

August 29, 2013

Attn: Document Control Desk
U.S. Nuclear Regulatory Commission
Mr. Drew Persinko, Deputy Director
Decommissioning & Uranium Recovery Licensing Directorate
Division of Waste Management & Environmental Protection
Office of Federal and State Materials &
Environmental Management Programs
11545 Rockville Pike
Rockville, MD 20852-2738

Subject: License SUA-1314

Docket No. 040-08502 Willow Creek Project

ALARA Report

Semi-Annual Effluent and

Environmental Monitoring Report

Dear Mr. Persinko:

In accordance with 10 CFR 40.65 and per license conditions 12.1 and 12.3 of Source Materials License SUA-1341, please find enclosed the Semi-Annual Effluent and Environmental Monitoring Report for the period of January 1 through June 30, 2013.

Please contact me should you have any questions regarding this report. (307) 696-8113.

Sincerely.

Tim McCullough Manager Site SHE

cc: L. Arbogast

J. Winter

S. Schierman

Uranium One USA. Inc.

A Member of the Uranium One Inc. Group of Companies

tel +1 307-234-8235 • fax +1 307-237-8235

907 N. Poplar Street, Suite 260

Casper, Wyoming 82601

www.uranium1.com

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Uranium One USA, Inc. Irigaray and Christensen Ranch Projects

2013 SEMI-ANNUAL EFFLUENT AND MONITORING REPORT (NRC)

August 28, 2013

INTRODUCTION

In accordance with Sections 12.1 and 12.3 of the Nuclear Regulatory Commission (NRC) Source License No. SUA-1341, Uranium One USA, Inc. hereby submits the 2013 Semi-Annual Effluent and Monitoring Report. This document summarizes the required operational and environmental monitoring conducted at the Irigaray (IR) and Christensen Ranch (CR) projects from January 1, 2013 through June 30, 2013.

1.0 Results from Employee Urinalyses.

1.1 During the report period no bio-assay samples exceeded the 15 μg/l uranium action level. Samples are collected on a monthly basis from Plant operators, wellfield operators, laboratory personal, wellfield maintenance personal and Electricians at the Christensen Ranch Site. At the Irigaray Process Plant samples are collected on a monthly basis from the plant operators except during yellowcake drying operations, samples are collected once per shift every four days. Sample analysis is conducted by an outside laboratory. Review of the bioassay data shows that administration of the bioassay program is consistent with Reg. Guide 8.22 as referenced in license condition 10.12.

2.0 Operational Monitoring

2.1 Groundwater Volumes Injected and Recovered

During this reporting period an overall wellfield bleed was maintained at 1.0%. A total of 1,466,004,871 gallons were injected and 1,481,295,354 gallons were recovered during this period. This data is summarized in Table 1 and is located in Appendix A of this report.

2.2 Injection Manifold Pressures

Injection manifold pressures at the CR project are limited to 140 psi during wellfield operations and 168 psi during maintenance tasks, as per License Condition 11.1. License Condition 11.1 requires that the injection manifold pressures be recorded daily. A pressure chart recorder is installed in every Wellfield Module Building and the pressure data is continuously logged on the recorder chart graphs. This data is summarized in Table 2 and is located in Appendix A of this report.

The 140psi limit was exceeded on three separate occasions. Module Building 7-1 had a spike in pressure to 145 psi on April 7, 2013 due to the booster pump for the building tripping the main breaker. Module 5-2 had a spike in pressure to 150 psi on April 25, 2013 due to some wells pressuring up and needing to be bled. A flow adjustment was additionally made in the associated booster building to address the rising pressure of the manifold. Module 5-2 had a spike in pressure to 142 psi on May 11, 2013 due to some wells pressuring up and plugged bag filters associated with the building.

3.0 Environmental Monitoring

3.1 Regional Ranch Wells

During the reporting period Quarterly groundwater samples were collected from five ranch wells near the CR project and one ranch well near IR. The samples were analyzed for Uranium, Thorium-230, Radium-226, Lead-210 and Polonium-210. All analytical results for radionuclides were at or near minimum detection levels (MDLs) which are consistent with historical data. Review of the analytical data indicates no upward trends were observed. Sampling was consistent with the requirements of License Condition 11.3 and Section 5.8 of the License Renewal Application. This data is summarized in Table 3 and is located in Appendix A of this report.

3.2 Surface Water Monitoring

During the reporting period Surface Water samples were collected across the Willow Creek Project. Willow Creek is the only source of surface water present within and adjacent to the permit boundaries of both the IR and CR projects. Willow Creek is an ephemeral stream which was sampled on a quarterly basis. Three sample locations are designated at both project sites; upstream, downstream and within the permit boundary. The Powder River is also sampled annually at the Brubaker Ranch, which is approximately 4.5 miles downstream from its confluence with Willow Creek. All radionuclide data was at or near minimum detection levels, and no exceedances of NRC 10 CFR 20, Appendix B effluent limits occurred. Review of the analytical data does not indicate any upward trends for radionuclide or chemical parameter concentrations. This data is summarized in Table 4 and is located in Appendix A of this report.

3.3 Spill and Leak Reports

There were two reportable spills during this report period. Emails, written notifications and summary reports were submitted to the NRC and WDEQ regarding these events and will not be duplicated in this report.

3.4 Soil Sampling

Annual soil sampling at the Willow Creek environmental locations occurred during the reporting period. The samples were taken from 5 locations at the Irigaray Project and 4 locations from the Christensen Project. Samples IR-13 (Employee house trailer) and AS-5A (CR Plant Upwind S. E.) were inadvertently

missed during the sampling event and will be sampled during the 3rd Quarter of 2013. The results of the referenced missed samples will be included in the 2013 Annual Effluent and Monitoring Report in January 2014. This data is summarized in Table 5 and is located in Appendix A of this report.

3.5 Vegetation Sampling

Annual soil sampling at the Willow Creek environmental locations occurred during the reporting period. The samples were taken from 5 locations at the Irigaray Project and 4 locations from the Christensen Project. This data is summarized in Table 6 and is located in Appendix A of this report.

