



Ground Water Monitoring Groundwater Monitoring Well #31

The landfill is constructed with a liner system designed to collect any liquid (leachate) that is generated when rainwater percolates through the waste in the landfill. The leachate is collected in sumps at the bottom of the landfill cells and pumped to the leachate treatment plant. In order to make sure that the liner systems are working properly quarterly monitoring of the groundwater at the site is performed by CCSWA staff and contractors.

There are 40 groundwater monitoring wells on site that are evaluated on a quarterly basis to make sure the landfills are not impacting the groundwater. There are also samples collected from 12 leachate collection sumps, 3 additional sump locations, and the 3 locations in the Conestoga River.

The samples are collected and analyzed by an environmental testing laboratory licensed by the Pennsylvania Department of Environmental Protection (PADEP) to perform that type of work. Results of the testing are reported on a quarterly basis to the PADEP as well as to Host Communities that have requested it. There are about 20 additional wells located at Lanchester that are not included in the routine quarterly sampling. These wells could be used for sampling if a concern arises in that area of the site. Currently there are about 60 wells that the depth to water level is checked on a quarterly basis. MW-31 is part of this group of wells. The depth to water testing is conducted all in one day. This information allows us to develop a map that shows what the water elevations are across the whole site on that specific day.

Groundwater Monitoring Well #31 Depth to Water Results

Location	Date	Time	DTW	H2O Elevation	Measuring Point
MW-31	06/26/2019	11:07	38.67	865.30	903.97
MW-31	12/23/2019	9:30	46.10	857.83	903.93
MW-31	3/11/2020	13:50	43.00	860.93	903.93
MW-31	06/17/2020	9:44	41.81	862.12	903.93

DTW – Depth to Water measured in Well #31 in feet
 H2O Elevation – Elevation above mean sea level of the water surface in Well #31
 Measuring Point – The elevation of the point measurements were taken – usually the top of the metal outer well casing