



Republic Services of Michigan I, LLC (Republic) has submitted applications to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Oil, Gas, and Minerals Division (OGMD) for two Part 625 permits to drill and operate two non-hazardous waste disposal wells in Wayne County. The proposed wells are called the Carleton Farms Landfill IW 1-36N well (IW 1-36N) and the Carleton Farms Landfill IW-2 well (IW 2-36N) and are located on the Carleton Farms Landfill property (28800 Clark Road, New Boston, Michigan 48164).

Republic proposes to dispose non-hazardous landfill leachate into deep, confined, porous rock formations between 3,141 and 3,827 feet below the ground surface. The base of the Underground Source of Drinking Water (USDW) is much shallower: about 400 feet below the ground surface.



Landfill leachate is the liquid generated within a landfill. It is created from moisture contained within the waste itself, as well as precipitation that falls on the landfill and moves through the waste. Leachate is mainly water and is also composed of low concentrations of non-hazardous compounds. The pH of the wastewater is generally neutral, and is not considered ignitable, reactive, or corrosive. Republic has provided results of leachate testing with the permit application, as well as a waste analysis plan. The wastewater will be tested regularly to monitor for various parameters and assure that it remains classified as non-hazardous.

Wells of this type are permitted under two separate programs: EGLE-OGMD and the United States Environmental Protection Agency (USEPA) – Underground Injection Control (UIC) Program. Republic has also filed an application with the USEPA as required.

Disposal wells that meet design and operating requirements under the Part 625 rules are very low risk. These wells are designed and constructed to allow for disposal of wastewater while preventing the movement of injected fluids into shallower freshwater zones. There are redundant protections and strict guidelines related to well location, design, construction, operation, monitoring, testing, reporting, and closure. The safeguards in place ensure protection to freshwater, the environment, and human health.

The proposed IW 1-36N and IW 2-36E wells are designed to isolate the disposal zone from the freshwater zones with multiple strings of casing (steel pipes). The full length of the casing is cemented to seal the outside of the casing to the bedrock. The liquids are disposed through steel tubing within the casing strings. There are several confining rock formations that prevent vertical movement of fluids and over 2,700 feet of vertical separation between the disposal zone and the freshwater zone. Under no circumstances would a disposal well be approved or allowed to operate if there were indications that the disposed fluids could migrate into freshwater zones.

The application documents can be viewed at: www.michigan.gov/EGLE (Land--Mineral Wells). Public comments will be accepted regarding this proposal until 11:59pm December 13, 2021, and may be submitted via email to EGLE-OGMDpubliccomments@michigan.gov or mailed to:

Michigan Department of Environment, Great Lakes, and Energy-Oil, Gas, and Minerals Division
RE: Comments Carleton Farms Landfill Applications
PO Box 30256
Lansing, MI 48909