Significant Sand and Gravel Aquifers

INTRODUCTION

This map identifies areas with sand and gravel aquifers, which are important water sources in Maine. The map shows the distribution and characteristics of these aquifers, which are essential for understanding groundwater recharge and its potential impacts on water quality and quantity.

The map includes:

- **Geologic and Well Information**: Details on the depth to bedrock, presence of contamination, and well characteristics.
- **Porosity and Permeability**: Information on the ability of the ground to transmit water.
- **Ground-Water Flow and Contamination**: Areas affected by contamination and water flow patterns.

**WHAT IS AN AQUIFER?**

An aquifer is a permeable underground layer of water-saturated rock or sediment. Aquifers are essential for providing freshwater for drinking, irrigation, and industrial purposes. The map identifies areas with sand and gravel aquifers, which are important for these uses.

**HOW ARE AQUIFERS MAPPED?**

This map is based on geologic and hydrogeologic data collected during the Maine Geological Survey (MGS) project. The data includes information on the location and characteristics of aquifers, which are mapped using a digital elevation model (DEM) and other geospatial datasets.

**GROUND-WATER FLOW AND CONTAMINATION**

The map highlights areas affected by contamination, which can impact water quality and quantity. The map also shows ground-water flow patterns, which are important for understanding the movement of water and potential contamination.

**OTHER SOURCES OF INFORMATION**


**NOTICE**

This map is intended for general information and planning purposes. It may not be suitable for specific engineering or legal applications. Users should consult with a qualified geologist or hydrogeologist for more detailed information.