TENORM Regulation in Ohio

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Ohio Department of Health

Ohio Department of Health

ASTSWMO Joint Hazardous Waste and Materials Management Training
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What is TENORM??

It depends on who you ask.

What is TENORM??

USEPA: "Naturally occurring radioactive materials that have been concentrated or exposed to the accessible environment as a result of human activities such as manufacturing, mineral extraction, or water processing."

CRCPD: "Technologically Enhanced Naturally Occurring Radioactive Material (TENORM)" means naturally occurring radioactive material whose radionuclide concentrations are increased by or as a result of past or present human practices. TENORM does not include background radiation or the natural radioactivity of rocks or soils.

What is TENORM??

Ohio Revised Code: "Technologically enhanced naturally occurring radioactive material" means naturally occurring radioactive material with radionuclide concentrations that are increased by or as a result of past or present human activities. "Technologically enhanced naturally occurring radioactive material" does not include drill cuttings, natural background radiation, byproduct material, or source material.

"Drill cuttings" means the soil, rock fragments, and pulverized material that are removed from a borehole and that may include a de minimus amount of fluid that results from a drilling process.

Ohio TENORM

Regulatory Agencies

Ohio Department of Natural Resources (ODNR)

Ohio Department of Health (ODH)

Ohio Environmental Protection Agency (OEPA)

Ohio TENORM

Ohio Department of Natural Resources (ODNR)

Ohio Revised Code 1509.02 gives ODNR "sole and exclusive authority to regulate the permitting, location, and spacing of oil and gas wells and production operations within the state"

Ohio TENORM

Ohio Department of Natural Resources (ODNR)

Division of Oil and Gas Resources Management

In 2016 the Radiation Safety Section was established to administer a regulatory health and safety program for the protection of workers and the public from radiation in TENORM wastes resulting from activities regulated by the Division.

Ohio TENORM

Ohio Department of Health (ODH)

Ohio Revised Code 3748.02

“The department of health is hereby designated the Ohio radiation control agency.”

This includes TENORM not regulated by ODNR.

