



October 9, 2012

Sent via Fed Ex

Attn: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Mr. Keith I. McConnell, 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-1341, Docket No. 40-8502  
Willow Creek Project  
September 7, 2012  
7I-46 Injection Well Release  
Christensen Ranch Mine Unit 7**

Dear Mr. McConnell:

In accordance with License Conditions 12.2 and 9.2 of the referenced license, this correspondence serves as the written notification for a release of ISR injection fluid at the Mine Unit 7 wellfield area at Willow Creek (Christensen Ranch) located in Johnson County. The spill occurred on September 7, 2012. This area is entirely within the fenced MU-7 Controlled Area. The release was reported via email to the NRC Project Manager, Region IV personnel and WDEQ on September 10, 2012.

The details of the spill are included on the attached Spill Report Summary along with a map of the location. Note that there were no significant impacts to the public, environment, wildlife or livestock.

Please contact me should you have any questions regarding this report.

Sincerely,

Tim McCullough  
Manager Site SHE

cc: Bill Kearney      Larry Arbogast  
Barry Koch      Rick Kukura  
NRC File; Spill Reports

**Uranium One USA, Inc. - Willow Creek Project  
Spill Report Summary  
Mine Unit 7 ISR Injection Fluid Release**

**Date and Estimated Time (beginning & end)**

From: September 7, 2012 (08:30 am)

To: September 7, 2012 (09:30 am)

**Location**

Christensen Ranch Mine Unit 7

Injection Well 7I-46

Module 7-4

Section 9, Township 44N, Range 76W

Campbell County, Wyoming

(see attached map for detailed location)

**Spill Type**

ISR injection fluid

**Estimated Volume Released**

Spilled: Approximately 1,000 gallons of ISR injection fluid was released from Injection Well 7I-46 when a glue joint associated with a 5" pvc coupler and the 5" pvc well casing. The injection well was located on top of a "bench" and the fluid flowed approximately 500 feet down the side into a dry ephemeral draw located in the Mine Unit 7-4 Wellfield. The failed joint was located at ground level just beneath the well box. The affected area is located entirely within the fenced Controlled Area.

**Estimated Volume Recovered**

All of the released fluid quickly soaked into the dry soil, so it was not possible to recover any of it.

**Spill Analysis Results**

A small volume of the released fluid was obtained on September 7, 2012 and submitted to the Willow Creek on site lab for analysis. The results were as follows:

Uranium        7.0 ppm

**Impacts**

The release followed site drainage and remained within the fenced MU-7 Controlled Area. It is estimated that 7,000 square feet (0.14 acre) of soil was impacted. No wildlife or livestock were affected. No significant erosion resulted from the spill, as it all soaked into the ground.

### **Soil Surveys & Analysis Results**

Due to the limited extent of the release and it occurred inside the fenced wellfield area, no soil samples were obtained for analysis.

### **Remediation Actions**

Due to the limited extent of the release, no remediation is anticipated at this time.

### **Explanation of the Root Cause**

A 5" pvc well casing extension connected by a 5" pvc coupler failed at the glue joint on Injection Well 7I-46, which was located 48" below ground level.

### **Corrective Actions**

The well was immediately shut off and repaired.

