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean |
| SM10-030 | 235 | 242 | 238 | 527 | 542 | 535 | 7 | 7.5 | 7.3 |
| SM10-031 | 235 | 238 | 236 | 539 | 547 | 544 | 7.5 | 7.9 | 7.7 |
| SM10-032 | 235 | 238 | 236 | 523 | 532 | 529 | 6.5 | 7.1 | 6.7 |
| SM11-001 | 161 | 163 | 162 | 406 | 412 | 409 | 5.3 | 5.6 | 5.4 |
| SM11-002 | 139 | 141 | 140 | 321 | 327 | 324 | 3.5 | 3.8 | 3.7 |
| SM11-003 | 142 | 143 | 142 | 319 | 323 | 322 | 1.9 | 2.4 | 2.3 |
| SM11-004 | 139 | 141 | 140 | 306 | 310 | 309 | 1.8 | 2.2 | 2.0 |
| SM11-005 | 138 | 140 | 139 | 317 | 321 | 319 | 3.1 | 3.6 | 3.3 |
| SM11-006 | 142 | 144 | 143 | 322 | 327 | 325 | 4 | 4.4 | 4.2 |
| SM11-007 | 141 | 144 | 143 | 304 | 314 | 309 | 2.9 | 3.3 | 3.0 |
| SM11-009 | 149 | 152 | 151 | 306 | 314 | 310 | 1 | 1.3 | 1.2 |
| SM11-010 | 155 | 158 | 156 | 319 | 326 | 322 | 0.9 | 1.7 | 1.4 |
| SM11-011 | 148 | 151 | 150 | 345 | 354 | 349 | 2.4 | 3.1 | 2.8 |
| SM11-012 | 143 | 145 | 144 | 327 | 338 | 332 | 3.2 | 4 | 3.6 |
| SM11-013 | 140 | 142 | 141 | 293 | 301 | 296 | 1.6 | 2 | 1.9 |
| SM11-014 | 136 | 139 | 137 | 294 | 301 | 297 | 1.7 | 2.7 | 2.2 |
| SM11-015 | 136 | 138 | 137 | 304 | 313 | 308 | 1.6 | 2.7 | 2.4 |
| SM11-016 | 141 | 145 | 144 | 299 | 303 | 301 | 2 | 2.2 | 2.1 |
| SM11-017 | 141 | 144 | 142 | 294 | 298 | 296 | 2.4 | 3.1 | 2.9 |
| SM11-018 | 139 | 141 | 139 | 301 | 305 | 303 | 3.4 | 3.6 | 3.5 |
| SM11-019 | 140 | 142 | 140 | 313 | 317 | 315 | 1.5 | 1.9 | 1.8 |
| SM11-020 | 160 | 162 | 161 | 402 | 407 | 405 | 4.9 | 5.3 | 5.1 |
| SM11-022 | 167 | 169 | 168 | 460 | 467 | 464 | 6.9 | 7.4 | 7.1 |
| SM11-023 | 165 | 168 | 166 | 409 | 417 | 414 | 7.5 | 7.7 | 7.6 |
| SM11-024 | 155 | 157 | 156 | 402 | 407 | 405 | 3.6 | 4.6 | 3.9 |
| SM11-025 | 158 | 159 | 159 | 402 | 411 | 408 | 2.7 | 3 | 2.8 |
| SM11-026 | 147 | 151 | 149 | 333 | 361 | 353 | 2.5 | 3 | 2.8 |

Appendix C

Laboratory Reports

Nine Excursion Parameter Water Samples

Sediment Sampling Points along English Creek

Third Quarter, 2016

E-1

E-2

E-5

I-3

I-4

I-5

H-1

H-2

H-3



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-001
Client Sample ID: E-1

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 232 | mg/L | | 5 | | A2320 B | 09/24/16 21:55 / ljl |
| Chloride | 14 | mg/L | | 1 | | E300.0 | 09/25/16 12:15 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 562 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:42 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-002
Client Sample ID: E-2

