Outline of Topics

1. Village of Westchester Flood Impacts

2. Partnership In Practice

3. Phase I Mayfair Reservoir Expansion

4. Phase II Mayfair Reservoir Expansion
Existing Conditions

Mayfair Reservoir

Salt Creek South Fork Tributary

Spillway

Pump Station

Existing 42” Storm Sewer Under Carlisle St.

Salt Creek

31st St.
July 2010 and April 2013 Floods

- Mayfair Reservoir reached its capacity
- Salt Creek South Fork Tributary overtopped Carlisle St.
- Severe street flooding
- Overflows through backyards
- Floods damaged basements of over 120 homes and first floors of over 30 homes in each of the storm events.
Halifax Ave. and Carlisle St., looking south
Mayfair Ave., looking south towards Carlisle St.
Partnerships in Practice – Public Agencies

Federal
- Federal Emergency Management Agency (FEMA)
- US Army Corps of Engineers (USACE)

State
- Illinois Department of Transportation (IDOT)
- Illinois Department of Natural Resources (IDNR)
- Illinois Environmental Protection Agency (IEPA)

Regional
- Cook County Forest Preserve District (CCFPD)
- Metropolitan Water Reclamation District (MWRD)

Local
- Village of Westchester
Partnership in Practice - Private

- **V3 Companies** *(Engineering)*
- **Dudnik & Associates** *(Building Inspections)*
- **Copenhaver Construction** *(Excavation)*
- **Berger Excavating** *(Storm Sewer)*
- **Chicago Highlands Golf Course** *(Takes Fill)*
- **Chicago Archdioceses** *(Allows Fill)*
- **Businesses & Residents** *(Use Infrastructure)*
Purpose > Function

- **Permits:** IDOT, IDNR, IEPA, CCFP, FEMA > **Permission**
- **Funding:** MWRD & Westchester > **Vision/Mission**
- **Construction:** Copenhaver, Berger, Archdioceses, Chicago Highlands Golf Course > **Enabling Use**
- **Design/Inspection:** V3 & Dudnik > **How To**
- **Use:** Business & Residents > **Benefits**
Phase I Mayfair Reservoir Expansion

The Mayfair Reservoir Expanded from 82 Ac-Ft to 115 Ac-Ft

Challenges:

1. Westchester Park District Lease
2. Export 57,000 Cubic Yards Through Residential Neighborhood
3. Single Lane Golf Path Into Chicago Highlands Golf Club
Phase I Mayfair Reservoir Expansion

Challenges:

4. Soggy Bottom Due To Winter Hauling

5. IEPA Permit Delay
Phase I Mayfair Reservoir Expansion

August 18, 2015
Following 4.5” rain event in 24 hours.

August 26, 2015
Basin Recovery
Phase II Mayfair Reservoir Expansion

Salt Creek Tributary

Mayfair Reservoir

42” Storm Sewer

Ex Storm
Phase II Mayfair Reservoir Expansion

Challenges:

1. Mature Tree Removal In Parkway
2. Construction Proximity to 9 Residences
3. Nicor Gas Lines in Conflict – 1 Month Shut Down
Phase II Mayfair Reservoir Expansion

Challenges:

5. Utility Shuttle & House Connections
Phase II Mayfair Reservoir Expansion
Phase II Mayfair Reservoir Expansion