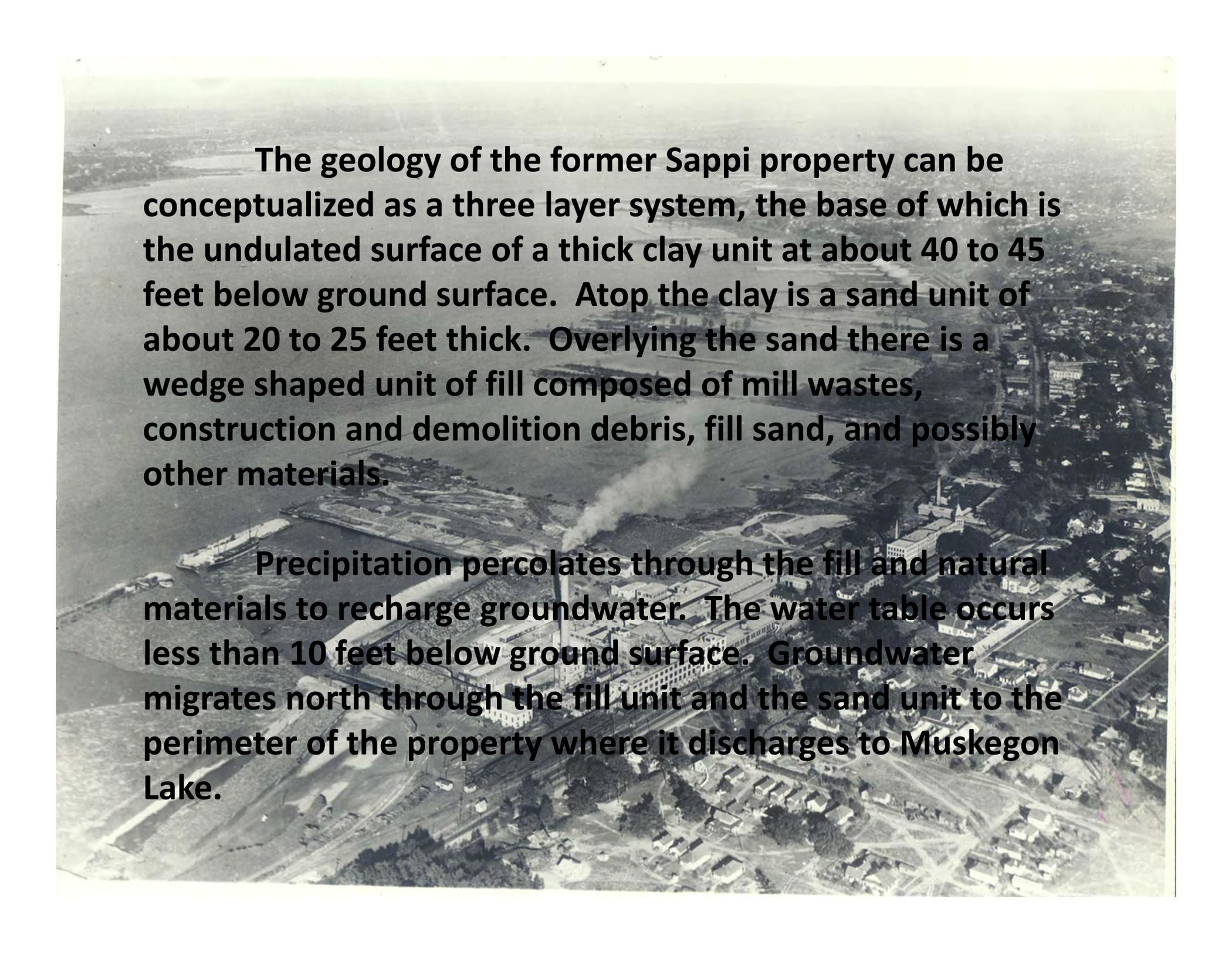


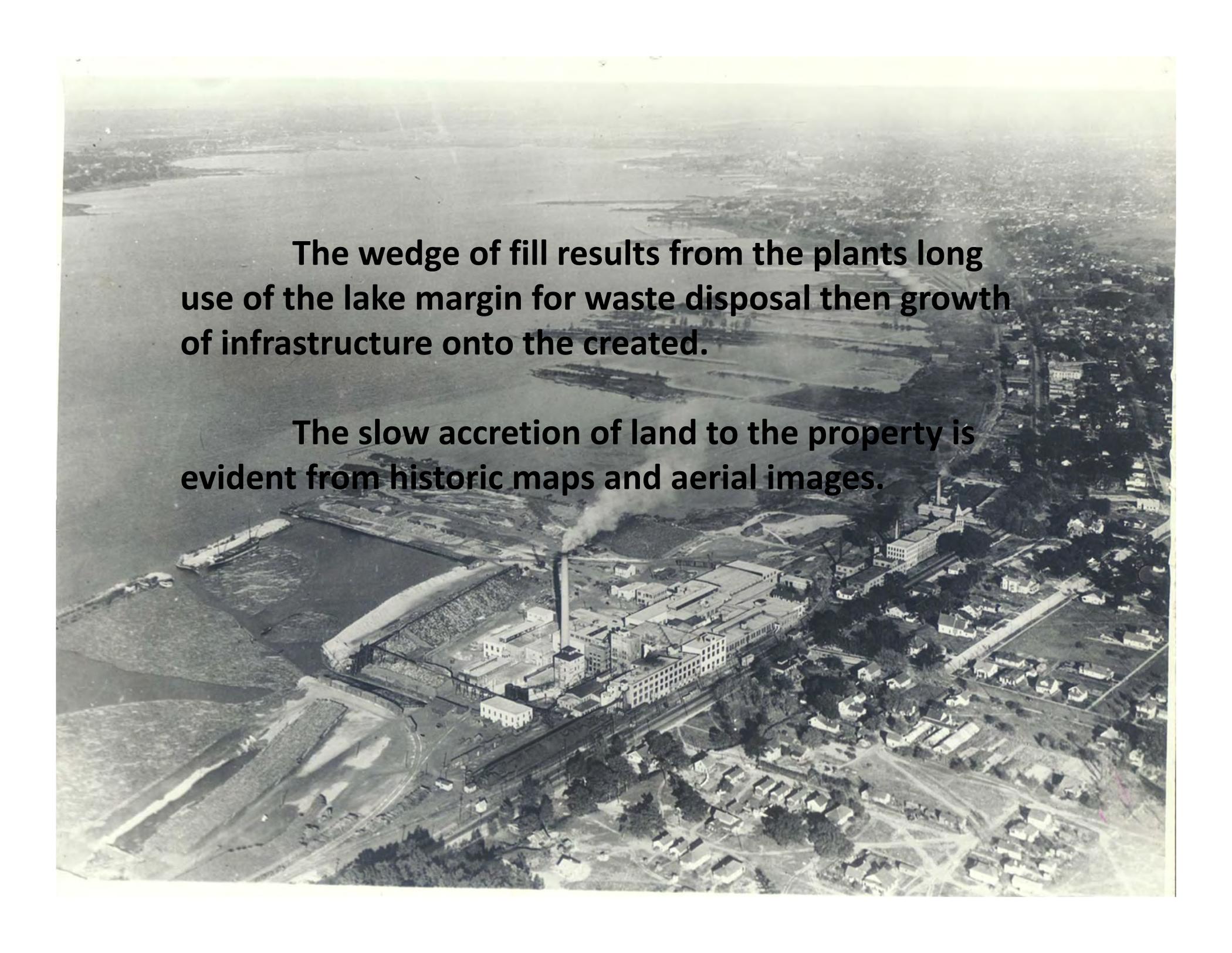
**A CONCEPTUAL SITE MODEL
FOR THE FORMER SAPPI FINE PAPER PLANT
IN MUSKEGON MICHIGAN.**



An aerial photograph showing an industrial facility, likely a mill, situated along a river. The facility includes a large, multi-story building with a prominent chimney emitting a plume of white smoke. The surrounding area is a mix of industrial structures, parking lots, and residential or commercial buildings. The river is visible on the left side of the image, with a dock and some boats. The overall scene is a detailed view of an industrial complex and its immediate surroundings.

The geology of the former Sappi property can be conceptualized as a three layer system, the base of which is the undulated surface of a thick clay unit at about 40 to 45 feet below ground surface. Atop the clay is a sand unit of about 20 to 25 feet thick. Overlying the sand there is a wedge shaped unit of fill composed of mill wastes, construction and demolition debris, fill sand, and possibly other materials.

