Groundwater – Valley View

What is Groundwater?

Water from rain, snow, sleet, etc. that seeps into the ground due to gravity, passing through the soil until it reaches a depth where the ground is filled/saturated.

What is the Depth of Groundwater?

Depth is approximately 4-6 feet below the ground under normal conditions.

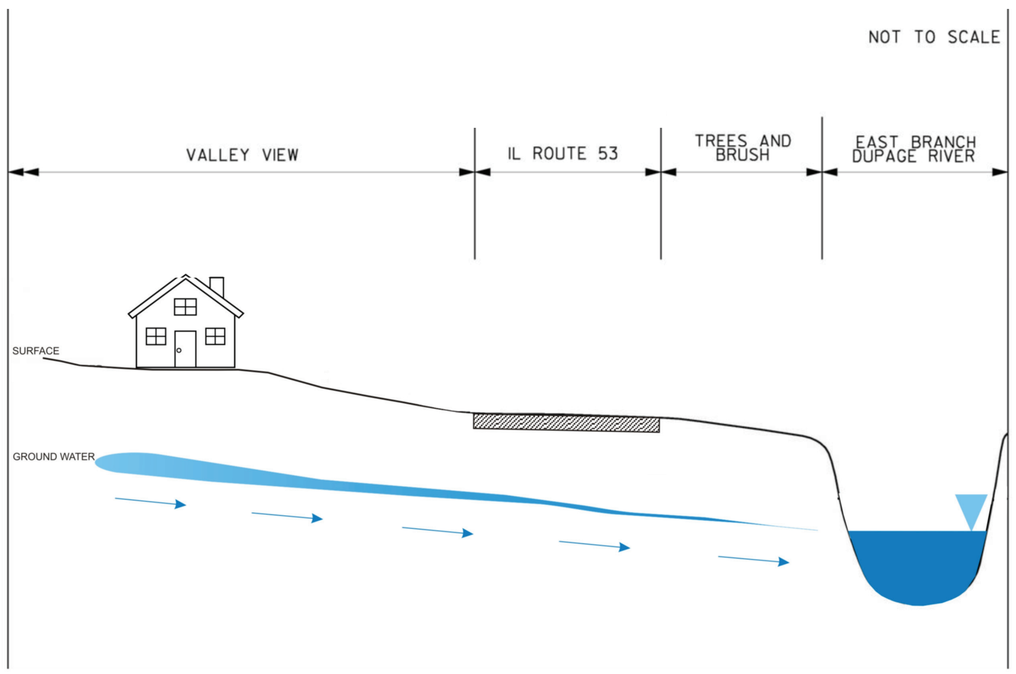
How Does Groundwater Flow in the Study Area?

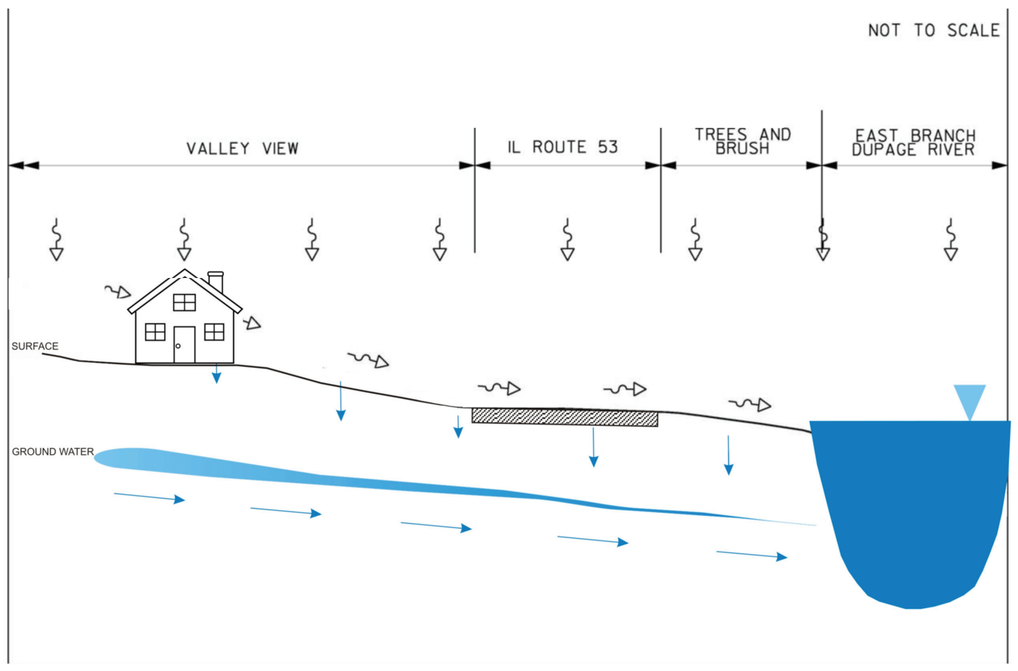
Flow is generally from north of the Valley View subdivision and discharges to the East Branch DuPage River (south). Levels in the Valley View subdivision area are the result of flow from recharge sources to the north and from EBDR levels during flood events.

