Crystal Lake Flooding Study Update

Area 1B & Area 2

CITY OF Crystal Lake ILLINOIS

October 12, 2010

Christopher B. Burke Engineering, Ltd.

CRYSTAL LAKE PARK DISTRICT

TONIGHT'S DISCUSSION

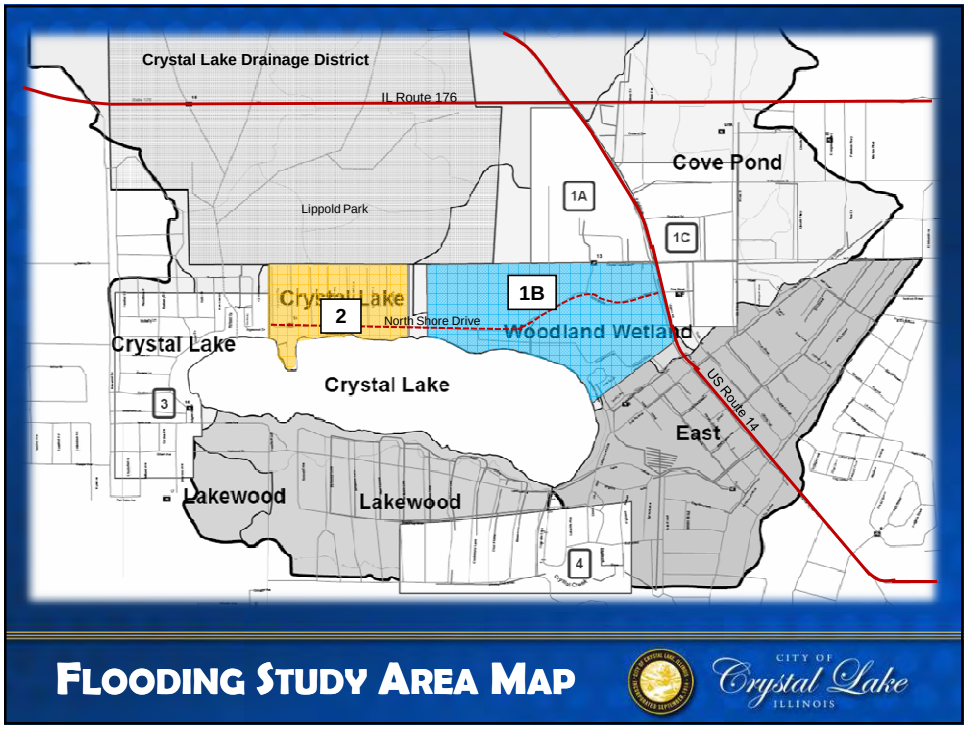
- Flooding Study Background
- Overview & Updates (Areas 1B & 2)
- Evaluation of Recommendations & Public Input
- Next Steps
- Question & Answer Session



This meeting is being video recorded.
Questions shouted out cannot be answered.

PLEASE HOLD QUESTIONS UNTIL THE END OF THE PRESENTATION...

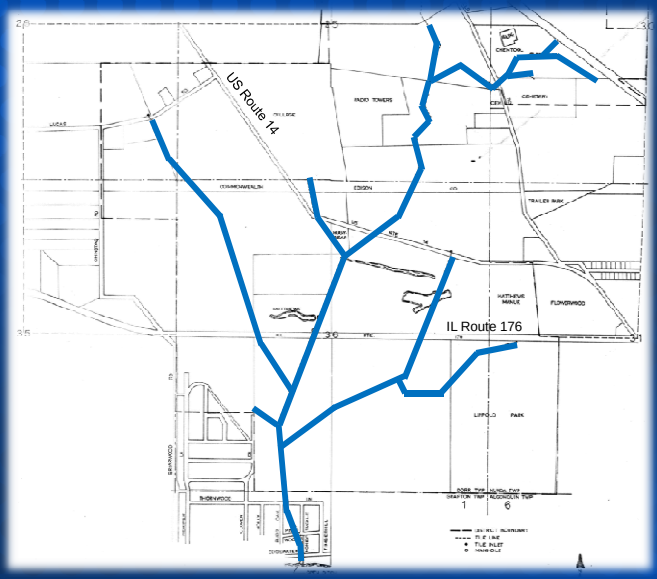

Emergency Flood Response– August 2007
FLOODING STUDY BACKGROUND
CITY OF Crystal Lake ILLINOIS


Crystal Lake Drainage District
IL Route 176
Lippold Park
Cove Pond
1A
1C
1B
2
North Shore Drive
Woodland Wetland
Crystal Lake
Crystal Lake
3
US Route 14
East
Lakewood
Lakewood
4
FLOODING STUDY AREA MAP
CITY OF Crystal Lake ILLINOIS



