



29 March 2018

Director of Nuclear Material and Safeguards  
U.S. Nuclear Regulatory Commission  
Attn: GLTS  
Washington, DC 20555-0001

Dear Director,

The City of Tecumseh Waste Water Treatment Plant is writing this letter to inform your agency of the transfer of four Generally Licensed measuring devices identified as being in our possession. Detailed information for these units is described below. These devices were removed from service, inventoried, packaged, shipped and received by RAM Services, Inc. of Two Rivers, Wisconsin. Their state of Wisconsin radioactive materials license number is 071-1234-01.

| MANUFACTURER      | MODEL # | SOURCE SERIAL # | ISOTOPE | ACTIVITY (mCi) | ASSAY DATE |
|-------------------|---------|-----------------|---------|----------------|------------|
| Ronan Engineering | X91     | M2379           | Cs-137  | 300            | 11/15/1988 |
| Ronan Engineering | X91     | M1107           | Cs-137  | 300            | 1/15/1987  |
| Ronan Engineering | X91     | M1108           | Cs-137  | 300            | 1/15/1987  |
| Ronan Engineering | X91     | 76319           | Cs-137  | 300            | 4/15/1985  |

Attached is a copy of the most recent leak test certificate for each unit along with the RAM Services, Inc. acceptance letter dated 24 March 2018 as documentation of their acceptance of the above sources. We are requesting you update our General Licensed device inventory accordingly.

Feel free to contact me directly at (517) 423-0402 or [tamstutz@tecumseh.mi.us](mailto:tamstutz@tecumseh.mi.us) if you require any additional information or have any additional questions.

Sincerely,

Todd Amstutz  
Utilities Superintendent

Attachment

*Innovative ♦ Timeless ♦ Inviting*



RAM Services, Inc.  
510 County Highway V  
Two Rivers, WI 54241-9628  
Voice: 920-686-3889  
jwiza@ramservicesinc.com  
www.ramservicesinc.com

24 March 2018

Mr. Todd Amstutz,  
Utilities Superintendent  
City of Tecumseh WWTP  
710 E. Chicago Blvd.  
Tecumseh, MI 48286

Re: RPK-1440, Shipment 2018-011

Dear Mr. Amstutz,

This letter is to advise you the radioactive devices as detailed below has been received by RAM Services, Inc. as of 24 March 2018 and we have taken possession of the sources identified under our State of Wisconsin Radioactive Materials License 071-1234-01.

| MANUFACTURER      | MODEL # | SOURCE SERIAL # | ISOTOPE | ACTIVITY (mCi) | ASSAY DATE |
|-------------------|---------|-----------------|---------|----------------|------------|
| Ronan Engineering | X91     | M2379           | Cs-137  | 300            | 11/15/1988 |
| Ronan Engineering | X91     | M1107           | Cs-137  | 300            | 1/15/1987  |
| Ronan Engineering | X91     | M1108           | Cs-137  | 300            | 1/15/1987  |
| Ronan Engineering | X91     | 76319           | Cs-137  | 300            | 4/15/1985  |

These sources will need to be disposed of as Low-Level Radioactive Waste at the Waste Control Specialists site in Andrews, TX and we will utilize the signed City of Tecumseh WWTP brokerage agreement letter. They shall be shipped using an U.S. Nuclear Regulatory Commission 540/541 waste manifest, naming the City of Tecumseh as the last beneficial user and waste generator of record.

Please retain this record in your permanent files and feel free to contact me with any questions or concerns you may have. I can also be reached via email at [jwiza@ramservicesinc.com](mailto:jwiza@ramservicesinc.com) or my cell phone at 708 408-3889.


