



DEPARTMENT OF THE ARMY  
HEADQUARTERS, US ARMY OPERATIONS SUPPORT COMMAND  
1 ROCK ISLAND ARSENAL  
ROCK ISLAND, IL 61299-6000

REPLY TO  
ATTENTION OF:

December 21, 2001

Safety/Rad Waste Office

Mr. Bruce Jorgensen  
Nuclear Regulatory Commission  
Region III  
Decommissioning Branch  
801 Warrenville Road  
Lisle, Illinois 60532-4351

Dear Mr. Bruce Jorgensen:

In accordance with Nuclear Regulatory Commission license SUC-1380, we have enclosed the results of water samples from Lake City Army Ammunition Plant, Independence, Missouri. We took the samples on November 14, 2001. The US Army Center for Health Promotion and Preventive Medicine analyzed the samples for uranium. None of the samples exceeded the limits set by Title 10, Code of Federal Regulations, part 20, appendix B.

Our point of contact is Mr. Gary Buckrop, AMSOS-SF, (309) 782-2969/0338/0880, electronic mail address [amsos-sf@osc.army.mil](mailto:amsos-sf@osc.army.mil).

Sincerely,

Rosalene E. Graham  
Chief, Safety/Rad Waste Office

Enclosure

**Copy Furnished:**

**Mr. Stewart Brown, Nuclear Regulatory Commission,  
Mail Stop T7F27, 11545 Rockville Pike, Rockville,  
Maryland 20852-2738**

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U.S. Army Center for Health Promotion  
and Preventive Medicine

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04 DEC 2001

DIRECTORATE OF LABORATORY SCIENCES (DLS)  
FINAL ANALYTICAL REPORT  
PROGRAM 26 - SUBJONO: 3236  
REPORT SERIAL NO. 104245  
DLS PROFILE #: 25959 - WORK ORDER #: 3441  
Rock Island

03-Dec-01

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Readiness Thru Health



REPLY TO  
ATTENTION OF

MCHB- TS-LRD ( 40-5F )

DEPARTMENT OF THE ARMY  
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE  
5158 BLACKHAWK ROAD  
ABERDEEN PROVING GROUND, MARYLAND 21010-5422

DIRECTORATE OF LABORATORY SCIENCES (DLS)  
RADIOLOGIC, CLASSIC & CLINICAL CHEMISTRY DIVISION  
FINAL ANALYTICAL REPORT

03-Dec-01

CLIENT: Gary Buckrop  
U.S. Army Operations Sup Cmd  
1 Rock Island Arsenal

Rock Island IL 612996000  
DSN: 793-2969/0338

PROJECT SITE: Rock Island  
PROGRAM 26 SUBJONO: 3236  
DLS PROFILE #: 25959 DLS WORK ORDER #: 3441  
REPORT SERIAL NUMBER: 104245

This report shall not be reproduced except in full without the written approval of DLS. The results relate only to the specific samples identified within the report. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the US Government.

REPORT RELEASE AUTHORIZATION:

Signature: *Randy Luth* Date: 4 Dec 01



Certificate# 28.02

DLS HOLDS ACCREDITATION FROM AIHA, A2LA, NLLAP, AND COLA

Readiness thru Health

**DLS Final Analytical Report, Rock Island**

**Program 26, SUBJONO 3236, DLS WO# 3441, Report Serial No. 104245, 12/3/01**

**CASE NARRATIVE**

1. References:

- a. DARCOM Handbook 385-1.1-78, Safety Procedures for processing Depleted Uranium, August 1978.
- b. Memorandum, AMSOS-ISS, 14 Nov 2001, subject: Water Samples from Lake City Army Ammunition Plant (AAP).

2. Results of analyzing water samples LC-1 through LC-7 (DLS ID Numbers 3441001 through 3441007, respectively) for uranium are enclosed.

3. A conversion factor of 0.36 picocuries per microgram was used to convert from micrograms to picocuries of uranium. This factor was based upon the specific activity for depleted uranium documented in reference a.

4. Point of contact for additional information on profile 25959-3236, work order 3441, is Mr. Gary W. Wright, extension 5-3983.

**List of the report contents:**

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**Report Point-of-Contact:** Angel Christman *4/3*

**Reviewer:** GWW/RJS *Completed Dec 2001*

**List of all tests used:**

DLS Procedure	Count
U_002	7

**Number of samples included in the report, by matrix:**

Matrix	Quantity
Water (Ground water)	7

**DLS Final Analytical Report, Rock Island**

**Program 26, SUBJONO 3236, DLS WO# 3441, Report Serial No. 104245, 12/3/01**

**Analyst(s):**

Analyst Code	Analyst Name	Signature
0065	SPENCESE	

DLS Final Analytical Report, Rock Island

Program 26, SUBJONO 3236, DLS WO# 3441, Report Serial No. 104245, 12/3/01

**SAMPLE SUMMARY**

Sorted by Field ID

<b>Field ID</b>	<b>DLS ID</b>	<b>Date Collected</b>	<b>Matrix</b>
LC-1	3441001	14-Nov-01	Water (Ground water)
LC-2	3441002	14-Nov-01	Water (Ground water)
LC-3	3441003	14-Nov-01	Water (Ground water)
LC-4	3441004	14-Nov-01	Water (Ground water)
LC-5	3441005	14-Nov-01	Water (Ground water)
LC-6	3441006	14-Nov-01	Water (Ground water)
LC-7	3441007	14-Nov-01	Water (Ground water)

## RADIOCHEMISTRY ANALYTICAL DATA REPORT

(RAD Standard Format)

Field ID: LC-1

DLS ID: 3441001

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-2

DLS ID: 3441002

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-3

DLS ID: 3441003

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-4

DLS ID: 3441004

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-5

DLS ID: 3441005

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-6

DLS ID: 3441006

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

Field ID: LC-7

DLS ID: 3441007

Analyte	Result	Un-certainty	Result Units	Method Reporting Limit	Analytical Method	Date Time Analyzed
Uranium	0.00E+0 ±		pCi/L	0.5 <i>SEP 12/3/01</i>	U_002	28-Nov-2001

### TERMINOLOGY/ABBREVIATIONS

Term	Description
A2LA	American Association for Laboratory Accreditation