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February 28, 2014

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 SUA-1341
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 July 1 through December 31, 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

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Uranium One USA, Inc.
Irigaray and Christensen Ranch Projects

2013 SEMI-ANNUAL EFFLUENT AND MONITORING REPORT (NRC)

(July 1 through December 31, 2013)

February 28, 2014

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 July 1, 2013 through December 31, 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 0.8%. A total of 1,636,585,717 gallons were injected and 1,622,821,183 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 140 psi limit was exceeded on 15 separate occasions.

Module 7-1 had a quick spike in pressure to 165 psi on July 14, 2013 due to an injection booster pump associated with the module building tripping off.

Module 5-2 had a quick spike in pressure to 145 psi on July 7, 2013 due to another module building being shut down causing a pressure spike.

Module 5-2 had a quick spike in pressure to 152 psi on July 17, 2013 due to a surge in flow rate at the module building.

Module 5-2 had a quick spike to 155 psi due to a booster station going down.

Module 5-2 had a quick spike in pressure to 145 psi on August 28, 2003 due to losing a pump at a booster station.

Module 5-2 had a quick spike in pressure to 149 psi on September 3, 2013 during an IX column swap in the Satellite Plant.

Module 5-2 had a quick spike in pressure to 146 psi on September 21, 2013 due to the site experiencing a power bump.

Module 5-2 had a quick spike in pressure to 142 psi on October 5, 2013 due to a booster station going down.

Module 5-2 had a quick spike in pressure to 142 psi on October 23, 2013 due to a booster station going down.

Module 5-2 had a quick spike in pressure to 146 psi on November 9, 2013 due to a surge in flow rate at the module building.

Module 5-2 had a quick spike to 142 psi on November 15, 2013 due to a maintenance shut down in Mine Unit 8.

Module 5-2 had a quick spike in pressure to 143 psi on November 19, 2003 due to a valve problem in Booster Station 4.

Module 5-2 had a quick spike in pressure to 150 psi on December 3, 2013 due to lines freezing up in MU-10.

Module 10-6 had a quick spike in pressure to 142 psi on December 8, 2013 due to lines freezing up in the building.

Module 7-3 had a quick spike in pressure to 145 psi on December 18, 2013 due to a mechanical failure in the building.

As a result of the rising number of pressure increases associated with the Module Building 5-2, Uranium One has ordered a pressure reduction valve that has been installed in the building in February 2014.

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 three 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 two of the nine Willow Creek environmental locations occurred during the reporting period. The samples were taken from one location at the Irigaray Project (IR-13 Employee house trailer) and one location at the Christensen Project (AS-5A CR Plant Upwind S. E.). These two samples were inadvertently missed during the annual sampling event which was reported in the previous report. The results of the referenced missed samples are summarized in Table 5 which is located in Appendix A of this report.

3.5 Vegetation Sampling

Annual soil sampling at the Willow Creek environmental locations occurred during the previous reporting period and will not be duplicated in 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 6 and is located in Appendix A of this report.

4.2 Dryer Stack Emissions

The semiannual Dryer Stack Emission testing was performed on December 2, 2013 by Western Environmental Services and Testing Services. The test showed a release rate of 0.014 lb/hr, which demonstrates compliance with the allowable particulate emission rate of 0.30 lb/hr per the WDEQ Air Quality Permit OP 254. A summary of the total emissions released is in Table 7 of Appendix 1.

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 3rd and 4th 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 in Table 10 and is located in Appendix A of this report.

5.0 OTHER INFORMATION REQUIRED BY SECTION 12.6 - NRC LICENSE

5.1 ALARA Audit

The 2013 As Low As Reasonably Achievable (ALARA) audit has not yet been performed. The ALARA report will be submitted to the NRC when it has been completed.

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. During the reporting period there was one CBM well drilled approximately 2.4 miles WNW of the Christensen Ranch Satellite and one oil and gas well drilled approximately 1.75 miles ESE of the Irigaray Plant.

Over the past several years (2001 - 2013) 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.

There were five notices filed with the Wyoming State Engineers Office during 2013 for any new water wells with water rights located within a two mile radius from the Christensen Ranch Satellite and wellfields. All were associated with MU10A or MU8 and were filed by Uranium One.

5.3 July 1 through December 31, 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 two site inspections.

On July 31 – August 2, 2013 the NRC conducted a routine inspection at the Willow Creek Project. No violations were issued.

On November 7, 2013 the NRC conducted a routine inspection at the

Willow Creek Project for the PFN logging tool that is stored on site. No violations were issued.

5.3.3 During the reporting period there was one inspection held by the WDEQ-LQD and two inspections held by the WDEQ-WQD.

On August 13 the WDEQ-WQD was on site to perform an Inspection on the Deep Disposal Wells. No violations were issued.

On October 24, 2013 the WDEQ-LQD was on site to perform their Annual Inspection of the Willow Creek Project. No violations were issued.

On October 24, 2013 the WDEQ-WQD was on site to perform a Storm Water Pollution Prevention Plan (SWPPP) Inspection of the Willow Creek Project. Minor erosion concerns were identified and promptly addressed.

5.4 July 1 through December 31, 2013 SERP Summary

Uranium One's Safety and Environmental Review Panel (SERP) [NRC License Condition 9.4 (C)] conducted one review during the second half of 2013. A summary of the SERPs is located in Table 11 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 12 located in Appendix A.