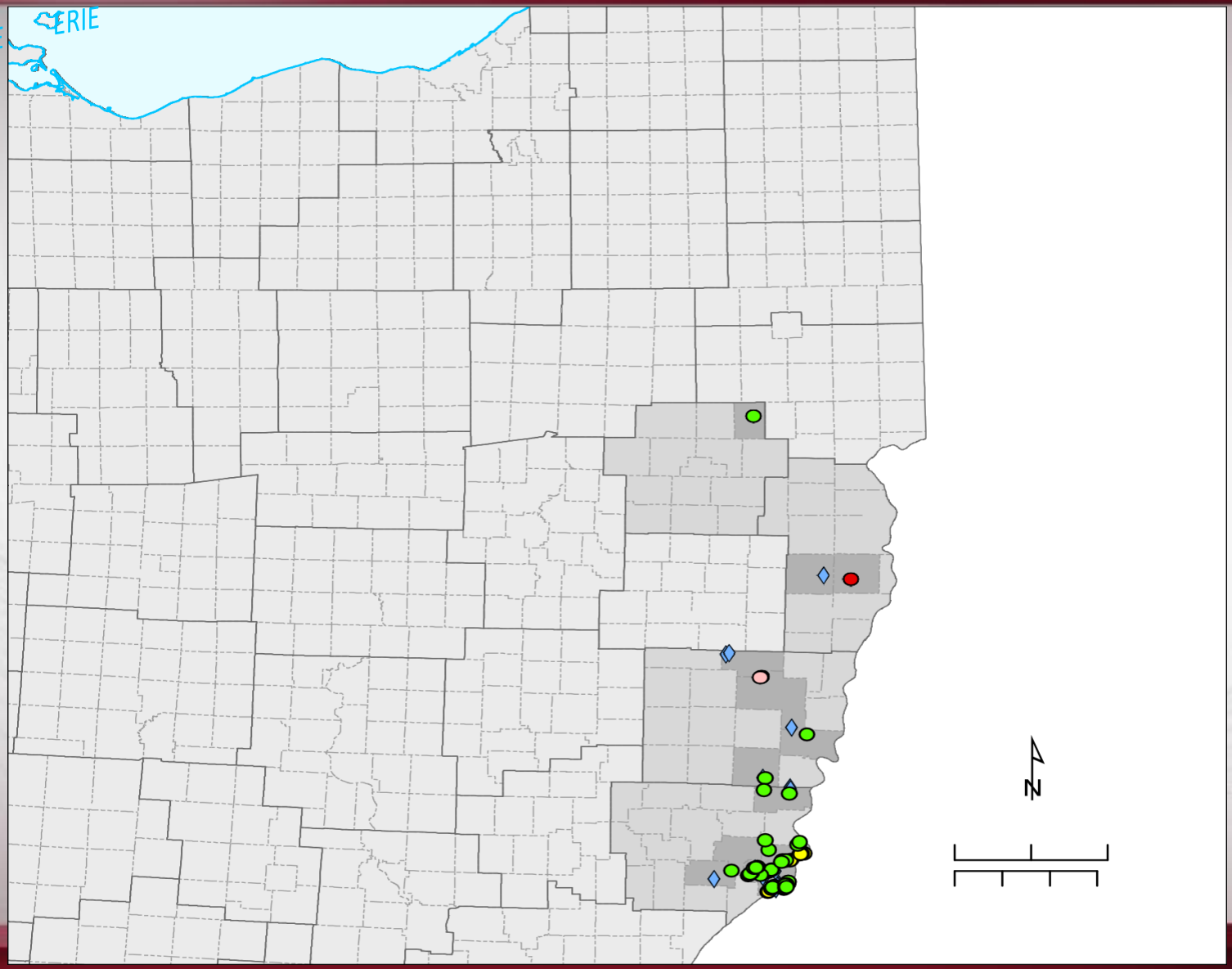
Ohio TENORM

Ohio Environmental Protection Agency (OEPA)

Regulates landfills in Ohio. Potential for TENORM waste being sent to a landfill.

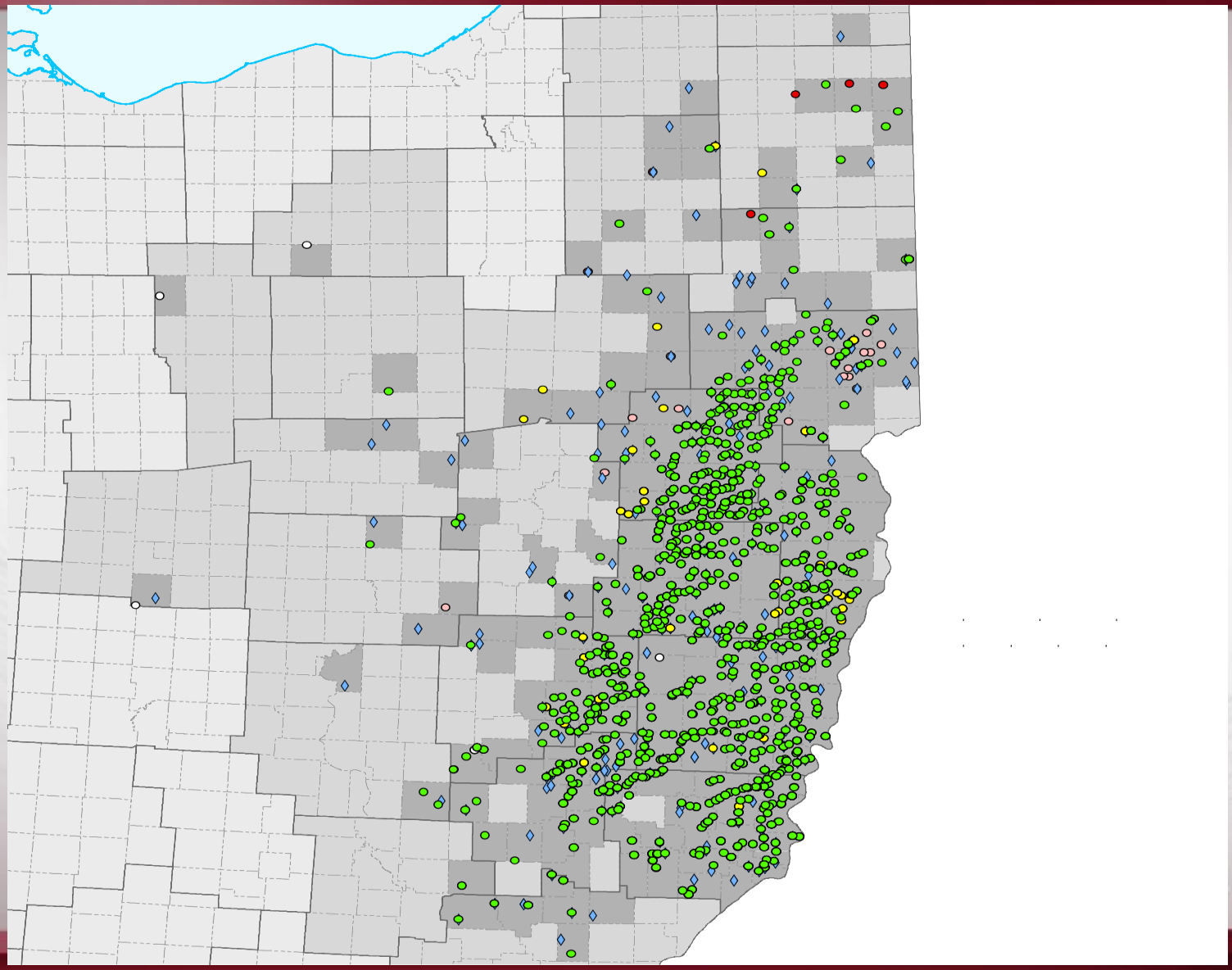
Emergency response to incidents involving TENORM waste.

