



DeCola Ponds

... Flood Control Problem

City Seeks To Mitigate Frequent Flooding At DeCola Ponds and Medicine Lake Rd

Problem Causes Extensive Property Damage, Road Closures

A total of 41 New Hope and Golden Valley homes and businesses are prone to flooding in the area around DeCola Ponds and Medicine Lake Rd.

The area was developed in the 1950s to 1970s, and its watershed covers approximately one square mile in Crystal, New Hope, and Golden Valley (see map on page 2). The homes around DeCola Ponds were built too low, and in multiple flood events beginning in 1978, water depths up to 6 feet caused extensive property damage over the years. The estimated damage from a 100-year flood is around \$10 million.

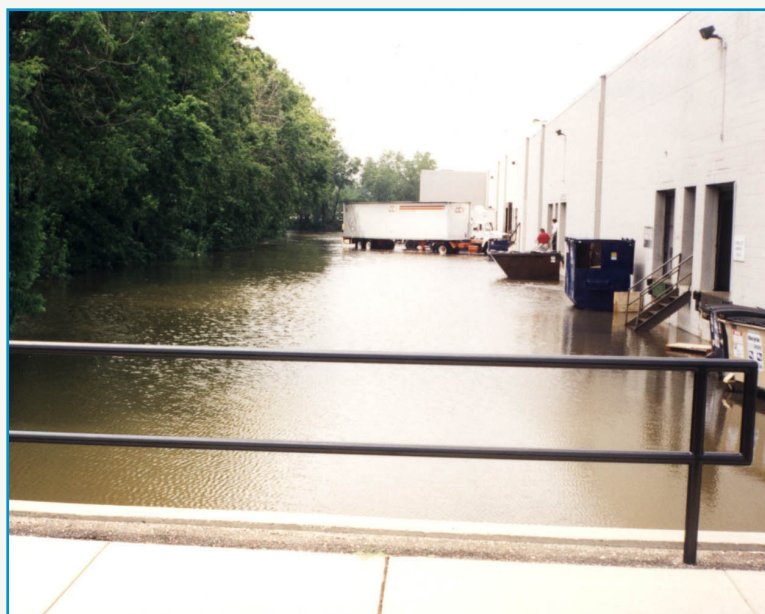
Medicine Lake Rd carries an average of 10,000 vehicles per day. When it floods, the water depths range from 3.5 to 5 feet, making the road impassable for emergency vehicles and causing extensive property damage.

