



Matthew H. Mead, Governor

## Department of Environmental Quality

To protect, conserve and enhance the quality of Wyoming's environment for the benefit of current and future generations.



Todd Parfitt, Director

August 5, 2014

Mr. Jon Winter  
Uranium One USA, Inc.  
907 N. Poplar Street, Suite 260  
Casper, WY 82601

**RE: Uranium One, Willow Creek ISR Operations, Mine Unit 5, Header House 5-5 Spill, Follow-up Inspection Report, Permit No. 478**

Dear Mr. Winter:

Enclosed is a copy of the Spill Inspection Report performed as a follow-up for the initial spill inspection conducted on January 21, 2014. The initial inspection was conducted in response to a production fluid release from the Willow Creek, Christensen Ranch, Mine Unit 5, Module 5-5 Header House. This follow-up inspection was conducted on June 4, 2014 with the assistance of Mr. Kevin Filbert of Uranium One.

A copy of this report will be placed in the Spill Volume for Permit #478, Willow Creek Irigaray-Christensen ISR Operations, as will any written comments you may have.

Uranium One's cooperation and assistance are greatly appreciated. If you have any questions or comments, please contact me at 307-675-5619.

Sincerely,

Luke McMahan P.G.  
Project Geologist

Attachment: Spill Inspection Report

cc: WDEQ/WQD: Jim Eisenhower w/attach.  
**Mr. Ron Linton, US** Nuclear Regulatory Commission, Mail Stop T-8F5,  
11545 Rockville Pike, Rockville, MD 20852 w/attach.



MSX  
8/6/14

# IN SITU MINE INSPECTION REPORT

Wyoming Department of Environmental Quality, Land Quality Division  
2100 West 5th Street Sheridan, WY 82801  
Phone: (307) 673-9337 FAX: (307) 672-2213



<b>Permit Number:</b>	PT0478	<b>Permittee:</b>	URANIUM ONE USA INC
<b>Inspection Date:</b>	6/4/2014	<b>Inspector(s):</b>	Luke McMahan
<b>Report Date:</b>	8/5/2014	<b>Participant(s):</b>	Kevin Filbert (Uranium One)
<b>Last Inspection:</b>	1/21/2014	<b>Current Bond:</b>	\$21,075,000
<b>Inspection Reason(s):</b>	Follow-up	<b>Field Conditions:</b>	Clear, calm, ~80° F
		<b>Approval Date:</b>	4/18/1978
<b>Status:</b>	Active	<b>Approved Acreage:</b>	14986.38
<b>County:</b>	Johnson	<b>Mineral:</b>	Uranium

## Opening Comments

On June 4, 2014 LQD District 3 inspected the spill site associated with the Mine Unit 5, Module 5-5 Header House spill which occurred January of 2014. The purpose of this inspection was to follow up LQD's initial inspection conducted on January 21, 2014 and document any visual impacts to surface soil or vegetation along the flow path of the spill. Actions taken in response to this spill are detailed in the Uranium One Spill Report dated January 24, 2014 and the LQD District 3 Spill Inspection Report dated January 31, 2014. Both reports can be found in LQD's Spill Volume for Uranium One's Willow Creek ISR Project, Permit to Mine No. 478. This follow-up inspection report will also be filed in the PT478 Spill Volume.

Inspection of the spill site on June 4, 2014 found no visibly discernable impacts along the spill flow path to soil or vegetation. No precipitate from the spill fluid was observed on the soil surface along the flow path, in the catchment basins or in the impoundment. No visual evidence of impact to vegetation growth was observed. Uranium One was continuing to keep the spill area fenced off with temporary electric fence until monitoring of the area is completed. Photographs demonstrating this can be found in the attached photo log.

## Compliance Assessment

Inspection Topic	In Compliance
Drill Holes	N/A
General	N/A
Well Field Development	N/A
Well Fields	N/A

1426  
8/6/14



Inspection Topic	In Compliance
• Spills	Yes
No visibly discernable impacts along the spill flow path to soil or vegetation were observed during the inspection.	

#### **Actions Required**

There are no unresolved Maintenance Items

#### **Inspection Summary Comments**

At the time of the this inspection, Uranium One had been and was continuing to implement the environmental sampling requested in LQD's January 31, 2014 Spill Inspection Report. LQD anticipates receiving the results of the environmental monitoring from Uranium One in the fall of 2014. No visible environmental concerns were noted during this inspection.

**Inspection Recipient and Attachment Information**

Recipient	Email	Address/Notes
Operator	No	URANIUM ONE USA INC

**Attachment Types:** ☒ Photo Addendum ☐ Map(s) ☐ Table(s) ☐ Other

**Attachment Notes**

--

Type	FileName	Size (MB)	# Pages
Cover Letter	478_Spill IR_cvrltr_08.05.14LM.pdf	0.91	1
Photos	2014_06_04_PT478_Spill Inspection Report_Photo LogLM.pdf	1.20	3



### **PHOTO LOG**

**Photo #1** – View (looking east) of spill flow path down-stream of Header House 5-5.



**Photo #2** – View (looking west) of spill flow path along the drainage located down-stream of Header House 5-5.





**Photo #3:** View of upper catchment basin located perpendicular to flow path in receiving drainage.



**Photo #4:** View of lower catchment basin located perpendicular to flow path in receiving drainage.





**Photo #5:** View of drainage looking down-stream of impoundment located along receiving drainage.



**Photo #6:** View of impoundment looking northeast.