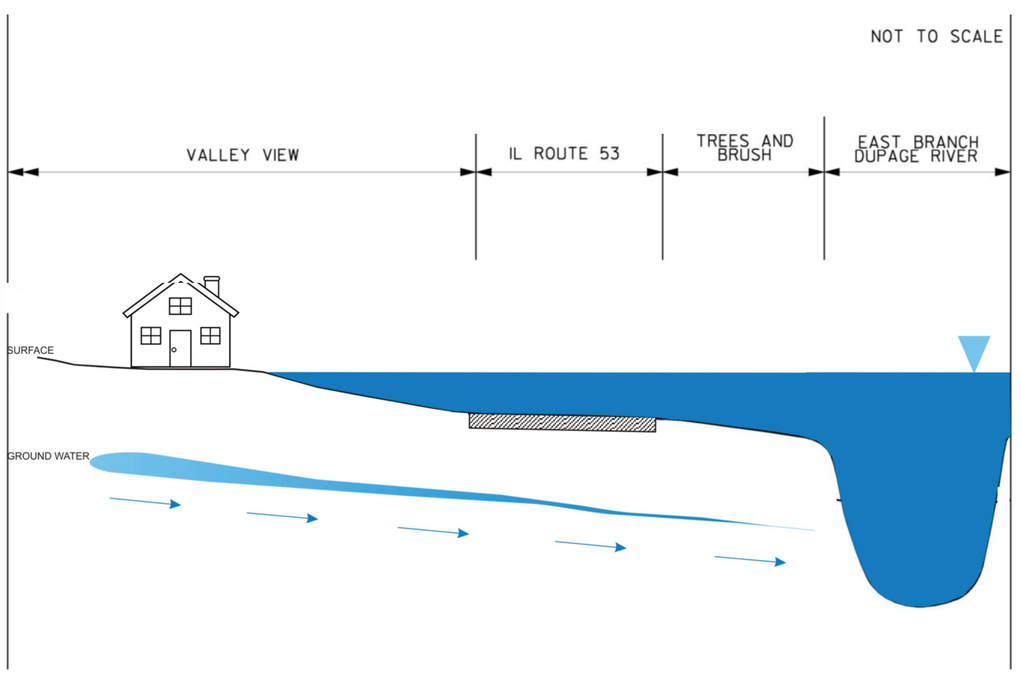
How Does the Project Affect Groundwater Elevations?

Groundwater will still rise and fall relative to the flood stage. However, the drainage improvements are designed to direct water to the East Branch DuPage River and reduce the time the floodwater and subsequent ground water is elevated.

Groundwater Levels







Normal Conditions

Groundwater Flows to the River.

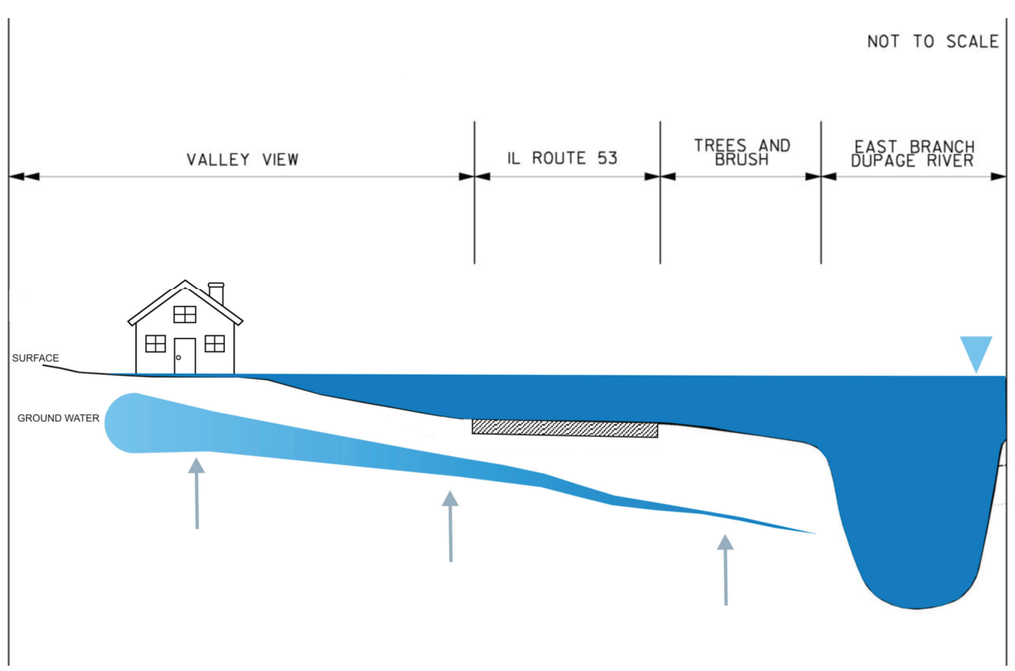
Rain Event

During Rain Events, Water Falls on Surface, Seeps into the Ground Passing Through the Soil. Water on Surface and Groundwater Flows to the River.