4.0 Air Monitoring

4.1 Environmental Radon Monitoring

Radon gas is monitored continuously at six environmental air sampling locations at or near the Irigaray Project and at five locations at or near the Christensen Ranch Project. Passive outdoor radon detectors are exchanged and analyzed quarterly by Landauer, Inc., a NVLAP accredited company. No trends or abnormal results were noted and all concentrations were well below the 10 CFR Parts 20, Appendix B effluent limit for radon of 1E-10uCi/ml. This data is summarized in Table 7 and is located in Appendix A of this report.

4.2 Dryer Stack Emissions

The semiannual Dryer Stack Emission testing was performed on June 27, 2013 by Western Environmental Services and Testing Services. Uranium One has not received the report for this testing as of this reporting date and will submit the results in the 2013 Annual Effluent and Monitoring Report in January 2014.

4.3 Environmental Airborne Radionuclides

During dryer operations, continuous airborne radionuclide sampling is required at the five specified environmental air sampling locations at the IR project. The yellowcake dryer was in operation during the 1st and 2nd Quarter of 2013. This data is summarized in Table 8 and is located in Appendix A of this report.

4.4 Environmental Gamma Radiation Monitoring

Gamma radiation is monitored continuously at six environmental air locations surrounding the Irigaray Project and at five locations surrounding the Christensen Ranch Project. TLDs are exchanged and analyzed quarterly by Landauer Dosimetry Services, a NVLP accredited company. No trends or abnormal results were noted. This data is summarized in Table 9 and is located in Appendix A of this report.

4.5 Public Dose

Public dose determination is calculated for the "off-shift" operations personnel that utilize the man-camps at Irigaray and Christensen is used to demonstrate compliance with public dose limits as these individuals have been identified as

the member of the public likely to receive the highest dose from the Willow Creek Operations. This data is summarized annually and will be included in the 2013 Annual Effluent Report and submitted in January 2014.

5.0 OTHER INFORMATION REQUIRED BY SECTION 12.6 - NRC LICENSE

5.1 ALARA Audit

The 2012 As Low As Reasonably Achievable (ALARA) audit was conducted by Krista Wenzel (CHP) of Wenzel Consults LLC on February 18 and 19, 2013. The ALARA report was submitted to the NRC attached to a letter dated July 17, 2013.

5.2 Land Use Survey

The primary use of surrounding lands at both IR and CR projects continues to be rural sheep and cattle ranching. Livestock actively graze these lands, but fencing prevents access to the evaporation ponds, plant sites and wellfields.

The secondary use of surrounding lands continues to be petroleum production from wells dispersed throughout the region. The closest oil well at the CR project is located approximately one third of a mile west of the CR plant. The closest oil well at the IR site is located approximately one half mile east of the PU 9 wellfield. To our knowledge, no new oil wells have been drilled in close proximity to either project during 2013.

Over the past several years (2001 - 2012) some additional interest has developed in the immediate areas of the IR and CR projects in the development of coal bed methane (CBM) gas. Several CBM wells were drilled within a half-mile of CR MU 5 & 6 during 2012. At present these wells are in production.

The nearest residence to the IR site is 4 miles to the north (the Brubaker ranch) and the nearest residence to CR is the John Christensen ranch located 3 miles southeast of the CR plant site. Both are ranch housing with a population of 6 or less. One new residence has been added at the Christensen ranch site. This is the man camp for the CR operators to stay in during off shift hours.

5.3 January 1 through June 30, 2013 Site Inspections

- **5.3.1** During the report period no O.S.H.A. inspections were held.
- 5.3.2 During the reporting period the NRC held one inspection. On January 29 31, 2013 the NRC conducted an "unannounced routine" inspection at the Willow Creek Project. One Severity Level IV violation of NRC requirements was identified for failure to complete decommissioning of Irigaray Mine Units 8 and 9 within 24 months following the initiation of decommissioning and failed to request an alternate decommissioning schedule.

The corrective actions and alternate decommissioning schedule detailing planned activities commencing in the 3rd Quarter of 2013 was submitted to the NRC in a letter dated August 6, 2013 to address the referenced violation.

5.3.3 During the reporting period there were no inspections held by the WDEQ-LQD.

5.4 January 1 through June 30, 2013 SERP Summary

Uranium One's Safety and Environmental Review Panel (SERP) [NRC License Condition 9.4 (C)] conducted one review during the first half of 2013. A summary of the SERPs is located in Table 10 of Appendix A.

5.5 Daily Walk - Through Inspections

Daily walk – through inspections are conducted at the Irigaray and Christensen Ranch locations. Routinely minor Corrective Actions are summarized on the Inspection Forms and promptly addressed. This data is summarized as Table 11 located in Appendix A.

APPENDIX A

Tables 1-11

Table 1
Page 1 of 2
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Groundwater Volumes Injected and Recovered

| | MU 5-2 Monthly Totals | | | | | |
|---------------|-----------------------|------------------------|--------------------|---------|--|--|
| Date | Production (gallons) | Injection (gallons) | Bleed (gallons) | % Bleed | | |
| January 2013 | 13,751,016 | 13,058,713 | 692,303 | 5.0 % | | |
| February 2013 | 10,407,741 | 10,068,973 | 338,768 | 3.3 % | | |
| March 2013 | 9,849,600 | 9,488,200 | 361,400 | 3.7 % | | |
| April 2013 | 9,567,360 | 9,253,440 | 313,920 | 3.3 % | | |
| May 2013 | 10,502,040 | 9,783,450 | 718,590 | 6.8 % | | |
| June 2013 | 11,400,911 | 10,753,904 | 647,007 | 5.7 % | | |
| Totals | 65,478,668 | 62,406,680 | 3,071,988 | 4.7 % | | |

