

OHIO DEPARTMENT OF HEALTH  
**LICENSE FOR RADIOACTIVE MATERIAL**

Pursuant to Chapter 3748 of the Ohio Revised Code, and in reliance on statements and representations made by the licensee, a license is hereby issued authorizing the licensee named herein to receive, acquire, possess, and transfer radioactive material as designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the applications of Chapter 3748 of the Ohio Revised Code and all applicable rules promulgated thereunder. This license is subject to all applicable rules, regulations and orders of the Ohio Department of Health now or hereinafter in effect and to any conditions specified below.

LICENSEE		LICENSE NUMBER
1. Shale Testing Solutions, LLC		3. 03225150000
2. 249 E. High Street Lisbon, Ohio 44432		EXPIRATION DATE
		4. January 1, 2019
		FILE NUMBER – ID NUMBER
		5. 501449-5871

  

6. RADIOACTIVE MATERIAL	7. CHEMICAL AND/OR PHYSICAL FORM	8. MAXIMUM QUANTITY THAT LICENSEE MAY POSSESS AT ANY ONE TIME UNDER THIS LICENSE
A. Radium-226	A. Environmental Samples	A. No single source to exceed 3.7 kBq (0.1 µCi), total possession not to exceed 148 kBq (4 µCi).
B. Radium-228	B. Environmental Samples	B. No single source to exceed 3.7 kBq (0.1 µCi), total possession not to exceed 148 kBq (4 µCi).

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9. Authorized Use

A. and B. Possession is Incident to performing Environment Sample analysis for TENORM compliance for Radium-226 and Radium-228.

**CONDITIONS**

10. Licensed material may only be used at the licensee's facilities located at: 2840 Sferra Dr., Warren, Ohio 44481
11. The Radiation Safety Officer for this license is: Charlie Brannon
12. Licensed material shall be used by, or under the supervision of, individuals who have received the training described in documentation submitted on December 6, 2013 or have been approved in writing by the Radiation Safety Officer.
13. The licensee shall conduct a physical inventory every 6 months, or at another interval approved by the Director, to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for at least 3 years from the date of each inventory, and shall include the quantities and kinds of licensed material, manufacturer's name and model numbers, location of the sources and/or devices, and the date of the inventory.
14. The licensee shall perform radiological surveys for contamination as specified in OAC rule 3701:1-38-14.
15. The licensee shall perform waste disposal as specified in OAC rule 3701:1-38-19.
16. The licensee may transport licensed material in accordance with the provisions of OAC Chapter 3701:1-50.
17. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of sealed source licensed material to quantities below the minimum limit specified in OAC rule 3701:1-40-17 for establishing decommissioning financial assurance.
18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with USEPA Method 901.1M (modified) Gamma Emitting Radionuclides for solids.
19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Ohio Department of Health's statutes, rules, and orders shall govern unless statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Documentation submitted to Ohio Department of Health on December 6, 2013

For the Ohio Department of Health

DATE: 12/12/13

BY: 

Michael J. Snee, Chief  
 Bureau of Radiation Protection  
 On Behalf of the Director of Health