APPENDIX A

Tables 1-12

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

Date	MU 5-2 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2013	12,340,544	12,232,544	108,000	0.9 %
August 2013	9,874,080	9,594,720	279,360	2.8 %
September 2013	8,953,240	8,726,520	226,720	2.5 %
October 2013	12,144,960	11,545,440	599,520	4.9 %
November 2013	10,091,520	9,682,560	408,960	4.1 %
December 2013	8,873,917	8,414,389	459,528	5.2 %
Totals	**62,278,261**	**60,196,173**	**2,082,088**	**3.3 %**

Date	MU 7 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2013	112,629,199	112,372,527	256,672	0.2 %
August 2013	84,683,125	84,897,983	-214,858	-0.3 %
September 2013	74,981,798	75,246,130	-264,332	-0.4 %
October 2013	79,218,693	79,189,492	29,201	0.0 %
November 2013	60,954,251	60,652,676	301,575	0.5 %
December 2013	62,679,620	61,862,556	817,064	1.3 %
Totals	**475,146,686**	**474,221,364**	**925,322**	**0.2 %**

Date	MU 8 Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2013	106,725,209	105,695,200	1,030,009	1.0 %
August 2013	81,901,264	80,939,682	961,582	1.2 %
September 2013	80,435,717	80,568,370	-132,653	-0.2 %
October 2013	97,513,188	97,548,918	-35,730	0.0 %
November 2013	82,384,381	82,239,169	145,212	0.2 %
December 2013	78,535,052	77,478,012	1,057,040	1.3 %
Totals	**527,494,811**	**524,469,351**	**3,025,460**	**0.6 %**

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

Date	MU 10A Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2013	45,870,387	45,376,161	494,226	1.1 %
August 2013	37,188,093	36,764,219	423,874	1.1 %
September 2013	37,212,421	36,881,128	331,293	0.9 %
October 2013	40,264,578	39,886,031	378,547	0.9 %
November 2013	37,680,829	36,896,244	784,585	2.1 %
December 2013	39,298,009	37,911,912	1,386,097	3.5 %
Totals	**237,514,317**	**233,715,695**	**3,798,622**	**1.6 %**

Date	MU 10B Monthly Totals			
	Production (gallons)	Injection (gallons)	Bleed (gallons)	% Bleed
July 2013	37,211,612	36,879,902	331,710	0.9 %
August 2013	39,057,379	38,921,886	135,493	0.3 %
September 2013	50,132,740	49,364,269	768,471	1.5 %
October 2013	74,392,123	73,362,847	1,029,276	1.4 %
November 2013	67,079,928	66,357,543	722,385	1.1 %
December 2013	66,277,860	65,332,153	945,707	1.4 %
Totals	**334,151,642**	**330,218,600**	**3,933,042**	**1.2 %**

Overall	**1,636,585,717**	**1,622,821,183**	**13,764,534**	**0.8 %**

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 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**
7/6/2013	138	116	117	112	125	122
7/13/2013	138	111	135	101	122	108
7/20/2013	**165**	127	116	111	131	108
7/27/2013	127	121	116	114	123	102
8/3/2013	136	126	123	114	127	106
8/10/2013	137	121	135	132	127	106
8/17/2013	131	114	126	102	135	107
8/24/2013	138	112	133	124	132	113
8/31/2013	130	(not in operation)	132	117	132	110
9/7/2013	132	(not in operation)	132	117	132	111
9/14/2013	124	(not in operation)	127	117	127	110
9/21/2013	127	(not in operation)	126	120	119	101
9/28/2013	139	(not in operation)	130	135	119	108
10/5/2013	136	(not in operation)	124	122	116	110
10/12/2013	125	(not in operation)	119	92	96	82
10/19/2013	115	119	113	96	113	95
10/26/2013	82	116	114	104	113	92
11/2/2013	121	129	125	102	125	113
11/9/2013	124	126	126	92	121	105
11/16/2013	74	121	129	55	117	96
11/23/2013	127	124	130	48	112	100
11/30/2013	127	129	124	49	114	99
12/7/2013	123	126	126	50	122	100
12/14/2013	125	121	126	53	115	84
12/21/2013	130	127	**145**	52	135	89
12/28/2013	114	125	129	49	135	95

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 Ending	Module 8-1	Module 8-2	Module 8-3	Module 8-4/5	Module 8-6	Module 8-7
7/6/2013	78	120	68	78	78	105
7/13/2013	78	120	65	73	77	103
7/20/2013	76	118	72	74	81	96
7/27/2013	85	117	70	85	86	95
8/3/2013	84	117	67	76	83	95
8/10/2013	90	115	66	75	80	98
8/17/2013	74	108	65	73	77	96
8/24/2013	81	112	62	76	80	97
8/31/2013	85	108	66	82	81	93
9/7/2013	78	110	63	80	77	92
9/14/2013	77	111	74	81	84	84
9/21/2013	77	112	71	86	80	88
9/28/2013	85	115	69	85	81	91
10/5/2013	84	124	99	95	82	92
10/12/2013	90	115	100	82	78	80
10/19/2013	82	117	64	76	75	82
10/26/2013	85	118	66	75	70	82
11/2/2013	75	112	65	73	74	87
11/9/2013	75	123	66	77	75	85
11/16/2013	95	122	62	73	86	85
11/23/2013	115	126	125	70	88	103
11/30/2013	91	114	74	66	72	88
12/7/2013	100	115	70	75	72	86
12/14/2013	111	121	75	82	93	99
12/21/2013	106	120	65	75	90	91
12/28/2013	108	119	66	78	94	85