| | MU 7 Monthly Totals | | | | | |
|---------------|----------------------|------------------------|--------------------|---------|--|--|
| Date | Production (gallons) | Injection (gallons) | Bleed (gallons) | % Bleed | | |
| January 2013 | 98,767,636 | 96,605,815 | 2,161,821 | 2.2 % | | |
| February 2013 | 87,829,672 | 88,006,355 | -176,683 | -0.2 % | | |
| March 2013 | 100,062,600 | 99,697,300 | 365,300 | 0.4 % | | |
| April 2013 | 96,911,600 | 96,733,500 | 178,100 | 0.2 % | | |
| May 2013 | 95,946,800 | 95,010,000 | 936,800 | 1.0 % | | |
| June 2013 | 95,611,800 | 94,815,100 | 796,700 | 0.8 % | | |
| Totals | 575,130,108 | 570,868,070 | 4,262,038 | 0.7 % | | |

| | MU 8 Monthly Totals | | | | | |
|---------------|----------------------|------------------------|--------------------|---------|--|--|
| Date | Production (gallons) | Injection (gallons) | Bleed (gallons) | % Bleed | | |
| January 2013 | 97,284,617 | 98,042,340 | -757,723 | -0.8 % | | |
| February 2013 | 89,826,744 | 88,971,257 | 855,487 | 1.0 % | | |
| March 2013 | 100,861,440 | 100,390,550 | 470,890 | 0.5 % | | |
| April 2013 | 94,918,970 | 94,458,120 | 460,850 | 0.5 % | | |
| May 2013 | 93,959,550 | 93,754,290 | 205,260 | 0.2 % | | |
| June 2013 | 94,879,830 | 94,066,450 | 813,380 | 0.9 % | | |
| Totals | 571,731,151 | 569,683,007 | 2,048,144 | 0.4 % | | |

Table 1
Page 2 of 2
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Groundwater Volumes Injected and Recovered

| | MU 10A Monthly Totals | | | | | |
|---------------|-------------------------|------------------------|--------------------|---------|--|--|
| Date | Production (gallons) | Injection (gallons) | Bleed (gallons) | % Bleed | | |
| January 2013 | 9,023,815 | 8,839,245 | 184,570 | 2.0 % | | |
| February 2013 | 35,031,152 | 33,858,589 | 1,172,563 | 3.3 % | | |
| March 2013 | 40,474,120 | 39,748,680 | 725,440 | 1.8 % | | |
| April 2013 | 37,239,090 | 36,632,880 | 606,210 | 1.6 % | | |
| May 2013 | 36,163,570 | 35,533,150 | 630,420 | 1.7 % | | |
| June 2013 | 37,905,980 | 37,584,890 | 321,090 | 0.8 % | | |
| Totals | 195,837,727 | 192,197,434 | 3,640,293 | 1.9 % | | |

| | nly Totals | | | |
|---------------|-------------------------|------------------------|--------------------|---------|
| Date | Production (gallons) | Injection (gallons) | Bleed (gallons) | % Bleed |
| January 2013 | (not in operation) | | | |
| February 2013 | (not in operation) | | | |
| March 2013 | 9,606,413 | 8,246,705 | 1,359,708 | 14.2 % |
| April 2013 | 19,899,707 | 19,463,045 | 436,662 | 2.2 % |
| May 2013 | 21,776,620 | 21,438,130 | 338,490 | 1.6 % |
| June 2013 | 21,834,960 | 21,701,800 | 133,160 | 0.6 % |
| Totals | 73,117,700 | 70,849,680 | 2,268,020 | 3.1 % |

| Overall | 1,481,295,354 | 1,466,004,871 | 15,290,483 | 1.0 % |
|---------|---------------|---------------|------------|-------|
| | | | | |

Table 2
Page 1 of 3
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Injection Manifold Pressures

Mine Unit 7

| · · · · · · · · · · · · · · · · · · · | Weekly Maximum injection Pressure (Maximum Permissible 140 psi) | | | | | |
|---------------------------------------|---|------------|------------|------------|------------|------------|
| Week | · | | | | | |
| Ending | Module 7-1 | Module 7-2 | Module 7-3 | Module 7-4 | Module 7-5 | Module 7-6 |
| 1/5/2013 | 110 | 113 | 105 | 107 | 100 | 75 |
| 1/12/2013 | 112 | 125 | 103 | 109 | 105 | 84 |
| 1/19/2013 | 100 | 130 | 85 | 116 | 118 | 80 |
| 1/26/2013 | 100 | 125 | 87 | 125 | 112 | 75 |
| 2/2/2013 | 98 | 120 | 90 | 115 | 97 | 81 |
| 2/9/2013 | 115 | 118 | 105 | 115 | 100 | 98 |
| 2/16/2013 | 113 | 131 | 116 | 120 | 105 | 97 |
| 2/23/2013 | 102 | 135 | 115 | 116 | 107 | 95 |
| 3/2/2013 | 120 | 135 | 110 | 125 | 110 | 105 |
| 3/9/2013 | 110 | 135 | 97 | 115 | 112 | 110 |
| 3/16/2013 | 110 | 138 | 108 | 105 | 125 | 110 |
| 3/23/2013 | 117 | 140 | 102 | 110 | 132 | 137 |
| 3/30/2013 | 115 | 134 | 95 | 106 | 138 | 138 |
| 4/6/2013 | 145 | 138 | 90 | 138 | 137 | 120 |
| 4/13/2013 | 130 | 140 | 105 | 120 | 135 | 120 |
| 4/20/2013 | 133 | 138 | 105 | 115 | 130 | 120 |
| 4/27/2013 | 126 | 140 | 98 | 132 | 135 | 119 |
| 5/4/2013 | 118 | 133 | 92 | 133 | 130 | 120 |
| 5/11/2013 | 122 | 137 | 105 | 126 | 130 | 113 |
| 5/18/2013 | 121 | 135 | 105 | 122 | 124 | 107 |
| 5/25/2013 | 130 | 130 | 102 | 102 | 125 | 107 |
| 6/1/2013 | 135 | 120 | 117 | 120 | 126 | 106 |
| 6/8/2013 | 135 | 124 | 118 | 131 | 130 | 108 |
| 6/15/2013 | 135 | 130 | 125 | 113 | 134 | 117 |
| 6/22/2013 | 140 | 126 | 123 | 115 | 124 | 122 |
| 6/29/2013 | 138 | 122 | 118 | 116 | 124 | 123 |

Table 2
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Injection Manifold Pressures

