



17736 Edison Avenue  
Chesterfield, Missouri 63005  
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October 28, 2016

Materials Licensing Branch  
Attn: Ms. Jennifer Bishop  
U.S. Nuclear Regulatory Commission, Region III  
2443 Warrenville Road, Suite 210  
Lisle, Illinois 60532-4352

Reference: NRC License Number 24-32630-01

Dear Ms. Bishop,

As a followup to our telephone conversation yesterday, we are providing the following:

1. Most-recent Leak Test Reports for Serial Numbers 2655, 3187, and 5416.
2. We request that our license renewal be for a total of three Humboldt 5001EZ gauges and one Troxler 3440 gauge.
3. We request to use the gauges at temporary job sites.

If you need anything additional, please let us know.

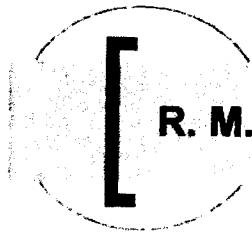
Respectfully,  
**GATEWAY GEOTECHNICAL, LLC**

T. Michael McMillen, PE, D.GE  
President

Robert L. Sudholt, RSO

Enclosures: As stated

RLS/TMM/tmm



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215 Indacom Drive  
St. Peters, MO 63376  
(636) 928-9628  
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### RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: July 26, 2016

Analytical Date: August 25, 2016

**Source Identification:**

Manufacturer: Humboldt

Model No.: 5001EZ

Mach S/N: 2655

Radionuclide: Cs-137

Activity: 10.0 mCi

Source S/N: 6454GQ

Radionuclide: Am-241/Be

Activity: 40.0 mCi

Source S/N: NJ02337

Sample Submitted By: Kenneth Barnes, Health Physicist

Facility: Gateway Geotechnical

Address: 17736 Edison Ave.

Chesterfield, MO 63005

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 7.34 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Cs-137 and  $\leq 7.03 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Am-241.

- ( X ) This source is acceptable for continued use.
- ( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.
- ( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: January 26, 2017

Analysis By: Kenneth Barnes

Reviewed By: K. M. Barnes



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### RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: September 16, 2016

Analytical Date: September 16, 2016

Source Identification:

Manufacturer: Humboldt

Model No.: 5001EZ

Mach S/N: 3187

Radionuclide: Cs-137

Activity: 10.0 mCi

Source S/N: 8673GQ

Radionuclide: Am-241/Be

Activity: 40.0 mCi

Source S/N: NJ03600

Sample Submitted By: Kenneth Barnes

Facility: Gateway Geotechnical

Address: 17736 Edison Ave.

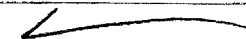
Chesterfield, MO 63005

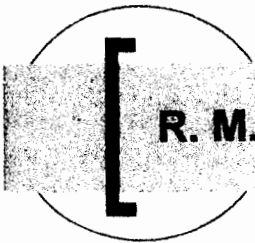
The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 8.31 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Cs-137 and  $\leq 7853 \times 10^{-5}$   $\mu\text{Ci}$  of loose contamination for Am-241.

- ( X ) This source is acceptable for continued use.
- ( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu\text{Ci}$  of removable radioactive materials, and should be removed from service immediately.
- ( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: March 16, 2017

Analysis By: Kenneth Barnes

Reviewed By: Kevin McCann 



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### RADIOACTIVE SEALED SOURCE LEAK TEST REPORT

Test Date: February 24, 2016

Analytical Date: February 24, 2016

**Source Identification:**

Manufacturer: Humboldt

Model No.: 5001EZ

Mach S/N: 5416

Radionuclide: Cs-137

Activity: 10.0 mCi

Source S/N: 9304CM

Radionuclide: Am-241/Be

Activity: 40.0 mCi

Source S/N: NJ05751

Sample Submitted By: Kenneth Barnes

Facility: Gateway Geotechnical

Address: 17736 Edison Ave.

Chesterfield, MO 63005

The identified sealed source listed above has been tested for leakage of radioactive materials as required by the United States Nuclear Regulatory Commission. The analysis of the wipe material used in testing the sealed source reveals the presence of  $\leq 8.36 \times 10^{-5}$   $\mu$ Ci of loose contamination for Cs-137 and  $\leq 8.13 \times 10^{-5}$   $\mu$ Ci of loose contamination for Am-241.

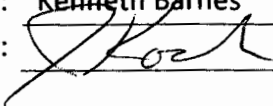
( X ) This source is acceptable for continued use.

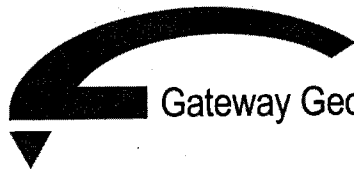
( ) This source has been found to have a level of loose contamination greater than 0.005  $\mu$ Ci of removable radioactive materials, and should be removed from service immediately.

( N/A ) Operational and performance check of shutter mechanism satisfactory.

Next Leak Test Date: August 24, 2016

Analysis By: Kenneth Barnes

Reviewed By: 



Gateway Geotechnical, LLC



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\$00.47<sup>9</sup>

Mailed From 63005

10/28/2016

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60532-435260