Sincerely,

Jerry P. Wiza,  
President



510 County Highway V  
 Two Rivers, WI 54241  
 Voice +1-920-686-3889  
 Fax +1-920-686-3899


STATE OF WISCONSIN RADIOACTIVE MATERIALS LICENSE 071-1234-01

| SEALED SOURCE LEAK TEST CERTIFICATE   |               |                             |  |
|---|---------------|-----------------------------|--|
| RAM ACCESSION NO.   |               | 155650                      |  |
| City of Tecumseh WWTP - Tecumseh  |               |                             |  |
| LOCATION  |               | 48286 - Tecumseh            |  |
| CONTACT PERSON  |               | Todd Amstutz                | PHONE 517-423-0402                     |
| City of Tecumseh WWTP<br>Tecumseh<br>710 E Chicago Blvd<br><br>Tecumseh, MI 48286<br>United States of America |               |                             |  |
| LEAK TEST ANALYSIS  |               |                             |  |
| EQUIPMENT NO.   |               | DEVICE/TOOL NUMBER          |  |
| MODEL #   | X91           | MANUFACTURER                | Ronan Engineering                      |
| SOURCE SERIAL NO.   | 76319         | MANUFACTURER S/N            |  |
| ISOTOPE   | Cs-137        | SOURCE ORIGINAL ACTIVITY    | 300 mCi<br>11.1 GBq                    |
| ASSAY DATE  | 4/15/1985     |                             |  |
| DATE SOURCE WIPED   | 28 Mar 2018   | REASON FOR TEST             | PERIODIC                               |
| ANALYSIS DATE   | 28 Mar 2018   | ANALYTICAL METHOD           | Liquid Scintillation Counting          |
| GROSS SAMPLE COUNT  | 18.77 cpm     | INSTRUMENT                  | Perkin Elmer Tri-Carb 3110TR<br>130414 |
| BACKGROUND  | 18.77 cpm     | COUNTING EFFICIENCY         | 95%                                    |
| NET SAMPLE COUNT  | 0 dpm         | MINIMUM DETECTABLE ACTIVITY | 1.1E-05 µCi<br>0.41 Bq                 |
| SAMPLE ANALYSIS ACTIVITY  | 0 µCi<br>0 Bq | PASS/FAIL CRITERION         | 0.005 µCi<br>185 Bq                    |
| SOURCE PASSES TEST  |               | ACTION LEVEL                | 0.001 µCi<br>37 Bq                     |
| ANALYST   | Rick Parlato  |                             |  |
|                           |               |                             |  |
| COMMENTS:   |               |                             |  |



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STATE OF WISCONSIN RADIOACTIVE MATERIALS LICENSE 071-1234-01

| SEALED SOURCE LEAK TEST CERTIFICATE   |               |                             |   |
|---|---------------|-----------------------------|---|
| RAM ACCESSION NO.   |               | 155649                      |   |
| City of Tecumseh WWTP - Tecumseh  |               |                             |   |
| LOCATION  |               | 48286 - Tecumseh            |   |
| CONTACT PERSON  |               | Todd Amstutz                | PHONE 517-423-0402                        |
| City of Tecumseh WWTP<br>Tecumseh<br>710 E Chicago Blvd<br><br>Tecumseh, MI 48286<br>United States of America |               |                             |   |
| LEAK TEST ANALYSIS  |               |                             |   |
| EQUIPMENT NO.   |               | DEVICE/TOOL NUMBER          |   |
| MODEL #   | X91           | MANUFACTURER                | Ronan Engineering                         |
| SOURCE SERIAL NO.   | M1108         | MANUFACTURER S/N            |   |
| ISOTOPE   | Cs-137        | SOURCE ORIGINAL ACTIVITY    | 300 mCi<br>11.1 GBq                       |
| ASSAY DATE  | 1/15/1987     |                             |   |
| DATE SOURCE WIPED   | 28 Mar 2018   | REASON FOR TEST             | PERIODIC                                  |
| ANALYSIS DATE   | 28 Mar 2018   | ANALYTICAL METHOD           | Liquid Scintillation Counting             |
| GROSS SAMPLE COUNT  | 18.77 cpm     | INSTRUMENT                  | Perkin Elmer Tri-Carb<br>3110TR<br>130414 |
| BACKGROUND  | 18.77 cpm     | COUNTING EFFICIENCY         | 95%                                       |
| NET SAMPLE COUNT  | 0 dpm         | MINIMUM DETECTABLE ACTIVITY | 1.1E-05 µCi<br>0.41 Bq                    |
| SAMPLE ANALYSIS ACTIVITY  | 0 µCi<br>0 Bq | PASS/FAIL CRITERION         | 0.005 µCi<br>185 Bq                       |
| SOURCE PASSES TEST  |               | ACTION LEVEL                | 0.001 µCi<br>37 Bq                        |
| ANALYST   | Rick Parlato  |                             |   |
|                           |               |                             |   |
| COMMENTS:   |               |                             |   |