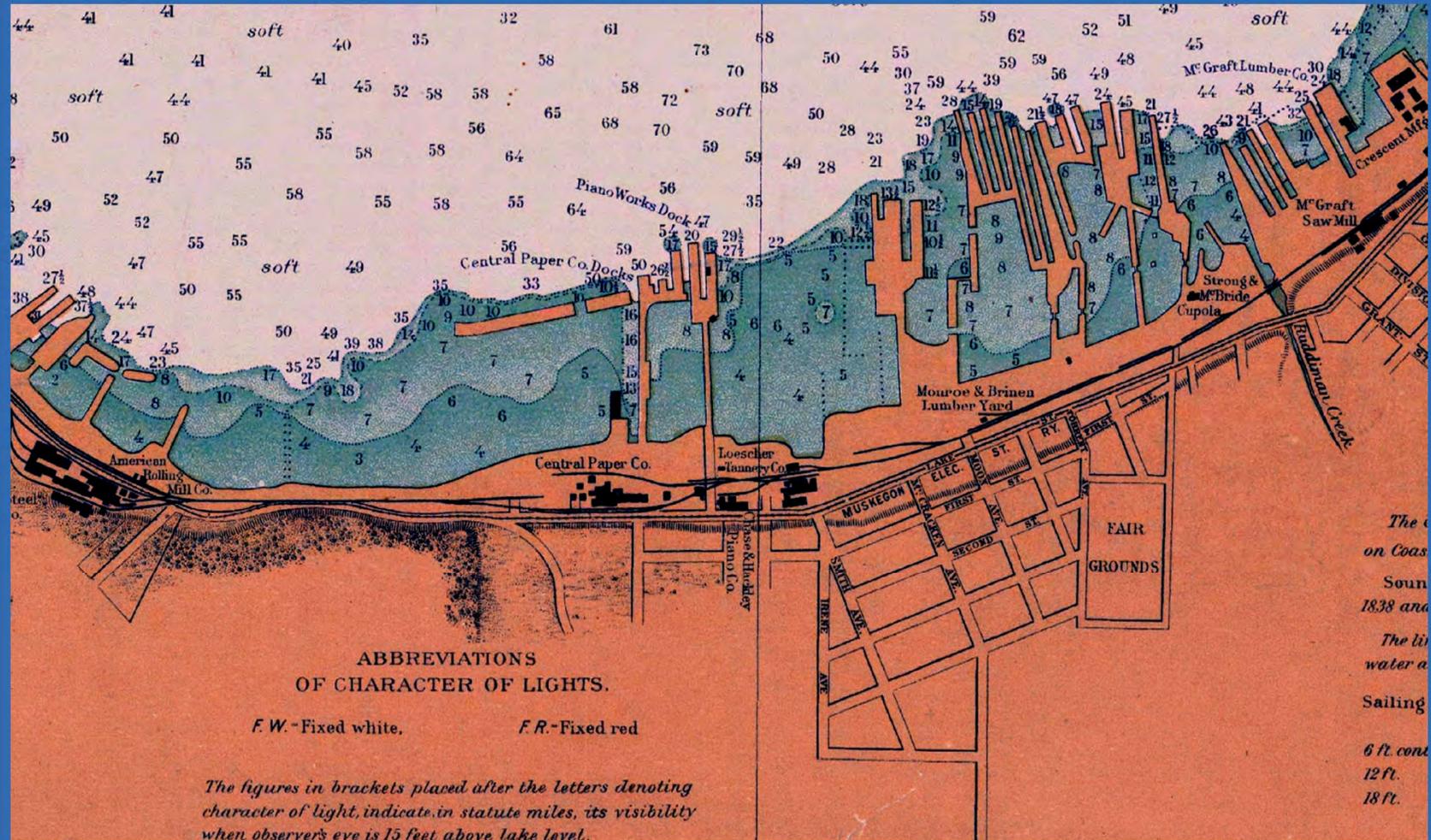
Precipitation percolates through the fill and natural materials to recharge groundwater. The water table occurs less than 10 feet below ground surface. Groundwater migrates north through the fill unit and the sand unit to the perimeter of the property where it discharges to Muskegon Lake.