Mine Unit 8

| | Weekly Maximum injection Pressure (Maximum Permissible 140 psi) | | | | | |
|-----------|---|------------|------------|--------------|------------|------------|
| Week | Madula 9.4 | Modulo 9 2 | Module 8-3 | Module 8-4/5 | Modulo 9 6 | Modulo 9 7 |
| Ending | Module 8-1 | Module 8-2 | | | ***** | Module 8-7 |
| 1/5/2013 | 117 | 120 | 68 | 72 | 125 | 78 |
| 1/12/2013 | 100 | 115 | 75 | 73 | 123 | 75 |
| 1/19/2013 | 91 | 115 | 113 | 65 | 105 | 68 |
| 1/26/2013 | 88 | 115 | 65 | 63 | 100 | 94 |
| 2/2/2013 | 87 | 112 | 83 | 73 | 100 | 75 |
| 2/9/2013 | 82 | 115 | 72 | 75 | 78 | 75 |
| 2/16/2013 | 80 | 115 | 71 | 75 | 75 | 90 |
| 2/23/2013 | 80 | 113 | 66 | 67 | 78 | 80 |
| 3/2/2013 | 90 | 115 | 70 | 70 | 79 | 92 |
| 3/9/2013 | 90 | 115 | 70 | 72 | 75 | 92 |
| 3/16/2013 | 92 | 118 | 74 | 75 | 72 | 94 |
| 3/23/2013 | 97 | 118 | 80 | 82 | 75 | 104 |
| 3/30/2013 | 90 | 120 | 75 | 74 | 70 | 89 |
| 4/6/2013 | 85 | 117 | 70 | 68 | 65 | 90 |
| 4/13/2013 | 83 | 123 | 80 | 72 | 66 | 88 |
| 4/20/2013 | 83 | 115 | 66 | 64 | 67 | 90 |
| 4/27/2013 | 98 | 120 | 70 | 67 | 67 | 92 |
| 5/4/2013 | 89 | 123 | 68 | 68 | 66 | 97 |
| 5/11/2013 | 90 | 115 | 73 | 75 | 67 | 97 |
| 5/18/2013 | 88 | 117 | 73 | 71 | 68 | 91 |
| 5/25/2013 | 85 | 112 | 68 | 75 | 70 | 95 |
| 6/1/2013 | 89 | 116 | 70 | 80 | 80 | 98 |
| 6/8/2013 | 85 | 121 | 69 | 78 | 82 | 100 |
| 6/15/2013 | 85 | 118 | 68 | 78 | 80 | 99 |
| 6/22/2013 | 77 | 116 | 68 | 83 | 78 | 102 |
| 6/29/2013 | 81 | 119 | 71 | 80 | 78 | 101 |

Table 2
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Injection Manifold Pressures

Mine Unit 8 (Cont.), Mine Unit 5-2 & Mine Unit 10

| | Weekly Maximum injection Pressure (Maximum Permissible 140 psi) | | | | | | |
|-----------|---|------------|------------|-------------|------------------|------------------|--|
| Week | | | | | | | |
| Ending | Module 8-8 | Module 8-9 | Module 5-2 | Module 10-1 | Module 10-2 | Module 10-3 | |
| 1/5/2013 | 110 | 110 | 130 | 45 | not in operation | not in operation | |
| 1/12/2013 | 95 | 101 | 135 | 47 | not in operation | not in operation | |
| 1/19/2013 | 100 | 107 | 125 | 63 | 48 | not in operation | |
| 1/26/2013 | 90 | 93 | 130 | 70 | 68 | not in operation | |
| 2/2/2013 | 80 | 92 | 128 | 118 | 139 | not in operation | |
| 2/9/2013 | 90 | 93 | 140 | 74 | 137 | not in operation | |
| 2/16/2013 | 85 | 95 | 135 | 67 | 132 | not in operation | |
| 2/23/2013 | 85 | 94 | 120 | 75 | 108 | not in operation | |
| 3/2/2013 | 90 | 91 | 125 | 75 | 117 | 87 | |
| 3/9/2013 | 92 | 93 | 120 | 76 | 120 | 102 | |
| 3/16/2013 | 93 | 96 | 130 | 85 | 120 | 110 | |
| 3/23/2013 | 92 | 105 | 140 | 94 | 135 | 122 | |
| 3/30/2013 | 84 | 95 | 123 | 98 | 125 | 117 | |
| 4/6/2013 | 88 | 98 | 135 | 100 | 122 | 117 | |
| 4/13/2013 | 87 | 90 | 140 | 93 | 126 | 107 | |
| 4/20/2013 | 85 | 89 | 135 | 91 | 126 | 110 | |
| 4/27/2013 | 87 | 96 | 150 | 97 | 126 | 117 | |
| 5/4/2013 | 84 | 100 | 122 | 96 | 122 | 97 | |
| 5/11/2013 | 86 | 107 | 142 | 95 | 130 | 92 | |
| 5/18/2013 | 86 | 110 | 140 | 95 | 128 | 92 | |
| 5/25/2013 | 88 | 95 | 130 | 95 | 128 | 80 | |
| 6/1/2013 | 90 | 100 | 137 | 108 | 126 | 93 | |
| 6/8/2013 | 90 | 104 | 140 | 110 | 126 | 100 | |
| 6/15/2013 | 82 | 95 | 140 | 107 | 112 | 90_ | |
| 6/22/2013 | 88 | 101 | 140 | 100 | 106 | 92 | |
| 6/29/2013 | 85 | 105 | 140 | 108 | 127 | 92 | |