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.) and Mine Unit 5-2

	Weekly Maximum injection Pressure (Maximum Permissible 140 psi)					
Week Ending	Module 8-8	Module 8-9		Module 5-2		
7/6/2013	83	100		135		
7/13/2013	82	104		**145**		
7/20/2013	90	105		**152**		
7/27/2013	85	99		122		
8/3/2013	89	106		132		
8/10/2013	95	117		**155**		
8/17/2013	95	106		136		
8/24/2013	90	106		136		
8/31/2013	103	90		**145**		
9/7/2013	86	95		**149**		
9/14/2013	88	95		129		
9/21/2013	91	97		**146**		
9/28/2013	100	104		126		
10/5/2013	105	114		140		
10/12/2013	90	96		**142**		
10/19/2013	87	96		140		
10/26/2013	89	82		**142**		
11/2/2013	95	100		137		
11/9/2013	96	95		**146**		
11/16/2013	105	96		**142**		
11/23/2013	94	94		**143**		
11/30/2013	88	92		134		
12/7/2013	100	96		**150**		
12/14/2013	105	94		131		
12/21/2013	95	90		128		
12/28/2013	91	97		136		

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 10

	Weekly Maximum injection Pressure (Maximum Permissible 140 psi)					
Week Ending	**Module 10-1**	**Module 10-2**	**Module 10-3**	**Module 10-4**	**Module 10-5**	**Module 10-6**
7/6/2013	112	130	104	61	(not in operation)	(not in operation)
7/13/2013	115	104	106	64	(not in operation)	(not in operation)
7/20/2013	109	110	101	55	(not in operation)	(not in operation)
7/27/2013	110	94	96	85	(not in operation)	(not in operation)
8/3/2013	116	107	99	95	(not in operation)	(not in operation)
8/10/2013	128	120	86	84	(not in operation)	(not in operation)
8/17/2013	124	99	87	86	(not in operation)	(not in operation)
8/24/2013	110	98	95	82	119	(not in operation)
8/31/2013	119	100	78	88	128	(not in operation)
9/7/2013	125	100	76	93	125	(not in operation)
9/14/2013	118	98	80	92	124	(not in operation)
9/21/2013	123	114	82	100	130	(not in operation)
9/28/2013	127	136	77	106	128	(not in operation)
10/5/2013	117	136	93	117	128	103
10/12/2013	108	129	80	110	127	110
10/19/2013	109	117	83	111	127	120
10/26/2013	115	97	84	102	126	125
11/2/2013	122	105	85	117	129	122
11/9/2013	122	110	93	115	127	136
11/16/2013	121	111	104	116	132	131
11/23/2013	138	111	107	118	132	134
11/30/2013	115	109	96	110	132	135
12/7/2013	122	115	105	118	129	135
12/14/2013	120	124	107	124	127	**142**
12/21/2013	125	115	104	124	130	129
12/28/2013	117	117	117	127	127	134

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

Sample Location	Christensen Ranch House #3		Christensen Ellendale #4	
Sample Date	3rd quarter **No Sample**	4th quarter **No Sample**	3rd quarter September 12, 2013	4th quarter November 20, 2013
Uranium	Well was down	Well was down	3.0E-10 (µCi/ml)	8.1E-10 (µCi/ml)
Thorium-230			N/D	N/D
Radium-226			1.9E-09 (µCi/ml)	3.0E-10 (µCi/ml)
Lead-210			N/D	N/D
Polonium-210			N/D	N/D

Sample Location	Christensen Middle Artesian		Christensen Del Gulch Lower #13	
Sample Date	3rd quarter September 12, 2013	4th quarter November 20, 2013	3rd quarter September 12, 2013	4th quarter November 20, 2013
Uranium	1.0E-08 (µCi/ml)	9.6E-09 (µCi/ml)	1.1E-09 (µCi/ml)	2.7E-10 (µCi/ml)
Thorium-230	N/D	N/D	N/D	N/D
Radium-226	2.0E-10 (µCi/ml)	3.0E-10 (µCi/ml)	6.0E-10 (µCi/ml)	9.0E-10 (µCi/ml)
Lead-210	1.5E-9 (µCi/ml)	1.2E-9 (µCi/ml)	N/D	N/D
Polonium-210	N/D	N/D	N/D	N/D

Sample Location	Christensen Willow Corral #32		Irigaray Willow # 2	
Sample Date	3rd quarter September 12, 2013	4th quarter November 20, 2013	3rd quarter September 12, 2013	4th quarter November 20, 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	3.0E-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	3rd quarter September 12, 2013	4th quarter November 20, 2013
Uranium	N/D	N/D
Thorium-230	N/D	N/D
Radium-226	N/D	N/D
Lead-210	N/D	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

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Uranium One Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Surface Water Monitoring