An aerial photograph showing a large industrial complex, likely a paper mill, situated on the shore of a large body of water. The facility consists of several large, interconnected buildings and a prominent tall smokestack emitting a plume of white smoke. To the left, a large ship is docked at a pier. The surrounding area includes residential housing, roads, and a railway line. The water body is expansive, and the sky is clear. Two blocks of text are overlaid on the image, providing context about land accretion and infrastructure growth.

The wedge of fill results from the plants long use of the lake margin for waste disposal then growth of infrastructure onto the created.

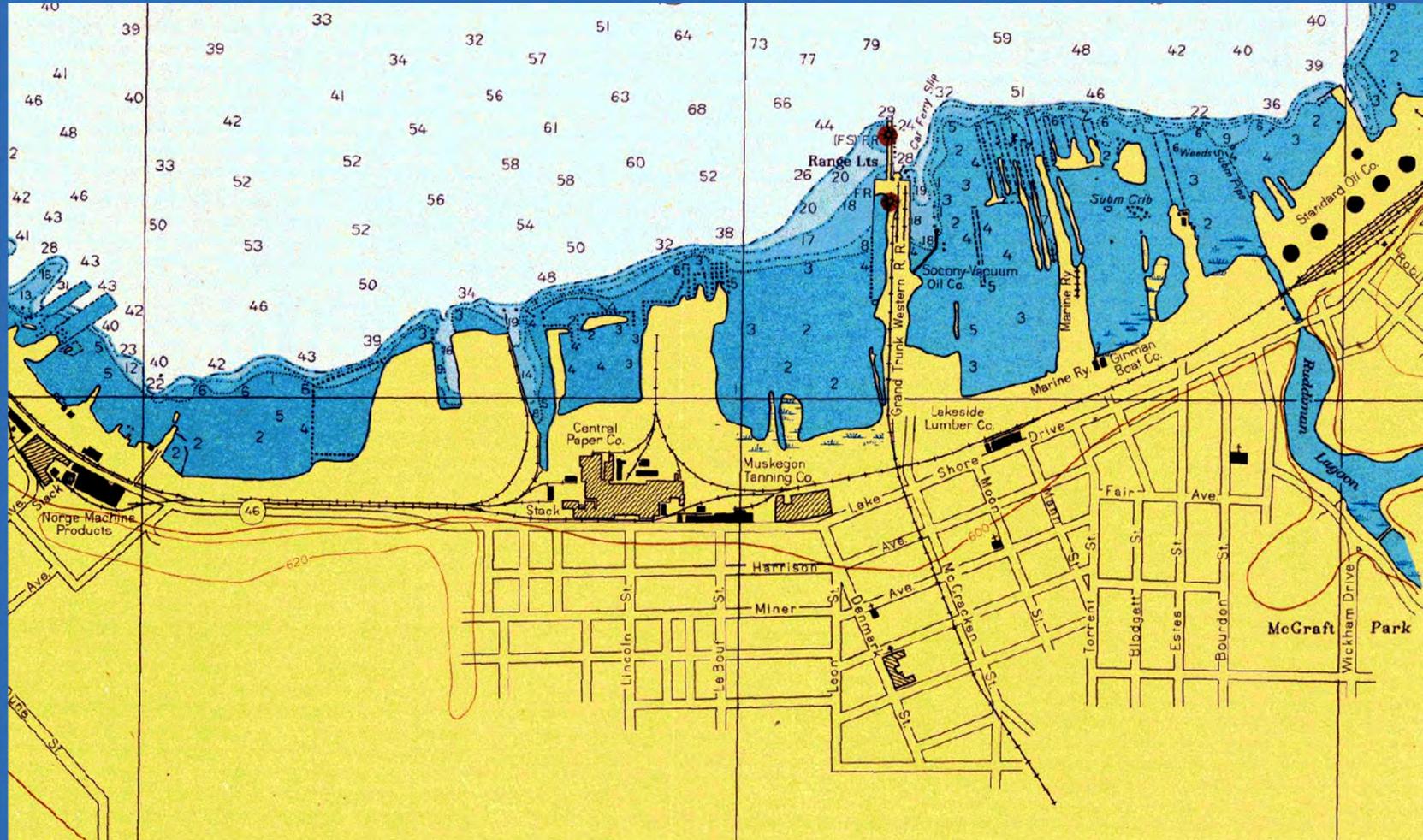
The slow accretion of land to the property is evident from historic maps and aerial images.