Table 3
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Regional Ranch Wells

| Sample Location | Christensen R | anch House #3 | Christensen Ellendale #4 | | |
|-----------------|------------------|-----------------|--------------------------|------------------|--|
| Cample Date | 1st quarter | 2nd quarter | 1st quarter | 2nd quarter | |
| Sample Date | March 13, 2013 | June 5, 2013 | March 13, 2013 | June 5, 2013 | |
| Uranium | 5.8E-9 (µCi/ml) | 7.9E-9 (µCi/ml) | 6.1E-10 (µCi/ml) | 4.0E-10 (µCi/ml) | |
| Thorium-230 | N/D | N/D | N/D | N/D | |
| Radium-226 | 8.0E-10 (µCi/ml) | 1.3E-9 (µCi/ml) | 2.0E-10 (µCi/ml) | 3.0E-10 (µCi/ml) | |
| Lead-210 | N/D | 1.3E-9 (µCi/ml) | 1.5E-9 (μCi/ml) | N/D | |
| Polonium-210 | N/D | 1.2E-9 (µCi/ml) | N/D | N/D | |

| Sample Location | Christensen N | liddle Artesian | Christensen Del Gulch Lower #13 | | |
|-----------------|------------------|------------------|---------------------------------|------------------|--|
| Sample Date | 1st quarter | 2nd quarter | 1st quarter | 2nd quarter | |
| Sample Date | March 13, 2013 | June 5, 2013 | March 14, 2013 | June 5, 2013 | |
| Uranium | N/D | 7.8E-9 (µCi/ml) | N/D | 2.0E-10 (µCi/ml) | |
| Thorium-230 | N/D | N/D | N/D | N/D | |
| Radium-226 | 6.0E-10 (µCi/ml) | 5.0E-10 (µCi/ml) | 3.0E-10 (µCi/ml) | 4.0E-10 (µCi/ml) | |
| Lead-210 | 1.0E-9 (µCi/ml) | 1.2E-9 (µCi/ml) | N/D | N/D | |
| Polonium-210 | N/D | 1.1E-9 (µCi/ml) | N/D | 1.6E-9 (µCi/ml) | |

| Sample Location | Christensen W | illow Corral #32 | Irigaray \ | Willow # 2 |
|-----------------|----------------|------------------|----------------|------------------|
| Sample Date | 1st quarter | 2nd quarter | 1st quarter | 2nd quarter |
| Sample Date | March 13, 2013 | June 5, 2013 | March 13, 2013 | June 5, 2013 |
| Uranium | N/D | N/D | N/D | N/D |
| Thorium-230 | N/D | N/D | N/D | N/D |
| Radium-226 | N/D | 2.0E-10 (µCi/ml) | N/D | 2.0E-10 (µCi/ml) |
| Lead-210 | N/D | N/D | N/D | N/D |
| Polonium-210 | N/D | N/D | N/D | N/D |

Table 3
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Uranium One USA Inc.- Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Regional Ranch Wells

| Sample Location | Christensen First Artesian Well #1 | | | |
|-----------------|------------------------------------|--------------|--|--|
| Sample Date | 1st quarter | 2nd quarter | | |
| Sample Date | _March 13, 2013_ | June 5, 2013 | | |
| Uranium | N/D | N/D | | |
| Thorium-230 | N/D | N/D | | |
| Radium-226 | N/D | N/D | | |
| Lead-210 | 1.0E-9 (µCi/ml) | N/D | | |
| Polonium-210 | N/D | N/D | | |

LLD's

Uranium 2.0E-10 μCi/ml Thorium-230 2.0E-10 μCi/ml Radium-226 2.0E-10 μCi/ml Lead-210 1.0E-9 μCi/ml Polonium-210 1.0E-9 μCi/ml

N/D = NON DETECTABLE

Table 4
Page 1 of 1
Uranium One Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Surface Water Monitoring

| | , | | | | , | | , | | | , | | | | | |
|---------------------------------|-----------|----------------------|----------------|-----------|---|------------------|-----------------|------------------|-------------|--|--|----------------------------|--------------|-----------|-------------------|
| | |) w _{nines} | Tonim 3 | Pedium 3. | (m) | Polonium (WCilm) | Total All | Chorice (not) | | | Timing of the parties | (10 _U) (13) Ha | , Sani | Solonium. | Simaled Flow Res. |
| Willow Creek IR-9 Downstream | | | | | | | | | | | | | | | |
| 1st Quarter 2013 | 3/14/2013 | 9.9E-09 | N/D | N/D | 1.2E-09 | N/D | 372 | 804 | 5280 | 4090 | 2050 | 8.1 | N/D | N/D | Low |
| 2nd Quarter 2013 | 5/23/2013 | 7.4E-09 | N/D | N/D | N/D | N/D | 382 | 621 | 4240 | 6010 | 1680 | 8.1 | N/D | 0.011 | Low |
| Reporting Limit | | 2.0E-10 | 2.0E-10 | 2.0E-10 | 1.0E-09 | 1.0E-09 | 5 | 1 | 10 | 5 | 11 | 0.1 | 0.005 | 0.005_ | |
| Willow Creek IR-14 Upstream | | | | | | | | | | | | | | | |
| | 3/14/2013 | | N/D | 2.0E-10 | 1.9E-09 | N/D | 1210 | 7 | 1650 | 2010 | 195 | 8.7 | N/D | N/D | Low |
| | 5/23/2013 | | N/D | 6.0E-10 | | N/D | 2010 | 9 | 2250 | 3680 | 76 | 8.8 | N/D | N/D | Low |
| Reporting Limit | | 2.0E-10 | 2.0E-10 | 2.0E-10 | 1.0E <u>-09</u> | 1.0E-09 | 5 | 1 | 10 | 5 | 11 | 0.1 | 0.005 | 0.005 | |
| Willow Creek IR-17 Mine Site | | | | | | | | | _ | | | | | | |
| 1st Quarter 2013 | 3/14/2013 | | N/D | N/D | N/D | N/D | 582 | 17 | 2780 | 2540 | 1420 | 8.4 | N/D | N/D | Low |
| 2nd Quarter 2013 | 5/23/2013 | | N/D | N/D | N/D | N/D | 845 | 18 | 2980 | 4520 | 1520 | 8.3 | N/D | N/D | Low |
| Reporting Limit | | 2.0E-10 | 2.0E-10 | 2.0E-10 | 1.0E-09 | 1.0E-09 | 5 | 1 | 10 | 5 | 1 | 0.1 | 0.005 | 0.005 | |
| | | | | | | | | | | | | | | | |
| Powder River (Sampled Annually) | 5/23/2013 | | N/D | N/D | N/D | N/D | 116 | 54 | 560 | 923 | 197 | 8.2 | N/D | N/D | Med |
| Reporting Limit | | 2.0E-10 | 2.0E-10 | 2.0E-10 | 1.0E-09 | 1.0E-09 | 5 | 1 | 10 | 5 | 11 | 0.1 | 0.005_ | 0.005 | |
| | | | | | | | | | | | | | | | |
| Willow Creek GS-01 Downstream | · | | | | | | | | | | | | | | |
| 1st Quarter 2013 | | | | | | | | was taken | | | | | | | |
| 2nd Quarter 2013 | | | | | | N | o sample | was taken | ı - all dry | | | <u> </u> | | 1 | |
| Reporting Limit | | | | | | | | | | <u>. </u> | <u> </u> | | L | | <u></u> |
| Willow Creek CG-05 Upstream | 2/44/2042 | 4.05.00 | | NID | N/D | NIO | 400 | | 4200 | 4240 | | 0.0 | L | N/D | |
| | 3/14/2013 | | N/D | N/D | N/D | N/D | 198 | 5 | 1380 | 1340 | 691 | 8.3 | N/D | N/D | Low |
| 2nd Quarter 2013 | 5/23/2013 | | N/D | N/D | N/D | N/D | 368 5 | 12 | 2530 10 | 3390 5 | 1480 | 8.2 0.1 | N/D | N/D | Low |
| Reporting Limit | | 2.0E-10 | 2.0E-10 | 2.0E-10 | 1.0E-09 | 1.0E-09 | <u>ə</u> | | 1 10 | | | J U. I | 0.005 | 0.005 | |
| , | | | | | | | o somple | was taken | all da: | | | | | | |
| 1st Quarter 2013 | 5/30/2013 | 1.6E-07 | N/D | 2.0E-10 | 6.7E.00 | N/D | o sample 149 | was taken 274 | | 8040 | 7940 | 0.0 | I N/D | 0.055 | 1000 |
| 2nd Quarter 2013 | 5/30/2013 | 2.0E-09 | N/D 2.0E-10 | 2.0E-10 | 6.7E-09 1.0E-09 | 1.0E-09 | 149 5 | 1 | 7280 10 | 5 | 1940 | 8.0 0.1 | N/D 0.005 | 0.055 | Low |
| Reporting Limit | | ∠.∪⊏-∪9 | ∠.UE-1U | 2.00-10 | 1.0⊏-09 | 1.00-09 | <u> </u> | | 1 10 | _ 5 | <u> </u> | Ι υ. ι | 1 0.003 | 0.005 | |