	Date	Uranium (µCi/ml)	Thorium 230 (µCi/ml)	Radium 226 (µCi/ml)	Lead 210 (µCi/ml)	Polonium 210 (µCi/ml)	Total Alkalinity (mg/L)	Chloride (mg/L)	TDS (mg/L)	Specific Conductivity (umhos/cm)	Sulfate (mg/L)	pH (s.u.)	Arsenic (mg/L)	Selenium (mg/L)	Estimated Flow Rate:
Willow Creek IR-9 Downstream															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	No sample was taken - all dry														
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	
Willow Creek IR-14 Upstream															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	11/21/2013	1.0E-09	N/D	6.0E-10	N/D	N/D	1980	10	2080	3250	17	8.9	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	
Willow Creek IR-17 Mine Site															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	11/21/2013	2.6E-08	N/D	N/D	1.3E-09	N/D	533	31	2770	4950	2570	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	1.7E-09	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	1	0.1	0.005	0.005	
Willow Creek GS-01 Downstream															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	No sample was taken - all dry														
Reporting Limit															
Willow Creek CG-05 Upstream															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	11/21/2013	2.2E-08	N/D	N/D	1.4E-09	N/D	319	13	2450	2860	1310	8.4	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	
Willow Creek GS-03 Mine Site															
3rd Quarter 2013	No sample was taken - all dry														
4th Quarter 2013	No sample was taken - all dry														
Reporting Limit		2.0E-09	2.0E-10	2.0E-10	1.0E-09	1.0E-09	5	1	10	5	1	0.1	0.005	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 * µCi / gram	Th-230 µCi / gram	Ra-226 µCi / gram	Pb-210 µCi / gram
IRIGARAY PROJECT				
IR-1 (Downwind of Restricted Area)	3.68E-08	1.20E-09	2.40E-09	2.40E-09
IR-3 (Upwind of Restricted Area)	8.50E-08	9.00E-10	1.20E-09	1.50E-09
IR-4 (North Road - Background)	1.11E-08	8.00E-10	1.30E-09	1.10E-09
IR-5 (Irigaray Ranch - nearest resident)	5.10E-09	4.00E-10	8.00E-10	1.50E-09
IR-6 (Ridge Road S.E.)	8.40E-09	8.00E-10	1.00E-09	1.30E-09
IR-13 (Employee house trailer)	**3.40E-09**	**N/D**	**1.30E-09**	**2.00E-09**
CHRISTENSEN PROJECT				
AS-1 (Table Mountain - Background))	5.60E-09	7.00E-10	8.00E-10	2.10E-09
AS-5A (CR Plant Upwind S.E.)	**1.10E-09**	**5.00E-10**	**9.00E-10**	**N/D**
AS-5B (CR Plant Downwind N.W.)	1.17E-08	9.00E-10	1.40E-09	1.50E-09
AS-6 (Christensen Ranch-Nearest Resident)	1.10E-08	7.00E-10	1.10E-09	1.50E-09
AS-7 (Christensen Employee house trailer)	5.70E-09	6.00E-10	1.30E-09	1.20E-09

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

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

N/D = Non Detectable

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

Location	3rd Quarter 2013 µCi/ml	4th Quarter 2013 µCi/ml	Location Average 2012 µCi/ml
IRIGARAY PROJECT			
IR-1 (Downwind of Restricted Area)	1.10E-09	4.00E-10	7.50E-10
IR-3 (Upwind of Restricted Area)	9.00E-10	7.00E-10	8.00E-10
IR-4 (North Road)	8.00E-10	4.00E-10	6.00E-10
IR-5 (Irigaray Ranch)	7.00E-10	4.00E-10	5.50E-10
IR-6 (Rigdge Road - S.E. - Background)	8.00E-10	7.00E-10	7.50E-10
IR-13 (IR Employee House Trailer)	2.10E-09	5.00E-10	1.30E-09
(IR-13 / nearest residence)			
CHRISTENSEN PROJECT			
AS-1 (Table Mountain - Background)	5.00E-10	4.00E-10	4.50E-10
AS-5A (CR Plant Upwind S.E.)	1.30E-09	6.00E-10	9.50E-10
AS-5B (CR Plant Downwind N.W)	8.00E-10	7.00E-10	7.50E-10
AS-6 (Christensen Ranch)	6.00E-10	5.00E-10	5.50E-10
AS-7 (CR Employee House Trailer)	1.20E-09	6.00E-10	9.00E-10
(AS-7 / nearest residence)			

LLD = 0.3 pCi/l

Table 7
Page 1 of 3
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Dryer Stack Emissions Testing Results

SUMMARY OF STACK EMISSIONS SURVEY RESULTS
Irigaray Dryer and Packaging Circuit

Survey month and year	Total Particulates lbs/hour (% limit)	U3O8 Emissions lbs / hour	Unat. Concentration uCi / ml	Th-230 Concentration uCi / ml	Ra-226 Concentration uCi / ml	Pb-210 Concentration uCi / ml
December 1994	0.074 (25%)	0.0047	3.06 E-10	6.7 E-13	7.75 E-13	2.33 E-12
March 1995	0.149 (50%)	0.0106	7.53 E-10	3.9 E-12	3.86 E-12	3.93 E-12
September 1995	0.167 (52%)	0.005	3.37 E-10	1.5 E-12	9.17 E-13	8.7 E-13
March 1996	0.056 (19%)	0.0041	2.92 E-10	1.13 E-12	1.51 E-13	1.13 E-12
September 1996	0.029 (10%)	0.0035	2.04 E-10	1.68 E-13	1.52 E-12	1.10 E-12
May 1997	0.057 (19%)	0.007	4.28 E-10	1.34 E-12	6.71 E-13	1.73 E-12
October 1997	0.065 (22%)	0.0123	6.80 E-10	1.88 E-12	1.86 E-12	4.23 E-13
May 1998	0.084 (28%)	0.0118	6.18 E-10	2.50 E-12	9.12 E-13	* NA
October 1998	0.035 (12%)	0.0063	3.08 E-10	1.21 E-12	1.54 E-12	2.94 E-11
June 1999	0.070 (23%)	0.0163	9.33 E-10	6.70 E-13	9.46 E-14	7.82 E-11
December 1999	0.014 (5%)	0.0107	6.67 E-10	9.01 E-14	1.53 E-13	2.73 E-12
May 2000	0.052 (17%)	0.0073	5.73 E-10	3.30 E-12	3.10 E-13	3.76 E-11
November 2001	0.071 (24%)	0.0082	6.36 E-10	< 1.42 E-12	< 6.51 E-13	< 4.35 E-13
January 2005	0.054 (18%)	0.0033	2.46E-10	1.19E-13	6.92E-14	2.91E-12
November 2011	0.041 (14%)	0.0087	.8.80E-10	4.07E-12	2.37E-12	6.08E-11
June 2012	0.038 (13%)	0.0086	6.21E-10	<4.88E-10	<5.65E-10	4.09E-10
December 2012	0.043 (14%)	0.0041	2.41 E-10	4.69 E-13	3.46E-12	2.83E-11
June 2013	0.023 (8%)	0.0061	7.25 E-10	7.07 E-13	4.19 E-12	1.77 E-11
December 2013	0.014 (5%)	0.0058	6.36 E-10	5.54 E-13	7.92 E-13	2.16 E-11
	Permit Limit 0.30					