### **Agency Reporting**

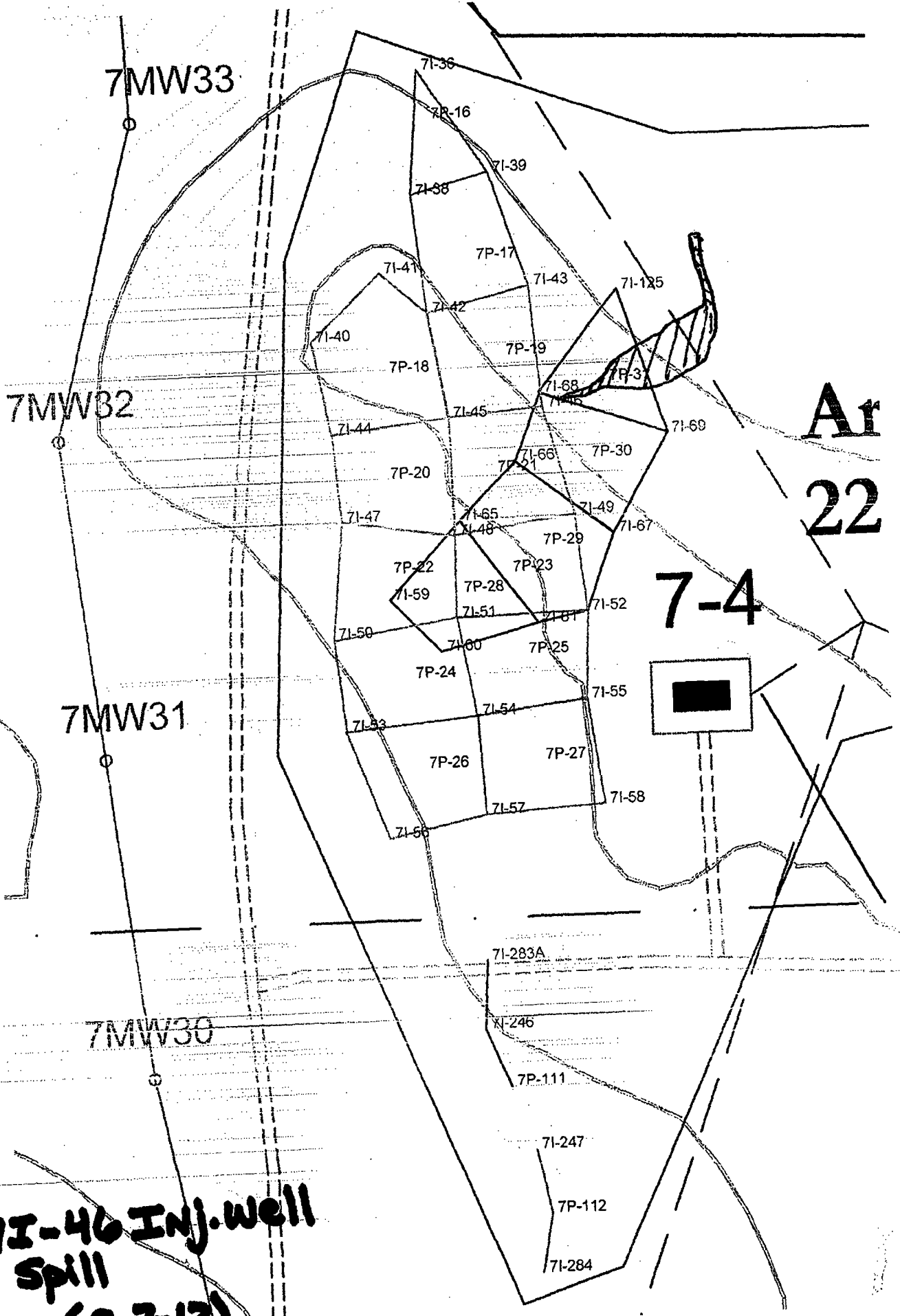
WDEQ: Mike Ploughe - Permit Coordinator; September 10, 2012 (e-mail)  
Joe Hunter – Spill Coordinator; September 10, 2012 (e-mail)

NRC: Blair Spitzberg- Region IV Branch Chief; September 10, 2012 (e-mail)  
Ron Linton - Project Manager; September 10, 2012 (e-mail)  
Linda Gersey – Health Physicist, Region IV; September 10, 2012 (e-mail)

### **Map of Spill Location and Impacted Area**

Attached

The location and extent of the spill is recorded in the on-site historical spill file.



7MW33

7MW32

7MW31

7MW30

Ar  
22

7-4



7I-46 Inj. well  
Spill  
(9-7-12)

7I-36

7P-16

7I-39

7I-38

7P-17

7I-41

7I-43

7I-125

7I-40

7P-18

7P-19

7P-3

7I-44

7I-45

7I-68

7I-69

7P-20

7P-21

7P-30

7I-47

7I-65

7I-49

7I-67

7P-22

7I-48

7P-29

7I-59

7P-28

7P-23

7I-52

7I-50

7I-51

7I-81

7P-24

7I-60

7P-25

7I-53

7I-54

7I-55

7P-26

7P-27

7I-58

7I-56

7I-57

7I-283A

7I-246

7P-111

7I-247

7P-112

7I-284

# FEDEX

# Express

*Draw Person KO  
MS-8  
T-8 FS*

From: (307) 234-8235  
Stephanie Aurelius  
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Ship Date: 09OCT12  
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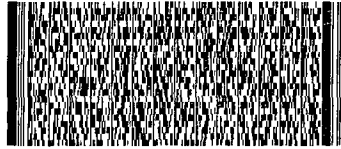
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Keith J. Connell, Deputy Director  
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11545 ROCKVILLE PIKE  
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*Keith*

WED - 10 OCT A1  
PRIORITY OVERNIGHT

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