Estimated Flow Rate:

Low = <5cfs Medium = 5 - 50 cfs High = > 50 cfs

Table 5
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Soil Sampling

| Location | Uranium | Th-230 | Ra-226 | Pb-210 |
|---|--------------|------------|------------|------------|
| | * μCi / gram | μCi / gram | µCi / gram | μCi / gram |
| IRIGARAY PROJECT | | | _ | |
| IR-1 (Downwind of Restricted Area) IR-3 (Upwind of Restricted Area) IR-4 (North Road - Background) IR-5 (Irigaray Ranch - nearest resident) IR-6 (Ridge Road S.E.) IR-13 (Employee house trailer) | 3.68E-08 | 1.20E-09 | 2.40E-09 | 2.40E-09 |
| | 8.50E-08 | 9.00E-10 | 1.20E-09 | 1.50E-09 |
| | 1.11E-08 | 8.00E-10 | 1.30E-09 | 1.10E-09 |
| | 5.10E-09 | 4.00E-10 | 8.00E-10 | 1.50E-09 |
| | 8.40E-09 | 8.00E-10 | 1.00E-09 | 1.30E-09 |
| CHRISTENSEN PROJECT | , | 7 | | , |
| AS-1 (Table Mountain - Background)) AS-5A (CR Plant Upwind S.E.) | l ' ' | . * | 8.00E-10 | ı * |
| AS-5B (CR Plant Downwind N.W.) AS-6 (Christensen Ranch-Nearest Resident) AS-7 (Christensen Employee house trailer) | 1.17E-08 | 9.00E-10 | 1.40E-09 | 1.50E-09 |
| | 1.10E-08 | 7.00E-10 | 1.10E-09 | 1.50E-09 |
| | 5.70E-09 | 6.00E-10 | 1.30E-09 | 1.20E-09 |

Analyses performed by Inter-Mountian Labs (IML), Sheridan, Wyoming

RL's (μCi / Kg): Uranium = 2.00E-10 Th-230 = 2.00E-10 Ra-226 = 2.00E-10 Pb-210 = 1.00E-9

> 2013 Semi-Annual Effluent and Monitoring Report Willow Creek Project SUA-1341

^{*} The activity for uranium is a mathematical calculation based on a chemical analysis, therefore, no precision estimate (error) is given. The Inter-Mountain Lab reporting limit (RL) is listed below are based on the weight of the samples.

Table 6
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Vegetation Sampling

| Location | Uranium | Th-230 | Ra-226 | Pb-210 |
|---|------------|----------|----------|----------|
| | * μCi / Kg | μCi / Kg | μCi / Kg | μCi / Kg |
| IRIGARAY PROJECT | | | | |
| IR-1 (Downwind of Restricted Area) IR-3 (Upwind of Restricted Area) IR-4 (North Road) IR-5 (Irigaray Ranch - nearest resident) IR-6 (Ridge Road S.EIR Background) | 2.8E-04 | 1.5E-05 | 6.2E-05 | 1.7E-04 |
| | 5.0E-04 | 8.5E-06 | 1.1E-05 | 8.7E-05 |
| | 5.3E-04 | 1.0E-05 | 3.2E-05 | 9.9E-05 |
| | 3.5E-05 | 2.9E-05 | 3.8E-05 | 2.1E-04 |
| | 3.2E-05 | 9.0E-06 | 1.5E-05 | 4.1E-04 |
| CHRISTENSEN PROJECT AS-1 (Table Mountain - Background)) AS-5A (CR Plant Upwind S.E.) AS-5B (CR Plant Downwind N.W.) AS-6 (Christensen Ranch-Nearest Resident) | 2.8E-05 | 2.7E-05 | 4.6E-05 | 4.3E-04 |
| | 1.1E-05 | 1.2E-06 | 2.9E-05 | 8.8E-05 |
| | 3.9E-05 | 1.1E-04 | 4.8E-05 | 2.5E-04 |
| | 1.8E-05 | 1.3E-05 | 2.1E-05 | 1.9E-04 |