The site, between the RR tracks and the lake, was originally developed on < 40 acres of land as the Central Paper Company.



Clip from Muskegon Harbor nautical chart, 1902

Through the years, channels were alternately excavated and filled across the site to facilitate shipping and other uses.



Clip from Muskegon Harbor nautical chart, 1947

1938



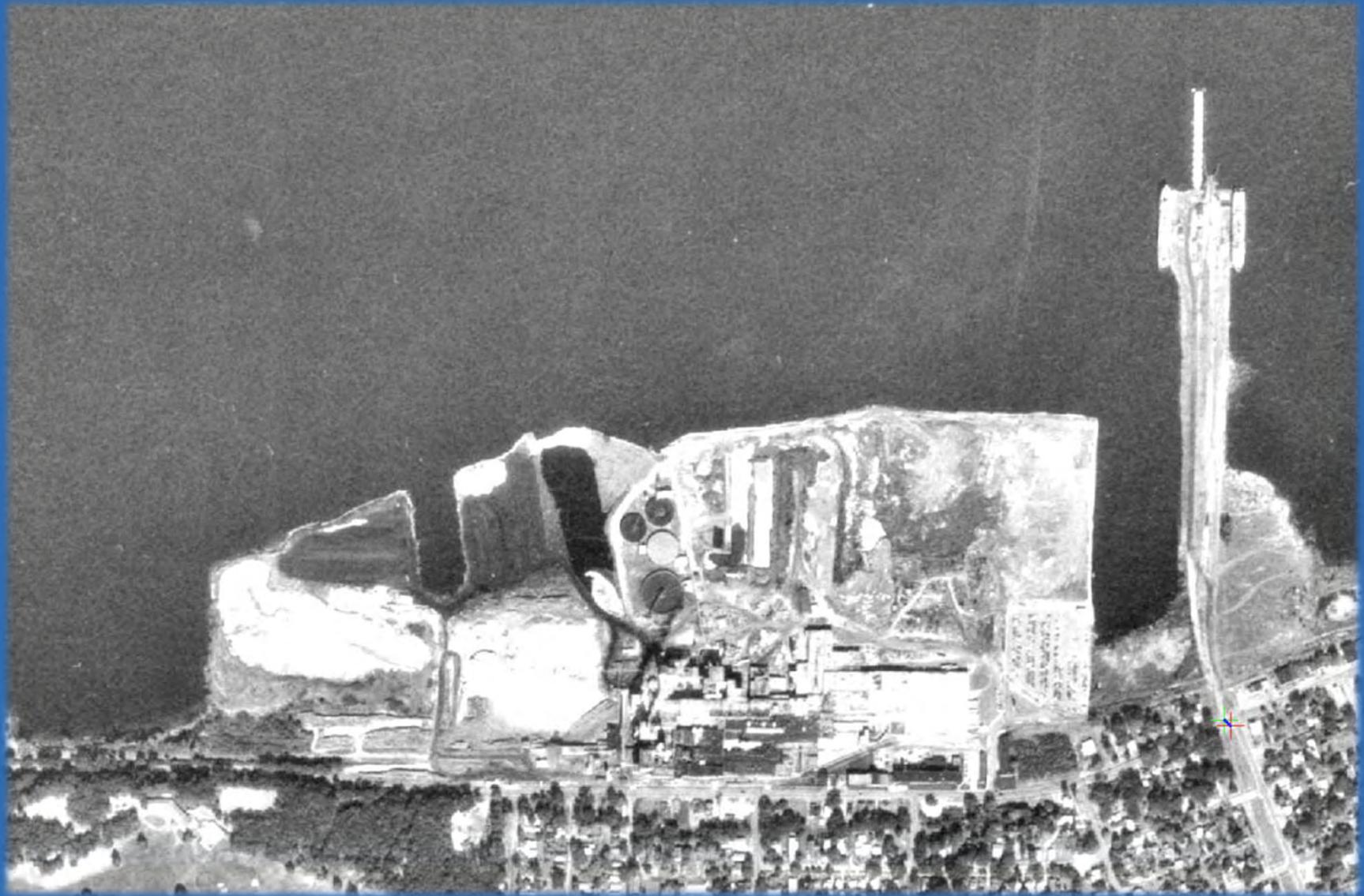
1950



1955



1974



1981



Approximately 2009

