

Illinois Environmental Protection Agency

Site: 1790305011 -- Tazewell County
Hopedale/Indian Creek Landfill #2

Sampling Date: May 10, 2016

Description of sampling: Groundwater samples were collected by personnel from the Illinois EPA and PDC Technical Services. The samples were split for analysis by each party.

Monitoring wells sampled: G03D, G05D, G13D, and G17D

Laboratories performing analysis: Illinois EPA samples were analyzed by Illinois EPA's in-house laboratory. PDC Technical Services samples were analyzed by PDC Laboratories, Inc.

Sampling results: The following discrepancies between the sample results were noted:

- 1) The relative percent difference (RPD) for boron in groundwater split samples collected at monitoring wells G03D, G05D, and G13D were -40.31%, -29.07%, and -21.45%, respectively. The maximum RPD is typically 20%. These three (3) RPDs were the highest for all paired sample result comparisons. Boron was detected at a higher level by the PDC laboratory in every sample. Boron was not detected in any of the samples in exceedance of applicable groundwater quality standards (AGQS) or maximum allowable predicted concentrations (MAPCs) by either the PDC laboratory or the Illinois EPA laboratory. The RPDs between the remaining paired sample results were within normal ranges.
- 2) Mercury was detected in exceedance of AGQS and MAPCs by PDC Laboratories, Inc. in groundwater split samples collected in monitoring wells G03D (0.26 µg/L) and G05D (0.29 µg/L), whereas the Illinois EPA laboratory reported results for all samples were below the reporting limit of 0.06 µg/L. Indian Creek Landfill #2 is required to address any detected exceedance in accordance with the terms of its permit.

Copies of the sample results are attached, along with a table comparing the results and their relative percent difference (RPD). Indian Creek Landfill#2 is required to address any detected exceedance in accordance with the terms of its permit.