Analyses performed by Inter-Mountain Laboratories, (IML), Sheridan, Wyoming

RL's (μCi / Kg): Uranium = 2.0 E-7 Th-230 = 2.0 E-7 Ra-226 = 2.0 E-7 Pb-210 = 1.0 E-6

> 2013 Semi-Annual Effluent and Monitoring Report Willow Creek Project SUA-1341

^{*} The activity for uranium is a mathematical calculation based on a chemical analysis, therefore, no precision estimate (error) is given. The Inter-Mountain Lab reporting limit (RL) is listed below are based on the weight of the samples.

Table 7
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Environmental Radon Monitoring

| Location | 1st Quarter 2013 | 2nd Quarter 2013 | Location Average 2012 |
|-------------------------------------|---------------------|---------------------|-----------------------|
| IRIGARAY PROJECT | μCi/ml | μCi/mI | μCi/ml |
| IR-1 (Downwind of Restricted Area) | 4.00E-10 | 1.00E-09 | 7.00E-10 |
| IR-3 (Upwind of Restricted Area) | 5.00E-10 | 9.00E-10 | 7.00E-10 |
| IR-4 (North Road) | 4.00E-10 | 7.00E-10 | 5.50E-10 |
| IR-5 (Irigaray Ranch) | 3.00E-10 | 2.00E-10 | 2.50E-10 |
| IR-6 (Rigdge Road - S.E Background) | 2.00E-10 | 6.00E-10 | 4.00E-10 |
| IR-13 (IR Employee House Trailer) | 5.00E-10 | 6.00E-10 | 5.50E-10 |
| (IR-13 / nearest residence) | | | |
| | | | |
| CHRISTENSEN PROJECT | | | |
| AS-1 (Table Mountain - Background) | 1.10E-09 | 3.00E-10 | 7.00E-10 |
| AS-5A (CR Plant Upwind S.E.) | 7.00E-10 | 5.00E-10 | 6.00E-10 |
| AS-5B (CR Plant Downwind N.W) | 8.00E-10 | 8.00E-10 | 8.00E-10 |
| AS-6 (Christensen Ranch) | 1.20E-09 | 7.00E-10 | 9.50E-10 |
| AS-7 (CR Employee House Trailer) | 1.00E-09 | 7.00E-10 | 8.50E-10 |
| (AS-7 / nearest residence) | | | |
| | | | |
| | | | |

LLD = 0.3 pCi/I

2013 Semi-Annual Effluent and Monitoring Report Willow Creek Project SUA-1341

Table 8
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Environmental Airborne Radionuclides

| | 1 st Qu | ıarter 2013 Data | | |
|-------------------------------|--------------------|------------------|---------------|---------------|
| | Uranium µCi/ml | Th-230 µCi/ml | Ra-226 µCi/ml | Pb-210 µCi/ml |
| IR-1 Downwind | 4.7E-15 | 2.8E-16 | 2.6E-16 | 1.9E-14 |
| %of Pt, App. B Effluent Limit | 0.2% | 0.0% | 0.0% | 3.2% |
| IR-3 Upwind | 1.6E-14 | 3.2E-16 | 2.0E-16 | 1.7E-14 |
| %of Pt, App. B Effluent Limit | 0.8% | 0.0% | 0.0% | 2.8% |
| IR-5 Brubaker Ranch | 2.8E-15 | 3.1E-16 | 2.5E-16 | 2.1E-14 |
| %of Pt, App. B Effluent Limit | 0.1% | 0.0% | 0.0% | 3.5% |
| IR-6 Background | 2.9E-15 | 4.2E-16 | 4.1E-16 | 1.7E-14 |
| %of Pt, App. B Effluent Limit | 0.1% | 0.0% | 0.0% | 2.8% |
| IR-13 Employee House Trailer | 3.9E-15 | 2.6E-16 | 2.2E-16 | 1.7E-14 |
| %of Pt, App. B Effluent Limit | 0.2% | 0.0% | 0.0% | 2.8% |

| | 10 CFR Pt. 20, App. B, Effluent Limits (uCi/ml) |
|---|---|
| ı | Uranium = 1.95E-12 (50%D & 50%W) |
| | Th-230 = 3.0E-14 (Y) |
| | Ra-226 = 9.0E-13 (W) |
| | Pb- 210 = 6.0E-13 (D) |

| Lab LLD's |
|--|
| Uranium = 1.0E-16 |
| Th-230 = 1.0E-16 |
| Ra-226 = 1.0E-16 |
| Th-230 = 1.0E-16 Ra-226 = 1.0E-16 Pb-210 = 2.0E-15 |

N/D =Non Detectable

| | 2 ^{na} Qı | ıarter 2013 Data | | | |
|---|--------------------|------------------|-----------------|-----------------|--|
| | Uranium µCi/ml | Th-230 µCi/ml | Ra-226 µCi/ml | Pb-210 µCi/ml | |
| IR-1 Downwind 6.5E-15 % of Pt, App. B Effluent Limit 0.3% | | N/D | 1.1E-16 0.0% | 1.1E-14 1.8% | |
| IR-3 Upwind %of Pt, App. B Effluent Limit | 2.2E-14 1.1% | N/D | N/D | 9.8E-15 1.6% | |
| IR-5 Brubaker Ranch %of Pt, App. B Effluent Limit | 1.4E-15 0.1% | N/D | N/D | 1.0E-14 1.7% | |
| IR-6 Background %of Pt, App. B Effluent Limit | 9.9E-16 0.1% | 1.1E-16 0.0% | 1.3E-16 0.0% | 8.8E-15 1.5% | |
| IR-13 Employee House Trailer %of Pt, App. B Effluent Limit | 4.5E-15 0.2% | N/D | N/D | 1.4E-14 2.3% | |

| 10 CFR Pt. 20, App. B, Effluent Limits (uCi/ml) |
|---|
| Uranium = 1.95E-12 (50%D & 50%W) |
| Th-230 = 3.0E-14 (Y) |
| Ra-226 = 9.0E-13 (W) |
| Pb- 210 = 6.0E-13 (D) |

| ı | Lab LLD's |
|---|---|
| i | Uranium = 1.0E-16 |
| ı | Th-230 = 1.0E-16 |
| 1 | Ra-226 = 1.0E-16 |
| | Uranium = 1.0E-16 Th-230 = 1.0E-16 Ra-226 = 1.0E-16 Pb-210 = 2.0E-15 |