COMMENTS:

* Pb-210 was not determined in May 98, because the sample was destroyed by the lab before the analysis was completed.

Table 7
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Sample Type: Dryer Stack Emissions Test

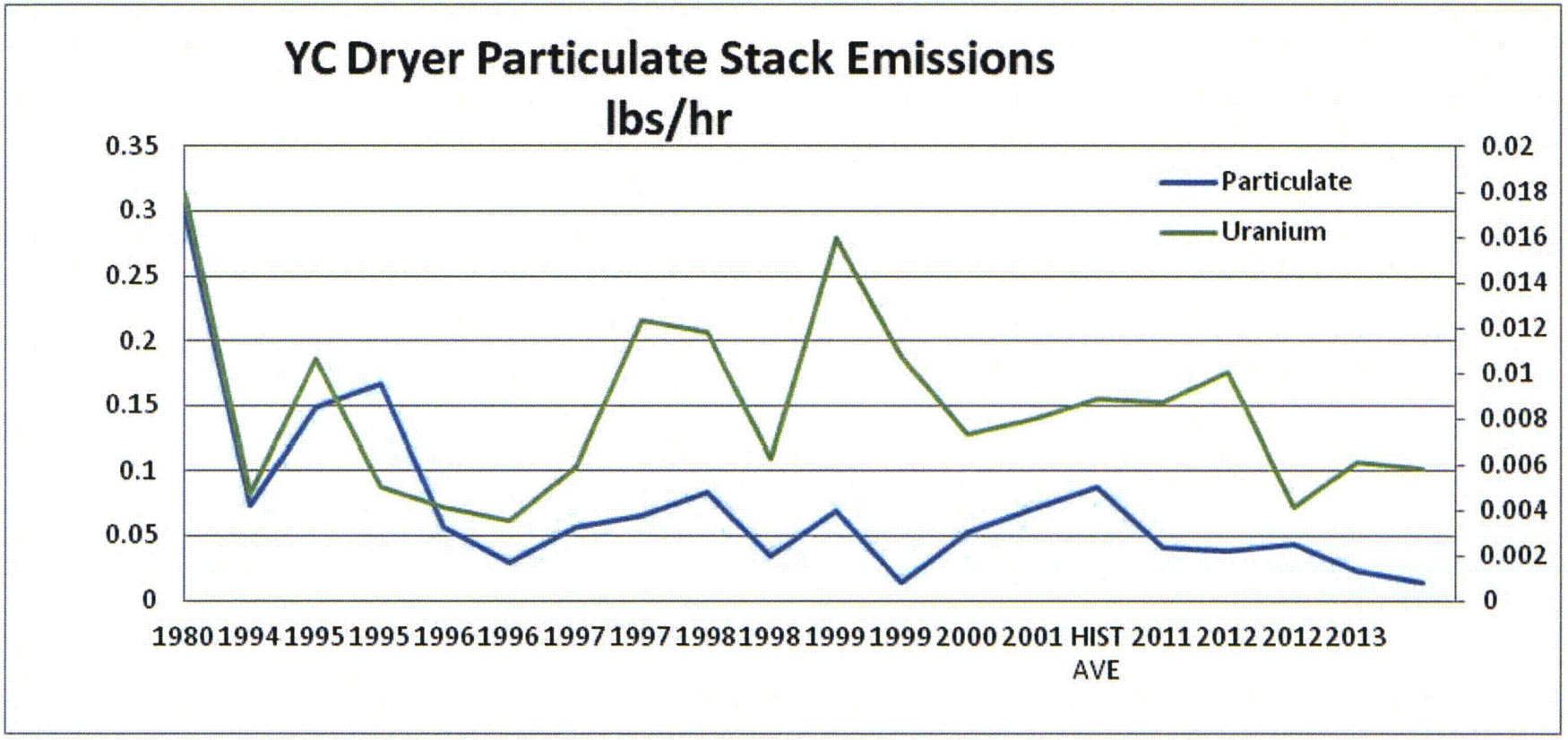

Table 7
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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Sample Type: Dryer Stack Emissions Test