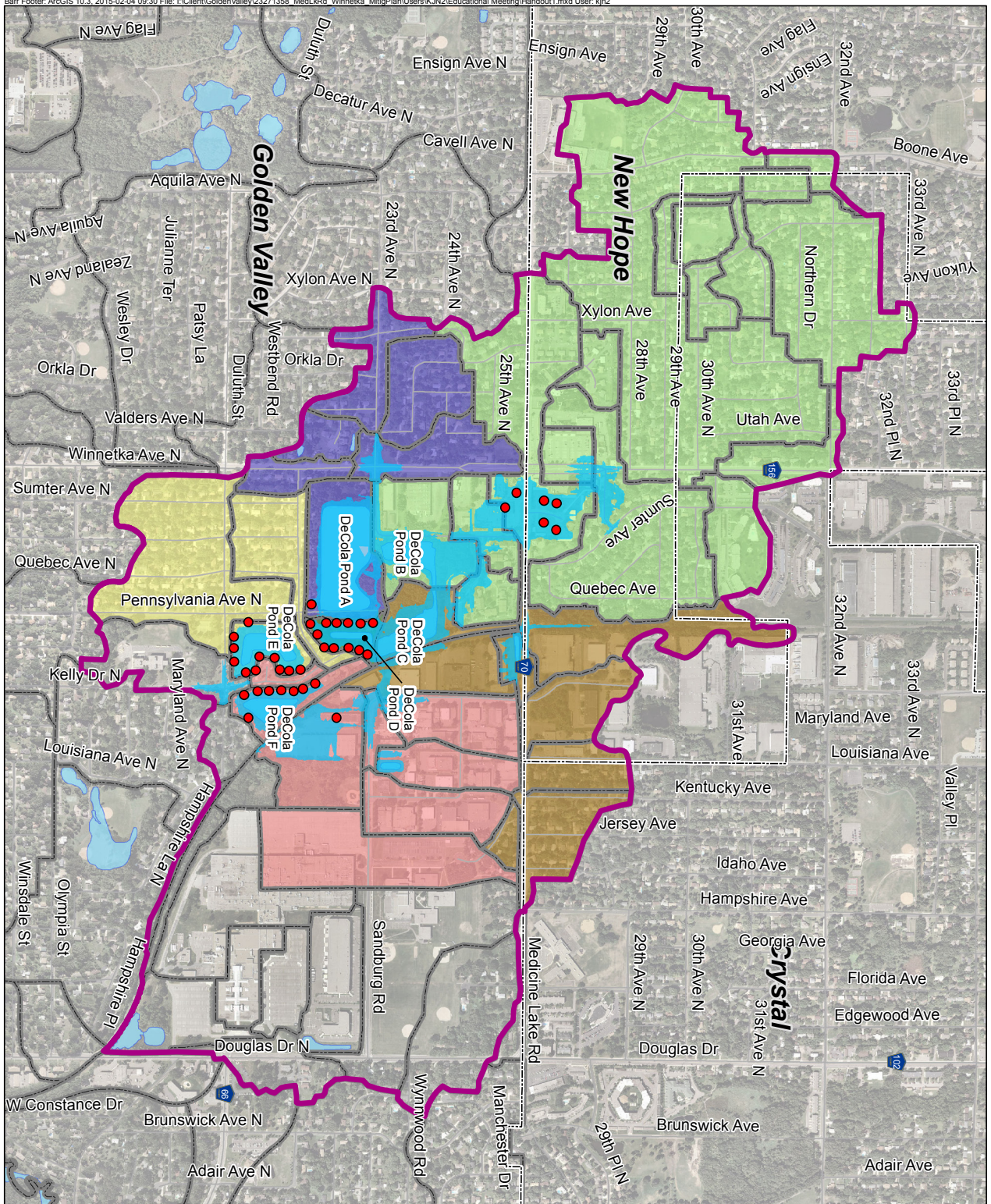
Because of these flooding issues, redevelopment in the area is very difficult and expensive. Before redevelopment could occur, the City needs to elevate the area and build flood storage.

A flood reduction program in the area would minimize flooding to the extent possible, keep Medicine Lake Rd passable for emergency vehicles, reduce and minimize flood damage to homes and businesses, and allow for redevelopment in the area with no threat of flood damage.

Currently the City is determining the most cost effective combination of solutions to the problem, including construction of flood storage throughout watershed, diverting portions of the watershed away from the flood prone area, minimizing runoff, structural flood proofing of some homes, and purchase and removal of homes most prone to damage.

Costs for these solutions range from \$4 to \$24 million and would result in an "acceptable" level of flooding on Medicine Lake Rd.





- At Risk
- 100-Year Flood Inundation Area*
- Subwatersheds
- Study Area
- Municipality
- DecolaPond
- Decola Pond A
- Decola Pond B
- Decola Pond C
- Decola Pond D
- Decola Pond E
- Decola Pond F

* Based on XP-SWMM modeling utilizing the Atlas 14 precipitation depths and nested storm distribution



850 425 0 850 Feet



FIGURE

PROJECT AREA, 100-YEAR FLOOD INUNDATION AREA, AND AT-RISK PROPERTIES
Medicine Lake Road and Winnetka Avenue
Flood Mitigation Plan
Cities of Golden Valley, New Hope, and Crystal