Development History
Around the Lake

CITY OF Crystal Lake ILLINOIS



1916 Drainage Tile Map

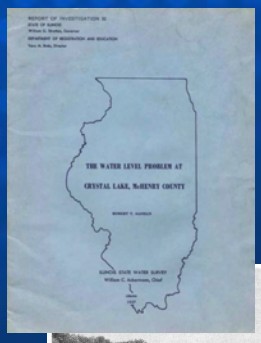
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Development History: the 1940's



Portions of Area 2, Woodland Channel, & Dog Lake Not Built Yet

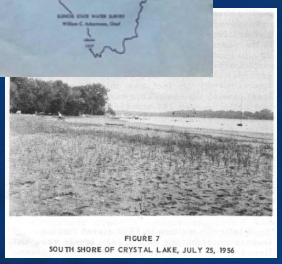
"The Water Level Problem At Crystal Lake"
1957 Report

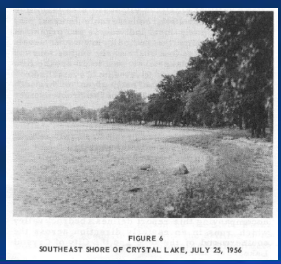


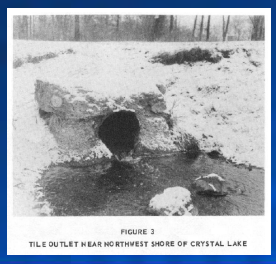
Copy of Report Located @ *www.crystallake.org*

Click on:
Departments/Engineering/Crystal Lake Flood Study

Study is located under:
Water Level Problem at Crystal Lake 1957 Report


FIGURE 7
SOUTH SHORE OF CRYSTAL LAKE, JULY 25, 1956


FIGURE 6
SOUTHEAST SHORE OF CRYSTAL LAKE, JULY 25, 1956


FIGURE 3
TILE OUTLET NEAR NORTHWEST SHORE OF CRYSTAL LAKE

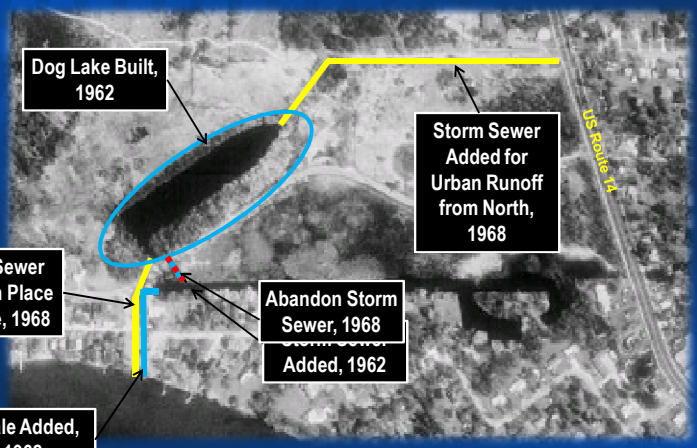
Current High Lake Levels Consistent With Other Water Bodies In The Region

Development History: the *1950's*



Developed areas in 1957 were built without detention

Development History: the 1960's

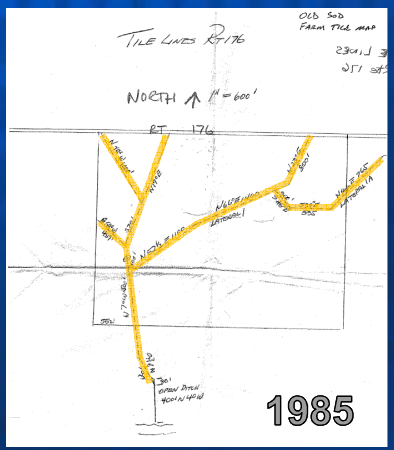


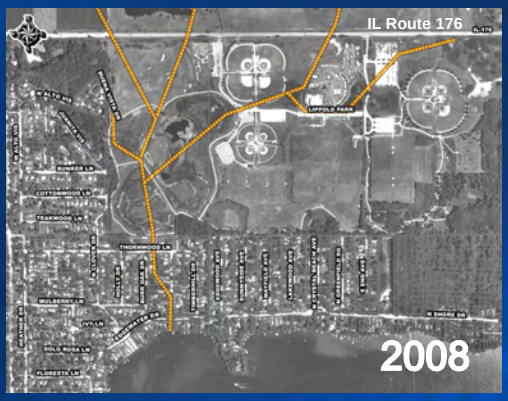
Dog Lake built in 1962 with Pipe Connection to the Lake in 1968

