



Landfill Permitting – Vertical & Horizontal Expansions

Due to a number of constraints, the landfill owner chose to divide an expansion project into two separate permit applications – one vertical and one horizontal.

EIL's team led the preparation of the two permit applications, completing some of the work in parallel under an aggressive schedule. This required careful coordination of the project team and strong management of a fluid scope, schedule and budget.

Client: Confidential

Location: Illinois

Performed hydrogeologic investigations and prepared Hydrogeologic Characterization Report.

Performed groundwater modeling and Groundwater Impact Assessment (GIA) report for horizontal expansion. Reduced permitting time and cost by demonstrating applicability of existing GIA for vertical expansion.

Prepared concept layout and grading plans to evaluate alternatives and determine optimum configuration.

Engineering analyses included:

- base grading and leachate management,
- final grading,
- surface water management,
- landfill gas management
- geotechnical calculations (bearing capacity, slope stability, settlement, pipe strength)

Prepared permit drawings and narratives, including:

- design report
- closure/post-closure plan
- operations plan

Addressed questions and refuted issues advanced by the regulator on expedited schedule to meet project timeline.