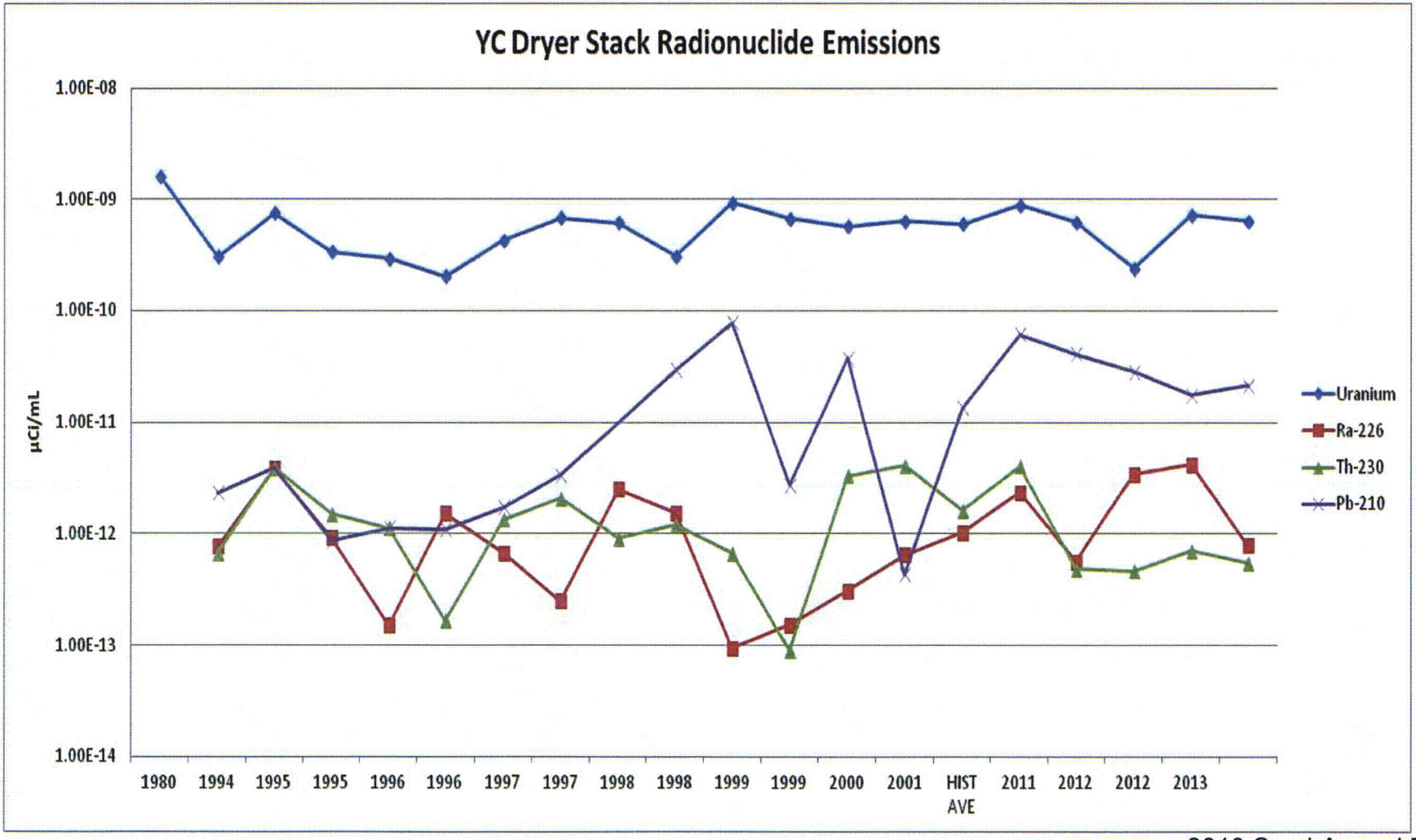

Table 8
Page 1 of 1
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Environmental Airborne Radionuclides

3rd Quarter 2013 Data				
	Uranium µCi/ml	Th-230 µCi/ml	Ra-226 µCi/ml	Pb-210 µCi/ml
IR-1 Downwind	3.4E-14	1.1E-16	3.6E-16	2.1E-14
%of Pt, App. B Effluent Limit	1.7%	0.0%	0.0%	3.5%
IR-3 Upwind	5.9E-14	1.4E-16	2.6E-16	2.5E-14
%of Pt, App. B Effluent Limit	3.0%	0.0%	0.0%	4.2%
IR-5 Brubaker Ranch	4.3E-15	2.0E-16	2.9E-16	1.8E-14
%of Pt, App. B Effluent Limit	0.2%	0.0%	0.0%	3.0%
IR-6 Background	7.5E-15	4.5E-16	5.9E-16	2.1E-14
%of Pt, App. B Effluent Limit	0.4%	0.0%	0.1%	3.5%
IR-13 Employee House Trailer	2.0E-14	1.9E-16	2.7E-16	2.5E-14
%of Pt, App. B Effluent Limit	1.0%	0.0%	0.0%	4.2%

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)

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

N/D =Non Detectable

4th Quarter 2013 Data				
	Uranium µCi/ml	Th-230 µCi/ml	Ra-226 µCi/ml	Pb-210 µCi/ml
IR-1 Downwind	1.6E-14	9.1E-16	2.0E-16	1.4E-14
%of Pt, App. B Effluent Limit	0.8%	0.0%	0.0%	2.3%
IR-3 Upwind	5.9E-14	1.4E-16	1.4E-16	1.7E-14
%of Pt, App. B Effluent Limit	3.0%	0.0%	0.0%	2.8%
IR-5 Brubaker Ranch	1.1E-15	1.0E-16	1.7E-16	2.0E-14
%of Pt, App. B Effluent Limit	0.1%	0.0%	0.0%	3.3%
IR-6 Background	2.0E-15	1.5E-16	2.2E-16	1.3E-14
%of Pt, App. B Effluent Limit	0.1%	0.0%	0.0%	2.2%
IR-13 Employee House Trailer	5.2E-15	1.6E-16	2.2E-16	2.4E-14
%of Pt, App. B Effluent Limit	0.3%	0.0%	0.0%	4.0%

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)