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 312 | mg/L | | 5 | | A2320 B | 09/24/16 22:12 / ljl |
| Chloride | 9 | mg/L | | 1 | | E300.0 | 09/25/16 12:29 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 589 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:45 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-006
Client Sample ID: E-5

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 224 | mg/L | | 5 | | A2320 B | 09/24/16 22:53 / ljl |
| Chloride | 14 | mg/L | | 1 | | E300.0 | 09/25/16 13:27 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 508 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:57 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-007
Client Sample ID: I-3

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 391 | mg/L | | 5 | | A2320 B | 09/24/16 23:01 / Ijl |
| Chloride | 24 | mg/L | | 1 | | E300.0 | 09/25/16 13:42 / Ijl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 841 | umhos/cm | | 5 | | A2510 B | 10/05/16 10:00 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-008
Client Sample ID: I-4

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 405 | mg/L | | 5 | | A2320 B | 09/24/16 23:10 / ljl |
| Chloride | 19 | mg/L | | 1 | | E300.0 | 09/25/16 13:56 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 828 | umhos/cm | | 5 | | A2510 B | 10/05/16 10:03 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-009
Client Sample ID: I-5

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 168 | mg/L | | 5 | | A2320 B | 09/24/16 23:18 / ljl |
| Chloride | 16 | mg/L | | 1 | | E300.0 | 09/25/16 14:11 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 422 | umhos/cm | | 5 | | A2510 B | 10/05/16 10:06 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-003
Client Sample ID: H-1

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 306 | mg/L | | 5 | | A2320 B | 09/24/16 22:28 / Ijl |
| Chloride | 25 | mg/L | | 1 | | E300.0 | 09/25/16 12:44 / Ijl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 664 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:48 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-004
Client Sample ID: H-2

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 280 | mg/L | | 5 | | A2320 B | 09/24/16 22:37 / ljl |
| Chloride | 12 | mg/L | | 1 | | E300.0 | 09/25/16 12:58 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 548 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:51 / bah |

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: English Creek SW Excursion Parameter Samples 3rd Q
Lab ID: C16090747-005
Client Sample ID: H-3

Report Date: 10/10/16
Collection Date: 09/19/16
Date Received: 09/21/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------|----------|------------|----|-------------|---------|----------------------|
| MAJOR IONS | | | | | | | |
| Alkalinity, Total as CaCO ₃ | 329 | mg/L | | 5 | | A2320 B | 09/24/16 22:45 / ljl |
| Chloride | 23 | mg/L | | 1 | | E300.0 | 09/25/16 13:13 / ljl |
| PHYSICAL PROPERTIES | | | | | | | |
| Conductivity @ 25 C | 801 | umhos/cm | | 5 | | A2510 B | 10/05/16 09:54 / bah |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

Appendix D

Laboratory Reports

Thirty Uranium Samples

Shallow Monitor Wells Located in the English Creeks Drainage

Third Quarter, 2016

| | |
|---------------|---------------|
| SM6-11 | SM8-4 |
| SM6-12 | SM8-5 |
| SM6-13 | SM8-6 |
| SM6-19 | SM8-7 |
| SM6-20 | SM8-10 |
| SM6-21 | SM8-12 |
| SM6-23 | SM8-14 |
| SM6-24 | SM8-21 |
| SM6-25 | SM8-22 |
| SM6-28 | SM8-24 |
| | SM8-25 |
| | SM8-26 |
| | SM8-28 |
| | SM8-29 |



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-001
Client Sample ID: SM6-11

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0126 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:05 / sf |
| Uranium, Activity | 8.6E-09 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:05 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.63 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.19 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-002
Client Sample ID: SM6-12

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0115 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:07 / sf |
| Uranium, Activity | 7.8E-09 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:07 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.39 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-003
Client Sample ID: SM6-13

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0208 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:15 / sf |
| Uranium, Activity | 1.4E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:15 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.29 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.15 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-004
Client Sample ID: SM6-19

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0103 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:16 / sf |
| Uranium, Activity | 7.0E-09 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:16 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.43 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.17 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-005
Client Sample ID: SM6-20