1976 Sod Farm Aerial Photo



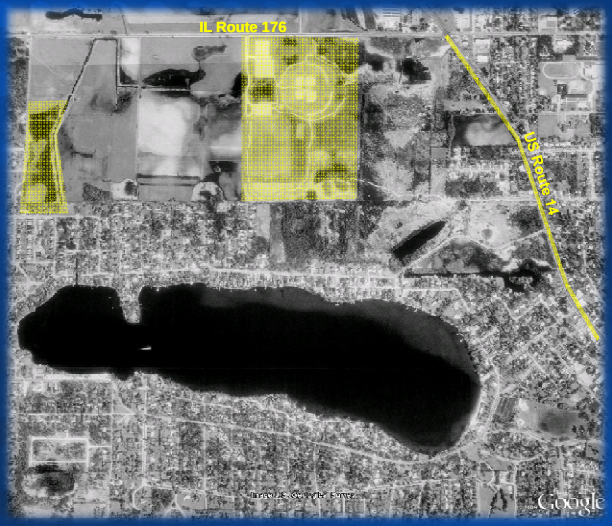
Sod Farm Drainage Tile Maps





Maps from the 1980's match current records and tile line surveys

Development History: the 1980's



US Route 14 widened and 1st phase of Lippold Park Constructed

Development History: the 1990's



Cove Pond and the western half of Lippold Park completed

Crystal Lake Park District
Lippold Park

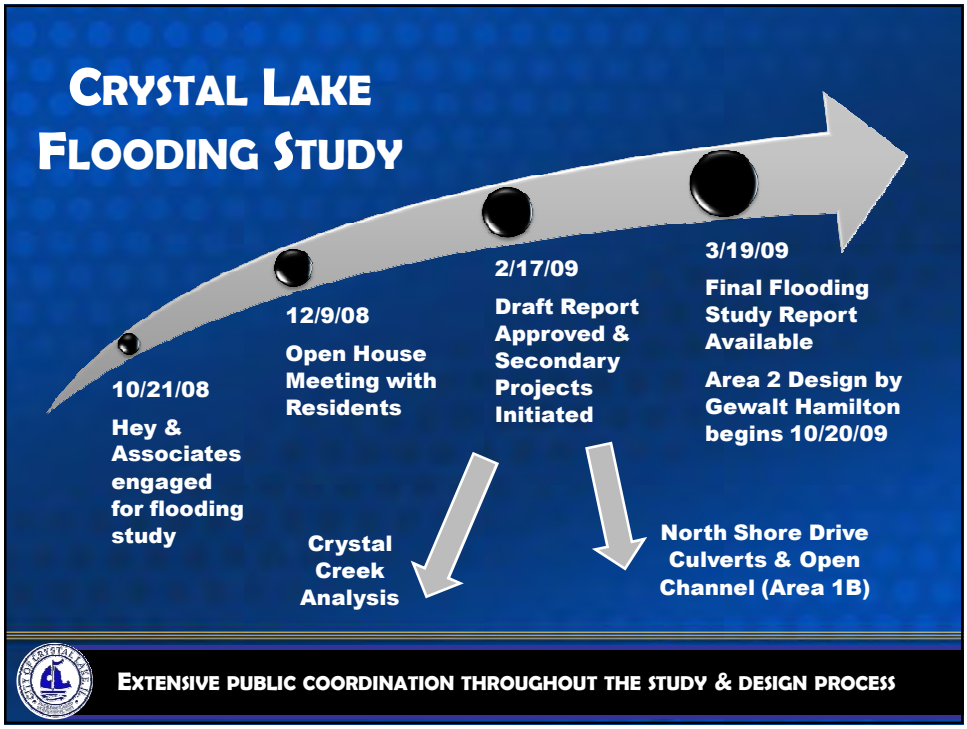


No work on southeast portion of site & no mainline tiles disrupted

Cove Pond Enhancement Project
Constructed Late 1990's



Cove Pond was a wetland restoration & water quality enhancement project


CRYSTAL LAKE
FLOODING STUDY
10/21/08
Hey & Associates engaged for flooding study
12/9/08
Open House Meeting with Residents
2/17/09
Draft Report Approved & Secondary Projects Initiated
3/19/09
Final Flooding Study Report Available
Area 2 Design by Gewalt Hamilton begins 10/20/09
Crystal Creek Analysis
North Shore Drive Culverts & Open Channel (Area 1B)
EXTENSIVE PUBLIC COORDINATION THROUGHOUT THE STUDY & DESIGN PROCESS