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STATE OF WISCONSIN RADIOACTIVE MATERIALS LICENSE 071-1234-01

| SEALED SOURCE LEAK TEST CERTIFICATE   |               |                             |   |
|---|---------------|-----------------------------|---|
| RAM ACCESSION NO.   |               | 155648                      |   |
| City of Tecumseh WWTP - Tecumseh  |               |                             |   |
| LOCATION  |               | 48286 - Tecumseh            |   |
| CONTACT PERSON  |               | Todd Amstutz                | PHONE 517-423-0402                        |
| City of Tecumseh WWTP<br>Tecumseh<br>710 E Chicago Blvd<br><br>Tecumseh, MI 48286<br>United States of America |               |                             |   |
| LEAK TEST ANALYSIS  |               |                             |   |
| EQUIPMENT NO.   |               | DEVICE/TOOL NUMBER          |   |
| MODEL #   | X91           | MANUFACTURER                | Ronan Engineering                         |
| SOURCE SERIAL NO.   | M1107         | MANUFACTURER S/N            |   |
| ISOTOPE   | Cs-137        | SOURCE ORIGINAL ACTIVITY    | 300 mCi<br>11.1 GBq                       |
| ASSAY DATE  | 1/15/1987     |                             |   |
| DATE SOURCE WIPED   | 28 Mar 2018   | REASON FOR TEST             | PERIODIC                                  |
| ANALYSIS DATE   | 28 Mar 2018   | ANALYTICAL METHOD           | Liquid Scintillation Counting             |
| GROSS SAMPLE COUNT  | 18.77 cpm     | INSTRUMENT                  | Perkin Elmer Tri-Carb<br>3110TR<br>130414 |
| BACKGROUND  | 18.77 cpm     | COUNTING EFFICIENCY         | 95%                                       |
| NET SAMPLE COUNT  | 0 dpm         | MINIMUM DETECTABLE ACTIVITY | 1.1E-05 µCi<br>0.41 Bq                    |
| SAMPLE ANALYSIS ACTIVITY  | 0 µCi<br>0 Bq | PASS/FAIL CRITERION         | 0.005 µCi<br>185 Bq                       |
| SOURCE PASSES TEST  |               | ACTION LEVEL                | 0.001 µCi<br>37 Bq                        |
|   |               |                             |   |
| ANALYST   | Rick Parlato  |                             |   |
|                           |               |                             |   |
| COMMENTS:   |               |                             |   |



