

	<p align="center">ILLINOIS DEPARTMENT OF NATURAL RESOURCES</p> <p align="center">Office of Oil and Gas Resource Management One Natural Resources Way Springfield, Illinois 62702-1271</p>	
<p align="center">HIGH VOLUME HORIZONTAL HYDRAULIC FRACTURING PERMIT APPLICATION HVHFF-10</p>		

References to "1-xx" or "§1-xx" are to the Hydraulic Fracturing Regulatory Act., 225 ILCS 732/1-1 et seq. References to "240.xxx" and "245.xxx" are to 62 Ill. Admin. Code 240 and 245, respectively.

Attachment: RadioactiveMaterialsManagement

Please save attachment and use the file name above.

Radioactive Materials Management §1-35)b)(20); 245.210(b)(7).

Attach a plan explaining how you will test for and identify, manage, transport, and dispose of radioactive materials used or generated during your operations. The strategy at minimum must:

(a) Confirm that the initial site sampling will determine concentrations of the following:

	Total Dissolved Solids	Gross Alpha	Gross Beta	Radium-226	Radium-228	Potassium-40
Soil						
Private wells						
Surface water						

(b) Describe what you plan for radiation testing of drill cuttings from the black shale

(c) Describe what you plan for radiation testing of flowback

(d) Describe what you plan for radiation testing of the well site during site restoration, including reserve pits and any surface waters within 1500 feet of the well site.

(e) Describe the frequency and components of surveys of equipment and waste streams prior to disposal, maintenance or recycling.