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

N/D =Non Detectable

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

Location	3rd Quarter 2013 mrem/quarter	4th Quarter 2013 mrem/quarter	Location Average mrem/quarter
IRIGARAY PROJECT			
IR-1 (Downwind of Restricted Area)	11.4	6.0	8.7
IR-3 (Upwind of Restricted Area)	29.2	28.0	28.6
IR-4 (North Road)	9.9	8.3	9.1
IR-5 (Irigaray Ranch)	6.7	6.0	6.4
IR-6 (Ridge Road S.E. - Background)	10.0	10.0	10.0
IR-13 (I.R. Employee House Trailer) (nearest residence)	13.1	10.2	11.7
Quarterly Average	13.4	11.4	12.4
CHRISTENSEN PROJECT			
AS-1 (Table Mountain - Background)	11.4	10.4	10.9
AS-5A(CR Plant Upwind S.E.)	13.7	10.1	11.9
AS-5B (CR Plant Downwind N.W.)	10.6	14.3	12.5
AS-6 (Christensen Ranch)	18.0	12.6	15.3
AS-7 (C.R. Employee House Trailer) (nearest residence)	3.0	4.2	3.6
Quarterly Average	11.3	10.3	10.8

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Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Public Dose - Radon

	IR-13 Irigaray Man Camp Site			
QTR./YEAR	Man Camp Radon uCi/mL	Bkg uCi/mL	Net uCi/mL	Annual Dose Mrem
1st Qtr.	5.0E-10	2.0E-10	3.0E-10	
2nd Qtr.	6.0E-10	6.0E-10	0.0E+00	
3rd Qtr. *	9.0E-10	8.0E-10	1.0E-10	
4th Qtr.	5.0E-10	7.0E-10	0.0E+00	
Yearly. Ave.	6.3E-10	5.8E-10	5.0E-11	5
		2013 TOTAL		5

	AS-7 Christensen Man Camp Site			
QTR./YEAR	Man Camp Radon uCi/mL	Bkg. uCi/mL	Net uCi/mL	Annual Dose Mrem
1st Qtr.	1.0E-10	1.1E-09	0.0E+00	
2nd Qtr.	7.0E-10	3.0E-10	4.0E-10	
3rd Qtr.	1.2E-09	5.0E-10	7.0E-10	
4th Qtr.	6.0E-10	7.0E-10	0.0E+00	
Yearly. Ave.	6.5E-10	6.5E-10	0.0E+00	0
		2013 TOTAL		0

*** Detector was found on the ground for IR man camp so highest value from 3rd Q 2011 and 2012 was used for value**

Background for Christensen Site is AS-1 (Table Mountain) (Rn-222 dtrs present = 1 E-10 µCi/ml = 50 mr/yr)
Background for Irigaray is IR-6 (Ridge Road SE)

Dose assignment was based on 36 hours per week of offshift time spent in mancamp over a 13 week period per quarter. [36 hrs. X 13 weeks = 468 hours/quarter] [1872 hours/year]

Dose assessment concentrations in 10 CFR 20, Appendix B, Table 2 Effluent Concentrations are equilivant to a 50 mrem dose if inhaled or injested continuously over a period of 1 year

Therefore the following equation to determine potential dose at the mancamp is applicable
24 hr/d x 7 d/wk = 168 hr/wk 168 hr/wk x 52 wk/yr = 8736 hrs/yr
1872 hrs/yr at the mancamp in 2013 1872 hr/yr/8736 hrs/yr = 0.2143 x 100 = **21.43% of time spent as time receiving a Public Dose**

Table 10
Page 2 of 4
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Public Dose - Gamma

	IR-13 Irigaray Man Camp Site			
QTR./YEAR	Man Camp mR	Bkg mR	NET mR	ANNUAL DOSE Mrem
1st Qtr./2013	7.4	6.7	0.7	0.7
2nd Qtr./2013	8.9	10.4	0.0	0.0
3rd Qtr./2013	13.1	10.0	3.1	3.1
4th Qtr./2013	10.2	10.0	0.2	0.2
		2013 TOTAL		4.0

	AS-7 Christensen Man Camp Site			
QTR./YEAR	Man Camp mR	Bkg mR	NET mR	ANNUAL DOSE Mrem
1st Qtr./2013	2.8	6.3	0.0	0.0
2nd Qtr./2013	-1.5	9.1	0.0	0.0
3rd Qtr./2013	3.0	11.4	0.0	0.0
4th Qtr./2013	4.2	10.4	0.0	0.0
		2013 TOTAL		0

Background for Christensen site is AS-1 (Table Mountain) ,Background for the Irigaray site is IR-6 (Ridge Road)

Dose assignment was based on 36 hours per week spent in mancamp over a 13 week period per quarter. [36 hrs. X 13 weeks = 468 hours/quarter] [1872 hours/year]

N/D = Non-Detectable (less than background)

Table 10
Page 3 of 4
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Public Dose - Airborne Radionuclide

2013 IRIGARAY MAN CAMP PUBLIC ENVIRONMENTAL AIRBORNE RADIONUCLIDE DOSE ASSIGNMENT

1st Quarter 2013		IR-13 Irigaray Site			2nd Quarter 2013		IR-13 Irigaray Site		
Sample Period	Radionuclide	Air Conc. uCi/mL	Bkg uCi/mL	Net uCi/mL	Sample Period	Radionuclide	Air Conc. uCi/mL	Bkg uCi/mL	Net uCi/mL
1/2/13 through 3/27/13	Unat	3.9E-15	2.9E-15	1.0E-15	4/26/12 thru 6/28/2012	Unat	4.5E-15	9.9E-16	3.5E-15
1/2/13 through 3/27/13	Th-230	2.6E-16	4.2E-16	0.0E+00	4/26/12 thru 6/28/2012	Th-230	N/D	1.1E-16	0.0E+00
1/2/13 through 3/27/13	Ra-226	2.2E-16	4.1E-16	0.0E+00	4/26/12 thru 6/28/2012	Ra-226	N/D	3.5E-17	0.0E+00
1/2/13 through 3/27/13	Pb-210	1.7E-14	1.7E-14	0.0E+00	4/26/12 thru 6/28/2012	Pb-210	1.4E-14	8.8E-15	0.0E+00

