

1 AN ACT concerning safety.

2 **Be it enacted by the People of the State of Illinois,**  
3 **represented in the General Assembly:**

4 Section 5. The Environmental Protection Act is amended by  
5 adding Sections 13.9 and 21.7 as follows:

6 (415 ILCS 5/13.9 new)

7 Sec. 13.9. Mahomet Aquifer natural gas storage study.

8 (a) Subject to appropriation, the Prairie Research  
9 Institute shall:

10 (1) use remote sensing technologies, such as  
11 helicopter-based time domain electromagnetics,  
12 post-processing methods, and geologic modeling software,  
13 to examine, characterize, and prepare three-dimensional  
14 models of the unconsolidated geologic materials overlying  
15 any underground natural gas storage facility located  
16 within the boundaries of the Mahomet Aquifer; and

17 (2) to the extent possible, identify within those  
18 unconsolidated geologic materials potential structures and  
19 migration pathways for natural gas that may be released  
20 from the underground natural gas storage facility.

21 (b) For purposes of this Section, "underground natural gas  
22 storage facility" has the meaning provided in Section 5 of the  
23 Illinois Underground Natural Gas Storage Safety Act.

1 (415 ILCS 5/21.7 new)

2 Sec. 21.7. Landfills.

3 (a) The purpose of this Section is to enact legislative  
4 recommendations provided by the Mahomet Aquifer Task Force,  
5 established under Public Act 100-403. The Task Force identified  
6 capped but unregulated or underregulated landfills that  
7 overlie the Mahomet Aquifer as potentially hazardous to  
8 valuable groundwater resources. These unregulated or  
9 underregulated landfills generally began accepting waste for  
10 disposal sometime prior to 1973.

11 (b) The Agency shall prioritize unregulated or  
12 underregulated landfills that overlie the Mahomet Aquifer for  
13 inspection. The following factors shall be considered:

14 (1) the presence of, and depth to, any aquifer with  
15 potential potable use;

16 (2) whether the landfill has an engineered liner  
17 system;

18 (3) whether the landfill has an active groundwater  
19 monitoring system;

20 (4) whether waste disposal occurred within the  
21 100-year floodplain; and

22 (5) landfills within the setback zone of any potable  
23 water supply well.

24 (c) Subject to appropriation, the Agency shall use existing  
25 information available from State and federal agencies, such as

1 the Prairie Research Institute, the Department of Natural  
2 Resources, the Illinois Emergency Management Agency, the  
3 Federal Emergency Management Agency, and the Natural Resources  
4 Conservation Service, to identify unknown, unregulated, or  
5 underregulated waste disposal sites that overlie the Mahomet  
6 Aquifer that may pose a threat to surface water or groundwater  
7 resources.

8 (d) Subject to appropriation, for those landfills  
9 prioritized for response action following inspection and  
10 investigation, the Agency shall use its own data, along with  
11 data from municipalities, counties, solid waste management  
12 associations, companies, corporations, and individuals, to  
13 archive information about the landfills, including their  
14 ownership, operational details, and waste disposal history.

15 Section 10. The Illinois Groundwater Protection Act is  
16 amended by adding Section 10 as follows:

17 (415 ILCS 55/10 new)

18 Sec. 10. Pekin Metro Landfill; pilot projects.

19 (a) Subject to appropriation, the Agency shall design and  
20 implement up to 2 pilot studies of landfills that overlie the  
21 Mahomet Aquifer to identify threats to surface and groundwater  
22 resources that are posed by the landfills. One of the pilot  
23 projects shall be conducted at the Pekin Metro Landfill in  
24 Tazewell County. In conducting the pilot projects, the Agency

1 shall:

2 (1) inspect and identify potential and current  
3 contamination threats to the water quality of aquifers in  
4 the same watershed as the landfill (for the Pekin Metro  
5 Landfill, the Mahomet Aquifer);

6 (2) use geographic information systems and remote  
7 sensing technology to track defects, structures,  
8 appliances, and wells for routine inspection and  
9 sustainable management;

10 (3) install or repair groundwater monitoring  
11 mechanisms necessary to identify whether contaminants from  
12 the landfill are affecting water quality in the Mahomet  
13 Aquifer; and

14 (4) identify and provide cost estimates for any  
15 additional response actions necessary or appropriate to  
16 reduce or minimize potential threats to human health and  
17 the environment resulting from current landfill  
18 conditions.

19 (b) Following the completion of the pilot project response  
20 actions, the Agency shall:

21 (1) evaluate, in consultation with the Prairie  
22 Research Institute, the use of aerial photography and other  
23 remote sensing technologies, such as Light Detection and  
24 Ranging (LiDAR), to identify land erosion, landslides,  
25 barren areas, leachate seeps, vegetation, and other  
26 relevant surface and subsurface features of landfills to

1       aid in the inspection and investigation of landfills; and  
2           (2) identify additional procedures, requirements, or  
3       authorities that may be appropriate or necessary to address  
4       threats to human health and the environment from other  
5       unregulated or underregulated landfills throughout the  
6       State.