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0130 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:18 / sf |
| Uranium, Activity | 8.8E-09 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:18 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.35 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.17 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-006
Client Sample ID: SM6-21

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0315 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:19 / sf |
| Uranium, Activity | 2.1E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:19 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.45 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-008
Client Sample ID: SM6-23

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0151 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:23 / sf |
| Uranium, Activity | 1.0E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:23 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.52 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.20 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.24 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-009
Client Sample ID: SM6-24

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0295 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:24 / sf |
| Uranium, Activity | 2.0E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:24 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.57 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.19 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-010
Client Sample ID: SM6-25

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0709 | mg/L | | 0.0003 | | E200.8 | 09/28/16 16:26 / sf |
| Uranium, Activity | 4.8E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 16:26 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.48 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 precision (±) | 0.17 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/04/16 13:48 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-012
Client Sample ID: SM6-28

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0618 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:01 / sf |
| Uranium, Activity | 4.2E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:01 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.39 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.16 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-015
Client Sample ID: SM8-4

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0164 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:06 / sf |
| Uranium, Activity | 1.1E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:06 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.43 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.17 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-016
Client Sample ID: SM8-5

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0271 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:07 / sf |
| Uranium, Activity | 1.8E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:07 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.42 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.17 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.19 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-017
Client Sample ID: SM8-6

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0428 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:09 / sf |
| Uranium, Activity | 2.9E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:09 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.43 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.19 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.23 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-018
Client Sample ID: SM8-7

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0447 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:10 / sf |
| Uranium, Activity | 3.0E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:10 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.72 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.21 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.22 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-019
Client Sample ID: SM8-10

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0374 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:12 / sf |
| Uranium, Activity | 2.5E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:12 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.66 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.19 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-020
Client Sample ID: SM8-12

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0228 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:14 / sf |
| Uranium, Activity | 1.6E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:14 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.51 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.19 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-021
Client Sample ID: SM8-14

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0218 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:22 / sf |
| Uranium, Activity | 1.5E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:22 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.48 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-022
Client Sample ID: SM8-21

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0177 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:23 / sf |
| Uranium, Activity | 1.2E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:23 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.39 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.22 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-023
Client Sample ID: SM8-22

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0545 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:29 / sf |
| Uranium, Activity | 3.7E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:29 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.69 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 precision (±) | 0.23 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |
| Radium 226 MDC | 0.26 | pCi/L | | | | E903.0 | 10/04/16 15:43 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-025
Client Sample ID: SM8-24

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0174 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:33 / sf |
| Uranium, Activity | 1.2E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:33 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.30 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 precision (±) | 0.16 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 MDC | 0.22 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-026
Client Sample ID: SM8-25

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0231 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:34 / sf |
| Uranium, Activity | 1.6E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:34 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.46 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 MDC | 0.22 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-027
Client Sample ID: SM8-26

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0163 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:42 / sf |
| Uranium, Activity | 1.1E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:42 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.51 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 precision (±) | 0.18 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-029
Client Sample ID: SM8-28

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0393 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:45 / sf |
| Uranium, Activity | 2.7E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:45 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.42 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 precision (±) | 0.16 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 MDC | 0.20 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client: Crow Butte Resources
Project: Crow Butte MU6&8 SM Quarterly U, Annual U and Ra22
Lab ID: C16090786-030
Client Sample ID: SM8-29

Report Date: 10/06/16
Collection Date: 09/02/16
Date Received: 09/22/16
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------------------|---------|--------|------------|---------|-------------|--------|----------------------|
| METALS - DISSOLVED | | | | | | | |
| Uranium | 0.0622 | mg/L | | 0.0003 | | E200.8 | 09/28/16 17:47 / sf |
| Uranium, Activity | 4.2E-08 | uCi/mL | | 2.0E-10 | | E200.8 | 09/28/16 17:47 / sf |
| RADIONUCLIDES - DISSOLVED | | | | | | | |
| Radium 226 | 0.71 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 precision (±) | 0.21 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |
| Radium 226 MDC | 0.21 | pCi/L | | | | E903.0 | 10/04/16 17:20 / trs |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.