HORIZONTAL MARCELLUS WELL ACTIVITY



Ohio Department of Health

HORIZONTAL UTICA - PT PLEASANT WELL ACTIVITY



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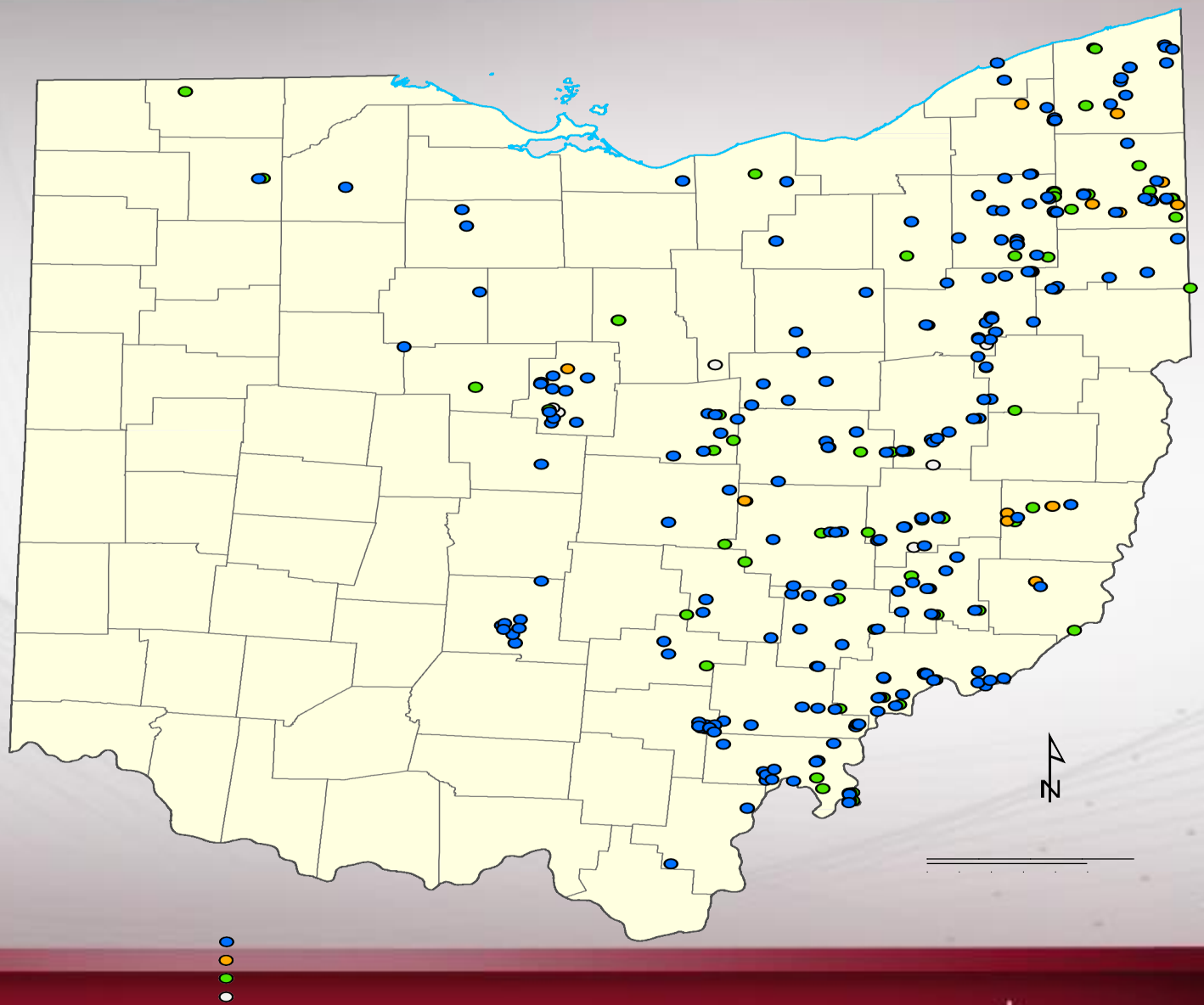
CLASS II BRINE INJECTION WELLS



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