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| SEALED SOURCE LEAK TEST CERTIFICATE   |               |                             |   |
|---|---------------|-----------------------------|---|
| RAM ACCESSION NO.   |               | 155647                      |   |
| City of Tecumseh WWTP - Tecumseh  |               |                             |   |
| LOCATION  |               | 48286 - Tecumseh            |   |
| CONTACT PERSON  |               | Todd Amstutz                | PHONE 517-423-0402                        |
| City of Tecumseh WWTP<br>Tecumseh<br>710 E Chicago Blvd<br><br>Tecumseh, MI 48286<br>United States of America |               |                             |   |
| LEAK TEST ANALYSIS  |               |                             |   |
| EQUIPMENT NO.   |               | DEVICE/TOOL NUMBER          |   |
| MODEL #   | X91           | MANUFACTURER                | Ronan Engineering                         |
| SOURCE SERIAL NO.   | M2379         | MANUFACTURER S/N            |   |
| ISOTOPE   | Cs-137        | SOURCE ORIGINAL ACTIVITY    | 300 mCi<br>11.1 GBq                       |
| ASSAY DATE  | 11/15/1988    |                             |   |
| DATE SOURCE WIPED   | 28 Mar 2018   | REASON FOR TEST             | PERIODIC                                  |
| ANALYSIS DATE   | 28 Mar 2018   | ANALYTICAL METHOD           | Liquid Scintillation Counting             |
| GROSS SAMPLE COUNT  | 18.77 cpm     | INSTRUMENT                  | Perkin Elmer Tri-Carb<br>3110TR<br>130414 |
| BACKGROUND  | 18.77 cpm     | COUNTING EFFICIENCY         | 95%                                       |
| NET SAMPLE COUNT  | 0 dpm         | MINIMUM DETECTABLE ACTIVITY | 1.1E-05 µCi<br>0.41 Bq                    |
| SAMPLE ANALYSIS ACTIVITY  | 0 µCi<br>0 Bq | PASS/FAIL CRITERION         | 0.005 µCi<br>185 Bq                       |
| SOURCE PASSES TEST  |               | ACTION LEVEL                | 0.001 µCi<br>37 Bq                        |
|   |               |                             |   |
| ANALYST   | Rick Parlato  |                             |   |
|                           |               |                             |   |
| COMMENTS:   |               |                             |   |



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|  |   |
|--|---|
| City of Tecumseh WWTP<br>710 E Chicago Blvd<br><br>Tecumseh, MI 48286<br>United States of America<br>ATTENTION: Todd Amstutz | City of Tecumseh WWTP<br>Tecumseh<br><b>SUMMARY LEAK TEST REPORT</b><br>28 March 2018 |
|--|---|

| ASSAY NO. | SERIAL NO. | DEVICE<br>SERIAL NO. | ISOTOPE | SOURCE<br>ACTIVITY  | WIPE DATE<br>ANALYSIS DATE | MDA   | SAMPLE<br>ACTIVITY | TEST<br>PASS OR<br>FAIL |
|-----------|------------|----------------------|---------|---------------------|----------------------------|---|--------------------|-------------------------|
|           |            |                      |         |                     |                            | Source Fails Test if Activity Exceeds<br>City of Tecumseh WWTP Action Level | 185 Bq<br>37 Bq    | .005 µCi<br>1.00E-3 µCi |
| 155650    | 76319      |                      | Cs-137  | 300 mCi<br>11.1 GBq | 28 Mar 2018<br>28 Mar 2018 | 1.1E-05 µCi<br>0.41 Bq  | 0 µCi<br>0 Bq      | SOURCE<br>PASSES TEST   |
| 155649    | M1108      |                      | Cs-137  | 300 mCi<br>11.1 GBq | 28 Mar 2018<br>28 Mar 2018 | 1.1E-05 µCi<br>0.41 Bq  | 0 µCi<br>0 Bq      | SOURCE<br>PASSES TEST   |
| 155648    | M1107      |                      | Cs-137  | 300 mCi<br>11.1 GBq | 28 Mar 2018<br>28 Mar 2018 | 1.1E-05 µCi<br>0.41 Bq  | 0 µCi<br>0 Bq      | SOURCE<br>PASSES TEST   |
| 155647    | M2379      |                      | Cs-137  | 300 mCi<br>11.1 GBq | 28 Mar 2018<br>28 Mar 2018 | 1.1E-05 µCi<br>0.41 Bq  | 0 µCi<br>0 Bq      | SOURCE<br>PASSES TEST   |