Flood Event – Stage 1

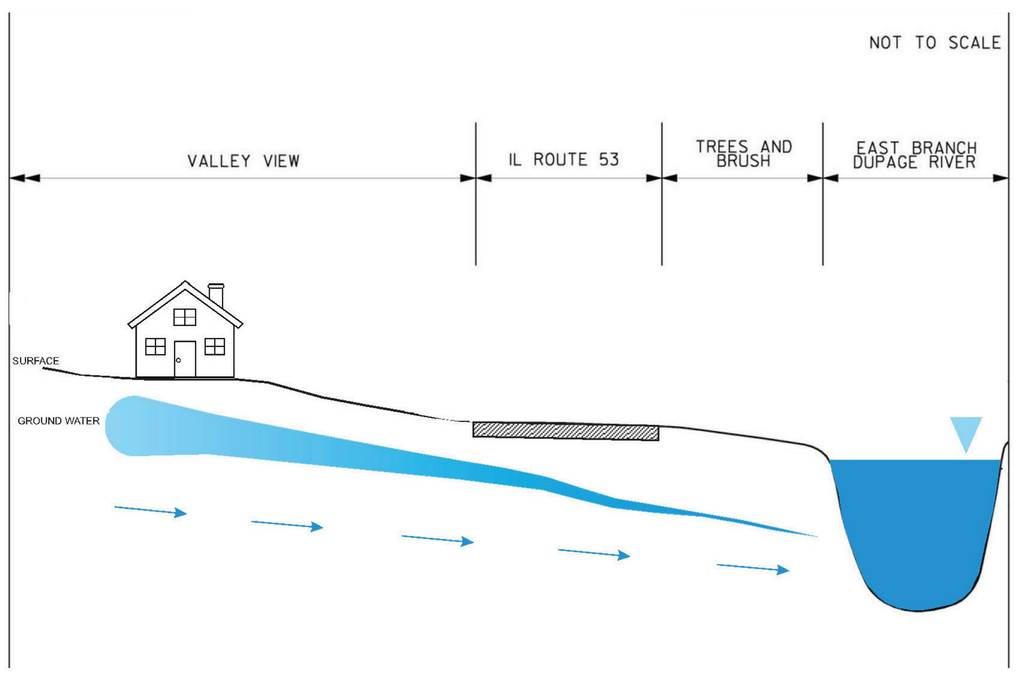
During the First Stage of a Flood Event, the River Rises and Tops the River Banks.

Groundwater Levels



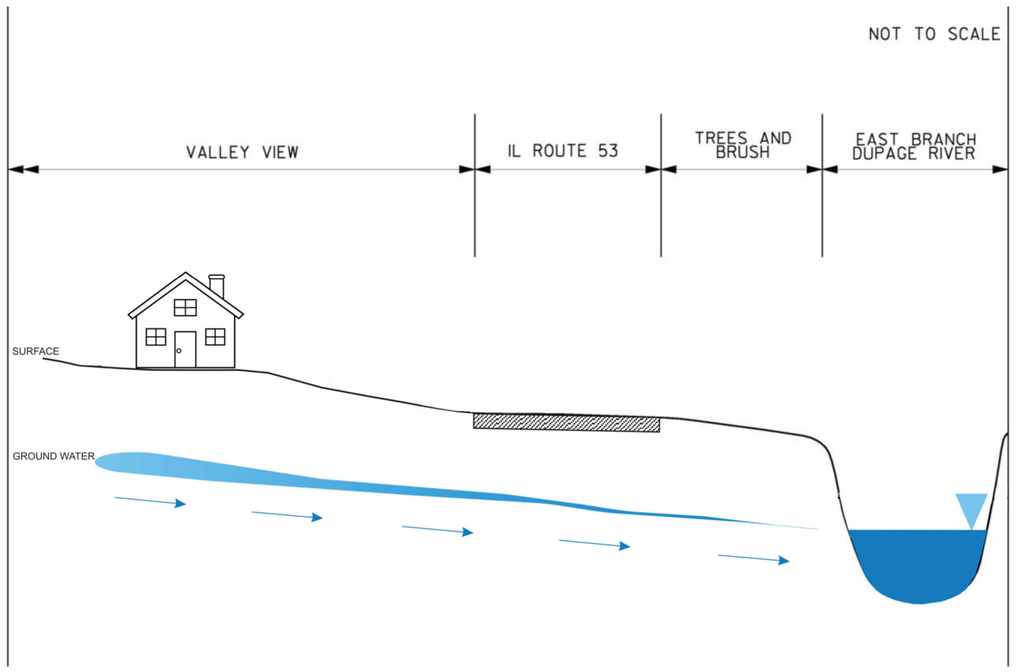
Flood Event – Stage 2

The Groundwater is Influenced by the River Elevation and Rises.



Flood Event – Stage 3

River Water Recedes Until Back to Normal River Elevations.



Normal Conditions

Once River Recedes the Groundwater will Lower to Normal Conditions.