3rd Quarter 2013		IR-13 Irigaray Site			4th Quarter 2013		IR-13 Irigaray Site		
Sample Period	Radionuclide	Air Conc. uCi/mL	Bkg uCi/mL	Net uCi/mL	Sample Period	Radionuclide	Air Conc. uCi/mL	Bkg uCi/mL	Net uCi/mL
6/28/12 thru 10/1/2012	Unat	2.0E-14	7.5E-15	1.3E-14	10/1/12 thru 1/2/2013	Unat	5.2E-15	2.0E-15	3.2E-15
6/28/12 thru 10/1/2012	Th-230	1.9E-16	4.5E-16	0.0E+00	10/1/12 thru 1/2/2013	Th-230	1.6E-16	1.5E-16	0.E+00
6/28/12 thru 10/1/2012	Ra-226	2.7E-16	5.9E-16	0.0E+00	10/1/12 thru 1/2/2013	Ra-226	2.2E-16	2.2E-16	0.0E+00
6/28/12 thru 10/1/2012	Pb-210	2.5E-14	2.1E-14	0.0E+00	10/1/12 thru 1/2/2013	Pb-210	2.4E-14	1.3E-14	0.0E+00

2013			
Conc µCi/ml	10 CFR Effluent Limit	% Effluent Conc.	DOSE Mrem
5.1E-15	2.0E-12	0.26	0.06
0.0E+00	3.0E-14	0.00	0.00
0.0E+00	9.0E-13	0.000	0.00
0.0E+00	6.0E-13	0.00	0.00
	2013 TOTAL		0.06

There is no environmental airborne radionuclide sampling performed at the Christensen Satellite Facility as only release is radon.

Dose in the above table is shown as 100% of time as Public Dose exposure. Being used to demonstrate compliance with 40 CFR 190 limit of 10 mrem excluding radon.

When in actuality time spent at man camp as member of Public is as follows:
Dose assignment was based on 36 hours per week of offshift time spent in mancamp over a 13 week period per quarter. [36 hrs. X 13 weeks = 468 hours/quarter] [1872 hours/year]

Dryer Operations were performed during the 1st, 2nd, 3rd and 4th Quarters in 2013.

Table 10
Page 4 of 4
Uranium One USA, Inc. - Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
Public Dose - Airborne Radionuclide

2013 PUBLIC DOSE SUMMARY

	Irigaray Site			
YEAR	Radon	Gamma	Airborne	Annual Public Dose Mrem
2013	5.2	4.0	0.06	**9.31**

	Christensen SatelliteSite			
YEAR	Radon	Gamma	Airborne	Annual Public Dose Mrem
2013	0.0	0.0	0.06	**0.06**

There is no environmental airborne radionuclide sampling performed at the Christensen Satellite Facility, utilized data from Irigaray Site to be a conservative estimate.

Table 11
Page 1 of 1
Uranium One USA, Inc. – Willow Creek Project
2013 Semi-Annual Effluent and Monitoring Report
SERP Summary

Number and Date	Description	Revisions to License Application Text
SERP 13-06 **(7-18-13)**	The purpose of this evaluation by the Uranium One Safety and Environmental Review Panel (SERP) is to review the qualifications of Tim McCullough to determine if he meets the qualifications as a Radiation Safety Officer as specified in Radioactive Materials License SUA-1341, Regulatory Guide 8.31 and the Approved 2008 License Renewal Application. The purpose for making this determination would be to provide the site with an additional on site qualified individual that could qualify as the RSO designee in the absence of the site RSO and provide additional qualified assistance to the Radiation staff for equipment release, inspection or other activities as determined appropriate.	

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

Irigaray Site				Christensen Site			
Date: Week	YES	NO	COMMENTS	Date: Week	YES	NO	COMMENTS
7/6/2013	X			7/6/2013	X		
7/13/2013	X			7/13/2013	X		
7/20/2013	X			7/20/2013	X		
7/27/2013	X			7/27/2013	X		
8/3/2013	X			8/3/2013	X		
8/10/2013	X			8/10/2013	X		
8/17/2013	X			8/17/2013	X		
8/24/2013	X			8/24/2013	X		
8/31/2013	X			8/31/2013	X		
9/7/2013	X			9/7/2013	X		
9/14/2013	X			9/14/2013	X		
9/21/2013	X			9/21/2013	X		
9/28/2013	X			9/28/2013	X		
10/5/2013	X			10/5/2013	X		
10/12/2013	X			10/12/2013	X		
10/19/2013	X			10/19/2013	X		
10/26/2013	X			10/26/2013	X		
11/2/2013	X			11/2/2013	X		
11/9/2013	X			11/9/2013	X		
11/16/2013	X			11/16/2013	X		
11/23/2013	X			11/23/2013	X		
11/30/2013	X			11/30/2013	X		
12/7/2014	X			12/7/2014	X		
12/14/2013	X			12/14/2013	X		
12/21/2013	X			12/21/2013	X		
12/28/2013	X			12/28/2013	X		