N/D =Non Detectable

Table 9
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Environmental Gamma Radiation Monitoring

| Location | 1st Quarter 2013 mrem/quarter | 2nd Quarter 2013 mrem/quarter | Location Average mrem/quarter | |
|---|----------------------------------|----------------------------------|-------------------------------|--|
| IRIGARAY PROJECT | | | | |
| IR-1 (Downwind of Restricted Area) | 9.6 | 11.0 | 10.3 | |
| IR-3 (Upwind of Restricted Area) | 22.2 | 28.9 | 25.6 | |
| IR-4 (North Road) | 6.0 | 11.4 | 8.7 | |
| IR-5 (Irigaray Ranch) | 3.6 | 4.5 | 4.1 | |
| IR-6 (Ridge Road S.E Background) | 6.7 | 10.4 | 8.6 | |
| IR-13 (I.R. Employee House Trailer) (nearest residence) | 7.4 | 8.9 | 8.2 | |
| Quarterly Average | 9.3 | 12.5 | 10.9 | |
| CHRISTENSEN PROJECT | | | | |
| AS-1 (Table Mountain - Background) | 6.3 | 9.1 | 7.7 | |
| AS-5A(CR Plant Upwind S.E.) | 14.0 | 15.1 | 14.6 | |
| AS-5B (CR Plant Downwind N.W.) | 8.1 | 9.3 | 8.7 | |
| AS-6 (Christensen Ranch) | 10.5 | 17.4 | 14.0 | |
| AS-7 (C.R. Employee House Trailer) (nearest residence) | 2.8 | -1.5 | 0.7 | |
| Quarterly Average | 8.3 | 9.9 | 9.1 | |

Table 10
Page 1 of 1
Uranium One USA, Inc. – Willow Creek Project
SERP Summary

| Number and Date | Description | Revisions to License Application Text |
|--------------------------------|---|---------------------------------------|
| <u>SERP 13-01</u> (1-15-13) | The purpose of this evaluation by the Uranium One SERP Committee is to review the addition of bi-carbonate injection system at the Mine Unit Header Houses | |
| <u>SERP 13-02</u> (2-12-13) | The purpose of this evaluation by the Uranium One SERP Committee is to review and approve Mine Unit 10B for operations. WDEQ-LQD approval for Mine Unit 10B is pending with the submittal of the Mine Unit 10 Wellfield Data Package to WDEQ-LQD on January 17, 2013. | |
| <u>SERP 13-03</u> (4-11-13) | The purpose of this evaluation by the Uranium One SERP Committee is to review a controlled test on the Irigaray Plant Dryer by increasing the operating temperatures and increasing the product feed rate at the elevated temperatures to see if the increased temperatures on the dryer will improve the moisture content of the product and increase production. Testing of the dried yellowcake product characteristics will additionally be performed to determine product solubility characteristics for the varying temperature setting and to determine if the class of the yellow cake materials will change. | |
| <u>SERP 13-04</u> (5-8-13) | The purpose of this evaluation by the Uranium One SERP Committee is to review the qualifications of the proposed Willow Creek RST against the specifications in the Radioactive Materials License SUA-1341 and the Approved 2008 License Renewal Application. | |

Table 11
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Daily Walk-Through Inspections

| | | rigaray Site | | Christ | | | |
|------------|-----|--------------|----------|------------|-----|----|-------------|
| Date: Week | YES | NO | COMMENTS | Date: Week | YES | NO | COMMENTS |
| 1/5/2013 | Х | | | 1/2/2013 | X | | |
| 1/12/2013 | X | | | 1/9/2013 | Х | | |
| 1/19/2013 | Х | | | 1/16/2013 | X | | |
| 1/26/2013 | Х | | _ | 1/23/2013 | X | | |
| 2/2/2013 | Х | | | 2/6/2013 | X | | |
| 2/9/2013 | Х | | | 2/13/2013 | Х | | |
| 2/16/2013 | Х | | | 2/20/2013 | Х | | |
| 2/23/2013 | X | | | 2/27/2013 | Х | | |
| 3/2/2013 | Х | | | 3/6/2013 | Х | | |
| 3/9/2013 | Х | | | 3/13/2013 | Х | | |
| 3/16/2013 | Х | | | 3/20/2013 | Х | | |
| 3/23/2013 | X | | | 3/27/2013 | X | | |
| 3/30/2013 | X | | | 3/27/2013 | X | | |
| 4/6/2013 | X | | | 4/3/2013 | Х | | |
| 4/13/2013 | X | | | 4/10/2013 | X | | |
| 4/20/2013 | X | | | 4/17/2013 | X | | |
| 4/27/2013 | X | | | 4/24/2013 | X | | |
| 5/4/2013 | X | | | 5/1/2013 | Х | | |
| 5/11/2013 | X | | | 5/8/2013 | Х | | |
| 5/18/2013 | X | | | 5/15/2013 | Х | | |
| 5/25/2013 | X | | | 5/22/2013 | X | | |
| 6/1/2013 | X | | | 6/5/2013 | X | | |
| 6/8/2013 | X | | | 6/12/2013 | Х | | |
| 6/15/2013 | X | | | 6/19/2013 | X | | |
| 6/22/2013 | X | | | 6/26/2013 | X | | |
| 6/29/2013 | X | | | 6/26/2013 | X | | |